

**B**

**AIR QUALITY AND GREENHOUSE GAS  
EMISSION CALCULATIONS**







Table C.1

Construction Schedule

CITY DOCK NO. 1	ID	Start Year	Duration (days)	Duration (months)	2026
Environmental Assessment (EIR/EA)		2011		12	
<b>PHASE I</b>					
<b>BERTH 56 BUILDING</b>					
Construction (New Building)	1a	2015	464	18	
<b>BERTH 57 (POLA)</b>					
Construction (Wharf, Ground Improvements, and Transit Shed)	1b	2014	464	18	
Construction (Floating Dock, Public Plaza, Signal Street)	1c	2014	464	18	
Construction (Promenade)	1d	2015	155	6	
<b>BERTH 57 (SCMI)</b>					
Building Interior Construction	1e	2016	310	12	
<b>PHASE II</b>					
B260 Demo (SCMI Building Demo)	2a	2017	464	18	
<b>BERTHS 58-60 (POLA)</b>					
Construction (Wharf, Ground Improvements, Transit Shed)	2b	2019	464	18	
Construction (Pump Station)	2c	2019	310	12	
Construction (Promenade)	2d	2020	155	6	
<b>BERTH 58-60 (Tenant)</b>					
Building Interior Construction; Temporary NOAA facility	2e	2020	310	12	
<b>Westways</b>					
Construction (Berths 70-71 NOAA Building and Wave Tank)	2g	2023	464	18	
<b>BASELINE</b>					
Berth 56 - CDFG Building	5	2011			
Berth 57 - Transit Shed Warehouse	6	2011			
Berth 57 - San Pedro Bait Company	6b	2011			
Berth 60 - Water Taxi	7	2011			
Berth 260 - SMCI Facility	8	2011			
<b>PROPOSED PROJECT</b>					
Berth 60 - Water Taxi	7b	2016			
Berth 56-57 - Learning Center; SCMI Research Facility	9	2016			1 1
Berth 58-60 - NOAA Temporary Berths	10a	2021			
Berth 58-60 - Research Facility, Marine Business Park, Water Taxi, Café, Public Plaza	10b	2021			1 1
B70-71 - NOAA Facility, Wave Tank	11	2024			1 1
San Pedro Bait Company	12	2014			1 1



**Table C.2 Construction Equipment Utilization**

						Peak Day		Total										
Phase	Task	Construction Element	ID	Year	Equipment <sup>[1]</sup>	Number Active <sup>[1]</sup>	Activity		Activity total									
PHASE 1	BERTH 56 BUILDING	Construction (New Building)	1a	2015	<b>Construction Equipment</b>					hr/day	daily hp-hr	fuel use (lb/day)	operating days					
					Cranes	1	8			284	240							
					Forklifts	1	8			185	180							
					Generator	1	4			50	90							
					Water Truck	1	4			211	300							
					Tractors/loaders/backhoes	1	8			90	180							
					Welding Equipment	1	2			13	90							
					<b>Vehicle Exhaust</b>					Number Active <sup>[3]</sup>	trip/day/vehicle	VMT (mi/day)/unit	Idling (hr/day)	total operating days				
					Trucks material deliveries - offsite transit & idling exhaust	4	8			120								
					Trucks material deliveries - onsite transit exhaust	4	8		4.0	120								
					Trucks material deliveries - onsite idling exhaust	4	8			120								
					Worker vehicles exhaust	8	2		60	120								
					<b>Fugitive Emissions</b>													
					Trucks material deliveries paved road dust	4	8		280	120								
					Worker vehicles paved road dust	8	2		60	120								
											peak day paint rate							
					Architectural coatings						25%							
					Asphalt off-gas						acres/day	0.00						
					PHASE 1	BERTH 57 (POLA)	Construction (Wharf, Ground Improvements, and Transit Shed) <i>Wharf Improvements</i>	1b	2014	<b>Construction Equipment</b>					hr/day	daily hp-hr	fuel use (lb/day)	total operating days
										Rubber tired dozers	1	4			209	90		
Tractors/loaders/backhoes	1	4								45	180							
Water Truck	1	2								105	90							
Cranes	1	6								213	90							
Dump Truck	1	8								421	180							
Pile Driving	1	8								439	60							
Forklifts	1	4								93	90							
<i>Ground Improvements</i>	Graders	1	8							181	60							
Excavators	1	8		164						60								
Jet pump	1	4		219						60								
Asphalt truck	1	4		211						5								
Pavers	1	4		48						10								
Water Truck	1	2		105						45								
Striper	1	2		110						10								

**Table C.2 Construction Equipment Utilization**

Phase	Task	Construction Element	ID	Year	Equipment <sup>[1]</sup>	
PHASE 1	BERTH 56 BUILDING	Construction (New Building)	1a	2015	<b>Construction Equipment</b>	fuel use (lb/yr)
					Cranes	68,206
					Forklifts	33,340
					Generator	4,466
					Water Truck	63,181
					Tractors/loaders/backhoes	16,284
					Welding Equipment	1,169
					<b>Vehicle Exhaust</b>	VMT (mi/yr)/unit
					Trucks material deliveries - offsite transit & idling exhaust	33,600
					Trucks material deliveries - onsite transit exhaust	480
					Trucks material deliveries - onsite idling exhaust	
					Worker vehicles exhaust	7,200
					<b>Fugitive Emissions</b>	
					Trucks material deliveries paved road dust	33,600
					Worker vehicles paved road dust	7,200
Architectural coatings						
Asphalt off-gas						
PHASE 1	BERTH 57 (POLA)	Construction (Wharf, Ground Improvements, and Transit Shed) <i>Wharf Improvements</i>	1b	2014	<b>Construction Equipment</b>	fuel use (lb/yr)
					Rubber tired dozers	18,779
					Tractors/loaders/backhoes	8,147
					Water Truck	9,476
					Cranes	19,188
					Dump Truck	75,807
					Pile Driving	26,332
					Forklifts	8,335
					<i>Ground Improvements</i>	
					Graders	10,883
					Excavators	9,830
					Jet pump	13,166
					Asphalt truck	1,053
					Pavers	483
					Water Truck	4,738
Striper	1,097					



**Table C.2 Construction Equipment Utilization**

				Truck Capacity (cu.yd)	Volume of Miles Soiled Hauled	Idling (min) / trip				
<i>Transit Shed/Building Construction</i>	Rollers	construction equipment	onsite dsl	50	84	0.3752				
	Tractors/loaders/backhoes	construction equipment	onsite dsl	50	75	0.3685				
	Cranes	construction equipment	onsite dsl	250	365	0.2881				
	Forklifts	construction equipment	onsite dsl	120	149	0.201				
	Tractors/loaders/backhoes	construction equipment	onsite dsl	50	75	0.3685				
	Welding Equipment	construction equipment	onsite dsl	0	46	0.3417				
	<i>Wharf Improvements</i>	<b>Vehicle Exhaust</b>			Fuel					
		Trucks material deliveries - offsite transit & idling exhaust	vehicle	offsite dsl		35				
		Trucks material deliveries - onsite transit exhaust	vehicle	onsite dsl		0.5				
		Trucks material deliveries - onsite idling exhaust	vehicle	onsite idlin dsl			5			
Trucks material deliveries - offsite transit & idling exhaust		vehicle	offsite dsl		35					
Trucks material deliveries - onsite transit exhaust		vehicle	onsite dsl		0.5					
Trucks material deliveries - onsite idling exhaust		vehicle	onsite idlin dsl			5				
Trucks material deliveries - offsite transit & idling exhaust		vehicle	offsite dsl		35					
Trucks material deliveries - onsite transit exhaust		vehicle	onsite dsl		0.5					
Trucks material deliveries - onsite idling exhaust		vehicle	onsite idlin dsl			5				
<i>Ground Improvements</i>	Trucks jet grouting haul away - offsite transit & idling exhaust	vehicle	offsite dsl		35					
	Trucks jet grouting haul away - onsite transit exhaust	vehicle	onsite dsl		0.5					
	Trucks jet grouting haul away - onsite idling exhaust	vehicle	onsite idlin dsl			5				
	Trucks construction/demolition - offsite transit & idling exhaust	vehicle	offsite dsl		35					
	Trucks construction/demolition - onsite transit exhaust	vehicle	onsite dsl		0.5					
	Trucks construction/demolition - onsite idling exhaust	vehicle	onsite idlin dsl			5				
	Worker vehicles exhaust	worker vehicle	offsite gas&dsl			30.0				
	<b>Fugitive Emissions</b>									
	Trucks (all) paved road dust	fugitive	offsite dsl	22		175				
	Worker vehicles paved road dust	fugitive	offsite			30				
				Site Acreage						
Fugitive construction dust - grading				3.55						
Fugitive construction dust - soil moving/handling										
Fugitive construction dust - soil loading/unloading										
				Building Footprint (sqft) exterior						
Architectural coatings				46,500		75%				
Asphalt off-gas				Total Acres						
				1.65						
PHASE 1	BERTH 57 (POLA)	Construction (Floating Dock, Public Plaza, Signal Street) <i>Floating Dock</i>	1c	<b>2014 Construction Equipment</b>						
				Cranes	construction equipment	onsite dsl	250	365	0.2881	
				Forklifts	construction equipment	onsite dsl	120	149	0.201	
				Tractors/loaders/backhoes	construction equipment	onsite dsl	50	75	0.3685	
				Derrick Barge	construction equipment	onsite dsl	500	750	0.4154	
				Tugboat (propulsion engine)	construction equipment	onsite dsl		678	0.31	
				Tugboat (auxiliary engine)	construction equipment	onsite dsl		47	0.43	
				Pile Driving	construction equipment	onsite dsl	250	381	0.3819	
				<i>Public Plaza</i>	Cranes	construction equipment	onsite dsl	250	365	0.2881

**Table C.2 Construction Equipment Utilization**

				Number	trip/day/v			total
				Active <sup>[3]</sup>	ehicle	VMT (mi/day)	operating	
							days	
				Rollers	1	4	48	10
				Tractors/loaders/backhoes	1	4	45	30
<i>Transit Shed/Building Construction</i>				Cranes	1	8	284	120
				Forklifts	1	4	93	120
				Tractors/loaders/backhoes	1	4	45	120
				Welding Equipment	1	4	26	90
				<b>Vehicle Exhaust</b>				
<i>Wharf Improvements</i>				Trucks material deliveries - offsite transit & idling exhaust	4	8	280	180
				Trucks material deliveries - onsite transit exhaust	4	8	4.0	180
				Trucks material deliveries - onsite idling exhaust	4	8		180
<i>Ground Improvements</i>				Trucks material deliveries - offsite transit & idling exhaust	4	8	280	45
				Trucks material deliveries - onsite transit exhaust	4	8	4.0	45
				Trucks material deliveries - onsite idling exhaust	4	8		45
<i>Transit Shed/Building Construction</i>				Trucks material deliveries - offsite transit & idling exhaust	4	8	280	120
				Trucks material deliveries - onsite transit exhaust	4	8	4.0	120
				Trucks material deliveries - onsite idling exhaust	4	8		120
<i>Ground Improvements</i>				Trucks jet grouting haul away - offsite transit & idling exhaust	5	10	361	60
				Trucks jet grouting haul away - onsite transit exhaust	5	10	5.2	60
				Trucks jet grouting haul away - onsite idling exhaust	5	10		60
<i>Transit Shed/Building Construction</i>				Trucks construction/demolition - offsite transit & idling exhaust	1	1.0	35	120
				Trucks construction/demolition - onsite transit exhaust	1	1.0	0.5	120
				Trucks construction/demolition - onsite idling exhaust	1	1.0		120
				Worker vehicles exhaust	25	2	60	180
				<b>Fugitive Emissions</b>				
				Trucks (all) paved road dust	9	35	1,236	180
				Worker vehicles paved road dust	25	2	60	180
						VMT (mi/day)		
				Fugitive construction dust - grading	3		1.03	60
				Fugitive construction dust - soil moving/handling		8		180
						cy/day		
				Fugitive construction dust - soil loading/unloading		35		180
						peak day		
						paint rate		
				Architectural coatings		25%		
						acres/day		
				Asphalt off-gas		0.41		
PHASE 1	BERTH 57 (POLA)	Construction (Floating Dock, Public Plaza, Signal Street) <i>Floating Dock</i>	1c	2014 <b>Construction Equipment</b>	hr/day		fuel use daily hp-hr (lb/day)	total operating days
				Cranes	1	4	142	90
				Forklifts	1	8	185	90
				Tractors/loaders/backhoes	1	4	45	90
				Derrick Barge	1	4	365	60
				Tugboat (propulsion engine)	2	2	841	60
				Tugboat (auxiliary engine)	1	2	56	60
				Pile Driving	1	4	219	45
<i>Public Plaza</i>				Cranes	1	8	284	120

**Table C.2 Construction Equipment Utilization**

				Rollers		480
				Tractors/loaders/backhoes		1,358
			<i>Transit Shed/Building Construction</i>	Cranes		34,112
				Forklifts		11,114
				Tractors/loaders/backhoes		5,432
				Welding Equipment		2,338
				<b>Vehicle Exhaust</b>	total trips/yr	VMT (mi/yr)
			<i>Wharf Improvements</i>	Trucks material deliveries - offsite transit & idling exhaust		50,400
				Trucks material deliveries - onsite transit exhaust		720
				Trucks material deliveries - onsite idling exhaust		
			<i>Ground Improvements</i>	Trucks material deliveries - offsite transit & idling exhaust		12,600
				Trucks material deliveries - onsite transit exhaust		180
				Trucks material deliveries - onsite idling exhaust		
			<i>Transit Shed/Building Construction</i>	Trucks material deliveries - offsite transit & idling exhaust		33,600
				Trucks material deliveries - onsite transit exhaust		480
				Trucks material deliveries - onsite idling exhaust		
			<i>Ground Improvements</i>	Trucks jet grouting haul away - offsite transit & idling exhaust	619	21,665
				Trucks jet grouting haul away - onsite transit exhaust		310
				Trucks jet grouting haul away - onsite idling exhaust		
			<i>Transit Shed/Building Construction</i>	Trucks construction/demolition - offsite transit & idling exhaust	50	1,750
				Trucks construction/demolition - onsite transit exhaust		60
				Trucks construction/demolition - onsite idling exhaust		
				Worker vehicles exhaust		10,800
				<b>Fugitive Emissions</b>		
				Trucks (all) paved road dust		222,495
				Worker vehicles paved road dust		10,800
						VMT (mi/yr)
				Fugitive construction dust - grading		2,440,625
				Fugitive construction dust - soil moving/handling		
					total volume of soil handled (cy)	
				Fugitive construction dust - soil loading/unloading	6250	
				Architectural coatings		
				Asphalt off-gas		
PHASE 1	BERTH 57 (POLA)	Construction (Floating Dock, Public Plaza, Signal Street) <i>Floating Dock</i>	1c	2014 <b>Construction Equipment</b>	annual hp-hr	fuel use (lb/yr)
				Cranes		12,792
				Forklifts		16,671
				Tractors/loaders/backhoes		4,074
				Derrick Barge		21,908
				Tugboat (propulsion engine)	50,443	
				Tugboat (auxiliary engine)	3,335	
				Pile Driving		9,874
		<i>Public Plaza</i>		Cranes		34,112

**Table C.2 Construction Equipment Utilization**

Phase	Berth	Activity	Equipment	Location	Fuel	Truck Capacity (cu.yd)	Volume of Miles Hauled	Idling (min) / trip				
Signal Street			Forklifts	onsite	dsl	120	149	0.201				
			Water Truck	onsite	dsl	250	381	0.3819				
			Tractors/loaders/backhoes	onsite	dsl	50	75	0.3685				
			Welding Equipment	onsite	dsl	0	46	0.3417				
			Asphalt truck	onsite	dsl	250	381	0.3819				
			Pavers	onsite	dsl	50	89	0.4154				
			Water Truck	onsite	dsl	250	381	0.3819				
			Striper	onsite	dsl	250	381	0.4154				
			Rollers	onsite	dsl	50	84	0.3752				
			Tractors/loaders/backhoes	onsite	dsl	50	75	0.3685				
			Floating Dock			<b>Vehicle Exhaust</b>			Fuel			
						Trucks material deliveries - offsite transit & idling exhaust	vehicle	offsite	dsl		35	
Trucks material deliveries - onsite transit exhaust	vehicle	onsite				dsl		0.5				
Trucks material deliveries - onsite idling exhaust	vehicle	onsite idling				dsl			5			
Worker vehicles exhaust	worker vehicle	offsite				gas&dsl			30.0			
<b>Fugitive Emissions</b>												
Trucks (all) paved road dust	fugitive	offsite				dsl	22		35			
Worker vehicles paved road dust	fugitive	offsite							30			
								Site Acreage				
Fugitive construction dust - grading	fugitive	onsite						4.9				
Fugitive construction dust - soil moving/handling	fugitive	onsite										
Fugitive construction dust - soil loading/unloading	fugitive	onsite										
					Building Footprint (sqft)	exterior						
Architectural coatings	fugitive	onsite			0	75%						
Asphalt off-gas	fugitive	onsite			Total Acres	3.83						
PHASE 1	BERTH 57 (POLA)	Construction (Promenade)	1d	2015	<b>Construction Equipment</b>							
					Tractors/loaders/backhoes	construction equipment	onsite	dsl	50	75	0.3685	
					Dump Truck	construction equipment	onsite	dsl	250	381	0.3819	
					Forklifts	construction equipment	onsite	dsl	120	149	0.201	
					<b>Vehicle Exhaust</b>			Fuel				
					Trucks material deliveries - offsite transit & idling exhaust	vehicle	offsite	dsl		35		
					Trucks material deliveries - onsite transit exhaust	vehicle	onsite	dsl		0.5		
					Trucks material deliveries - onsite idling exhaust	vehicle	onsite idling	dsl			5	
					Worker vehicles exhaust	worker vehicle	offsite	gas&dsl			30.0	
					<b>Fugitive Emissions</b>							
					Trucks (all) paved road dust	fugitive	offsite	dsl	22		35	
					Worker vehicles paved road dust	fugitive	offsite				30	

**Table C.2 Construction Equipment Utilization**

Phase	Berth	Activity	Equipment	Number	hr/day	daily hp-hr	fuel use (lb/day)	total operating days						
Signal Street			Forklifts	1	8			90						
			Water Truck	1	2			30						
			Tractors/loaders/backhoes	1	4			45						
			Welding Equipment	1	2			30						
			Asphalt truck	1	4			45						
			Pavers	1	4			45						
			Water Truck	1	2			30						
			Striper	1	2			30						
			Rollers	1	4			45						
			Tractors/loaders/backhoes	1	4			45						
Floating Dock			<b>Vehicle Exhaust</b>	<b>Number Active<sup>[3]</sup></b>	<b>trip/day/v</b>	<b>ehicle VMT (mi/day)</b>		<b>total operating days</b>						
			Trucks material deliveries - offsite transit & idling exhaust	4	8	280		60						
			Trucks material deliveries - onsite transit exhaust	4	8	4.0		60						
			Trucks material deliveries - onsite idling exhaust	4	8			60						
			Worker vehicles exhaust	24	2	60		60						
			<b>Fugitive Emissions</b>											
			Trucks (all) paved road dust	4	8	280		60						
			Worker vehicles paved road dust	24	2	60		60						
						<b>VMT (mi/day)</b>								
			Fugitive construction dust - grading	3		1.03		0						
			Fugitive construction dust - soil moving/handling		8			120						
					cy/day									
			Fugitive construction dust - soil loading/unloading		0			120						
					peak day paint rate									
			Architectural coatings		25%									
		acres/day												
Asphalt off-gas		0.96												
PHASE 1	BERTH 57 (POLA)	Construction (Promenade)	2015	<b>Construction Equipment</b>	hr/day	daily hp-hr	fuel use (lb/day)	total operating days						
									Tractors/loaders/backhoes	1	8		90	30
									Dump Truck	1	4		211	30
									Forklifts	1	4		93	30
									<b>Vehicle Exhaust</b>	<b>Number Active<sup>[3]</sup></b>	<b>trip/day/v</b>	<b>ehicle VMT (mi/day)</b>		<b>total operating days</b>
									Trucks material deliveries - offsite transit & idling exhaust	4	8	280		25
									Trucks material deliveries - onsite transit exhaust	4	8	4.0		25
									Trucks material deliveries - onsite idling exhaust	4	8			25
									Worker vehicles exhaust	4	2	60		25
									<b>Fugitive Emissions</b>					
									Trucks (all) paved road dust	4	8	280		25
									Worker vehicles paved road dust	4	2	60		25

**Table C.2 Construction Equipment Utilization**

Phase	Berth	Activity	Equipment	Quantity	Unit	Trips/yr	MT (lb/yr)					
PHASE 1	BERTH 57 (POLA)	Construction (Promenade)	1d	2015	<b>Construction Equipment</b>	Forklifts	16,671					
						Water Truck	4,738					
						Tractors/loaders/backhoes	2,037					
						Welding Equipment	584					
						Asphalt truck	2,106					
						Pavers	483					
						Water Truck	1,053					
						Striper	549					
						Rollers	240					
						Tractors/loaders/backhoes	453					
						<b>Signal Street</b>						
						<b>Floating Dock</b>						
						<b>Vehicle Exhaust</b>					total trips/yr	VMT (mi/yr)
						Trucks material deliveries - offsite transit & idling exhaust						16,800
Trucks material deliveries - onsite transit exhaust						240						
Trucks material deliveries - onsite idling exhaust												
Worker vehicles exhaust						3,600						
<b>Fugitive Emissions</b>												
Trucks (all) paved road dust						16,800						
Worker vehicles paved road dust						3,600						
						VMT (mi/yr)						
Fugitive construction dust - grading						3.3721875						
Fugitive construction dust - soil moving/handling												
					total volume of soil handled (cy)							
Fugitive construction dust - soil loading/unloading						0						
Architectural coatings												
Asphalt off-gas												
<b>fuel use (lb/yr)</b>												
Tractors/loaders/backhoes						2,714						
Dump Truck						6,318						
Forklifts						2,778						
<b>Vehicle Exhaust</b>					total trips/yr	VMT (mi/yr)						
Trucks material deliveries - offsite transit & idling exhaust						7,000						
Trucks material deliveries - onsite transit exhaust						100						
Trucks material deliveries - onsite idling exhaust												
Worker vehicles exhaust						1,500						
<b>Fugitive Emissions</b>												
Trucks (all) paved road dust						7,000						
Worker vehicles paved road dust						1,500						

**Table C.2 Construction Equipment Utilization**

Phase	Location	Activity	ID	Year	Equipment	Emission Type	Location	Emissions			Truck Capacity (cu.yd)	Volume of Soil Hauled	Miles Traveled (mi/trip)	Idling (min) / trip
								CO <sub>2</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>				
PHASE I	BERTH 57 (SCMI)	Building Interior Construction	1e	2016	<b>Construction Equipment</b>	Fugitive construction dust - soil moving/handling	fugitive	onsite						
						Fugitive construction dust - soil loading/unloading	fugitive	onsite						
						Architectural coatings	fugitive	onsite			0	75%		
						Asphalt off-gas	fugitive	onsite			0			
						Forklifts	construction equipment	onsite	dsl	120	149	0.201		
						Tractors/loaders/backhoes	construction equipment	onsite	dsl	50	75	0.3685		
						Welding Equipment	construction equipment	onsite	dsl	0	46	0.3417		
						<b>Vehicle Exhaust</b>			Fuel					
						Trucks material deliveries - offsite transit & idling exhaust	vehicle	offsite	dsl			35		
						Trucks material deliveries - onsite transit exhaust	vehicle	onsite	dsl			0.5		
Trucks material deliveries - onsite idling exhaust	vehicle	onsite idlin	dsl			5								
Worker vehicles exhaust	worker vehicle	offsite	gas&dsl			30.0								
<b>Fugitive Emissions</b>														
Trucks (all) paved road dust	fugitive	offsite	dsl	22		35								
Worker vehicles paved road dust	worker vehicle	offsite	gas&dsl			30								
Fugitive construction dust - soil moving/handling	fugitive	onsite												
Fugitive construction dust - soil loading/unloading	fugitive	onsite												
Architectural coatings	fugitive	onsite			46,500	25%								
Asphalt off-gas	fugitive	onsite			0									
PHASE II	B260 Demo (SCMI Building B260 Demo (SCMI Building Demo)	2a	2017	<b>Construction Equipment</b>	Rubber tired dozers	construction equipment	onsite	dsl	250	358	0.3953			
					Tractors/loaders/backhoes	construction equipment	onsite	dsl	50	75	0.3685			
					Water Truck	construction equipment	onsite	dsl	250	381	0.3819			
					Cranes	construction equipment	onsite	dsl	250	365	0.2881			
					Dump Truck	construction equipment	onsite	dsl	250	381	0.3819			
					Derrick Barge	construction equipment	onsite	dsl	500	750	0.4154			
					Tugboat (propulsion engine)	construction equipment	onsite	dsl		678	0.31			
					Tugboat (auxiliary engine)	construction equipment	onsite	dsl		47	0.43			
					Forklifts	construction equipment	onsite	dsl	120	149	0.201			
					<b>Vehicle Exhaust</b>			Fuel						
Trucks material deliveries - offsite transit & idling exhaust	vehicle	offsite	dsl			35								
Trucks material deliveries - onsite transit exhaust	vehicle	onsite	dsl			0.5								
Trucks material deliveries - onsite idling exhaust	vehicle	onsite idlin	dsl			5								
Trucks construction/demolition - offsite transit & idling exhaust	vehicle	offsite	dsl			35								
Trucks construction/demolition - onsite transit exhaust	vehicle	onsite	dsl			0.5								
Trucks construction/demolition - onsite idling exhaust	vehicle	onsite idlin	dsl			5								
Worker vehicles exhaust	worker vehicle	offsite	gas&dsl			30.0								

**Table C.2 Construction Equipment Utilization**

Phase	Location	Activity	Equipment	Unit	Value	Unit	Value	Unit	Value	Unit	Value
			Fugitive construction dust - soil moving/handling		8						30
			Fugitive construction dust - soil loading/unloading	cy/day	0						30
			Architectural coatings	peak day paint rate							
			Asphalt off-gas	acres/day	0.00						
PHASE I	BERTH 57 (SCMI)	Building Interior Construction	1e	2016	<b>Construction Equipment</b>	hr/day	daily hp-hr	fuel use (lb/day)	total operating days		
					Forklifts	1	4		93		120
					Tractors/loaders/backhoes	1	4		45		120
					Welding Equipment	1	4		26		90
					<b>Vehicle Exhaust</b>	Number Active <sup>[3]</sup>	trip/day/v	vehicle VMT (mi/day)		total operating days	
					Trucks material deliveries - offsite transit & idling exhaust	4	8	280		120	
					Trucks material deliveries - onsite transit exhaust	4	8	4.0		120	
					Trucks material deliveries - onsite idling exhaust	4	8			120	
					Worker vehicles exhaust	4	2	60		120	
					<b>Fugitive Emissions</b>						
					Trucks (all) paved road dust	4	8	280		120	
					Worker vehicles paved road dust	4	2	60		120	
					Fugitive construction dust - soil moving/handling		4				120
					Fugitive construction dust - soil loading/unloading		cy/day	0			120
					Architectural coatings		peak day paint rate				
					Asphalt off-gas		acres/day	0.00			
PHASE II	B260 Demo (SCMI Buildin B260 Demo (SCMI Building Demo)		2a	2017	<b>Construction Equipment</b>	hr/day	daily hp-hr	fuel use (lb/day)	total operating days		
					Rubber tired dozers	1	6		313		90
					Tractors/loaders/backhoes	1	4		45		180
					Water Truck	1	4		210		180
					Cranes	1	8		284		90
					Dump Truck	1	4		210		90
					Derrick Barge	1	4		365		120
					Tugboat (propulsion engine)	2	2	841		120	
					Tugboat (auxiliary engine)	1	2	56		120	
					Forklifts	1	8		185		90
					<b>Vehicle Exhaust</b>	Number Active <sup>[3]</sup>	trip/day/v	vehicle VMT (mi/day)		total operating days	
					Trucks material deliveries - offsite transit & idling exhaust	4	8	280		120	
					Trucks material deliveries - onsite transit exhaust	4	8	4.0		120	
					Trucks material deliveries - onsite idling exhaust	4	8			120	
					Trucks construction/demolition - offsite transit & idling exhaust	1	1.0	35		120	
					Trucks construction/demolition - onsite transit exhaust	1	1.0	0.5		120	
					Trucks construction/demolition - onsite idling exhaust	1	1.0			120	
					Worker vehicles exhaust	13	2	60		120	



**Table C.2 Construction Equipment Utilization**

Phase	Location	Activity	Code	Year	Equipment/Category	Volume/Rate	Fuel Use (lb/yr)	Vehicle Exhaust (trips/yr)	Vehicle Exhaust (VMT mi/yr)
PHASE I	BERTH 57 (SCMI)	Building Interior Construction	1e	2016	Fugitive construction dust - soil moving/handling	total volume of soil handled (cy)			
					Fugitive construction dust - soil loading/unloading		0		
					Architectural coatings				
					Asphalt off-gas				
					<b>Construction Equipment</b>				
					Forklifts		11,111		
					Tractors/loaders/backhoes		5,420		
					Welding Equipment		2,337		
					<b>Vehicle Exhaust</b>	total trips/yr		VMT (mi/yr)	
					Trucks material deliveries - offsite transit & idling exhaust		33,600		
					Trucks material deliveries - onsite transit exhaust		480		
					Trucks material deliveries - onsite idling exhaust				
					Worker vehicles exhaust			7,200	
					<b>Fugitive Emissions</b>				
					Trucks (all) paved road dust		33,600		
Worker vehicles paved road dust		7,200							
Fugitive construction dust - soil moving/handling	total volume of soil handled (cy)								
Fugitive construction dust - soil loading/unloading		0							
Architectural coatings									
Asphalt off-gas									
PHASE II	B260 Demo (SCMI Buildin B260 Demo (SCMI Building Demo)		2a	2017	<b>Construction Equipment</b>		fuel use (lb/yr)		
					Rubber tired dozers		28,158		
					Tractors/loaders/backhoes		8,121		
					Water Truck		37,820		
					Cranes		25,595		
					Dump Truck		18,910		
					Derrick Barge				
					Tugboat (propulsion engine)	100,886			
					Tugboat (auxiliary engine)	6,669			
					Forklifts		16,659		
					<b>Vehicle Exhaust</b>	total trips/yr		VMT (mi/yr)	
					Trucks material deliveries - offsite transit & idling exhaust		33,600		
					Trucks material deliveries - onsite transit exhaust		480		
					Trucks material deliveries - onsite idling exhaust				
					Trucks construction/demolition - offsite transit & idling exhaust	50	1,750		
Trucks construction/demolition - onsite transit exhaust		60							
Trucks construction/demolition - onsite idling exhaust									
Worker vehicles exhaust			7,200						

**Table C.2 Construction Equipment Utilization**

		<b>Fugitive Emissions</b>								
		Trucks (all) paved road dust	fugitive	offsite	dsl	22			35	
		Worker vehicles paved road dust	fugitive	offsite					30	
		Fugitive construction dust - soil moving/handling	fugitive	onsite						
		Fugitive construction dust - soil loading/unloading	fugitive	onsite						
		Fugitive construction dust - demolition	fugitive	onsite				Building (sqft)		
		Fugitive construction dust - demolition debris loading	fugitive	onsite				24,100		
								24,100		
								Building Footprint (sqft)	exterior	
		Architectural coatings	fugitive	onsite				0	75%	
		Asphalt off-gas	fugitive	onsite				Total Acres	0	
PHASE II	BERTHS 58-60 (POLA)	Construction (Wharf, Ground Improvements, Transit Shed)	2b	<b>2019 Construction Equipment</b>						
		<i>Wharf Improvements</i>		Rubber tired dozers	construction equipment	onsite	dsl	250	358	0.3953
				Tractors/loaders/backhoes	construction equipment	onsite	dsl	50	75	0.3685
				Water Truck	construction equipment	onsite	dsl	250	381	0.3819
				Cranes	construction equipment	onsite	dsl	250	365	0.2881
				Dump Truck	construction equipment	onsite	dsl	250	381	0.3819
				Forklifts	construction equipment	onsite	dsl	120	149	0.201
				Pile Driving	construction equipment	onsite	dsl	250	381	0.3819
		<i>Ground Improvements</i>		Graders	construction equipment	onsite	dsl	120	162	0.4087
				Excavators	construction equipment	onsite	dsl	120	157	0.3819
				Jet pump	construction equipment	onsite	dsl	250	500	0.4154
				Asphalt truck	construction equipment	onsite	dsl	250	381	0.3819
				Pavers	construction equipment	onsite	dsl	50	89	0.4154
				Water Truck	construction equipment	onsite	dsl	250	381	0.3819
				Striper	construction equipment	onsite	dsl	250	381	0.4154
				Rollers	construction equipment	onsite	dsl	50	84	0.3752
				Tractors/loaders/backhoes	construction equipment	onsite	dsl	50	75	0.3685
		<i>Transit Shed/Building Construction</i>		Cranes	construction equipment	onsite	dsl	250	365	0.2881
				Forklifts	construction equipment	onsite	dsl	120	149	0.201
				Tractors/loaders/backhoes	construction equipment	onsite	dsl	50	75	0.3685
				Welding Equipment	construction equipment	onsite	dsl	0	46	0.3417
								Truck Capacity (cu.yd)	Volume of Miles Hauled	Idling (min) / trip
		<i>Wharf Improvements</i>		<b>Vehicle Exhaust</b>			Fuel			
				Trucks material deliveries - offsite transit & idling exhaust	vehicle	offsite	dsl			35
				Trucks material deliveries - onsite transit exhaust	vehicle	onsite	dsl			0.5
				Trucks material deliveries - onsite idling exhaust	vehicle	onsite idlin	dsl			5
		<i>Ground Improvements</i>		Trucks material deliveries - offsite transit & idling exhaust	vehicle	offsite	dsl			35
				Trucks material deliveries - onsite transit exhaust	vehicle	onsite	dsl			0.5
				Trucks material deliveries - onsite idling exhaust	vehicle	onsite idlin	dsl			5
		<i>Transit Shed/Building Construction</i>		Trucks material deliveries - offsite transit & idling exhaust	vehicle	offsite	dsl			35
				Trucks material deliveries - onsite transit exhaust	vehicle	onsite	dsl			0.5
				Trucks material deliveries - onsite idling exhaust	vehicle	onsite idlin	dsl			5
		<i>Ground Improvements</i>		Trucks jet grouting haul away - offsite transit & idling exhaust	vehicle	offsite	dsl			35
				Trucks jet grouting haul away - onsite transit exhaust	vehicle	onsite	dsl			0.5
				Trucks jet grouting haul away - onsite idling exhaust	vehicle	onsite idlin	dsl			5
		<i>Transit Shed/Building Construction</i>		Trucks construction/demolition - offsite transit & idling exhaust	vehicle	offsite	dsl			35
				Trucks construction/demolition - onsite transit exhaust	vehicle	onsite	dsl			0.5
				Trucks construction/demolition - onsite idling exhaust	vehicle	onsite idlin	dsl			5
				Worker vehicles exhaust	worker vehicle	offsite	gas&dsl			30.0
				<b>Fugitive Emissions</b>						
				Trucks (all) paved road dust	fugitive	offsite	dsl	22		175
				Worker vehicles paved road dust	fugitive	offsite				30



**Table C.2 Construction Equipment Utilization**

			<b>Fugitive Emissions</b>					
			Trucks (all) paved road dust		33,600			
			Worker vehicles paved road dust		7,200			
			Fugitive construction dust - soil moving/handling					
				total volume of soil handled (cy)				
			Fugitive construction dust - soil loading/unloading	0				
			Fugitive construction dust - demolition					
			Fugitive construction dust - demolition debris loading					
			Architectural coatings					
			Asphalt off-gas					
PHASE II	BERTHS 58-60 (POLA)	Construction (Wharf, Ground Improvements, Transit Shed)	2019	<b>Construction Equipment</b>	fuel use (lb/yr)			
		2b						
		<i>Wharf Improvements</i>				Rubber tired dozers	28,187	
						Tractors/loaders/backhoes	8,103	
						Water Truck	18,901	
						Cranes	25,619	
						Dump Truck	75,606	
						Forklifts	8,333	
						Pile Driving	87,564	
						Graders	10,795	
		<i>Ground Improvements</i>				Excavators	9,828	
						Jet pump	13,135	
						Asphalt truck	1,050	
						Pavers	241	
						Water Truck	4,725	
						Striper	1,095	
						Rollers	480	
						Tractors/loaders/backhoes	1,351	
						Cranes	51,237	
		<i>Transit Shed/Building Construction</i>				Forklifts	11,110	
						Tractors/loaders/backhoes	8,103	
						Welding Equipment	1,167	
						<b>Vehicle Exhaust</b>	total trips/yr	VMT (mi/yr)
		<i>Wharf Improvements</i>				Trucks material deliveries - offsite transit & idling exhaust		50,400
						Trucks material deliveries - onsite transit exhaust		720
						Trucks material deliveries - onsite idling exhaust		
		<i>Ground Improvements</i>				Trucks material deliveries - offsite transit & idling exhaust		12,600
	Trucks material deliveries - onsite transit exhaust		180					
	Trucks material deliveries - onsite idling exhaust							
<i>Transit Shed/Building Construction</i>	Trucks material deliveries - offsite transit & idling exhaust		33,600					
	Trucks material deliveries - onsite transit exhaust		480					
	Trucks material deliveries - onsite idling exhaust							
<i>Ground Improvements</i>	Trucks jet grouting haul away - offsite transit & idling exhaust	1,856	64,960					
	Trucks jet grouting haul away - onsite transit exhaust		928					
	Trucks jet grouting haul away - onsite idling exhaust							
<i>Transit Shed/Building Construction</i>	Trucks construction/demolition - offsite transit & idling exhaust	60	2,100					
	Trucks construction/demolition - onsite transit exhaust		90					
	Trucks construction/demolition - onsite idling exhaust							
	Worker vehicles exhaust		10,800					
	<b>Fugitive Emissions</b>							
	Trucks (all) paved road dust		352,380					
	Worker vehicles paved road dust		10,800					

**Table C.2 Construction Equipment Utilization**

				Site Acreage							
				4.9							
				Building Footprint (sqft)		exterior					
				130,000		75%					
				Total Acres		1.63					
PHASE II	BERTHS 58-60 (POLA)	Construction (Pump Station)	2c	2019	<b>Construction Equipment</b>						
					Forklifts	construction equipment	onsite	dsl	120	149	0.201
					Tractors/loaders/backhoes	construction equipment	onsite	dsl	50	75	0.3685
					Welding Equipment	construction equipment	onsite	dsl	0	46	0.3417
									Truck Capacity (cu.yd)	Volume of Miles Hauled	Idling (min) / trip
					<b>Vehicle Exhaust</b>			Fuel			
					Trucks material deliveries - offsite transit & idling exhaust	vehicle	offsite	dsl			35
					Trucks material deliveries - onsite transit exhaust	vehicle	onsite	dsl			0.5
					Trucks material deliveries - onsite idling exhaust	vehicle	onsite	idlin dsl			5
					Worker vehicles exhaust	worker vehicle	offsite	gas&dsl			30.0
					<b>Fugitive Emissions</b>						
					Trucks (all) paved road dust	fugitive	offsite	dsl	22		35
					Worker vehicles paved road dust	fugitive	offsite				30
					Fugitive construction dust - soil moving/handling	fugitive	onsite				
					Fugitive construction dust - soil loading/unloading	fugitive	onsite				
									Building Footprint (sqft)	exterior	
					Architectural coatings	fugitive	onsite			0	75%
									Total Acres		
					Asphalt off-gas	fugitive	onsite			0	
PHASE II	BERTHS 58-60 (POLA)	Construction (Promenade)	2d	2020	<b>Construction Equipment</b>						
					Tractors/loaders/backhoes	construction equipment	onsite	dsl	50	75	0.3685
					Dump Truck	construction equipment	onsite	dsl	250	381	0.3819
					Forklifts	construction equipment	onsite	dsl	120	149	0.201
									Truck Capacity (cu.yd)	Volume of Miles Hauled	Idling (min) / trip
					<b>Vehicle Exhaust</b>			Fuel			
					Trucks material deliveries - offsite transit & idling exhaust	vehicle	offsite	dsl			35
					Trucks material deliveries - onsite transit exhaust	vehicle	onsite	dsl			0.5
					Trucks material deliveries - onsite idling exhaust	vehicle	onsite	idlin dsl			5
					Worker vehicles exhaust	worker vehicle	offsite	gas&dsl			30.0
					<b>Fugitive Emissions</b>						
					Trucks (all) paved road dust	fugitive	offsite	dsl	22		35
					Worker vehicles paved road dust	fugitive	offsite				30

**Table C.2 Construction Equipment Utilization**

						VMT (mi/day)					
						1.03		90			
				Fugitive construction dust - grading		3					
				Fugitive construction dust - soil moving/handling		8		200			
				Fugitive construction dust - soil loading/unloading		94		200			
				peak day paint rate							
				Architectural coatings		25%					
				Asphalt off-gas		0.41					
PHASE II	BERTHS 58-60 (POLA)	Construction (Pump Station)	2c	2019 Construction Equipment		hr/day	daily hp-hr	fuel use (lb/day)	total operating days		
				Forklifts	1	8		185	60		
				Tractors/loaders/backhoes	1	2		23	60		
				Welding Equipment	1	4		26	30		
				<b>Vehicle Exhaust</b>		Number Active <sup>[3]</sup>	trip/day/vehicle	VMT (mi/day)		total operating days	
				Trucks material deliveries - offsite transit & idling exhaust	4	8	280		60		
				Trucks material deliveries - onsite transit exhaust	4	8	4.0		60		
				Trucks material deliveries - onsite idling exhaust	4	8			60		
				Worker vehicles exhaust	4	2	60		60		
				<b>Fugitive Emissions</b>							
				Trucks (all) paved road dust	4	8	280		60		
				Worker vehicles paved road dust	4	2	60		60		
				Fugitive construction dust - soil moving/handling		8				60	
				Fugitive construction dust - soil loading/unloading		0				60	
				Architectural coatings		10%					
Asphalt off-gas		0.00									
PHASE II	BERTHS 58-60 (POLA)	Construction (Promenade)	2d	2020 Construction Equipment		hr/day	daily hp-hr	fuel use (lb/day)	total operating days		
				Tractors/loaders/backhoes	1	8		90	30		
				Dump Truck	1	4		210	30		
				Forklifts	1	4		93	30		
				<b>Vehicle Exhaust</b>		Number Active <sup>[3]</sup>	trip/day/vehicle	VMT (mi/day)		total operating days	
				Trucks material deliveries - offsite transit & idling exhaust	4	8	280		25		
				Trucks material deliveries - onsite transit exhaust	4	8	4.0		25		
				Trucks material deliveries - onsite idling exhaust	4	8			25		
				Worker vehicles exhaust	4	2	60		25		
				<b>Fugitive Emissions</b>							
				Trucks (all) paved road dust	4	8	280		25		
				Worker vehicles paved road dust	4	2	60		25		

**Table C.2 Construction Equipment Utilization**

					VMT (mi/yr)
				Fugitive construction dust - grading	3.3721875
				Fugitive construction dust - soil moving/handling	
					total volume of soil handled (cy)
				Fugitive construction dust - soil loading/unloading	18750
				Architectural coatings	
				Asphalt off-gas	
PHASE II	BERTHS 58-60 (POLA)	Construction (Pump Station)	2c	2019 <b>Construction Equipment</b>	fuel use (lb/yr)
				Forklifts	11,110
				Tractors/loaders/backhoes	1,351
				Welding Equipment	778
				<b>Vehicle Exhaust</b>	total trips/yr
				Trucks material deliveries - offsite transit & idling exhaust	VMT (mi/yr) 16,800
				Trucks material deliveries - onsite transit exhaust	240
				Trucks material deliveries - onsite idling exhaust	
				Worker vehicles exhaust	3,600
				<b>Fugitive Emissions</b>	
				Trucks (all) paved road dust	16,800
				Worker vehicles paved road dust	3,600
				Fugitive construction dust - soil moving/handling	
					total volume of soil handled (cy)
				Fugitive construction dust - soil loading/unloading	0
				Architectural coatings	
				Asphalt off-gas	
PHASE II	BERTHS 58-60 (POLA)	Construction (Promenade)	2d	2020 <b>Construction Equipment</b>	fuel use (lb/yr)
				Tractors/loaders/backhoes	2,700
				Dump Truck	6,297
				Forklifts	2,777
				<b>Vehicle Exhaust</b>	total trips/yr
				Trucks material deliveries - offsite transit & idling exhaust	VMT (mi/yr) 7,000
				Trucks material deliveries - onsite transit exhaust	100
				Trucks material deliveries - onsite idling exhaust	
				Worker vehicles exhaust	1,500
				<b>Fugitive Emissions</b>	
				Trucks (all) paved road dust	7,000
				Worker vehicles paved road dust	1,500

**Table C.2 Construction Equipment Utilization**

Phase	Location	Activity	ID	Year	Equipment/Source	Emission Type	Location	2014			2020				
								Truck Capacity (cu.yd)	Volume of Soil Hauled (mi/trip)	Idling Miles Traveled (min) / trip	Truck Capacity (cu.yd)	Volume of Soil Hauled (mi/trip)	Idling Miles Traveled (min) / trip		
PHASE II	BERTH 58-60 (Tenant)	Building Interior Construction; Temporary NOAA facility	2e	2020	Fugitive construction dust - soil moving/handling	fugitive	onsite								
					Fugitive construction dust - soil loading/unloading	fugitive	onsite								
					Architectural coatings	fugitive	onsite				0	75%			
					Asphalt off-gas	fugitive	onsite				0				
					<b>Construction Equipment</b>										
					Forklifts	construction equipment	onsite	dsl	120	149	0.201				
					Tractors/loaders/backhoes	construction equipment	onsite	dsl	50	75	0.3685				
					Welding Equipment	construction equipment	onsite	dsl	0	46	0.3417				
					<b>Vehicle Exhaust</b>										
					Trucks material deliveries - offsite transit & idling exhaust	vehicle	offsite	dsl						35	
					Trucks material deliveries - onsite transit exhaust	vehicle	onsite	dsl						0.5	
					Trucks material deliveries - onsite idling exhaust	vehicle	onsite idling	dsl							5
Worker vehicles exhaust	worker vehicle	offsite	gas&dsl						30.0						
<b>Fugitive Emissions</b>															
Trucks (all) paved road dust	fugitive	offsite	dsl	22					35						
Worker vehicles paved road dust	fugitive	offsite							30						
Fugitive construction dust - soil moving/handling	fugitive	onsite													
Fugitive construction dust - soil loading/unloading	fugitive	onsite													
Architectural coatings	fugitive	onsite					180,000	25%							
Asphalt off-gas	fugitive	onsite					0								
PHASE II	Westways	Remediation	2f	2014	<b>Construction Equipment</b>										
					Tractors/loaders/backhoes	construction equipment	onsite	dsl	50	75	0.3685				
					Concrete saws	construction equipment	onsite	dsl	50	81	0.4154				
					Excavators	construction equipment	onsite	dsl	120	157	0.3819				
					Tractors/loaders/backhoes	construction equipment	onsite	dsl	50	75	0.3685				
					Graders	construction equipment	onsite	dsl	120	162	0.4087				
					Rubber tired dozers	construction equipment	onsite	dsl	250	358	0.3953				
					Sweepers/scrubbers	construction equipment	onsite	dsl	50	88	0.4556				
					Tractors/loaders/backhoes	construction equipment	onsite	dsl	50	75	0.3685				
					Vibratory compactor	construction equipment	onsite	dsl	250	327	0.4154				
					Vibratory hammer	construction equipment	onsite	dsl	250	327	0.4154				
					Water Truck	construction equipment	onsite	dsl	250	381	0.3819				
<b>Vehicle Exhaust</b>															
Trucks hauling away contaminated soil - offsite transit & idling exhaust	vehicle	offsite	dsl	22	85,652	35									
Trucks hauling away contaminated soil - onsite transit exhaust	vehicle	onsite	dsl	22		0.5									
Trucks hauling away contaminated soil - onsite idling exhaust	vehicle	onsite idling	dsl	22						5					
Trucks hauling in clean soil - offsite transit & idling exhaust	vehicle	offsite	dsl	22	102,259	35									
Trucks hauling in clean soil - onsite transit exhaust	vehicle	onsite	dsl	22		0.5									



**Table C.2 Construction Equipment Utilization**

Phase	Location	Activity	Equipment	Quantity	Unit	Rate	Fuel Use	Operating Days		
PHASE II	BERTH 58-60 (Tenant)	Building Interior Construction; Temporary NOAA facility	2020 Construction Equipment	2e	Fugitive construction dust - soil moving/handling	8		30		
						cy/day				
					Fugitive construction dust - soil loading/unloading	0		30		
						peak day paint rate				
					Architectural coatings	25%				
						acres/day				
					Asphalt off-gas	0.00				
						hr/day	daily hp-hr	fuel use (lb/day)	total operating days	
					Forklifts	1	4	93	120	
					Tractors/loaders/backhoes	1	4	45	120	
					Welding Equipment	1	4	26	90	
						Number Active <sup>[3]</sup>	trip/day/v	vehicle VMT (mi/day)	total operating days	
					<b>Vehicle Exhaust</b>					
					Trucks material deliveries - offsite transit & idling exhaust	4	8	280	120	
					Trucks material deliveries - onsite transit exhaust	4	8	4.0	120	
Trucks material deliveries - onsite idling exhaust	4	8		120						
Worker vehicles exhaust	4	2	60	120						
<b>Fugitive Emissions</b>										
Trucks (all) paved road dust	4	8	280	120						
Worker vehicles paved road dust	4	2	60	120						
Fugitive construction dust - soil moving/handling		4		120						
	cy/day									
Fugitive construction dust - soil loading/unloading		0		120						
	peak day paint rate									
Architectural coatings		10%								
	acres/day									
Asphalt off-gas		0.00								
PHASE II	Westways	Remediation	2014 Construction Equipment	2f		hr/day	daily hp-hr	fuel use (lb/day)	total operating days	
					Tractors/loaders/backhoes	1	8	91	550	
					Concrete saws	1	4	50	550	
					Excavators	1	8	164	550	
					Tractors/loaders/backhoes	1	4	45	550	
					Graders	1	8	181	550	
					Rubber tired dozers	1	8	417	550	
					Sweepers/scrubbers	1	4	52	550	
					Tractors/loaders/backhoes	1	4	45	550	
					Vibratory compactor	1	8	439	550	
					Vibratory hammer	1	8	439	550	
					Water Truck	1	8	421	550	
						Number Active <sup>[3]</sup>	hr/day	one-way trips/day	VMT (mi/day)	total operating days
					<b>Vehicle Exhaust</b>					
					Trucks hauling away contaminated soil - offsite transit & idling	4	8	9	303	900
					Trucks hauling away contaminated soil - onsite transit exhaust	4	8	9	4.3	900
					Trucks hauling away contaminated soil - onsite idling exhaust	4	8			900
					Trucks hauling in clean soil - offsite transit & idling exhaust	5	8	10	362	900
					Trucks hauling in clean soil - onsite transit exhaust	5	8	10	5	900

**Table C.2 Construction Equipment Utilization**

Phase	Location	Activity	Code	Year	Equipment/Category	Unit	Value
PHASE II	BERTH 58-60 (Tenant)	Building Interior Construction; Temporary NOAA facility	2e	2020	Fugitive construction dust - soil moving/handling	total volume of soil handled (cy)	0
					Fugitive construction dust - soil loading/unloading		0
					Architectural coatings		
					Asphalt off-gas		
					<b>Construction Equipment</b>	fuel use (lb/yr)	
					Forklifts		11,110
					Tractors/loaders/backhoes		5,400
					Welding Equipment		2,333
					<b>Vehicle Exhaust</b>	total trips/yr	VMT (mi/yr)
					Trucks material deliveries - offsite transit & idling exhaust		33,600
					Trucks material deliveries - onsite transit exhaust		480
					Trucks material deliveries - onsite idling exhaust		
					Worker vehicles exhaust		7,200
					<b>Fugitive Emissions</b>		
Trucks (all) paved road dust		33,600					
Worker vehicles paved road dust		7,200					
Fugitive construction dust - soil moving/handling	total volume of soil handled (cy)						
Fugitive construction dust - soil loading/unloading		0					
Architectural coatings							
Asphalt off-gas							
PHASE II	Westways	Remediation	2f	2014	<b>Construction Equipment</b>	fuel use (lb/yr)	
					Tractors/loaders/backhoes		49,789
					Concrete saws		27,284
					Excavators		90,109
					Tractors/loaders/backhoes		24,894
					Graders		99,756
					Rubber tired dozers		229,519
					Sweepers/scrubbers		28,643
					Tractors/loaders/backhoes		24,894
					Vibratory compactor		241,374
					Vibratory hammer		241,374
					Water Truck		231,632
					<b>Vehicle Exhaust</b>	total trips/yr	VMT (mi/yr)
					Trucks hauling away contaminated soil - offsite transit & idling		272,529
Trucks hauling away contaminated soil - onsite transit exhaust		3,893					
Trucks hauling away contaminated soil - onsite idling exhaust							
Trucks hauling in clean soil - offsite transit & idling exhaust		325,370					
Trucks hauling in clean soil - onsite transit exhaust		4,648					

**Table C.2 Construction Equipment Utilization**

Phase	Location	Activity	Equipment	Type	Location	Fuel	Truck Capacity (cu.yd)	Volume of Soil Hauled	Miles Traveled (mi/trip)	Idling (min)/trip	Other
		Trucks hauling in clean soil - onsite idling exhaust	vehicle	onsite idling dsl	22						5
		Worker vehicles exhaust	worker vehicle	offsite gas&dsl							30.0
		<b>Fugitive Emissions</b>									
		Trucks (all) paved road dust	fugitive	offsite dsl	22						35
		Worker vehicles paved road dust	fugitive	offsite							30
		Fugitive construction dust - grading	fugitive	onsite							Site Acreage 12.82
		Fugitive construction dust - soil moving/handling	fugitive	onsite							
		Fugitive construction dust - soil loading/unloading	fugitive	onsite							
		Fugitive construction dust - demolition	fugitive	onsite							Building (sqft) 0
		Fugitive construction dust - demolition debris loading	fugitive	onsite							0
		Architectural coatings	fugitive	onsite							Building Footprint interior& exterior (sqft)
		Asphalt off-gas	fugitive	onsite							0 100%
											Total Acres 0
PHASE II	Westways	Construction (Berths 70-71 NOAA Building and Wave Tank)	2g	2023 Construction Equipment							
		Graders	construction equipment	onsite dsl	120	162					0.4087
		Excavators	construction equipment	onsite dsl	120	157					0.3819
		Asphalt truck	construction equipment	onsite dsl	250	381					0.3819
		Pavers	construction equipment	onsite dsl	50	89					0.4154
		Water Truck	construction equipment	onsite dsl	250	381					0.3819
		Striper	construction equipment	onsite dsl	250	381					0.4154
		Rollers	construction equipment	onsite dsl	50	84					0.3752
		Tractors/loaders/backhoes	construction equipment	onsite dsl	50	75					0.3685
		Cranes	construction equipment	onsite dsl	250	365					0.2881
		Pile Driving	construction equipment	onsite dsl	250	381					0.3819
		<b>Vehicle Exhaust</b>									
		Trucks material deliveries - offsite transit & idling exhaust	vehicle	offsite dsl							35
		Trucks material deliveries - onsite transit exhaust	vehicle	onsite dsl							0.5
		Trucks material deliveries - onsite idling exhaust	vehicle	onsite idling dsl							5
		Trucks construction/demolition - offsite transit & idling exhaust	vehicle	offsite dsl							35
		Trucks construction/demolition - onsite transit exhaust	vehicle	onsite dsl							0.5
		Trucks construction/demolition - onsite idling exhaust	vehicle	onsite idling dsl							5
		Worker vehicles exhaust	worker vehicle	offsite gas&dsl							30.0
		<b>Fugitive Emissions</b>									
		Trucks material deliveries paved road dust	fugitive	offsite dsl	22						70
		Worker vehicles paved road dust	fugitive	offsite							30
		Fugitive construction dust - grading	fugitive	onsite							Site Acreage 6.4
		Fugitive construction dust - demolition	fugitive	onsite							0
		Fugitive construction dust - demolition debris loading	fugitive	onsite							0



**Table C.2 Construction Equipment Utilization**

PHASE II	Westways	Construction (Berths 70-71 NOAA Building and Wave Tank)	2g	2023	Construction Equipment	fuel use (lb/yr)
					Trucks hauling in clean soil - onsite idling exhaust	
					Worker vehicles exhaust	33,000
					<b>Fugitive Emissions</b>	
					Trucks (all) paved road dust	597,899
					Worker vehicles paved road dust	33,000
						VMT (mi/yr)
					Fugitive construction dust - grading	8.81375
					Fugitive construction dust - soil moving/handling	
					Fugitive construction dust - soil loading/unloading	total volume of soil handled (cy) 170,828
					Fugitive construction dust - demolition	
					Fugitive construction dust - demolition debris loading	
					Architectural coatings	
					Asphalt off-gas	
						fuel use (lb/yr)
					Graders	54,656
					Excavators	66,349
					Asphalt truck	3,152
					Pavers	725
					Water Truck	28,365
					Striper	878
					Rollers	721
					Tractors/loaders/backhoes	36,551
					Cranes	102,400
					Pile Driving	39,514
					<b>Vehicle Exhaust</b>	VMT (mi/yr)
					Trucks material deliveries - offsite transit & idling exhaust	113,400
					Trucks material deliveries - onsite transit exhaust	1,620
					Trucks material deliveries - onsite idling exhaust	
					Trucks construction/demolition - offsite transit & idling exhaust	60 260,750
					Trucks construction/demolition - onsite transit exhaust	203
					Trucks construction/demolition - onsite idling exhaust	
					Worker vehicles exhaust	24,300
					<b>Fugitive Emissions</b>	
					Trucks material deliveries paved road dust	374,150
					Worker vehicles paved road dust	24,300
						VMT (mi/yr)
					Fugitive construction dust - grading	4.4
					Fugitive construction dust - demolition	
					Fugitive construction dust - demolition debris loading	

**Table C.2 Construction Equipment Utilization**

				Building Footprint (sqft)	interior& exterior
Architectural coatings	fugitive	onsite		331,000	100%
Asphalt off-gas	fugitive	onsite		Total Acres	
					8.03

[1] Source of equipment categories: POLA staff, URBEMIS defaults, and equipment used in the San Pedro Waterfront analysis.

[2] CARB Air Quality, Emissions Inventory, Mobile Source Emission Inventory -- Categories. [http://www.arb.ca.gov/msei/categories.htm#inuse\\_or\\_category](http://www.arb.ca.gov/msei/categories.htm#inuse_or_category). Last viewed October 2011

[3] CalEEMod, Appendix D, Table 3.3

[4] URBEMIS defaults and equipment specifications used in the San Pedro Waterfront analysis.

**Table C.2 Construction Equipment Utilization**

	peak day paint rate
Architectural coatings	25%
Asphalt off-gas	acres/day 2.01

[1] Source of equipment categories: POLA staff, URBEMIS defaults, and equipment used in the San Pedro Waterfront analysis.

[2] CARB Air Quality, Emissions Inventory, Mobile Source Emission Inventory -- Categories. [http://www.arb.ca.gov/msei/categories.htm#inuse\\_or\\_category](http://www.arb.ca.gov/msei/categories.htm#inuse_or_category). Last viewed October 2011

[3] CalEEMod, Appendix D, Table 3.3

[4] URBEMIS defaults and equipment specifications used in the San Pedro Waterfront analysis.

**Table C.2 Construction Equipment Utilization**

Architectural coatings

Asphalt off-gas

[1] Source of equipment categories: POLA staff, URBEMIS defaults, and equipment used in the San Pedro Waterfront analysis.

[2] CARB Air Quality, Emissions Inventory, Mobile Source Emission Inventory -- Categories. [http://www.arb.ca.gov/msei/categories.htm#inuse\\_or\\_category](http://www.arb.ca.gov/msei/categories.htm#inuse_or_category). Last viewed October 2011

[3] CalEEMod, Appendix D, Table 3.3

[4] URBEMIS defaults and equipment specifications used in the San Pedro Waterfront analysis.



**Table C.3 Operational Equipment Utilization**

er	Element	ID	Year	Equipment/Process <sup>[1]</sup>	Source Type	Emissions		CARB 2011 Assumed Minimum Power (hp) <sup>[2]</sup>		CARB 2011 Assumed Maximum Power (hp) <sup>[2]</sup> CARB 2011 Key	CARB 2007 Assumed Maximum Power (hp)
						Location	Fuel	Power (hp) <sup>[2]</sup>	Power (hp) <sup>[2]</sup>		
Baseline	Berth 56	CDFG Buiding	5	2011							
				<b>Marine Sources</b>	marine						
				<b>Land-Side Sources</b>							
				Forklifts	land	onsite	propane/nat	50	120	2011_Forklifts_120hp	120
				Cranes	land	onsite	dsl	120	120	2011_Cranes_120hp	120
				Generator Sets	land	onsite	dsl	120	175	2011_Other General Industrial Equipment_175hp	120
				<b>Vehicle Exhaust</b>							
				Trucks material deliveries - offsite transit & idling exhaust	vehicle	offsite	dsl			T6 instate hea 2011_T6 instate heavy_dsl	
				Trucks material deliveries - onsite transit exhaust	vehicle	onsite	dsl			T6 instate hea 2011_T6 instate heavy_dsl_onsite transit	
				Trucks material deliveries - onsite idling exhaust	vehicle	onsite idling	dsl			T6 instate hea 2011_HHDT_dsl_onsite idling	
				Worker/visitor vehicles exhaust	vehicle	offsite	gas&dsl			LDA/LDT1 2011_LDA/LDT1_gas&dsl	
				<b>Fugitive Sources</b>							
				Trucks (all) paved road dust	fugitive	offsite	dsl		22	T6 instate heavy LDA	
				Worker/visitor vehicles paved road dust	fugitive	offsite					
				Landscape Equipment							
				Architectural coatings	fugitive	onsite					
				<b>GHG-only Sources</b>							
				Energy Use							
					utility - Electricity	offsite					
					utility - Natural Gas	onsite					
				Water Use	utility	offsite					
				Wastewater	utility	offsite					



**Table C.3 Operational Equipment Utilization**

					Annual				
er	Element	ID	Year	Equipment/Process <sup>[1]</sup>	Activity				
Baseline	Berth 56	CDFG Buiding	5	2011	fuel use daily hp-hr	total operating days			fuel use (lb/yr)
<b>Marine Sources</b>									
<b>Land-Side Sources</b>					fuel use (lb/day)	(total days)/unit	(day/yr)/unit	fuel use (lb/yr)	
Forklifts					12	730	365	4,431	
Cranes					19	730	365	6,837	
Generator Sets					37	730	365	13,648	
<b>Vehicle Exhaust</b>					VMT (mi/day)/u nit	total trips/unit	total trips/yr/unit	VMT (mi/yr)/unit	
Trucks material deliveries - offsite transit & idling exhaust					70	365	365	25,550	
Trucks material deliveries - onsite transit exhaust					1	365	365	365	
Trucks material deliveries - onsite idling exhaust						365	365		
Worker/visitor vehicles exhaust					60	365	365	21,900	
<b>Fugitive Sources</b>									
Trucks (all) paved road dust					70	365	365	25,550	
Worker/visitor vehicles paved road dust					60	365	365	21,900	
Landscape Equipment									
Architectural coatings					reapplication rate 10%				
<b>GHG-only Sources</b>									
Energy Use					Energy Use (kW-hr/yr or kBtu/yr) 7,392				
					624				
Water Use					Water Use (gal/yr) 97,090				
Wastewater					gal/yr 87,600				

**Table C.3 Operational Equipment Utilization**

		Solid Waste	utility	offsite								
Baseline	Berth 57	Transit Shed Warehouse	6	2011								
					<b>Marine Sources</b>							
					<b>Land-Side Sources</b>							
					Forklifts	land	onsite	propane/nat	50	120	2011_Forklifts_120hp	120
					Cranes	land	onsite	dsl	120	120	2011_Cranes_120hp	120
					Generator Sets	land	onsite	dsl	120	175	2011_Other General Industrial Equipment_175	120
					<b>Vehicle Exhaust</b>							
					Trucks material deliveries - offsite transit & idling exhaust	vehicle	offsite	Fuel dsl			Truck Capacity (cu.yd)	
					Trucks material deliveries - onsite transit exhaust	vehicle	onsite	dsl			T6 instate hea 2011_T6 instate heavy_dsl	
					Trucks material deliveries - onsite idling exhaust	vehicle	onsite idling	dsl			T6 instate hea 2011_T6 instate heavy_dsl_onsite transit	
					Trucks material deliveries - onsite idling exhaust	vehicle	onsite idling	dsl			T6 instate hea 2011_HHDT_dsl_onsite idling	
					Worker/visitor vehicles exhaust	vehicle	offsite	gas&dsl			LDA/LDT1	2011_LDA/LDT1_gas&dsl
					<b>Fugitive Sources</b>							
					Trucks (all) paved road dust	fugitive	offsite	dsl		22	T6 instate heavy	
					Worker/visitor vehicles paved road dust	fugitive	offsite				LDA	
					Landscape Equipment							
					Architectural coatings	fugitive	onsite					
					<b>GHG-only Sources</b>							
					Energy Use		utility - Electricity				offsite	
							utility - Natural Gas				onsite	
					Water Use		utility				offsite	
					Wastewater		utility				offsite	
					Solid Waste		utility				offsite	

**Table C.3 Operational Equipment Utilization**

				Solid Waste		ton/day		
						0.00		
Baseline	Berth 57	Transit Shed Warehouse	6	2011				
<b>Marine Sources</b>								
<b>Land-Side Sources</b>								
							(hr/day)/unit	
Forklifts					2011_Forklifts_120hp	114	0.201	2
Cranes					2016_Cranes_120hp	139	0.228	0
Generator Sets					2011_Generator Sets_120hp	175	0.3417	0
<b>Vehicle Exhaust</b>								
Trucks material deliveries - offsite transit & idling exhaust					Miles Traveled (mi/trip)	35		16
Trucks material deliveries - onsite transit exhaust					Idling (min) / trip	0.5		16
Trucks material deliveries - onsite idling exhaust					Number Active (ADT) <sup>[3]</sup>	5		16
Worker/visitor vehicles exhaust						30.0		23
							trip/day/vehicle	
<b>Fugitive Sources</b>								
Trucks (all) paved road dust						35		16
Worker/visitor vehicles paved road dust						30		23
Landscape Equipment					15			
					Building Footage (sqft)	46,500		
Architectural coatings					exterior&interior	0%		peak day paint rate
							25%	
<b>GHG-only Sources</b>								
Energy Use					Building Footage (sqft)	46,500		Energy Use (kW-hr/day or kBtu/day)
							171	
							3.8	
Water Use							Electricity Use for Supply, Treatment and Distribution (kw-hr/MMGal)	
							13,021	
							Water Use (gal/day)	
							1,032	
Wastewater					Building Footage (sqft)	46,500	Wastewater Generation Rate (gpd/1000 sqft)	gal/day
							20.00	930.00
Solid Waste							ton/day	
							0.23	





**Table C.3 Operational Equipment Utilization**

Baseline	Berth	Company	ID	Year	Marine Sources	Percent of Work in SCAB	Power (hp) <sup>[3]</sup>	Power (kW)	Load Factor <sup>[2]</sup>	SCAB/State:	
										Working hr/day	Idling hr/day
	Berth 57	San Pedro Bait Company	6b	2011							
					Fishing vessel 2011 main engine transit & work	50%	400		0.27		4
					Fishing vessel 2011 main engine berth idling		400		0.27		0.17
<hr/>											
	Berth 60	Water Taxi	7	2011							
					Water taxi main engine transit & work		690		0.38		4
					Water taxi main engine berth idling		690		0.38		0.17
					Water taxi auxiliary engine transit & work		68		0.32		4
					Water taxi auxiliary engine berth idling		68		0.32		0.17



**Table C.3 Operational Equipment Utilization**

Baseline	Berth	Company	Area	Year	Average Harbor: Working hr/day	power requirement (hp-hr/day/vessel); nonworking electrical requirement (kw-hr/day/vessel)	working days/year	SCAB/State power requirement (hp-hr/yr/vessel); nonworking electrical requirement (kw-hr/yr/vessel)	Harbor power requirement (hp-hr/yr/vessel); nonworking electrical requirement (kw-hr/yr/vessel)
<b>Marine Sources</b>									
			Fishing vessel 2011 main engine transit & work		0.8	432	365	78,840	31,536
			Fishing vessel 2011 main engine berth idling			18	365	6,570	6,570
					Peak Harbor: Working hr/day				
Baseline	Berth 60	Water Taxi		2011					
<b>Marine Sources</b>									
			Water taxi main engine transit & work		4	2,099	365	766,011	766,011
			Water taxi main engine berth idling			87	365	31,917	31,917
			Water taxi auxiliary engine transit & work		4	88	365	31,940	31,940
			Water taxi auxiliary engine berth idling			4	365	1,331	1,331

**Table C.3 Operational Equipment Utilization**

Water taxi electrical use at berth	marine	offsite	diesel	1	5	5
<b>Land-Side Sources</b>						
Forklifts	land	onsite	propane/nat	50	120 2011_Forklifts_120hp	120
Cranes	land	onsite	dsl	120	120 2011_Cranes_120hp	120
Generator Sets	land	onsite	dsl	120	175 2011_Other General Industrial Equipment_175	120
<b>Vehicle Exhaust</b>						
Trucks material deliveries - offsite transit & idling exhaust	vehicle	offsite	Fuel dsl		Truck Capacity (cu.yd)	T6 instate hea 2011_T6 instate heavy_dsl
Trucks material deliveries - onsite transit exhaust	vehicle	onsite	dsl			T6 instate hea 2011_T6 instate heavy_dsl_onsite transit
Trucks material deliveries - onsite idling exhaust	vehicle	onsite idling	dsl			T6 instate hea 2011_HHDT_dsl_onsite idling
Worker/visitor vehicles exhaust	vehicle	offsite	gas&dsl			LDA/LDT1 2011_LDA/LDT1_gas&dsl
<b>Fugitive Sources</b>						
Trucks (all) paved road dust	fugitive	offsite	dsl	22	T6 instate heavy	
Worker/visitor vehicles paved road dust	fugitive	offsite			LDA	
Landscape Equipment						
Architectural coatings	fugitive	onsite				
<b>GHG-only Sources</b>						
Energy Use	utility - Electricity	offsite				
	utility - Natural Gas	onsite				
Water Use	utility	offsite				
Wastewater	utility	offsite				
Solid Waste	utility	offsite				

**Table C.3 Operational Equipment Utilization**

Water taxi electrical use at berth		51	0.32		
<b>Land-Side Sources</b>					
				(hr/day)/unit	
Forklifts	2011_Forklifts_120hp	114	0.201	0	2
Cranes	2016_Cranes_120hp	139	0.228	0	2
Generator Sets	2011_Generator Sets_120hp	175	0.3417	0	2
<b>Vehicle Exhaust</b>					
		Miles Traveled (mi/trip)	Idling (min) / trip	Number Active/day	trip/day/vehicle
Trucks material deliveries - offsite transit & idling exhaust		35		2	
Trucks material deliveries - onsite transit exhaust		0.5		2	
Trucks material deliveries - onsite idling exhaust			5	2	
Worker/visitor vehicles exhaust		30.0		2.5	2
<b>Fugitive Sources</b>					
Trucks (all) paved road dust		35		2.0	
Worker/visitor vehicles paved road dust		30		2.5	2
Landscape Equipment		15			
		Building Footage (sqft)	exterior&interior	peak day paint rate	
Architectural coatings		1,232	0%	25%	
<b>GHG-only Sources</b>					
		Building Footage (sqft)		Energy Use (kW-hr/day or kBtu/day)	
Energy Use		1,232		16	
		1,232		1.3	
				Electricity Use for Supply, Treatment and Distribution (kw-hr/MMGal)	Water Use (gal/day)
Water Use				13,021	109
				Wastewater Generation Rate (gpd/1000 sft)	gal/day
Wastewater		1,232	80.00		98.56
					ton/day
Solid Waste					0.01

**Table C.3 Operational Equipment Utilization**

Water taxi electrical use at berth	0	0	365	0	0
	Peak Harbor: Working hr/day				
<b>Land-Side Sources</b>					
	fuel use (lb/day)	(total days)/unit	(day/yr)/unit		fuel use (lb/yr)
Forklifts	0	730	365		0
Cranes	0	730	365		0
Generator Sets	0	730	365		0
	VMT (mi/day)/u				VMT (mi/yr)/unit
<b>Vehicle Exhaust</b>	nit	total trips/unit	total trips/yr/unit		
Trucks material deliveries - offsite transit & idling exhaust	70	365	365		25,550
Trucks material deliveries - onsite transit exhaust	1	365	365		365
Trucks material deliveries - onsite idling exhaust		365	365		
Worker/visitor vehicles exhaust	60	365			21,900
<b>Fugitive Sources</b>					
Trucks (all) paved road dust	70	365			25,550
Worker/visitor vehicles paved road dust	60	365			21,900
Landscape Equipment					
Architectural coatings		reapplication rate	10%		
<b>GHG-only Sources</b>					
		Energy Use (kW-hr/yr or kBtu/yr)			
Energy Use		5,692			
		481			
		Water Use (gal/yr)			
Water Use		39,785			
		gal/yr			
Wastewater		35,974			
		ton/yr			
Solid Waste		5			



**Table C.3 Operational Equipment Utilization**

Baseline	Berth 260	SMCI Facility	8	2011					SCAB/State: working hr/day	Idling hr/day
					Power (hp) <sup>[3]</sup>	Power (kW)	Load Factor <sup>[2]</sup>			
<b>Marine Sources</b>										
				SCMI 2011 large vessel main engine transit		250	0.38		6	
				SCMI 2011 large vessel main engine berth idling		250	0.38			0.17
				SCMI 2011 large vessel auxiliary engine transit		55	0.32		6	
				SCMI 2011 large vessel auxiliary engine berth idling		55	0.32			0.17
				SCMI 2011 large vessel electrical use at berth		55	41	0.32		18
				SCMI 2011 small vessel main engine transit		75	0.38		4	
				SCMI 2011 small vessel main engine berth idling		75	0.38			0.08
				SCMI 2011 small vessel auxiliary engine transit		55	0.32		4	
				SCMI 2011 small vessel auxiliary engine berth idling		55	0.32			0.08
				SCMI 2011 small vessel electrical use at berth		55	41	0.32		

**Table C.3 Operational Equipment Utilization**

Baseline	Berth 260	SMCI Facility	8	2011	Average Harbor: working hr/day	power requirement (hp-hr/day/vessel); nonworking electrical requirement (kw-hr/day/vessel)	working days/year	SCAB/State power requirement (hp-hr/yr/vessel); nonworking electrical requirement (kw-hr/yr/vessel)	Harbor power requirement (hp-hr/yr/vessel); nonworking electrical requirement (kw-hr/yr/vessel)		
<b>Marine Sources</b>											
						SCMI 2011 large vessel main engine transit	2.1	1,140	208	237,120	82,992
						SCMI 2011 large vessel main engine berth idling		32	208	6,587	6,587
						SCMI 2011 large vessel auxiliary engine transit	2.1	106	208	7,688	7,688
						SCMI 2011 large vessel auxiliary engine berth idling		3	208	610	610
						SCMI 2011 large vessel electrical use at berth		236	208	49,157	49,157
						SCMI 2011 small vessel main engine transit		228	156	12,449	12,449
						SCMI 2011 small vessel main engine berth idling		5	156	741	741
						SCMI 2011 small vessel auxiliary engine transit		70	156	3,844	3,844
						SCMI 2011 small vessel auxiliary engine berth idling		1	156	229	229
						SCMI 2011 small vessel electrical use at berth	0	-	156	0	0

**Table C.3 Operational Equipment Utilization**

**Land-Side Sources**

Forklifts	land	onsite	propane/nat	50	120 2011_Forklifts_120hp	120
Cranes	land	onsite	dsl	120	120 2011_Cranes_120hp	120
Generator Sets	land	onsite	dsl	120	175 2011_Other General Industrial Equipment_175	120

**Vehicle Exhaust**

Trucks material deliveries - offsite transit & idling exhaust	vehicle	offsite	dsl	Fuel Capacity (cu.yd)	T6 instate hea 2011_T6 instate heavy_dsl
Trucks material deliveries - onsite transit exhaust	vehicle	onsite	dsl		T6 instate hea 2011_T6 instate heavy_dsl_onsite transit
Trucks material deliveries - onsite idling exhaust	vehicle	onsite idling	dsl		T6 instate hea 2011_HHDT_dsl_onsite idling
Worker/visitor vehicles exhaust	vehicle	offsite	gas&dsl		LDA/LDT1 2011_LDA/LDT1_gas&dsl

**Fugitive Sources**

Trucks (all) paved road dust	fugitive	offsite	dsl	22 T6 instate heavy
Worker/visitor vehicles paved road dust	fugitive	offsite		LDA

**Landscape Equipment**

Architectural coatings	fugitive	onsite		
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**GHG-only Sources**

Energy Use	utility - Electricity	offsite		
	utility - Natural Gas	onsite		

Water Use	utility	offsite		
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Wastewater	utility	offsite		
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Solid Waste	utility	offsite		
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**Table C.3 Operational Equipment Utilization**

**Land-Side Sources**

				(hr/day)/unit	
Forklifts	2011_Forklifts_120hp	114	0.201	1	2
Cranes	2016_Cranes_120hp	139	0.228	1	2
Generator Sets	2011_Generator Sets_120hp	175	0.3417	1	2

**Vehicle Exhaust**

	Miles Traveled (mi/trip)	Idling (min) / trip	Number Active/day	trip/day/vehicle
Trucks material deliveries - offsite transit & idling exhaust	35		2	
Trucks material deliveries - onsite transit exhaust	0.5		2	
Trucks material deliveries - onsite idling exhaust		5	2	
Worker/visitor vehicles exhaust	30.0		5	2

**Fugitive Sources**

Trucks (all) paved road dust	35		2.0	0
Worker/visitor vehicles paved road dust	30		5	2

**Landscape Equipment**

	Building Footage (sqft)	exterior&interior	peak day paint rate
Architectural coatings	56,500	0%	25%

**GHG-only Sources**

	Building Footage (sqft)	Energy Use (kW-hr/day or kBtu/day)
Energy Use	56,500	378

	56,500	23
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	Electricity Use for Supply, Treatment and Distribution (kw-hr/MMGal)	Water Use (gal/day)
Water Use	13,021	3,996

	Building Footage (sqft)	Wastewater Generation Rate (gpd/1000 sqft)	gal/day
Wastewater	56,500	170.00	3600.00

Solid Waste			ton/day 0.11
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**Table C.3 Operational Equipment Utilization**

	Peak Harbor: working hr/day				
<b>Land-Side Sources</b>		fuel use (lb/day)	(total days)/unit	(day/yr)/unit	fuel use (lb/yr)
Forklifts		12	730	365	4,431
Cranes		19	730	365	6,837
Generator Sets		37	730	365	13,648
		VMT (mi/day)/u	nit	total trips/unit	total trips/yr/unit
<b>Vehicle Exhaust</b>					VMT (mi/yr)/unit
Trucks material deliveries - offsite transit & idling exhaust			35	365	365
Trucks material deliveries - onsite transit exhaust			1	365	365
Trucks material deliveries - onsite idling exhaust				365	365
Worker/visitor vehicles exhaust		60		365	21,900
<b>Fugitive Sources</b>					
Trucks (all) paved road dust		35		365	12,775
Worker/visitor vehicles paved road dust		60		365	21,900
Landscape Equipment					
Architectural coatings				reapplication rate 10%	
<b>GHG-only Sources</b>					
Energy Use				Energy Use (kW-hr/yr or kBtu/yr)	
				138,030	
				8,535	
Water Use				Water Use (gal/yr)	
				1,458,540	
Wastewater				gal/yr	
				3,505,825	
Solid Waste				ton/yr	
				41	

**Table C.3 Operational Equipment Utilization**

Proposed Project	Berth	Learning Center; SCMI Research Facility	9	2016					Number of Engines/Vessel		Number Active/Peak Day		Number Active/Average Day		Percent of Work in Harbor	
<b>Marine Sources</b>																
					SCMI large vessel main engine transit & work	marine	offsite	diesel	2	5			2	35%		
					SCMI large vessel main engine berth idling	marine	onsite	diesel	2	5			2			
					SCMI large vessel auxiliary engine transit & work	marine	offsite	diesel	1	5			2	35%		
					SCMI large vessel auxiliary engine berth idling	marine	onsite	diesel	1	5			2			
					SCMI large vessel electrical use at berth	marine	offsite	diesel	1	5			2			
					SCMI small vessel main engine transit & work	marine	offsite	diesel	2	7			2	35%		
					SCMI small vessel main engine berth idling	marine	onsite	diesel	2	7			2			
					SCMI small vessel auxiliary engine transit & work	marine	offsite	diesel	1	7			2	35%		
					SCMI small vessel auxiliary engine berth idling	marine	onsite	diesel	1	7			2			
					SCMI small vessel electrical use at berth	marine	offsite	diesel	1	7			2			

**Table C.3 Operational Equipment Utilization**

Proposed Project	Berth	Learning Center; SCMI Research Facility	9	2016	Marine Sources	Power	Power	Load	SCAB/State:	Idling
						(hp) <sup>[3]</sup>	(kW)	Factor <sup>[2]</sup>	working hr/day	hr/day
					SCMI large vessel main engine transit & work	250		0.38	6	
					SCMI large vessel main engine berth idling	250		0.38		0.17
					SCMI large vessel auxiliary engine transit & work	55		0.32	6	
					SCMI large vessel auxiliary engine berth idling	55		0.32		0.17
					SCMI large vessel electrical use at berth	55	41	0.32		18
					SCMI small vessel main engine transit & work	75		0.38	4	
					SCMI small vessel main engine berth idling	75		0.38		0.08
					SCMI small vessel auxiliary engine transit & work	55		0.32	4	
					SCMI small vessel auxiliary engine berth idling	55		0.32		0.08
					SCMI small vessel electrical use at berth	55	41	0.32		0

**Table C.3 Operational Equipment Utilization**

Proposed Project	Learning Center; SCMI Research Facility	9	2016	Average Harbor:	power requirement (hp-hr/day/vessel); nonworking electrical requirement (kw-hr/day/vessel)	working days/year	SCAB/State power requirement (hp-hr/yr/vessel); nonworking electrical requirement (kw-hr/yr/vessel)	Harbor power requirement (hp-hr/yr/vessel); nonworking electrical requirement (kw-hr/yr/vessel)
				working hr/day	l)	days/year	hr/yr/vessel)	hr/yr/vessel)
<b>Marine Sources</b>								
				2.1	1,140	208	237,120	82,992
					32	208	6,587	6,587
				2.1	106	208	7,688	7,688
					3	208	610	610
					236	208	49,157	49,157
				1.4	228	156	12,449	12,449
					5	156	741	741
				1.4	70	156	3,844	3,844
					1	156	229	229
					-	156	0	0

**Table C.3 Operational Equipment Utilization**

**Land-Side Sources**

Forklifts	land	onsite	propane/nat	50	120 2016_Forklifts_120hp	120
Cranes	land	onsite	dsl	120	120 2016_Cranes_120hp	120
Generator Sets	land	onsite	dsl	120	175 2016_Other General Industrial Equipment_175	120

**Vehicle Exhaust**

Trucks material deliveries - offsite transit & idling exhaust	vehicle	offsite	Fuel dsl	Truck Capacity (cu.yd)	T6 instate hea 2016_T6 instate heavy_dsl
Trucks material deliveries - onsite transit exhaust	vehicle	onsite	dsl		T6 instate hea 2016_T6 instate heavy_dsl_onsite transit
Trucks material deliveries - onsite idling exhaust	vehicle	onsite idling	dsl		T6 instate hea 2016_HHDT_dsl_onsite idling
Worker/visitor vehicles exhaust	vehicle	offsite	gas&dsl	LDA/LDT1	2016_LDA/LDT1_gas&dsl

**Fugitive Sources**

Trucks (all) paved road dust	fugitive	offsite	dsl	22 T6 instate heavy
Worker/visitor vehicles paved road dust	fugitive	offsite		LDA

**Landscape Equipment**

Architectural coatings	fugitive	onsite		
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**GHG-only Sources**

Energy Use	utility - Electricity	offsite		
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	utility - Natural Gas	onsite		
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Water Use	utility	offsite		
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Wastewater	utility	offsite		
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Solid Waste	utility	offsite		
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**Table C.3 Operational Equipment Utilization**

**Land-Side Sources**

				(hr/day)	
Forklifts	2016_Forklifts_120hp	114	0.201	1	2
Cranes	2016_Cranes_120hp	139	0.228	1	2
Generator Sets	2016_Generator Sets_120hp	175	0.3417	1	2

**Vehicle Exhaust**

	Miles Traveled (mi/trip)	Idling (min) / trip	Number Active <sup>[3]</sup> ADTs	trip/day/vehicle
Trucks material deliveries - offsite transit & idling exhaust	35		163	
Trucks material deliveries - onsite transit exhaust	0.5		163	
Trucks material deliveries - onsite idling exhaust			5	163
Worker/visitor vehicles exhaust		30.0		1,440
Trucks (all) paved road dust		35		163
Worker/visitor vehicles paved road dust		30		1,440

**Fugitive Sources**

Trucks (all) paved road dust  
 Worker/visitor vehicles paved road dust

**Landscape Equipment**

	Building Footage (sqft)	15 exterior&interior	peak day paint rate
Architectural coatings	53,456	100%	25%

**GHG-only Sources**

	Building Footage (sqft)	Energy Use (kW-hr/day or kBtu/day)
Energy Use	53,456	1,980
	53,456	2,403

	Electricity Use for Supply, Treatment and Distribution (kw-hr/MMGal)	Water Use (gal/day)
Water Use	13,021	4,166

	Building Footage (sqft)	Wastewater Generation Rate (gpd/1000 sqft)	gal/day
Wastewater	53,456	varies by space use	8,961

	ton/day
Solid Waste	0.42

**Table C.3 Operational Equipment Utilization**

	Peak Harbor: working hr/day				
<b>Land-Side Sources</b>		fuel use (lb/day)	(total days)/unit	(day/yr)/unit	fuel use (lb/yr)
Forklifts		12	730	365	4,431
Cranes		19	730	365	6,831
Generator Sets		37	730	365	13,648
		VMT (mi/day)/unit			VMT (mi/yr)/unit
<b>Vehicle Exhaust</b>		nit	total trips/unit	total trips/yr/unit	
Trucks material deliveries - offsite transit & idling exhaust		35	365	365	12,775
Trucks material deliveries - onsite transit exhaust		1	365	365	183
Trucks material deliveries - onsite idling exhaust			365	365	
Worker/visitor vehicles exhaust		30		365	10,950
<b>Fugitive Sources</b>					
Trucks (all) paved road dust		35		365	12,775
Worker/visitor vehicles paved road dust		30		365	10,950
Landscape Equipment					
				reapplication rate	
Architectural coatings				10%	
<b>GHG-only Sources</b>					
				Energy Use (kW-hr/yr or kBtu/yr)	
Energy Use				722,700	
					877,095
				Water Use (gal/yr)	
Water Use				1,520,590	
				gal/yr	
Wastewater				3,270,765	
				ton/yr	
Solid Waste				152	



**Table C.3 Operational Equipment Utilization**

Proposed Project	Berth	NOAA Temporary Berths	10a	2021					Number of Engines/Vessel		Number Active/Peak Day		Percent of Work in Harbor	
					Marine Sources						Number Active/Average Day			
					NOAA vessel main engine transit	marine	offsite	diesel	2	3	2	0%		
					NOAA vessel main engine berth idling	marine	onsite	diesel	2	3	2			
					NOAA vessel auxiliary engine transit	marine	offsite	diesel	2	3	2	0%		
					NOAA vessel auxiliary engine berth idling	marine	onsite	diesel	2	3	2			
					NOAA vessel electrical use at berth	marine	offsite	diesel	2	3	2			
<hr/>														
Proposed Project	Berth	SCMI Research Facility, Marine Business Park, Water Taxi, Café, Public Plaza	7b	2016					Number of Engines/Vessel		Number Active/Peak Day		Percent of Work in Harbor	
					Marine Sources						Number Active/Average Day			
					Water taxi main engine transit & work	marine	offsite	diesel	2	5	5	100%		

**Table C.3 Operational Equipment Utilization**

Proposed Project	Berth	NOAA Temporary Berths	10a	2021	Marine Sources	Power (hp) <sup>[3]</sup>	Power (kW)	Load Factor <sup>[2]</sup>	SCAB/State:	
									working hr/day	Idling hr/day
					NOAA vessel main engine transit	1,772		0.38	2.4	
					NOAA vessel main engine berth idling	1,772		0.38		0.17
					NOAA vessel auxiliary engine transit	1,210		0.32	2.4	
					NOAA vessel auxiliary engine berth idling	1,210		0.32		0.17
					NOAA vessel electrical use at berth	1,210	903	0.32		
<hr/>										
Proposed Project	Berth	SCMI Research Facility, Marine Business Park, Water Taxi, Café, Public Plaza	7b	2016	Marine Sources	Power (hp) <sup>[3]</sup>	Power (kW)	Load Factor <sup>[2]</sup>	SCAB/State:	
									working hr/day	Idling hr/day
					Water taxi main engine transit & work	690		0.38	4	

**Table C.3 Operational Equipment Utilization**

Proposed Project	Berth	NOAA Temporary Berths	10a	2021	Average Harbor: working hr/day	Peak Day	working days/year	SCAB/State power requirement (hp-hr/yr/vessel); nonworking electrical requirement (kw-hr/yr/vessel)	Harbor power requirement (hp-hr/yr/vessel); nonworking electrical requirement (kw-hr/yr/vessel)	
						power requirement (hp-hr/day/vesse l); nonworking electrical requirement (kw-hr/day/vesse l)				
<b>Marine Sources</b>										
						0.4	3,232	6	19,663	3,277
							224	6	1,366	1,366
						0.4	1,859	6	11,310	1,885
							129	6	785	785
						24	13,870	60	832,205	832,205
					Peak Harbor: working hr/day					
<hr/>										
Proposed Project	Berth 58-60	SCMI Research Facility, Marine Business Park, Water Taxi, Café, Public Plaza	7b	2016	Average/Peak Harbor: working hr/day	power requirement (hp-hr/day/vesse l); nonworking electrical requirement (kw-hr/day/vesse l)	working days/year	SCAB/State power requirement (hp-hr/yr/vessel); nonworking electrical requirement (kw-hr/yr/vessel)	Harbor power requirement (hp-hr/yr/vessel); nonworking electrical requirement (kw-hr/yr/vessel)	
<b>Marine Sources</b>										
						4	2,099	365	766,011	766,011



**Table C.3 Operational Equipment Utilization**

Water taxi main engine berth idling	690	0.38		0.17
Water taxi auxiliary engine transit & work	68	0.32	4	
Water taxi auxiliary engine berth idling	68	0.32		0.17
Water taxi electrical use at berth	68	51	0.32	

Proposed Project	Berth	SCMI Research Facility, Marine Business Park, Water Taxi, Café, Public Plaza	10b	2021	Marine Sources	Power	Power	Load	SCAB/State:	
						(hp) <sup>[3]</sup>	(kW)	Factor <sup>[2]</sup>	working hr/day	Idling hr/day
					Water taxi main engine transit & work	690		0.38		4
					Water taxi main engine berth idling	690		0.38		0.17
					Water taxi auxiliary engine transit & work	68		0.32		4
					Water taxi auxiliary engine berth idling	68		0.32		0.17
					Water taxi electrical use at berth	68	51	0.32		



**Table C.3 Operational Equipment Utilization**

**Land-Side Sources**

Forklifts	land	onsite	propane/nat	50	120 2021_Forklifts_120hp	120
Cranes	land	onsite	dsl	120	120 2021_Cranes_120hp	120
Generator Sets	land	onsite	dsl	120	175 2021_Other General Industrial Equipment_175	120

**Vehicle Exhaust**

Trucks material deliveries - offsite transit & idling exhaust	vehicle	offsite	dsl		T6 instate hea 2021_T6 instate heavy_dsl	
Trucks material deliveries - onsite transit exhaust	vehicle	onsite	dsl		T6 instate hea 2021_T6 instate heavy_dsl_onsite transit	
Trucks material deliveries - onsite idling exhaust	vehicle	onsite idling	dsl		T6 instate hea 2021_HHDT_dsl_onsite idling	

Worker/visitor vehicles exhaust	vehicle	offsite	gas&dsl		LDA/LDT1 2021_LDA/LDT1_gas&dsl	
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**Fugitive Sources**

Trucks (all) paved road dust	fugitive	offsite	dsl		22 T6 instate heavy	
Worker/visitor vehicles paved road dust	fugitive	offsite			LDA	

**Landscape Equipment**

Architectural coatings	fugitive	onsite				
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**GHG-only Sources**

Energy Use	utility - Electricity	offsite				
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	utility - Natural Gas	onsite				
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Water Use	utility	offsite				
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Wastewater	utility	offsite				
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Solid Waste	utility	offsite				
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Truck  
Capacity  
(cu.yd)

**Table C.3 Operational Equipment Utilization**

**Land-Side Sources**

				(hr/day)	
Forklifts	2021_Forklifts_120hp	114	0.201	1	2
Cranes	2021_Cranes_120hp	139	0.228	1	2
Generator Sets	2021_Generator Sets_120hp	175	0.3417	1	2

**Vehicle Exhaust**

	Miles Traveled (mi/trip)	Idling (min) / trip	Number Active <sup>[3]</sup>	trip/day/vehicle
Trucks material deliveries - offsite transit & idling exhaust	35		359	
Trucks material deliveries - onsite transit exhaust	0.5		359	
Trucks material deliveries - onsite idling exhaust		5	359	

Worker/visitor vehicles exhaust	30.0		1,533	2
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**Fugitive Sources**

Trucks (all) paved road dust	35		359.5	0
Worker/visitor vehicles paved road dust	30		1,533	2

**Landscape Equipment**

	Building Footage (sqft)	15 exterior&interior	peak day paint rate
Architectural coatings	130,280	100%	25%

**GHG-only Sources**

	Building Footage (sqft)	Energy Use (kW-hr/day or kBtu/day)
Energy Use	130,280	7,535

	130,280	7,373
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	Electricity Use for Supply, Treatment and Distribution (kw-hr/MMGal)	Water Use (gal/day)
Water Use	13,021	25,401

	Building Footage (sqft)	wastewater Generation Rate (gpd/1000 sft)	gal/day
Wastewater	130,280	varies by space use	124,884

Solid Waste			ton/day 0.65
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**Table C.3 Operational Equipment Utilization**

<b>Land-Side Sources</b>	fuel use (lb/day)	(total days)/unit	(day/yr)/unit	fuel use (lb/yr)
Forklifts	12	730	365	4,431
Cranes	19	730	365	6,834
Generator Sets	37	730	365	13,648
<b>Vehicle Exhaust</b>	VMT (mi/day)	total trips/unit	total trips/yr/unit	VMT (mi/yr)/unit
Trucks material deliveries - offsite transit & idling exhaust	35	365	365	12,775
Trucks material deliveries - onsite transit exhaust	0.5	365	365	183
Trucks material deliveries - onsite idling exhaust		365	365	
Worker/visitor vehicles exhaust	60	365		21,900
<b>Fugitive Sources</b>				
Trucks (all) paved road dust	35	365		12,775
Worker/visitor vehicles paved road dust	60	365		21,900
Landscape Equipment				
			reapplication rate	
Architectural coatings			10%	
<b>GHG-only Sources</b>				
			Energy Use (kW-hr/yr or kBtu/yr)	
Energy Use			2,750,275	
			2,691,145	
			Water Use (gal/yr)	
Water Use			9,271,365	
			gal/yr	
Wastewater			45,582,660	
			ton/yr	
Solid Waste			238	

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**Table C.3 Operational Equipment Utilization**

Proposed Project	Facility	Year					Number of Engines/Vessel	Number Active/Peak Day	Number Active/Average Day	Percent of Work in Harbor
Proposed Project B70-71	NOAA Facility, Wave Tank	11	2024							
<b>Marine Sources</b>										
	NOAA vessel main engine transit		marine	offsite	diesel	2	3		2	0%
	NOAA vessel main engine berth idling		marine	onsite	diesel	2	3		2	
	NOAA vessel auxiliary engine transit		marine	offsite	diesel	2	3		2	0%
	NOAA vessel auxiliary engine berth idling		marine	onsite	diesel	2	3		2	
	NOAA vessel electrical use at berth		marine	offsite	diesel	2	3		2	
<b>Land-Side Sources</b>										
	Forklifts		land	onsite	propane/nat	50		120 2024_Forklifts_120hp		120
	Cranes		land	onsite	dsl	120		120 2024_Cranes_120hp		120
	Generator Sets		land	onsite	dsl	120		175 2024_Other General Industrial Equipment_175		120
<b>Vehicle Exhaust</b>										
	Trucks material deliveries - offsite transit & idling exhaust		vehicle	offsite	Fuel dsl			T6 instate hea 2024_T6 instate heavy_dsl		
	Trucks material deliveries - onsite transit exhaust		vehicle	onsite	dsl			T6 instate hea 2024_T6 instate heavy_dsl_onsite transit		
	Trucks material deliveries - onsite idling exhaust		vehicle	onsite idling	dsl			T6 instate hea 2024_HHDT_dsl_onsite idling		
	Worker/visitor vehicles exhaust		vehicle	offsite	gas&dsl			LDA/LDT1 2024_LDA/LDT1_gas&dsl		
<b>Fugitive Sources</b>										
	Trucks (all) paved road dust		fugitive	offsite	dsl			22 T6 instate heavy		
	Worker/visitor vehicles paved road dust		fugitive	offsite				LDA		
Landscape Equipment										

**Table C.3 Operational Equipment Utilization**

Proposed Project	NOAA Facility, Wave Tank	11	2024		Power (hp) <sup>[3]</sup>	Power (kW)	Load Factor <sup>[2]</sup>	SCAB/State:	
								working hr/day	Idling hr/day
<b>Marine Sources</b>									
				NOAA vessel main engine transit	1,772		0.38	2.4	
				NOAA vessel main engine berth idling	1,772		0.38		0.17
				NOAA vessel auxiliary engine transit	1,210		0.32	2.4	
				NOAA vessel auxiliary engine berth idling	1,210		0.32		0.17
				NOAA vessel electrical use at berth	1,210	903	0.32		
<b>Land-Side Sources</b>									
				Forklifts	2024_Forklifts_120hp	114	0.201	(hr/day)	
				Cranes	2024_Cranes_120hp	139	0.228	1	2
				Generator Sets	2024_Generator Sets_120hp	175	0.3417	1	2
<b>Vehicle Exhaust</b>									
				Trucks material deliveries - offsite transit & idling exhaust					
				Trucks material deliveries - onsite transit exhaust					
				Trucks material deliveries - onsite idling exhaust					
				Worker/visitor vehicles exhaust					
				Trucks (all) paved road dust					
				Worker/visitor vehicles paved road dust					
				Landscape Equipment					

**Table C.3 Operational Equipment Utilization**

Proposed Project	Facility	Year	Average Harbor: working hr/day	Average Harbor: working hr/day		Working days/year	SCAB/State power requirement (hp-hr/yr/vessel); nonworking electrical requirement (kw-hr/yr/vessel)	Harbor power requirement (hp-hr/yr/vessel); nonworking electrical requirement (kw-hr/yr/vessel)
				power requirement (hp-hr/day/vessel); nonworking electrical requirement (kw-hr/day/vessel)	power requirement (hp-hr/day/vessel); nonworking electrical requirement (kw-hr/day/vessel)			
Proposed Project B70-71	NOAA Facility, Wave Tank	11 2024						
<b>Marine Sources</b>								
				0.4	3,232	6	19,663	3,277
					224	6	1,366	1,366
				0.4	1,859	6	11,310	1,885
					129	6	785	785
				24	13,870	60	832,205	832,205
			Peak Harbor: working hr/day					
<b>Land-Side Sources</b>								
				fuel use (lb/day)	(total days)/unit		(day/yr)/unit	fuel use (lb/yr)
				12	730		365	4,431
				19	730		365	6,834
				37	730		365	13,648
<b>Vehicle Exhaust</b>								
			VMT (mi/day)		total trips/unit	total trips/yr/unit		VMT (mi/yr)/unit
			35		365	365		12,775
			0.5		365	365		183
					365	365		
			60		365			21,900
<b>Fugitive Sources</b>								
			35		365			12,775
			60		365			21,900
Landscape Equipment								

**Table C.3 Operational Equipment Utilization**

Architectural coatings	fugitive	onsite
<b>GHG-only Sources</b>		
Energy Use	utility - Electricity	offsite
	utility - Natural Gas	onsite
Water Use	utility	offsite
Wastewater	utility	offsite
Solid Waste	utility	offsite

Proposed Project Fish Harbor San Pedro Bait Company 12 2014

				Number of Engines/Vessel	Number Active/Peak Day	Number Active/Average Day	Percent of Work in Harbor
<b>Marine Sources</b>							
Fishing vessel main engine transit & work	marine	offsite	diesel	1	2		0%
Fishing vessel main engine berth idling	marine	onsite	diesel	1	2		2

**Table C.3 Operational Equipment Utilization**

	Building Footage (sqft)	exterior&interior	peak day paint rate
Architectural coatings	130,000	100%	25%
<b>GHG-only Sources</b>			
Energy Use	130,000		Energy Use (kW-hr/day or kBtu/day) 5,025
	130,000		5,980
Water Use			Electricity Use for Supply, Treatment and Distribution (kW-hr/MMGal) 13,021 Water Use (gal/day) 9,990
Wastewater	130,000	Wastewater Generation Rate (gpd/1000 sft) varies by space use	gal/day 9,000
Solid Waste			ton/day 0.68

Proposed Project	Fish Harbor	San Pedro Bait Company	12	2014	Marine Sources	Percent of Work in SCAB	Power (hp) <sup>[3]</sup>	Power (kW)	Load Factor <sup>[2]</sup>	SCAB/State:	
										Working hr/day	Idling hr/day
					Fishing vessel main engine transit & work	50%	400		0.27		4
					Fishing vessel main engine berth idling		400		0.27		0.17

**Table C.3 Operational Equipment Utilization**

				reapplication rate						
				Architectural coatings	10%					
				<b>GHG-only Sources</b>						
				Energy Use	Energy Use (kW-hr/yr or kBtu/yr)	1,834,125				
						2,182,700				
				Water Use	Water Use (gal/yr)	3,646,350				
				Wastewater	gal/yr	3,285,000				
				Solid Waste	ton/yr	249				
<hr/>										
				Average Harbor: Working hr/day	power requirement (hp-hr/day/vessel); nonworking electrical requirement (kw-hr/day/vessel)	working days/year	SCAB/State power requirement (hp-hr/yr/vessel); nonworking electrical requirement (kw-hr/yr/vessel)	Harbor power requirement (hp-hr/yr/vessel); nonworking electrical requirement (kw-hr/yr/vessel)		
Proposed Project	Fish Harbor	San Pedro Bait Company	12 2014							
<b>Marine Sources</b>										
				Fishing vessel main engine transit & work	1.0	432	365	78,840	39,420	
				Fishing vessel main engine berth idling		18	365	6,570	6,570	

**Table C.3 Operational Equipment Utilization**

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[1] Source of equipment categories: POLA staff, CalEEMod defaults, and equipment used in the San Pedro Waterfront analysis.

[2] CARB Air Quality, Emissions Inventory, Mobile Source Emission Inventory -- Categories. [http://www.arb.ca.gov/msei/categories.htm#inuse\\_or\\_category](http://www.arb.ca.gov/msei/categories.htm#inuse_or_category). Last viewed October 2011.

[3] CalEEMod, Appendix D, Table 3.3

Indirect source activities (energy use, water use, wastewater, solid waste, etc.) were developed by ICF - Utility Tables.



**Table C.3 Operational Equipment Utilization**

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[1] Source of equipment categories: POLA staff, CalEEMod defaults, and equipment used in the San Pedro Waterfront analysis.

[2] CARB Air Quality, Emissions Inventory, Mobile Source Emission Inventory -- Categories. <http://www.arb.ca.gov/msei/categories.htm>

[3] CalEEMod, Appendix D, Table 3.3

Indirect source activities (energy use, water use, wastewater, solid waste, etc.) were developed by ICF - Utility Tables.

**Table C.3 Operational Equipment Utilization**

Peak  
Harbor:  
working  
hr/day

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[1] Source of equipment categories: POLA staff, CalEEMod defaults, and equipment used in the San Pedro Waterfront analysis.

[2] CARB Air Quality, Emissions Inventory, Mobile Source Emission Inventory -- Categories. <http://www.arb.ca.gov/msei/categories.htm>

[3] CalEEMod, Appendix D, Table 3.3

Indirect source activities (energy use, water use, wastewater, solid waste, etc.) were developed by ICF - Utility Tables.

**Table C.4 Research Vessel Characteristics**

	kW	hp	Model Year	Number of Engines per vessel	Percent of work done in harbor	SCAB/State: working hr/day	Harbor: working hr/day	Idling time (hr/day)	Engines operating at berth hr/day	Load factor	Peak Day power requirement (hp-hr/day/vessel); nonworking electrical requirement (kw-days/year)	SCAB/State power requirement (hp-hr/yr/vessel); nonworking electrical requirement (kw-yr/vessel)	Harbor power requirement (hp-hr/yr/vessel); nonworking electrical requirement (kw-yr/vessel)	Tier in 2011	Tier in 2016	Tier in 2021	Tier in 2021 following mitigation	Tier in 2024	
											(kw-hr/yr/vessel)	(kw-yr/vessel)	(kw-yr/vessel)	2011	2016	2021	2021	2024	
NOAA vessel main engine transit	1,322	1,772	1986	2	0%	2.4	0.4			0.38	3,232	6.1	19,663	3,277			Tier 4	Tier 4	Tier 4
NOAA vessel main engine berth idling	1,322	1,772	1986	2				0.17		0.38	224	6.1	1,366	1,366			Tier 4	Tier 4	Tier 4
NOAA vessel auxiliary engine transit	903	1,210	1988	2	0%	2.4	0.4			0.32	1,859	6.1	11,310	1,885			Tier 2	Tier 2	Tier 2
NOAA vessel auxiliary engine berth idling	903	1,210	1988	2				0.17		0.32	129	6.1	785	785			Tier 2	Tier 2	Tier 2
NOAA vessel electrical use at berth	903	1,210	1988	2					24	0.32	13,870	60	832,205	832,205			Tier 2	Tier 2	Tier 2
<b>Tier in 2021 following mitigation</b>																			
							Harbor: working hr/day							Tier in 2011	Tier in 2016	Tier in 2021	Tier in 2021 following mitigation	Tier in 2024	
Water taxi main engine transit & work	515	690	2000	2	100%	4	4			0.38	2,099	365	766,011	766,011			Tier 1	Tier 3	Tier 3
Water taxi main engine berth idling	515	690	2000	2				0.17		0.38	87	365	31,917	31,917			Tier 1	Tier 3	Tier 3
Water taxi auxiliary engine transit & work	51	68	1997	1	100%	4	4			0.32	88	365	31,940	31,940			Tier 1	Tier 3	Tier 3
Water taxi auxiliary engine berth idling	51	68	1997	1				0.17		0.32	4	365	1,331	1,331			Tier 1	Tier 3	Tier 3
Water taxi electrical use at berth	51	68	1997	1					0	0.32	0	365	0	0			Tier 1	Tier 3	Tier 3
<b>SCMI Existing Operation</b>																			
							Harbor: working hr/day							Tier in 2011	Tier in 2016	Tier in 2021	Tier in 2021 following mitigation	Tier in 2024	
SCMI 2011 large vessel main engine transit	187	250	1998	2	35%	6	2.1			0.38	1,140	208	237,120	82,992			Tier 2		
SCMI 2011 large vessel main engine berth idling	187	250	1998	2				0.17		0.38	32	208	6,587	6,587			Tier 2		
SCMI 2011 large vessel auxiliary engine transit	41	55	2003	1	35%	6	2.1			0.32	106	208	7,688	7,688			Tier 2		
SCMI 2011 large vessel auxiliary engine berth idling	41	55	2003	1				0.17		0.32	3	208	610	610			Tier 2		
SCMI 2011 large vessel electrical use at berth	41	55	2003	1					18	0.32	236	208	49,157	49,157			Tier 2		
SCMI 2011 small vessel main engine transit	56	75	1998	2	35%	4	1.4			0.38	228	156	12,449	12,449			Tier 2		
SCMI 2011 small vessel main engine berth idling	56	75	1998	2				0.08		0.38	5	156	741	741			Tier 2		
SCMI 2011 small vessel auxiliary engine transit	41	55	2003	1	35%	4	1.4			0.32	70	156	3,844	3,844			Tier 2		
SCMI 2011 small vessel auxiliary engine berth idling	41	55	2003	1				0.08		0.32	1	156	229	229			Tier 2		
SCMI 2011 small vessel electrical use at berth	41	55	2003	1					0	0.32	0	156	0	0			Tier 2		
<b>SCMI Future Operation</b>																			
SCMI large vessel main engine transit & work	187	250	1998	2	35%	6	2.1			0.38	1,140	208	237,120	82,992	Tier 2	Tier 3	Tier 3	Tier 3	Tier 3
SCMI large vessel main engine berth idling	187	250	1998	2				0.17		0.38	32	208	6,587	6,587	Tier 2	Tier 3	Tier 3	Tier 3	Tier 3
SCMI large vessel auxiliary engine transit & work	41	55	2003	1	35%	6	2.1			0.32	106	208	7,688	7,688	Tier 2	Tier 2	Tier 2	Tier 2	Tier 2
SCMI large vessel auxiliary engine berth idling	41	55	2003	1				0.17		0.32	3	208	610	610	Tier 2	Tier 2	Tier 2	Tier 2	Tier 2
SCMI large vessel electrical use at berth	41	55	2003	1					18	0.32	236	208	49,157	49,157	Tier 2	Tier 2	Tier 2	Tier 2	Tier 2
SCMI small vessel main engine transit & work	56	75	1998	2	35%	4	1.4			0.38	228	156	12,449	12,449	Tier 2	Tier 3	Tier 3	Tier 3	Tier 3
SCMI small vessel main engine berth idling	56	75	1998	2				0.08		0.38	5	156	741	741	Tier 2	Tier 3	Tier 3	Tier 3	Tier 3
SCMI small vessel auxiliary engine transit & work	41	55	2003	1	35%	4	1.4			0.32	70	156	3,844	3,844	Tier 2	Tier 2	Tier 2	Tier 2	Tier 2
SCMI small vessel auxiliary engine berth idling	41	55	2003	1				0.08		0.32	1	156	229	229	Tier 2	Tier 2	Tier 2	Tier 2	Tier 2
SCMI small vessel electrical use at berth	41	55	2003	1					0	0.32	0	156	0	0	Tier 2	Tier 2	Tier 2	Tier 2	Tier 2
<b>San Pedro Bait Company Existing Operation</b>																			
						Percent of work done in SCAB	SCAB/State: peak working hr/day	Harbor: working hr/day						Tier in 2011	Tier in 2016	Tier in 2021	Tier in 2021 following mitigation	Tier in 2024	
Fishing vessel 2011 main engine transit & work			400	1984	1	50%	4.0	0.8			0.27	432	365	78,840	31,536			Tier 2	
Fishing vessel 2011 main engine berth idling			400	1984	1			0.17		0.27	18	365	6,570	6,570			Tier 2		
<b>San Pedro Bait Company Future Operation</b>																			
Fishing vessel main engine transit & work			400	1984	1	50%	4.0	1.0			0.27	432	365	78,840	39,420	Tier 2	Tier 2	Tier 2	Tier 2
Fishing vessel main engine berth idling			400	1984	1			0.17		0.27	18	365	6,570	6,570	Tier 2	Tier 2	Tier 2	Tier 2	Tier 2

**Table C.5 Vehicle Estimates**

	Proposed Element	Land Use Category	Total ADTs	Visitor ADTs	Employee ADTs	Deliveries ADTs	Visitors Daily	Employees Daily
Baseline	Transit Shed 57-58/Crescent Warehouse	Warehouse	39	0	23	16	0	0
Berth 56-57	Research & Development Facility	Research & De	371	178	122	70	156	70
	Support Facilities & Storage	Research & De	62	30	20	12	26	12
	Learning Center - Museum/Intrpretive Center	Educational	14	12	1	1	11	1
	Learning Center - Classrooms & Auditorium	Educational	994	881	64	50	771	37
	Boat Slips (Floating Finger Dock)	Recreational	144	69	48	27	60	27
	Public Plaza	Recreational	18	9	6	3	8	3
	<b>Subtotal</b>		<b>1,603</b>	<b>1,179</b>	<b>261</b>	<b>163</b>	<b>1,031</b>	<b>150</b>
Berth 58-60	Research & Development Facility	Research & De	1802	865	595	342	757	342
	Waterfront Café	Recreational	80	38	26	15	34	15
	Public Plaza	Recreational	10	5	3	2	4	2
	<b>Subtotal</b>		<b>1,892</b>	<b>908</b>	<b>624</b>	<b>359</b>	<b>795</b>	<b>359</b>
Berth 70-71	NOAA Offices	General office	501	240	165	95	210	95
	Wave Tank (10,000 sf Office)							

	Visitors - Daily	Employees - Daily
Total	3,862	1,113

Land Use Type	Visitors	Employees	Deliveries
Educational	88.60%	6.40%	5%
Recreational	48%	33%	19%
Research & Development	48%	33%	19%
General office	48%	33%	19%
Industrial/Unrefrigerated	0%	59%	41%

Source: CalEEMod 2011, Appendix D, Table 4.3

Persons per vehicle	
Visitors	1.75
Employees	1.15

**Table C.6 Asphalt Assumptions**

Construction Element	Description	Acres	Asphalt Requirements
<b>PHASE I</b>			
<b>BERTH 56 BUILDING</b>			
1a	Construction (New Building)	1.01	
<b>BERTH 57 (POLA)</b>			
1b	Construction (Wharf, Ground Improvem	1.65	1.65
1c	Construction (Floating Dock, Public Pla	4.9	3.83
1d	Construction (Promenade)	1.63	
<b>BERTH 57 (SCMI)</b>			
1e	Building Interior Construction		
<b>PHASE II</b>			
<b>BERTHS 58-60 (POLA)</b>			
2a	B260 Demo (SCMI Building Demo)		promenade asphaltting was assumed to occur during this
2b	Construction (Wharf, Ground Improvem	4.9	1.63 task
2c	Construction (Pump Station)		
2d	Construction (Promenade)	3.72	
<b>BERTH 58-60 (Tenant)</b>			
2e	Building Interior Construction; Temporary NOAA facility		
<b>Westways</b>			
2f	Remediation		promenade asphaltting was assumed to occur during this
2g	Construction (Berths 70-71 NOAA Buil	6.4	8.03 task

Source is ICF map of facilities: Working\_SitePlan\_TZ (January 2012).



**Table C.7 EPA Tier 1-4 Nonroad Diesel Engine Emission Standard:**  
(g/bhp·hr)

Engine Power (hp)	Tier	Year	HC	CO	NOx	PM	NMHC+NOx
<11	Tier 1	2000	0.39	6	7.41	0.75	7.8
<11	Tier 2	2005	0.28	6	5.32	0.6	5.6
<11	Tier 4	2008	0.28	6	5.32	0.3	5.6
11-25	Tier 1	2000	0.355	4.9	6.745	0.6	7.1
11-25	Tier 2	2005	0.28	4.9	5.32	0.6	5.6
11-25	Tier 4	2008	0.28	4.9	5.32	0.3	5.6
25-50	Tier 1	1999	0.355	4.1	6.745	0.6	7.1
25-50	Tier 2	2004	0.28	4.1	5.32	0.45	5.6
25-50	Tier 4	2008	0.28	4.1	5.32	0.22	5.6
25-50	Tier 4	2013	0.175	4.1	3.325	0.022	3.5
50-100	Tier 1	1998	1	6.9	6.9	0.4	
50-100	Tier 2	2004	0.265	3.7	5.035	0.3	5.3
50-100	Tier 3	2008	0.175	3.7	3.325	0.3	3.5
50-75	Tier 4	2008	0.175	3.7	3.325	0.22	3.5
50-75	Tier 4	2013	0.175	3.7	3.325	0.022	3.5
100-175	Tier 1	1997	1	6.9	6.9	0.4	
100-175	Tier 2	2003	0.245	3.7	4.655	0.22	4.9
100-175	Tier 3	2007	0.15	3.7	2.85	0.22	3
75-175	Tier 4	2012-2014	0.14	3.7	0.3	0.015	
175-300	Tier 1	1996	1	6.9	6.9	0.4	
175-300	Tier 2	2003	0.245	2.6	4.655	0.15	4.9
175-300	Tier 3	2006	0.15	2.6	2.85	0.15	3
300-600	Tier 1	1996	1	8.5	6.9	0.4	
300-600	Tier 2	2001	0.24	2.6	4.56	0.15	4.8
300-600	Tier 3	2006	0.15	2.6	2.85	0.15	3
600-750	Tier 1	1996	1	8.5	6.9	0.4	
600-750	Tier 2	2002	0.24	2.6	4.56	0.15	4.8
600-750	Tier 3	2006	0.15	2.6	2.85	0.15	3
175-750	Tier 4	2011-2014	0.14	2.6	0.3	0.015	
>750	Tier 1	2000	1	8.5	6.9	0.4	
>750	Tier 2	2006	0.24	2.6	4.56	0.15	4.8
750-900	Tier 4	2015	0.14	2.6	0.5	0.022	
750-900	Tier 4	2015	0.14	2.6	2.6	0.03	
>900	Tier 4 - ge	2011	0.3	2.6	0.5	0.075	
>900	Tier 4	2011	0.3	2.6	2.6	0.075	

Source: Diesel Net, Non Road Diesel Engines. <http://www.dieselnet.com/standards/us/nonroad.php>. Last viewed: 11/2011  
EPA Tier 2 emission standards are reported as NOx+THC. 5% is HC per Carl Moyer Program guidelines.

**Table C.8 Harbor Craft Emission Factors**

Engine Power (kw)	(hp)	EPA Tier	EPA Year	g/hp-hr		NOx	PM	NMHC+NOx
				HC	CO			
		Tier 1	2000	0.35	3.73	7.31	0.30	6.95
37-75; displacement >0.5	50-100	Tier 2	2005	0.28	3.73	5.3	0.30	5.59
75-130; 0.9 < displ < 1.2	100-175	Tier 2	2004	0.27	3.73	5.1	0.22	5.37
130-560; 1.2 < displ < 2	175-750	Tier 2	2004	0.27	3.73	5.1	0.15	5.37
>560 2.5 < displ < 5	>750	Tier 2	2007	0.27	3.73	5.1	0.15	5.37
37-75; displacement <0.5	50-100	Tier 3	2014	0.18	3.73	3.3	0.22	3.5
75-130; 0.9 < displ < 1.2	100-175	Tier 3	2013	0.20	3.73	3.8	0.09	4.0
130-560; 1.2 < displ < 2	175-750	Tier 3	2014	0.21	3.73	4.0	0.08	4.2
>560 2.5 < displ < 5	>750	Tier 3	2013	0.21	3.73	4.0	0.08	4.2
600-1400		Tier 4	2017	0.14	3.73	1.3	0.03	
1400-2000		Tier 4	2016	0.14	3.73	1.3	0.03	
2000-3700		Tier 4	2014	0.14	3.73	1.3	0.03	
>3700		Tier 4	2014	0.14	3.73	1.3	0.09	

Source: Amendments to the Regulations to Reduce Emissions From Diesel Engines on Commercial Harbor Craft Operated Within California Waters and 24 Nautical Miles of the California Baseline. ARB 2011. Table 9, Compliance Dates for Engines on Crew and Supply Vessels

<http://www.arb.ca.gov/regact/2010/chc10/frochc931185.pdf>

EPA Tier 2 and Tier 3 emission standards are reported as NOx+THC. 5% is HC per Carl Moyer Program guidelines.

**Table C.9 SOx Emission Factor**

Harbor Craft	0.00552 g/hp-hr
Dredging Equipment	use OFFROAD BSCF and convert to g SOx /hp-hr
SOx (gms/hp-hr) = (S content in X/1,000,000) x (MW SO2/ MW S) x BSF =	
Where:	2006
X = S content in parts per million (ppm)	15 ppm
S MW = Molecular Weight	32
SO2 MW = Molecular Weight	64
BSFC for harbor craft = Brake Specific Fuel Consumption (per CARB 2007 Harbor Craft Methodology)	184 (g/hp-hr)

**Table C.10 Harbor Craft Useful Life (UL) in years**

<b>Harbor Vessel Type</b>	<b>Main Engines</b>	<b>Auxiliary Engines</b>
Assist tug	21	22.5
Tugboat	21	22.5
Work boat	17	23
Commercial fishing	21	15
Crew and Supply	22	22

Source: California Air Resources Board. Mobile Emissions Inventory, Commercial Harbor Craft. 2011.

[http://www.arb.ca.gov/msei/categories.htm#offroad\\_motor\\_vehicles](http://www.arb.ca.gov/msei/categories.htm#offroad_motor_vehicles)



**Table C.11 Road Dust**

**Paved Road Dust** AP42, Chapter 13.2.1, January 2011 revision  
 $E = [k \times (sL)^{0.91} \times (W)^{1.02}] \times (1-P/4N)$   
 E = lb/VMT  
 k = Particle size multiplier, AP42, Table 13.2.1-1  
 sL = Road surface silt loading (g/m<sup>2</sup>), AP42, Table 13.2.1-2 for average daily traffic category of >10,000  
 W = Average weight of vehicles in tons (CARB vehicle categories)  
 P = Days of precipitation, AP42, Figure 13.2.1-2  
 N = Days in period (365 for annual calculation)

CARB Vehicle Category	E PM10 (lb/VMT)	E PM2.5 (lb/VMT)	W (ton)	k PM10	k PM2.5	sL	P (days/yr)	N (days)
Average Vehicle	0.000197	4.828E-05	2.2	0.0022	0.00054	0.03	40	365

**Unpaved Road Dust** AP42, Chapter 13.2.2, November 2006 revision

$E = [k \times (s/12)^a \times (W/3)^b]$   
 E = lb/VMT  
 k = Particle size multiplier, AP42, Table 13.2.2-2  
 s = surface material silt content (%) for construction sites, AP42, Table 13.2.2-1  
 W = Average weight of vehicles in tons (CARB vehicle categories)  
 P = Days of precipitation, AP42, Figure 13.2.1-2  
 N = Days in period (365 for annual calculation)

CARB Vehicle Category	E PM10 (lb/VMT)	E PM2.5 (lb/VMT)	W (ton)	k PM10	k PM2.5	s (%)	a	b
Average Vehicle	0.956513	0.0956513	2.2	1.5	0.15	8.5	0.9	0.45

**Table C.12 Fugitive Construction Dust**

<b>Dust from Soil Moving/Handling (bulldozing)</b>		
$EF_{TSP} = C_{TSP} * s^{1.2} / M^{1.3}$		
$EF_{TSP} =$	6.245663 lb/hr	
$EF_{PM15} =$	4.684247 lb/hr	
$EF_{PM2.5} =$	0.655795 lb/hr	
$C_{TSP}$	5.7	
$M$	7.9%	
$s$	6.9%	
$F_{PM15}$	0.75	
$F_{PM2.5}$	0.105	
<b>Dust from Soil Loading/Unloading</b>		
$EF = k * (0.0032) * (U/5)^{1.3} / (M/2)^{1.4}$		
$EF_{PM10} =$	0.101163 lb/ton	0.127886 lb/cy
$EF_{PM2.5} =$	0.015319 lb/ton	0.019366 lb/cy
Source: CalEEMOD, Appendix A, Section 4.3, Dust from Material February 2011.		
Wind speed, state default		2.2 m/s 4.9 mph
$k_{PM10}$	0.35	
$k_{PM2.5}$	0.053	
$U$	4.9	
$M$	7.9%	
<b>Dust from Building Demolition</b>		
Source: CalEEMod, Appendix A, Chapter 4.4		
$E (lb) = EF (lb/ton debris) * SF (sqft) * 0.046 (ton/sqft)$		
where:		
$EF_{PM10} (lb/debris) =$	0.0011	
$EF_{PM2.5} (lb/debris) =$	0.00017	
SF is the building square footage		
<b>Dust from Debris Loading</b>		
Source: CalEEMod, Appendix A, Chapter 4.4		
$E (lb) = EF (lb/ton debris) * SF (sqft) * 0.046 (ton/sqft)$		
$EF_{TSP} =$	0.058 lb/ton	
$k_{M10} =$	0.35	
$k_{M2.5} =$	0.053	
$EF = k EF_{TSP}$		
$EF_{PM10} =$	0.0203 lb/ton	
$EF_{PM2.5} =$	0.003074 lb/ton	
<b>Dust from Grading</b>		
$E (lb) = EF (lb/VMT) * VMT (miles)$		
$EF_{TSP} = 0.04 * S^{2.5}$	$EF_{PM2.5} = EF_{TSP} * F_{PM2.5}$	
$EF_{PM15} = 0.051 * S^2$	$EF_{PM10} = EF_{PM15} * F_{PM10}$	
$VMT = As (acre) / Wb (ft) * 43560 (sqft/acre) / 5280 (ft/mile)$		
$S$ is the mean vehicle speed =	7.1 mph	
$Wb$ is the blade width of grading equipment =	12 ft	
$VMT$ is the vehicle miles traveled		
$F_{PM10}$ is the PM10 scaling factor =	0.6	
$F_{PM2.5}$ is the PM2.5 scaling factor =	0.031	
$EF_{PM10} =$	1.542546 lb/VMT	
$EF_{PM2.5} =$	0.166559	
Peak day equipment-specific grading rates:		
	0.5 acre/8-hr day for crawlers	
	0.5 acre/8-hr day for graders	
	0.5 acre/8-hr day for rubber tired dozers	
	1 acre/8-hr day for scrapers	

**Table C.13 GHG Emission Factors**

GHG emission factors (kg CO <sub>2</sub> /gal fuel)				
	CO <sub>2</sub>	CH <sub>4</sub>	N <sub>2</sub> O	Fuel
offroad construction equipment <sup>[1],[2]</sup>	10.15	0.00058	0.00026	diesel
onroad trucks <sup>[3]</sup>	10.15	0.0051	0.0048	diesel
ships and boats <sup>[1],[2]</sup>	10.15	0.00074	0.00026	diesel

[1] CO<sub>2</sub> emission factors: 2011 Climate Registry Default Emission Factors, Table 13.1.  
 [2] N<sub>2</sub>O and CH<sub>4</sub> emission factors: 2011 Climate Registry Default Emission Factors, Table 13.6 for diesel equipment (Other Large Utility Non-Highway Vehicles).  
 [3] GHG emission factors are from the 2011 Climate Registry Default Emission Factors. Table 13.1 for CO<sub>2</sub> and Table 13.4 for N<sub>2</sub>O and CH<sub>4</sub>.

Fuel density  
 Diesel (lb/gal) 7.04

Global Warming Potentials (GWP):

CO <sub>2</sub>	CH <sub>4</sub>	N <sub>2</sub> O
1	21	310

**Table C.14 Architectural Coatings**

Source: CalEEMod, Appendix A, Chapter 4.7, Appendix D Table 6.1.

$E_{VOC} = EF * F * A$   
 where:  
 EF = VOC content (g/L) / 454 (g/lb) \* 37.85 (L/gal) / 180 (sqft/gal)  
 VOC content = 250 for South Coast nonresidential coatings  
 F is the fraction of surface area be 100%  
     exterior 75%  
     interior 25%  
 A is building surface a 2 \* usable square footage

**Table C.15 Asphalt Paving Off-Gassing**

Source: CalEEMod, Appendix A, Chapter 4.8.

$E_{VOC} = EF * A$   
 where:  
 EF is the emission fact 2.62 default  
 A is the area to be paved (acres)

**Table C.16 Wastewater Treatment Direct Emissions**

(mton/gallon of wastewater)

Wastewater Treatment Type	% in South Coast			CO <sub>2</sub>	CH <sub>4</sub>	N <sub>2</sub> O
	CO <sub>2</sub>	CH <sub>4</sub>	N <sub>2</sub> O			
Septic	0	2.50E-07	8.34E-10	10%	0	2.50335E-08 8.3445E-11
Aerobic	0	0	8.34E-10	84.69%	0	0 7.06696E-10
AnaerobicFacultative	0	4.01E-07	8.34E-10	2.14%	0	8.57147E-09 1.78572E-11
DigesterBurn	3.90E-07	1.34E-09	8.34E-10	3.17%	1.2363E-08	4.25519E-11 2.64521E-11
DigesterCogen	1.34E-09	8.34E-10		0%	0	0 0
Sum					1.2363E-08	3.36475E-08 8.3445E-10

Source: CalEEMod, Appendix D, Table 9.4

**Table C.17 % of PM10 which is PM2.5**

Fugitive PM	21%
Combustion from Off-Road Equip	89%
Stationary Source Combustion	99%

Source: SCAQMD, Final –Methodology to Calculate Particulate Matter (PM) 2.5 and PM 2.5 Significance Thresholds, 2006.  
[http://www.aqmd.gov/ceqa/handbook/PM2\\_5/PM2\\_5.html](http://www.aqmd.gov/ceqa/handbook/PM2_5/PM2_5.html)

**Table C.18 CARB Offroad 2011 output**  
Used to calculate NOx, PM, HC, and fuel consumption

CalendarYear	AirBasin	Equipment Class	Equipment TypeID	Equipment Type	HorsepowerBin	lb/yr	ton/yr	ton/yr	ton/yr	lb/yr	ton/yr	ton/yr	ton/yr	hr/yr	hr/yr	Emissions per Equipment (lb/hr)				lb/hr	
						BaseBSFC	BaseNOx	BasePM	BaseHC	ScenBSFC	ScenNOx	ScenPM	ScenHC	BaseActivity	ScenActivity	Population	NOx	PM	HC	PM2.5	BSFC per equipment
2013	SC	Construction and Mining	11	Bore/Drill Rigs	50	97776.37546	1.386687624	0.101402942	0.180291409	97776.37546	1.386687624	0.101402942	0.180291409	11709.9768	11709.9768	37.0769116	0.24	0.02	0.03	0.02	8.35
2013	SC	Construction and Mining	11	Bore/Drill Rigs	120	589644.6529	8.300718872	0.511390518	0.531689783	589644.6529	8.300718872	0.511390518	0.531689783	40220.64092	40220.64092	113.5724345	0.41	0.03	0.03	0.02	14.66
2013	SC	Construction and Mining	11	Bore/Drill Rigs	175	696371.2358	8.883768679	0.41195933	0.546122785	696371.2358	8.883768679	0.41195933	0.546122785	25024.8203	25024.8203	88.98458783	0.71	0.03	0.04	0.03	27.83
2013	SC	Construction and Mining	11	Bore/Drill Rigs	250	986286.586	12.01659804	0.371685851	0.597235299	986335.7627	11.93738879	0.3671202	0.590402033	25815.39014	25815.39014	88.59430455	0.93	0.03	0.05	0.03	38.21
2013	SC	Construction and Mining	11	Bore/Drill Rigs	500	1092628.4	11.75156932	0.386700769	0.609038725	1092497.066	11.72770439	0.385662852	0.60718193	17349.34342	17349.34342	62.05504151	1.35	0.04	0.07	0.04	62.97
2013	SC	Construction and Mining	11	Bore/Drill Rigs	750	1505711.326	11.46495242	0.390570935	0.595340668	1505711.326	11.46465768	0.390565259	0.595106584	13127.72103	13127.72103	30.83237912	1.75	0.06	0.09	0.05	114.70
2013	SC	Construction and Mining	11	Bore/Drill Rigs	1000	118645.7359	1.233946597	0.029177166	0.039637597	118645.7359	1.233946597	0.029177166	0.039637597	699.2608041	699.2608041	1.17084984	3.53	0.08	0.11	0.08	169.67
2013	SC	Construction and Mining	11	Bore/Drill Rigs	9999	401506.0286	5.093595867	0.12202526	0.162526996	401506.0286	5.093595867	0.12202526	0.162526996	816.434236	816.434236	1.17084984	12.48	0.30	0.40	0.28	491.78
2013	SC	Construction and Mining	12	Cranes	50	31651.45844	0.529097726	0.052863314	0.153133112	31651.45844	0.529097726	0.052863314	0.153133112	6713.232288	6713.232288	17.1741803	0.16	0.02	0.05	0.01	4.71
2013	SC	Construction and Mining	12	Cranes	120	754953.999	24.01895114	1.77908347	2.403679916	754953.999	23.84921161	1.766244898	2.383615132	80675.42955	80675.42955	207.0715453	0.60	0.04	0.06	0.04	9.36
2013	SC	Construction and Mining	12	Cranes	175	1993066.095	52.56472904	2.83621195	4.061304636	1993066.095	52.56143447	2.834813448	4.06091836	126714.5386	126714.5386	310.607318	0.83	0.04	0.06	0.04	15.73
2013	SC	Construction and Mining	12	Cranes	250	3365657.315	82.30691242	3.7810723	5.698091904	3365667.54	82.27317073	3.778435307	5.696072811	146384.8027	146384.8027	348.8812055	1.12	0.05	0.08	0.05	22.99
2013	SC	Construction and Mining	12	Cranes	500	5154393.237	101.2049253	4.197411659	6.397420471	5153898.443	100.8944924	4.181110132	6.375837271	145072.8149	145072.8149	334.6511704	1.40	0.06	0.09	0.05	35.53
2013	SC	Construction and Mining	12	Cranes	750	1359068.198	17.85907341	0.614430884	0.930372637	1359068.198	17.85907341	0.614430884	0.930372637	22701.83365	22701.83365	49.06908657	1.57	0.05	0.08	0.05	59.87
2013	SC	Construction and Mining	12	Cranes	1000	318035.8379	11.14988589	0.552359862	0.825608134	318035.8379	11.14988589	0.552359862	0.825608134	3227.194996	3227.194996	7.360362986	6.91	0.34	0.51	0.31	98.55
2013	SC	Construction and Mining	12	Cranes	9999	24495.578	0.480108528	0.011682539	0.020565149	24495.578	0.480108528	0.011682539	0.020565149	224.9267687	224.9267687	0.490690866	4.27	0.10	0.18	0.10	108.90
2013	SC	Construction and Mining	13	Crawler Tractors	50	96440.85594	1.70448262	0.199503065	0.563536784	96440.85594	1.70448262	0.199503065	0.563536784	13194.11018	13194.11018	43.55136322	0.26	0.03	0.09	0.03	7.31
2013	SC	Construction and Mining	13	Crawler Tractors	120	4274885.726	97.29261601	8.090939294	9.432705946	4273761.672	97.16538151	8.080488456	9.418363477	309489.4314	309489.4314	749.518961	0.63	0.05	0.06	0.05	13.81
2013	SC	Construction and Mining	13	Crawler Tractors	175	4649591.393	98.5460112	5.329908884	7.400267455	4650077.203	98.13412931	5.304796037	7.362062991	197666.1113	197666.1113	490.3883498	1.00	0.05	0.07	0.05	23.52
2013	SC	Construction and Mining	13	Crawler Tractors	250	4691481.944	89.7876157	3.487979374	5.373037213	4691454.823	89.47602025	3.468603471	5.34782969	146554.2833	146554.2833	358.4277193	1.23	0.05	0.07	0.04	32.01
2013	SC	Construction and Mining	13	Crawler Tractors	500	12583505.15	219.9432289	8.496644857	13.16392063	12584734.47	218.4614056	8.421448891	13.04847871	232798.33	232798.33	576.1845354	1.89	0.07	0.11	0.07	54.06
2013	SC	Construction and Mining	13	Crawler Tractors	750	4894939.662	74.96647233	2.693667756	4.274587481	4894939.662	74.77531708	2.682514079	4.257824642	54421.53432	54421.53432	118.0241943	2.76	0.10	0.16	0.09	89.94
2013	SC	Construction and Mining	13	Crawler Tractors	1000	647496.51	14.27422923	0.41803947	0.752727334	647496.51	14.27422923	0.41803947	0.752727334	4936.905469	4936.905469	10.45232717	5.78	0.17	0.30	0.16	131.15
2013	SC	Construction and Mining	13	Crawler Tractors	9999	342295.0763	6.415783547	0.167269563	0.29353541	342295.0763	6.415783547	0.167269563	0.29353541	1482.813744	1482.813744	2.613081793	8.65	0.23	0.40	0.21	230.84
2013	SC	Construction and Mining	14	Excavators	50	3861749.515	52.65531438	4.09943687	7.213719476	3861776.678	52.6283387	4.09443779	7.200145542	692341.899	692341.899	1066.674552	0.15	0.01	0.02	0.01	5.58
2013	SC	Construction and Mining	14	Excavators	120	5013497.832	81.81142874	6.160193679	6.762833948	5013472.435	81.73796461	6.153603637	6.754155384	442119.6098	442119.6098	771.5161412	0.37	0.03	0.03	0.03	11.34
2013	SC	Construction and Mining	14	Excavators	175	10562051.54	161.7309314	8.059426379	11.12736954	10562535.28	161.4058612	8.036528415	11.0972629	515802.0051	515802.0051	980.222828	0.63	0.03	0.04	0.03	20.48
2013	SC	Construction and Mining	14	Excavators	250	13437819.47	201.2667017	6.470373912	10.92529803	13436373.16	199.0300308	6.335823548	10.74296845	438284.5472	438284.5472	842.6859947	0.92	0.03	0.05	0.03	30.66
2013	SC	Construction and Mining	14	Excavators	500	22292126.48	253.2026377	8.237522623	13.95921724	22294006.92	250.8221755	8.11140971	13.77993768	485386.4443	485386.4443	857.0946153	1.04	0.03	0.06	0.03	45.93
2013	SC	Construction and Mining	14	Excavators	750	2015476.986	24.79046275	0.816054223	1.345540047	2015472.688	24.01883113	0.771612799	1.281367492	25127.08348	25127.08348	43.66248677	1.97	0.06	0.11	0.06	80.21
2013	SC	Construction and Mining	14	Excavators	1000	226215.8002	4.674818614	0.151033298	0.247728766	226215.8002	3.989118577	0.109001076	0.185627632	1921.732227	1921.732227	3.492998942	4.87	0.16	0.26	0.14	117.71
2013	SC	Construction and Mining	14	Excavators	9999	441078.4946	5.376496555	0.148552442	0.24652683	441078.4946	5.376496555	0.148552442	0.24652683	2024.944117	2024.944117	3.056374074	5.31	0.15	0.24	0.13	217.82
2013	SC	Construction and Mining	15	Graders	50	25502.44457	0.482411964	0.064190518	0.189784614	25502.44457	0.482411964	0.064190518	0.189784614	4160.802449	4160.802449	13.60433316	0.23	0.03	0.09	0.03	6.13

**Table C.18 CARB Offroad 2011 output**  
Used to calculate NOx, PM, HC, and fuel consumption

CalendarYear	AirBasin	Equipment Class	Equipment TypeID	Equipment Type	HorsepowerBin	lb/yr	ton/yr	ton/yr	ton/yr	lb/yr	ton/yr	ton/yr	ton/yr	hr/yr	hr/yr	Emissions per Equipment (lb/hr)					lb/hr
						BaseBSFC	BaseNOx	BasePM	BaseHC	ScenBSFC	ScenNOx	ScenPM	ScenHC	BaseActivity	ScenActivity	Population	NOx	PM	HC	PM2.5	BSFC per equipment
2013	SC	Construction and Mining	15	Graders	120	689382.1445	21.23722515	1.761135916	2.230083649	689382.1445	21.23678529	1.761108359	2.229863865	50576.90606	50576.90606	144.8203208	0.84	0.07	0.09	0.06	13.63
2013	SC	Construction and Mining	15	Graders	175	6403368.107	166.2571888	9.318907057	13.33375892	6403207.158	166.1475809	9.312078321	13.32271486	282183.4329	282183.4329	677.5835614	1.18	0.07	0.09	0.06	22.69
2013	SC	Construction and Mining	15	Graders	250	11110877.37	189.6641157	6.104921547	10.4491685	11110825.22	189.6376823	6.102905416	10.4474578	358497.4625	358497.4625	538.0294341	1.06	0.03	0.06	0.03	30.99
2013	SC	Construction and Mining	15	Graders	500	3168373.521	35.27416432	1.343050072	2.373025379	3168373.521	35.27416432	1.343050072	2.373025379	71942.13474	71942.13474	100.4965256	0.98	0.04	0.07	0.03	44.04
2013	SC	Construction and Mining	15	Graders	1000	30633.07515	0.854971881	0.029754871	0.053950945	30633.07515	0.854971881	0.029754871	0.053950945	256.5705627	256.5705627	0.438849457	6.66	0.23	0.42	0.21	119.39
2013	SC	Construction and Mining	15	Graders	9999	431530.7502	8.478341241	0.254462754	0.460645957	431530.7502	8.478341241	0.254462754	0.460645957	1446.332337	1446.332337	2.194247284	11.72	0.35	0.64	0.32	298.36
2013	SC	Construction and Mining	16	Off-Highway Tractors	50	1595475.719	24.9980833	2.539479748	6.163215701	1594923.556	24.88912599	2.50869275	6.060924159	238998.4159	238998.4159	408.5812906	0.21	0.02	0.05	0.02	6.67
2013	SC	Construction and Mining	16	Off-Highway Tractors	120	2042433.662	41.8811703	3.481937099	3.931387439	2043109.628	41.31498372	3.428677113	3.863493828	169917.0449	169917.0449	297.0717498	0.49	0.04	0.05	0.04	12.02
2013	SC	Construction and Mining	16	Off-Highway Tractors	175	1739825.107	28.25549286	1.46420776	1.970241833	1739825.107	28.25549286	1.46420776	1.970241833	68683.53354	68683.53354	112.8011572	0.82	0.04	0.06	0.04	25.33
2013	SC	Construction and Mining	16	Off-Highway Tractors	250	1457870.992	26.9032958	0.964291398	1.554455709	1457860.676	26.86123789	0.960994394	1.552219774	42794.74479	42794.74479	73.62212929	1.26	0.05	0.07	0.04	34.07
2013	SC	Construction and Mining	16	Off-Highway Tractors	500	4118229.175	54.92975054	1.971759185	3.134877366	4115956.41	54.50695926	1.937973678	3.110458113	77048.16646	77048.16646	126.5783977	1.43	0.05	0.08	0.05	53.42
2013	SC	Construction and Mining	16	Off-Highway Tractors	750	1037495.486	14.08072206	0.497882065	0.787356247	1034449.834	13.43001488	0.463054043	0.738473979	11276.92125	11276.92125	18.51316701	2.50	0.09	0.14	0.08	91.73
2013	SC	Construction and Mining	16	Off-Highway Tractors	1000	29314.89395	1.080567204	0.054976653	0.075542181	29314.89395	1.080567204	0.054976653	0.075542181	183.4146848	183.4146848	0.430538768	11.78	0.60	0.82	0.55	159.83
2013	SC	Construction and Mining	16	Off-Highway Tractors	9999	228592.6433	6.851895061	0.257710105	0.452234774	236276.1537	5.197782173	0.169278578	0.297884863	851.6207935	851.6207935	1.722155071	16.09	0.61	1.06	0.56	277.44
2013	SC	Construction and Mining	17	Off-Highway Trucks	50	152668.534	2.45922272	0.255509649	0.577027231	152668.534	2.45922272	0.255509649	0.577027231	34721.01683	34721.01683	24.31627099	0.14	0.01	0.03	0.01	4.40
2013	SC	Construction and Mining	17	Off-Highway Trucks	120	187482.9154	4.125287753	0.33226931	0.415454982	187482.9154	4.125287753	0.33226931	0.415454982	15583.75946	15583.75946	13.65123986	0.53	0.04	0.05	0.04	12.03
2013	SC	Construction and Mining	17	Off-Highway Trucks	175	3627283.882	63.27825447	3.612790661	5.104972086	3627283.882	63.27825447	3.612790661	5.104972086	163589.8052	163589.8052	130.5399811	0.77	0.04	0.06	0.04	22.17
2013	SC	Construction and Mining	17	Off-Highway Trucks	250	7440567.9	138.3680828	6.034592769	9.915878653	7439471.065	136.2705026	5.912421439	9.740841394	253217.1025	253217.1025	223.5390526	1.09	0.05	0.08	0.04	29.38
2013	SC	Construction and Mining	17	Off-Highway Trucks	500	31619311.85	480.8214744	18.74959884	33.16471731	31623095.91	476.9006129	18.51382133	32.8720164	600881.2511	600881.2511	496.5638497	1.60	0.06	0.11	0.06	52.63
2013	SC	Construction and Mining	17	Off-Highway Trucks	750	11361326.8	215.4447551	9.240988711	15.32463141	11361827.02	212.8918278	9.057223106	15.12702407	122213.7392	122213.7392	113.4759313	3.53	0.15	0.25	0.14	92.97
2013	SC	Construction and Mining	17	Off-Highway Trucks	1000	7862013.918	162.3516994	4.834174879	8.88317705	7862013.918	162.3516994	4.834174879	8.88317705	62359.92441	62359.92441	52.04535195	5.21	0.16	0.28	0.14	126.07
2013	SC	Construction and Mining	17	Off-Highway Trucks	9999	11321558.27	212.0639058	6.802241198	12.54164507	11363559.73	217.6294893	7.002482652	12.9044247	45300.19167	45300.19167	33.70149839	9.36	0.30	0.55	0.28	250.85
2013	SC	Construction and Mining	18	Other Construction Equipment	50	864816.9289	12.98992069	1.1798499	2.530425346	864816.9289	12.98992069	1.1798499	2.530425346	133200.8755	133200.8755	315.5233638	0.20	0.02	0.04	0.02	6.49
2013	SC	Construction and Mining	18	Other Construction Equipment	120	2701456.329	55.72801065	4.337919906	5.063493815	2701369.665	55.58465158	4.326508793	5.046617894	217950.7876	217950.7876	556.7309959	0.51	0.04	0.05	0.04	12.39
2013	SC	Construction and Mining	18	Other Construction Equipment	175	1473432.522	29.77118911	1.56937144	2.188969248	1473470.81	29.74255056	1.560183213	2.185694206	63660.98907	63660.98907	173.2618202	0.94	0.05	0.07	0.05	23.15
2013	SC	Construction and Mining	18	Other Construction Equipment	250	1892906.623	35.59616373	1.359735544	2.089847955	1892833.253	35.22520649	1.334048595	2.06292747	56773.6967	56773.6967	155.4260446	1.25	0.05	0.07	0.04	33.34
2013	SC	Construction and Mining	18	Other Construction Equipment	500	6477013.218	100.0095385	3.800766419	5.956644651	6476449.912	98.93316277	3.735817174	5.878852468	117717.1281	117717.1281	301.9342014	1.70	0.06	0.10	0.06	55.02
2013	SC	Construction and Mining	18	Other Construction Equipment	750	2515137.641	33.40403454	1.129472517	1.788366129	2515137.641	32.04083974	1.062514448	1.68177877	27561.64854	27561.64854	62.42521464	2.42	0.08	0.13	0.08	91.25
2013	SC	Construction and Mining	18	Other Construction Equipment	1000	293451.4069	4.379493876	0.11965739	0.19273343	293451.4069	4.379493876	0.11965739	0.19273343	2322.279377	2322.279377	5.520597213	3.77	0.10	0.17	0.09	126.36

**Table C.18 CARB Offroad 2011 output**  
Used to calculate NOx, PM, HC, and fuel consumption

CalendarYear	AirBasin	Equipment Class	Equipment TypeID	Equipment Type	HorsepowerBin	lb/yr	ton/yr	ton/yr	ton/yr	lb/yr	ton/yr	ton/yr	ton/yr	hr/yr	hr/yr	Emissions per Equipment (lb/hr)				lb/hr	
						BaseBSFC	BaseNOx	BasePM	BaseHC	ScenBSFC	ScenNOx	ScenPM	ScenHC	BaseActivity	ScenActivity	Population	NOx	PM	HC	PM2.5	BSFC per equipment
2013	SC	Construction and Mining	18	Other Construction Equipment	9999	182159.4229	3.715154477	0.12296535	0.202790407	182159.4229	3.715154477	0.12296535	0.202790407	1088.159375	1088.159375	2.547967945	6.83	0.23	0.37	0.21	167.40
2013	SC	Construction and Mining	19	Pavers	50	105966.6876	1.663927223	0.172366444	0.450155031	105966.6876	1.663927223	0.172366444	0.450155031	16105.28721	16105.28721	51.14114777	0.21	0.02	0.06	0.02	6.58
2013	SC	Construction and Mining	19	Pavers	120	1024410.267	19.95311914	1.552808994	1.822115603	1024403.255	19.90476632	1.549168915	1.816364891	84868.48413	84868.48413	248.4607429	0.47	0.04	0.04	0.03	12.07
2013	SC	Construction and Mining	19	Pavers	175	1392206.139	25.43574923	1.276454586	1.838847786	1392176.832	25.31594776	1.269802266	1.828262209	57700.83401	57700.83401	167.9134352	0.88	0.04	0.06	0.04	24.13
2013	SC	Construction and Mining	19	Pavers	250	940128.6191	11.90264569	0.299059512	0.480117231	940128.6191	11.89349803	0.298317256	0.479767737	28797.04612	28797.04612	72.44995934	0.83	0.02	0.03	0.02	32.65
2013	SC	Construction and Mining	19	Pavers	500	354285.5748	3.647471621	0.126258032	0.181270685	354285.5748	3.647471621	0.126258032	0.181270685	7167.931068	7167.931068	17.89940172	1.02	0.04	0.05	0.03	49.43
2013	SC	Construction and Mining	19	Pavers	750	40940.17936	0.297756274	0.012611069	0.016110322	40940.17936	0.297756274	0.012611069	0.016110322	358.0600939	358.0600939	0.852352463	1.66	0.07	0.09	0.06	114.34
2013	SC	Construction and Mining	20	Paving Equipment	50	131732.1891	1.909629027	0.166926663	0.339343584	131732.1891	1.901637495	0.164573994	0.330854005	26333.77499	26333.77499	62.97264929	0.15	0.01	0.03	0.01	5.00
2013	SC	Construction and Mining	20	Paving Equipment	120	598555.6204	11.98616013	0.913487456	1.058917009	598378.7438	11.93306974	0.909088734	1.052343128	51683.18147	51683.18147	128.4982438	0.46	0.04	0.04	0.03	11.58
2013	SC	Construction and Mining	20	Paving Equipment	175	563840.7769	9.519591811	0.460084795	0.627834145	563837.364	9.518902025	0.46003967	0.627638333	29243.22106	29243.22106	70.20599414	0.65	0.03	0.04	0.03	19.28
2013	SC	Construction and Mining	20	Paving Equipment	250	295756.6726	5.081977807	0.188143976	0.289196628	295774.2021	4.663475651	0.160168345	0.251216931	10518.21135	10518.21135	25.52945241	0.97	0.04	0.05	0.03	28.12
2013	SC	Construction and Mining	20	Paving Equipment	500	417090.8825	6.050919099	0.216082129	0.33446231	417044.7164	6.024899748	0.214088546	0.333421356	9508.591066	9508.591066	22.97650717	1.27	0.05	0.07	0.04	43.86
2013	SC	Construction and Mining	20	Paving Equipment	750	197780.9047	2.327609351	0.052964411	0.103485541	197780.9047	2.327609351	0.052964411	0.103485541	2507.659613	2507.659613	5.531381357	1.86	0.04	0.08	0.04	78.87
2013	SC	Construction and Mining	20	Paving Equipment	1000	38677.42344	0.868259731	0.025108546	0.047054303	38677.42344	0.868259731	0.025108546	0.047054303	352.0490424	352.0490424	0.850981747	4.93	0.14	0.27	0.13	109.86
2013	SC	Construction and Mining	21	Rollers	50	2174062.167	32.24246046	2.93336553	6.517190751	2174167.077	32.22765122	2.928661263	6.500988019	396974.2624	396974.2624	1292.038367	0.16	0.01	0.03	0.01	5.48
2013	SC	Construction and Mining	21	Rollers	120	3397932.767	69.13409424	5.167082224	6.231912045	3398348.365	68.55735741	5.118267941	6.162218061	282733.5396	282733.5396	963.5540363	0.49	0.04	0.04	0.03	12.02
2013	SC	Construction and Mining	21	Rollers	175	3509806.175	54.40565648	2.538071637	3.473527108	3509805.34	53.92450939	2.507029691	3.429653683	177344.7168	177344.7168	557.1094246	0.61	0.03	0.04	0.03	19.79
2013	SC	Construction and Mining	21	Rollers	250	554048.6168	9.866999829	0.353226046	0.571163483	554048.6168	9.866999829	0.353226046	0.571163483	18826.54203	18826.54203	68.32474075	1.05	0.04	0.06	0.03	29.43
2013	SC	Construction and Mining	21	Rollers	500	349125.8096	6.215762864	0.255980252	0.386611716	349125.8096	6.215762864	0.255980252	0.386611716	7491.866456	7491.866456	28.03066287	1.66	0.07	0.10	0.06	46.60
2013	SC	Construction and Mining	21	Rollers	750	17056.16266	0.438349678	0.016237822	0.025826656	17056.16266	0.438349678	0.016237822	0.025826656	237.618662	237.618662	0.875958215	3.69	0.14	0.22	0.13	71.78
2013	SC	Construction and Mining	22	Rough Terrain	50	110705.0264	1.594582368	0.13544397	0.295939156	110705.0264	1.594582368	0.13544397	0.295939156	14250.21338	14250.21338	58.6837897	0.22	0.02	0.04	0.02	7.77
2013	SC	Construction and Mining	22	Rough Terrain	120	8904048.328	131.9695897	8.019298075	8.767459526	8903605.528	131.5002675	7.977501377	8.715470044	625725.945	625725.945	2514.296852	0.42	0.03	0.03	0.02	14.23
2013	SC	Construction and Mining	22	Rough Terrain	175	1637109.831	19.62518454	0.776323584	1.004370775	1637109.831	19.2309349	0.753187539	0.970346429	85719.0386	85719.0386	336.4200013	0.46	0.02	0.02	0.02	19.10
2013	SC	Construction and Mining	22	Rough Terrain	250	134744.7867	2.562838699	0.113067884	0.172189058	134977.3849	1.936976018	0.074060805	0.117291172	4371.980743	4371.980743	19.72989481	1.17	0.05	0.08	0.05	30.87
2013	SC	Construction and Mining	22	Rough Terrain	500	57059.72357	0.799484876	0.024329984	0.040236814	57059.72357	0.799484876	0.024329984	0.040236814	1044.429082	1044.429082	4.553052649	1.53	0.05	0.08	0.04	54.63
2013	SC	Construction and Mining	22	Rough Terrain	750	8927.918458	0.403262178	0.021354832	0.032221847	8927.918458	0.034945431	0.000235644	0.001647388	96.82289868	96.82289868	0.505894739	8.33	0.44	0.67	0.41	92.21
2013	SC	Construction and Mining	23	Rubber Tired Dozers	50	95276.2989	1.730347471	0.226764212	0.633520506	95276.2989	1.730347471	0.226764212	0.633520506	14412.9667	14412.9667	17.09996773	0.24	0.03	0.09	0.03	6.61
2013	SC	Construction and Mining	23	Rubber Tired Dozers	120	454627.693	12.92098889	1.151199664	1.368668877	454627.693	12.92098889	1.151199664	1.368668877	38086.77618	38086.77618	50.88283082	0.68	0.06	0.07	0.06	11.94
2013	SC	Construction and Mining	23	Rubber Tired Dozers	175	380787.8193	11.19801878	0.639588813	0.901421856	380787.8193	11.19801878	0.639588813	0.901421856	17477.52073	17477.52073	26.27556018	1.28	0.07	0.10	0.07	21.79
2013	SC	Construction and Mining	23	Rubber Tired Dozers	250	397207.7026	9.609285066	0.468144388	0.707882089	397207.7026	9.609285066	0.468144388	0.707882089	12893.23408	12893.23408	20.4365468	1.49	0.07	0.11	0.07	30.81
2013	SC	Construction and Mining	23	Rubber Tired Dozers	500	4553619.623	112.1523491	5.24436532	8.071927465	4553619.623	112.1523491	5.24436532	8.071927465	87201.19176	87201.19176	136.3826695	2.57	0.12	0.19	0.11	52.22
2013	SC	Construction and Mining	23	Rubber Tired Dozers	750	534904.1199	12.00870018	0.440403252	0.714332054	534904.1199	12.00870018	0.440403252	0.714332054	6298.269836	6298.269836	8.341447675	3.81	0.14	0.23	0.13	84.93

**Table C.18 CARB Offroad 2011 output**  
Used to calculate NOx, PM, HC, and fuel consumption

CalendarYear	AirBasin	Equipment Class	Equipment TypeID	Equipment Type	HorsepowerBin	lb/yr	ton/yr	ton/yr	ton/yr	lb/yr	ton/yr	ton/yr	ton/yr	hr/yr	hr/yr	Emissions per Equipment (lb/hr)					lb/hr
						BaseBSFC	BaseNOx	BasePM	BaseHC	ScenBSFC	ScenNOx	ScenPM	ScenHC	BaseActivity	ScenActivity	Population	NOx	PM	HC	PM2.5	BSFC per equipment
2013	SC	Construction and Mining	24	Rubber Tired Loaders	50	301889.0159	5.062818635	0.568577712	1.477139706	301889.0159	5.046826443	0.567306356	1.476798866	49070.00759	49070.00759	64.33793734	0.21	0.02	0.06	0.02	6.15
2013	SC	Construction and Mining	24	Rubber Tired Loaders	120	7363535.799	167.8110627	14.67525547	16.96373401	7363116.933	167.0710346	14.61206281	16.87608206	650370.252	650370.252	799.8770588	0.52	0.05	0.05	0.04	11.32
2013	SC	Construction and Mining	24	Rubber Tired Loaders	175	17441417.11	347.4429849	19.40095046	27.43224531	17440849.99	346.6583027	19.33935563	27.35594561	877178.2909	877178.2909	1048.099777	0.79	0.04	0.06	0.04	19.88
2013	SC	Construction and Mining	24	Rubber Tired Loaders	250	24040563.41	417.4745559	14.24910039	25.02884005	24040563.41	417.2422037	14.23387949	25.00725697	883199.9471	883199.9471	931.5959441	0.95	0.03	0.06	0.03	27.22
2013	SC	Construction and Mining	24	Rubber Tired Loaders	500	31398601.04	523.1542022	19.91477056	34.38096909	31401370.94	519.5878065	19.71335076	34.10808542	744506.8111	744506.8111	865.5191436	1.41	0.05	0.09	0.05	42.18
2013	SC	Construction and Mining	24	Rubber Tired Loaders	750	5536630.651	85.91151991	3.425136402	5.862435875	5536630.651	85.71372569	3.409589582	5.848879179	71705.59425	71705.59425	76.50997954	2.40	0.10	0.16	0.09	77.21
2013	SC	Construction and Mining	24	Rubber Tired Loaders	1000	1612385.069	32.37276234	0.937047236	1.633852203	1612385.069	32.37026138	0.936859928	1.63269353	14547.97256	14547.97256	13.91090537	4.45	0.13	0.22	0.12	110.83
2013	SC	Construction and Mining	24	Rubber Tired Loaders	9999	641093.061	12.2508533	0.349546365	0.64748273	641093.061	12.2508533	0.349546365	0.64748273	3195.538622	3195.538622	3.04301055	7.67	0.22	0.41	0.20	200.62
2013	SC	Construction and Mining	25	Scrapers	50	6915.123919	0.125532976	0.016607717	0.048712762	6915.123919	0.125532976	0.016607717	0.048712762	976.2408187	976.2408187	3.007546068	0.26	0.03	0.10	0.03	7.08
2013	SC	Construction and Mining	25	Scrapers	120	315671.5915	6.554401758	0.484037132	0.546393266	315671.5915	6.554401758	0.484037132	0.546393266	20622.05286	20622.05286	43.39459327	0.64	0.05	0.05	0.04	15.31
2013	SC	Construction and Mining	25	Scrapers	175	3334611.76	82.35741895	4.33367235	6.150397269	3334360.864	82.19049531	4.323944219	6.136125289	111663.725	111663.725	278.8424855	1.48	0.08	0.11	0.07	29.86
2013	SC	Construction and Mining	25	Scrapers	250	3829867.451	106.5879062	4.899637194	7.424698586	3829867.451	106.5879062	4.899637194	7.424698586	96809.59231	96809.59231	270.6791462	2.20	0.10	0.15	0.09	39.56
2013	SC	Construction and Mining	25	Scrapers	500	33545116.95	658.7678638	26.68109736	41.49496405	33548024.06	655.6489847	26.51348271	41.26393585	496110.4579	496110.4579	1189.699295	2.66	0.11	0.17	0.10	67.62
2013	SC	Construction and Mining	25	Scrapers	750	15355587.48	247.1253418	9.455354887	14.86739632	15355351.87	245.8774261	9.373327284	14.78803187	153275.0301	153275.0301	338.9934069	3.22	0.12	0.19	0.11	100.18
2013	SC	Construction and Mining	25	Scrapers	1000	240039.7711	9.655323831	0.450166496	0.699336143	240039.7711	9.655323831	0.450166496	0.699336143	1427.204595	1427.204595	5.585442698	13.53	0.63	0.98	0.58	168.19
2013	SC	Construction and Mining	25	Scrapers	9999	872489.0405	18.5785022	0.690455628	1.054378654	872489.0405	18.5785022	0.690455628	1.054378654	2507.518929	2507.518929	5.585442698	14.82	0.55	0.84	0.51	347.95
2013	SC	Construction and Mining	26	Skid Steer Loaders	50	1642847.978	21.43217818	1.494941489	2.796293601	1642859.41	21.40196304	1.490848793	2.787408375	250186.0607	250186.0607	895.0994737	0.17	0.01	0.02	0.01	6.57
2013	SC	Construction and Mining	26	Skid Steer Loaders	120	8730087.481	116.559392	7.115758522	7.386879854	8729666.808	116.3950003	7.1017162	7.367926174	914471.492	914471.492	2888.548574	0.25	0.02	0.02	0.01	9.55
2013	SC	Construction and Mining	26	Skid Steer Loaders	175	59039.87679	0.774126287	0.035045229	0.046785081	59039.87679	0.774126287	0.035045229	0.046785081	2874.073547	2874.073547	11.98199593	0.54	0.02	0.03	0.02	20.54
2013	SC	Construction and Mining	26	Skid Steer Loaders	250	45360.60272	0.628428318	0.024888562	0.036754534	45348.6293	0.610349282	0.023628184	0.035831719	1699.186743	1699.186743	6.656664405	0.74	0.03	0.04	0.03	26.69
2013	SC	Construction and Mining	26	Skid Steer Loaders	500	12454.6044	0.117810509	0.004132758	0.007026125	12454.6044	0.117810509	0.004132758	0.007026125	341.8189076	341.8189076	1.331332881	0.69	0.02	0.04	0.02	36.44
2013	SC	Construction and Mining	26	Skid Steer Loaders	750	13137.96623	0.094323815	0.003866099	0.004436634	13137.96623	0.094323815	0.003866099	0.004436634	183.2941968	183.2941968	0.443777627	1.03	0.04	0.05	0.04	71.68
2013	SC	Construction and Mining	26	Skid Steer Loaders	1000	21438.80263	0.531048786	0.01904057	0.033868124	21438.80263	0.241937779	0.007514858	0.011127884	158.5247108	158.5247108	0.887555254	6.70	0.24	0.43	0.22	135.24
2013	SC	Construction and Mining	27	Surfacing Equipment	50	15130.91238	0.223127736	0.01841726	0.040721802	15130.91238	0.223127736	0.01841726	0.040721802	3398.94804	3398.94804	15.7013237	0.13	0.01	0.02	0.01	4.45
2013	SC	Construction and Mining	27	Surfacing Equipment	120	118870.7473	2.078682986	0.14830268	0.173604316	118870.7473	2.078682986	0.14830268	0.173604316	12126.18653	12126.18653	50.32475546	0.34	0.02	0.03	0.02	9.80
2013	SC	Construction and Mining	27	Surfacing Equipment	175	61600.84261	1.102819585	0.053616087	0.075960828	61610.41454	1.101121021	0.053047449	0.075801763	3693.60387	3693.60387	16.90911783	0.60	0.03	0.04	0.03	16.68
2013	SC	Construction and Mining	27	Surfacing Equipment	250	130775.636	2.300938417	0.073751529	0.119826292	130767.2605	2.286744967	0.072699038	0.119156519	5414.75326	5414.75326	25.36367675	0.85	0.03	0.04	0.03	24.15
2013	SC	Construction and Mining	27	Surfacing Equipment	500	413121.8587	5.108661294	0.163983353	0.25052066	413121.8587	5.108661294	0.163983353	0.25052066	10365.72257	10365.72257	41.87019654	0.99	0.03	0.05	0.03	39.85
2013	SC	Construction and Mining	27	Surfacing Equipment	750	382209.0908	3.98018861	0.125934205	0.171973068	382209.0908	3.98018861	0.125934205	0.171973068	5625.360669	5625.360669	20.93509827	1.42	0.04	0.06	0.04	67.94
2013	SC	Construction and Mining	27	Surfacing Equipment	1000	62334.70836	1.066732554	0.025916815	0.04545705	62334.70836	1.066732554	0.025916815	0.04545705	689.3779667	689.3779667	2.818186306	3.09	0.08	0.13	0.07	90.42
2013	SC	Construction and Mining	27	Surfacing Equipment	9999	21849.30455	0.254633787	0.005696876	0.008813351	21849.30455	0.254633787	0.005696876	0.008813351	175.8275917	175.8275917	0.805196087	2.90	0.06	0.10	0.06	124.27
2013	SC	Construction and Mining	28	Tractors/Loaders/Backhoes	50	3244567.065	49.34677347	4.677590951	10.71309749	3247333.288	49.24110633	4.646405455	10.61932757	574670.8121	574670.8121	1252.624006	0.17	0.02	0.04	0.01	5.65
2013	SC	Construction and Mining	28	Tractors/Loaders/Backhoes	120	52619865.1	918.1092284	73.16541456	79.93931284	52618358.93	916.4157262	72.98929909	79.72613517	4640848.112	4640848.112	8505.186065	0.40	0.03	0.03	0.03	11.34

**Table C.18 CARB Offroad 2011 output**  
Used to calculate NOx, PM, HC, and fuel consumption

CalendarYear	AirBasin	Equipment Class	EquipmentTypeID	Equipment Type	HorsepowerBin	lb/yr	ton/yr	ton/yr	ton/yr	lb/yr	ton/yr	ton/yr	ton/yr	hr/yr	hr/yr	Population	Emissions per Equipment (lb/hr)				lb/hr
						BaseBSFC	BaseNOx	BasePM	BaseHC	ScenBSFC	ScenNOx	ScenPM	ScenHC	BaseActivity	ScenActivity		NOx	PM	HC	PM2.5	BSFC per equipment
2013	SC	Construction and Mining	28	Tractors/Loaders/Backhoes	175	9079950.831	146.0601603	7.393401671	10.26559151	9079858.294	145.9727298	7.384375013	10.25654199	468723.738	468723.738	951.4704994	0.62	0.03	0.04	0.03	19.37
2013	SC	Construction and Mining	28	Tractors/Loaders/Backhoes	250	5260790.051	82.91329323	2.675011404	4.460779772	5260772.484	82.7064744	2.661665181	4.445955253	190947.6544	190947.6544	380.5881998	0.87	0.03	0.05	0.03	27.55
2013	SC	Construction and Mining	28	Tractors/Loaders/Backhoes	500	7091781.651	101.6057347	3.454383135	5.712684695	7089868.252	101.3801757	3.443396569	5.696898616	163318.8487	163318.8487	343.4895794	1.24	0.04	0.07	0.04	43.41
2013	SC	Construction and Mining	28	Tractors/Loaders/Backhoes	750	997636.1246	13.11880777	0.471078289	0.754050097	997636.1246	13.11880777	0.471078289	0.754050097	13022.45185	13022.45185	24.00498966	2.01	0.07	0.12	0.07	76.61
2013	SC	Construction and Mining	28	Tractors/Loaders/Backhoes	1000	169119.8667	2.197551248	0.041164224	0.084800626	169119.8667	2.197551248	0.041164224	0.084800626	1420.195492	1420.195492	2.182271788	3.09	0.06	0.12	0.05	119.08
2013	SC	Construction and Mining	28	Tractors/Loaders/Backhoes	9999	2371925.483	41.44425102	1.290518055	2.070588652	2371925.483	40.78007193	1.271187559	2.055276859	8731.696424	8731.696424	16.14881123	9.49	0.30	0.47	0.27	271.65
2013	SC	Construction and Mining	29	Trenchers	50	1152400.619	17.05267857	1.576000103	3.305690968	1152408.205	17.05247694	1.575989357	3.305560823	140459.2853	140459.2853	410.7784947	0.24	0.02	0.05	0.02	8.20
2013	SC	Construction and Mining	29	Trenchers	120	834948.6257	18.54041911	1.449951959	1.74697922	834942.075	18.53532878	1.448849383	1.746574735	54736.05204	54736.05204	190.4518475	0.68	0.05	0.06	0.05	15.25
2013	SC	Construction and Mining	29	Trenchers	175	170241.6234	4.383352683	0.22749474	0.328395304	170241.6234	4.383352683	0.22749474	0.328395304	6475.397867	6475.397867	25.20686217	1.35	0.07	0.10	0.06	26.29
2013	SC	Construction and Mining	29	Trenchers	250	333740.927	7.062079316	0.277710679	0.436300953	333684.8594	7.039421106	0.276076681	0.43537549	8265.285158	8265.285158	29.87479961	1.71	0.07	0.11	0.06	40.37
2013	SC	Construction and Mining	29	Trenchers	500	563622.2363	7.794315497	0.287731144	0.442559892	563622.2363	7.794315497	0.287731144	0.442559892	8528.201601	8528.201601	27.07403715	1.83	0.07	0.10	0.06	66.09
2013	SC	Construction and Mining	29	Trenchers	750	254160.3949	1.560164542	0.053440665	0.076068041	254160.3949	1.560164542	0.053440665	0.076068041	2212.702501	2212.702501	5.601524928	1.41	0.05	0.07	0.04	114.86
2013	SC	Construction and Mining	29	Trenchers	1000	15011.43428	0.589720816	0.026618812	0.041928362	15011.43428	0.589720816	0.026618812	0.041928362	94.65021561	94.65021561	0.466793744	12.46	0.56	0.89	0.52	158.60
2013	SC	Construction and Mining	36	Sweepers/Scrubbers	50	1001759.047	15.67966632	1.650743731	4.010842865	1001759.047	15.64857525	1.643797826	3.988368603	151285.5927	151285.5927	241.1137887	0.21	0.02	0.05	0.02	6.62
2013	SC	Construction and Mining	36	Sweepers/Scrubbers	120	1548251.828	33.09628814	2.897515324	3.279124465	1548251.828	33.09450851	2.89737466	3.278215425	118919.1404	118919.1404	196.3050315	0.56	0.05	0.06	0.04	13.02
2013	SC	Construction and Mining	36	Sweepers/Scrubbers	175	386195.8507	11.29980852	0.632727116	0.9017991	386195.8507	11.29980852	0.632727116	0.9017991	14450.84264	14450.84264	22.61775363	1.56	0.09	0.12	0.08	26.72
2013	SC	Construction and Mining	36	Sweepers/Scrubbers	250	205826.8226	4.136298953	0.163242909	0.25469607	205826.8226	4.136298953	0.163242909	0.25469607	6046.855929	6046.855929	9.388501508	1.37	0.05	0.08	0.05	34.04
2013	SC	Construction and Mining	36	Sweepers/Scrubbers	500	57422.9915	1.034340138	0.044448612	0.063919177	57422.9915	1.034340138	0.044448612	0.063919177	1135.300045	1135.300045	1.707000274	1.82	0.08	0.11	0.07	50.58
2013	SC	Construction and Mining	36	Sweepers/Scrubbers	1000	40243.55107	0.483459377	0.012045228	0.014412189	40243.55107	0.483459377	0.012045228	0.014412189	283.8250112	283.8250112	0.426750069	3.41	0.08	0.10	0.08	141.79
2014	SC	Construction and Mining	11	Bore/Drill Rigs	50	102029.835	1.427443691	0.102210108	0.184513466	102029.835	1.427443691	0.102210108	0.184513466	12305.44448	12305.44448	38.38212172	0.23	0.02	0.03	0.02	8.29
2014	SC	Construction and Mining	11	Bore/Drill Rigs	120	620294.49	8.1734223	0.487842171	0.517921021	622756.2827	8.086033248	0.480116968	0.507938339	42265.91326	42265.91326	117.5704992	0.39	0.02	0.02	0.02	14.73
2014	SC	Construction and Mining	11	Bore/Drill Rigs	175	730687.4414	8.798429537	0.403309101	0.550680106	730688.2127	8.796662316	0.402455583	0.550498518	26297.36524	26297.36524	92.11709213	0.67	0.03	0.04	0.03	27.79
2014	SC	Construction and Mining	11	Bore/Drill Rigs	250	1031635.218	11.28785915	0.338819899	0.576889207	1030716.458	11.00295679	0.327463048	0.560643158	27128.13659	27128.13659	91.7130698	0.83	0.02	0.04	0.02	37.99
2014	SC	Construction and Mining	11	Bore/Drill Rigs	500	1150822.912	11.57006724	0.37400483	0.611615391	1150204.943	11.23534397	0.355968229	0.588120997	18231.58029	18231.58029	64.23955109	1.27	0.04	0.07	0.04	63.09
2014	SC	Construction and Mining	11	Bore/Drill Rigs	750	1583340.066	11.27089569	0.383379188	0.617134005	1582810.27	11.09778774	0.376297393	0.606385611	13795.28286	13795.28286	31.91776438	1.63	0.06	0.09	0.05	114.74
2014	SC	Construction and Mining	11	Bore/Drill Rigs	1000	124527.8303	1.116314868	0.02180558	0.032459708	124527.8303	1.116314868	0.02180558	0.032459708	734.8191332	734.8191332	1.212067002	3.04	0.06	0.09	0.05	169.47
2014	SC	Construction and Mining	11	Bore/Drill Rigs	9999	421923.1367	5.379949523	0.130529436	0.179225459	421923.1367	5.379949523	0.130529436	0.179225459	857.9509877	857.9509877	1.212067002	12.54	0.30	0.42	0.28	491.78
2014	SC	Construction and Mining	12	Cranes	50	33259.476	0.554625655	0.055277153	0.159082201	33259.476	0.554625655	0.055277153	0.159082201	7054.608955	7054.608955	17.77875908	0.16	0.02	0.05	0.01	4.71
2014	SC	Construction and Mining	12	Cranes	120	793263.1161	25.07752683	1.863242548	2.51171	793263.1161	24.66958966	1.831737179	2.46365002	84777.88095	84777.88095	214.3610381	0.59	0.04	0.06	0.04	9.36
2014	SC	Construction and Mining	12	Cranes	175	2093787.492	53.21766994	2.876763187	4.121826546	2093675.461	52.97224649	2.858116534	4.100391461	133158.1391	133158.1391	321.5415571	0.80	0.04	0.06	0.04	15.72
2014	SC	Construction and Mining	12	Cranes	250	3536891.175	84.22960618	3.876943138	5.864098809	3536588.952	83.32619756	3.819180041	5.788725241	153828.6619	153828.6619	361.1627916	1.10	0.05	0.08	0.05	22.99
2014	SC	Construction and Mining	12	Cranes	500	5417872.123	103.2631608	4.29136255	6.589250037	5417071.855	101.9329847	4.224058665	6.493785635	152449.9579	152449.9579	346.4318198	1.35	0.06	0.09	0.05	35.53
2014	SC	Construction and Mining	12	Cranes	750	1427818.869	18.5952702	0.647707293	0.993995853	1427818.869	18.5952702	0.647707293	0.993995853	23856.25167	23856.25167	50.79645452	1.56	0.05	0.08	0.05	59.85



**Table C.18 CARB Offroad 2011 output**  
Used to calculate NOx, PM, HC, and fuel consumption

CalendarYear	AirBasin	Equipment Class	Equipment TypeID	Equipment Type	HorsepowerBin	lb/yr	ton/yr	ton/yr	ton/yr	lb/yr	ton/yr	ton/yr	ton/yr	hr/yr	hr/yr	Emissions per Equipment (lb/hr)					lb/hr
						BaseBSFC	BaseNOx	BasePM	BaseHC	ScenBSFC	ScenNOx	ScenPM	ScenHC	BaseActivity	ScenActivity	Population	NOx	PM	HC	PM2.5	BSFC per equipment
2014	SC	Construction and Mining	12	Cranes	1000	334209.7667	11.73157501	0.581463413	0.869539282	334209.7667	11.73157501	0.581463413	0.869539282	3391.302094	3391.302094	7.619468178	6.92	0.34	0.51	0.32	98.55
2014	SC	Construction and Mining	12	Cranes	9999	25741.21027	0.176337445	0.004204078	0.007693804	25741.21027	0.176337445	0.004204078	0.007693804	236.3645899	236.3645899	0.507964545	1.49	0.04	0.07	0.03	108.90
2014	SC	Construction and Mining	13	Crawler Tractors	50	101358.6259	1.786135039	0.208421493	0.585189501	101358.6259	1.781823814	0.207105005	0.580468305	13865.04799	13865.04799	45.084492	0.26	0.03	0.08	0.03	7.31
2014	SC	Construction and Mining	13	Crawler Tractors	120	4494533.828	100.9205533	8.43833356	9.807755662	4492586.371	100.4661626	8.391196586	9.750829876	325227.3749	325227.3749	775.9041073	0.62	0.05	0.06	0.05	13.81
2014	SC	Construction and Mining	13	Crawler Tractors	175	4885752.503	102.0759717	5.569431288	7.7334171	4886106.976	100.9486705	5.494997373	7.629789096	207717.6923	207717.6923	507.6513799	0.98	0.05	0.07	0.05	23.52
2014	SC	Construction and Mining	13	Crawler Tractors	250	4927913.681	93.25536682	3.625545859	5.634092017	4929475.33	92.1035021	3.559539061	5.540856999	154006.7608	154006.7608	371.0453691	1.21	0.05	0.07	0.04	32.01
2014	SC	Construction and Mining	13	Crawler Tractors	500	13228906.13	224.8090081	8.735093559	13.68111017	13214538.17	221.2435903	8.556535971	13.41791273	244636.4304	244636.4304	596.4678291	1.84	0.07	0.11	0.07	54.02
2014	SC	Construction and Mining	13	Crawler Tractors	750	5143069.01	75.63295441	2.763588784	4.434113086	5143069.01	75.43234242	2.751906775	4.416655321	57188.94072	57188.94072	122.1789733	2.65	0.10	0.16	0.09	89.93
2014	SC	Construction and Mining	13	Crawler Tractors	1000	680544.3282	15.08042703	0.443114079	0.797690718	680544.3282	15.08042703	0.443114079	0.797690718	5187.953588	5187.953588	10.82027808	5.81	0.17	0.31	0.16	131.18
2014	SC	Construction and Mining	13	Crawler Tractors	9999	359701.2299	6.778986168	0.178118845	0.313196194	359701.2299	6.778986168	0.178118845	0.313196194	1558.216768	1558.216768	2.70506952	8.70	0.23	0.40	0.21	230.84
2014	SC	Construction and Mining	14	Excavators	50	4057813.106	54.36927011	4.165084567	7.471357007	4057813.151	54.34620327	4.161736468	7.463680433	727548.3927	727548.3927	1104.224455	0.15	0.01	0.02	0.01	5.58
2014	SC	Construction and Mining	14	Excavators	120	5270203.475	82.45031205	6.159196387	6.829804431	5270148.028	82.07281084	6.115617941	6.780992623	464601.9718	464601.9718	798.6756493	0.35	0.03	0.03	0.02	11.34
2014	SC	Construction and Mining	14	Excavators	175	11100212.2	156.4700472	7.715888884	10.85535058	11100392.26	155.1877893	7.627791831	10.74148246	542031.2135	542031.2135	1014.72939	0.58	0.03	0.04	0.03	20.48
2014	SC	Construction and Mining	14	Excavators	250	14122820.1	189.209308	6.115174692	10.61995735	14121643.07	185.2721645	5.878019785	10.29966221	460571.8913	460571.8913	872.350879	0.82	0.03	0.05	0.02	30.66
2014	SC	Construction and Mining	14	Excavators	500	23425471.86	242.6312044	7.946568434	14.0101599	23429923.14	236.602282	7.624577794	13.56941322	510068.9817	510068.9817	887.266723	0.95	0.03	0.05	0.03	45.93
2014	SC	Construction and Mining	14	Excavators	750	2119364.654	22.60210077	0.722019811	1.252677029	2119432.036	22.74740457	0.73429335	1.267304576	26404.82863	26404.82863	45.19952741	1.71	0.05	0.09	0.05	80.27
2014	SC	Construction and Mining	14	Excavators	1000	237786.7272	4.677335989	0.14947515	0.247815138	237786.7272	3.957838633	0.105385778	0.183052463	2019.454831	2019.454831	3.615962193	4.63	0.15	0.25	0.14	117.75
2014	SC	Construction and Mining	14	Excavators	9999	463507.9145	5.051937369	0.130384177	0.234586811	463507.9145	5.051937369	0.130384177	0.234586811	2127.915181	2127.915181	3.163966918	4.75	0.12	0.22	0.11	217.82
2014	SC	Construction and Mining	15	Graders	50	26800.74842	0.505246729	0.066896322	0.197233937	26800.74842	0.505246729	0.066896322	0.197233937	4372.38471	4372.38471	14.08324342	0.23	0.03	0.09	0.03	6.13
2014	SC	Construction and Mining	15	Graders	120	724388.3148	22.08452607	1.839311461	2.323788001	723659.7017	21.7573755	1.812801469	2.285480423	53148.80807	53148.80807	149.9183977	0.83	0.07	0.09	0.06	13.62
2014	SC	Construction and Mining	15	Graders	175	6725492.375	173.0358862	9.727853923	13.93364934	6722959.792	171.9925495	9.652684492	13.83350443	296532.8306	296532.8306	701.4363821	1.17	0.07	0.09	0.06	22.67
2014	SC	Construction and Mining	15	Graders	250	11674559.15	199.2184305	6.436077735	11.18267322	11674502.86	199.0801852	6.428016489	11.17246734	376727.5286	376727.5286	556.9695625	1.06	0.03	0.06	0.03	30.99
2014	SC	Construction and Mining	15	Graders	500	3329171.652	37.27581446	1.434680438	2.605993986	3329171.652	37.08188468	1.424788141	2.59180177	75600.48665	75600.48665	104.0342821	0.99	0.04	0.07	0.03	44.04
2014	SC	Construction and Mining	15	Graders	1000	32190.8072	0.898448322	0.031267945	0.056694421	32190.8072	0.898448322	0.031267945	0.056694421	269.6175123	269.6175123	0.454298175	6.66	0.23	0.42	0.21	119.39
2014	SC	Construction and Mining	15	Graders	9999	453474.6549	8.944684171	0.269765955	0.493014727	453474.6549	8.944684171	0.269765955	0.493014727	1519.880233	1519.880233	2.271490875	11.77	0.35	0.65	0.33	298.36
2014	SC	Construction and Mining	16	Off-Highway Tractors	50	1675474.253	26.13046716	2.643101812	6.426945231	1676157.198	25.58843275	2.525210693	6.088589321	251151.7988	251151.7988	422.9644853	0.21	0.02	0.05	0.02	6.67
2014	SC	Construction and Mining	16	Off-Highway Tractors	120	2145691.664	41.61594523	3.431148915	3.865967944	2144188.92	40.12417458	3.279424932	3.685810255	178557.5495	178557.5495	307.5294993	0.47	0.04	0.04	0.04	12.01
2014	SC	Construction and Mining	16	Off-Highway Tractors	175	1828750.28	27.81297928	1.431073708	1.94649767	1828926.517	27.52396183	1.411647861	1.919978282	72176.18131	72176.18131	116.7720708	0.77	0.04	0.05	0.04	25.34
2014	SC	Construction and Mining	16	Off-Highway Tractors	250	1530280.329	26.17323056	0.940788964	1.546507051	1530272.616	26.13390593	0.937741892	1.543846692	44970.9137	44970.9137	76.21383244	1.16	0.04	0.07	0.04	34.03
2014	SC	Construction and Mining	16	Off-Highway Tractors	500	4323096.921	52.49861624	1.883484348	3.098294613	4322851.965	51.22769927	1.806650373	3.009161095	80966.16678	80966.16678	131.0343084	1.30	0.05	0.08	0.04	53.39
2014	SC	Construction and Mining	16	Off-Highway Tractors	750	1087078.27	13.2010156	0.443677923	0.728040667	1086850.658	13.07224074	0.433807504	0.718696671	11850.36749	11850.36749	19.16488184	2.23	0.07	0.12	0.07	91.71
2014	SC	Construction and Mining	16	Off-Highway Tractors	1000	30805.59475	1.135515464	0.057772287	0.0793836	30805.59475	0.21090426	0.005021745	0.006468234	192.7415621	192.7415621	0.445694927	11.78	0.60	0.82	0.55	159.83
2014	SC	Construction and Mining	16	Off-Highway Tractors	9999	240377.1913	7.244848559	0.272434108	0.478446472	252423.628	4.309682899	0.137988127	0.241318807	894.9268278	894.9268278	1.782779706	16.19	0.61	1.07	0.56	282.06

**Table C.18 CARB Offroad 2011 output**  
Used to calculate NOx, PM, HC, and fuel consumption

CalendarYear	AirBasin	Equipment Class	Equipment TypeID	Equipment Type	HorsepowerBin	lb/yr	ton/yr	ton/yr	ton/yr	lb/yr	ton/yr	ton/yr	ton/yr	hr/yr	hr/yr	Emissions per Equipment (lb/hr)					lb/hr
						BaseBSFC	BaseNOx	BasePM	BaseHC	ScenBSFC	ScenNOx	ScenPM	ScenHC	BaseActivity	ScenActivity	Population	NOx	PM	HC	PM2.5	BSFC per equipment
2014	SC	Construction and Mining	17	Off-Highway Trucks	50	160512.3164	2.601876214	0.270729908	0.612379832	160512.3164	2.601876214	0.270729908	0.612379832	36486.62608	36486.62608	25.17227118	0.14	0.01	0.03	0.01	4.40
2014	SC	Construction and Mining	17	Off-Highway Trucks	120	197014.7903	3.576765029	0.29011071	0.353703385	197014.7903	3.39049968	0.274871802	0.3325696	16376.21407	16376.21407	14.13180136	0.44	0.04	0.04	0.03	12.03
2014	SC	Construction and Mining	17	Off-Highway Trucks	175	3809188.829	60.27963934	3.378792486	4.895490107	3809188.829	60.01368022	3.358981912	4.872492847	171908.5613	171908.5613	135.1353505	0.70	0.04	0.06	0.04	22.16
2014	SC	Construction and Mining	17	Off-Highway Trucks	250	7815225.356	136.0432896	6.010510819	10.02869198	7811856.382	128.6142586	5.566148825	9.434129362	266093.5242	266093.5242	231.4082473	1.02	0.05	0.08	0.04	29.36
2014	SC	Construction and Mining	17	Off-Highway Trucks	500	33225045.56	476.8699717	18.50955922	33.13392744	33241097.13	463.8670354	17.77333109	32.1881087	631436.8508	631436.8508	514.0442745	1.51	0.06	0.10	0.05	52.64
2014	SC	Construction and Mining	17	Off-Highway Trucks	750	11929520.87	217.393976	9.298051349	15.69993652	11911574.8	197.813377	8.182186103	14.20904177	128428.4681	128428.4681	117.4705988	3.39	0.14	0.24	0.13	92.75
2014	SC	Construction and Mining	17	Off-Highway Trucks	1000	8250388.373	159.7535159	4.709230256	8.642074831	8245540.692	157.5528119	4.634679206	8.47927957	65531.00835	65531.00835	53.87749269	4.88	0.14	0.26	0.13	125.83
2014	SC	Construction and Mining	17	Off-Highway Trucks	9999	11849348.47	209.2981793	6.558453171	12.36900431	11841368.71	207.6911379	6.497712392	12.22081151	47603.76583	47603.76583	34.88788461	8.79	0.28	0.52	0.25	248.75
2014	SC	Construction and Mining	18	Other Construction Equipment	50	908873.4301	13.55753426	1.223572985	2.618488301	908873.4301	13.55753426	1.223572985	2.618488301	139974.3147	139974.3147	326.6306613	0.19	0.02	0.04	0.02	6.49
2014	SC	Construction and Mining	18	Other Construction Equipment	120	2840536.086	56.95958168	4.448881699	5.175682446	2840418.803	56.73584559	4.42805302	5.149714526	229033.871	229033.871	576.3294711	0.50	0.04	0.05	0.04	12.40
2014	SC	Construction and Mining	18	Other Construction Equipment	175	1548571.841	30.39384043	1.608217058	2.245415378	1548931.915	29.76408835	1.556457919	2.187143246	66898.23386	66898.23386	179.3611169	0.91	0.05	0.07	0.04	23.15
2014	SC	Construction and Mining	18	Other Construction Equipment	250	1986659.227	34.68920899	1.285804847	2.017888086	1987041.454	34.19731848	1.25775903	1.985949938	59660.71364	59660.71364	160.8974725	1.16	0.04	0.07	0.04	33.31
2014	SC	Construction and Mining	18	Other Construction Equipment	500	6786901.075	95.84004098	3.605821484	5.782579626	6786087.394	92.1920751	3.396591758	5.505660448	123703.1985	123703.1985	312.5631228	1.55	0.06	0.09	0.05	54.86
2014	SC	Construction and Mining	18	Other Construction Equipment	750	2643740.937	33.77951992	1.147602654	1.84984481	2643840.595	30.66125578	0.981143443	1.605794257	28963.19451	28963.19451	64.62275534	2.33	0.08	0.13	0.07	91.28
2014	SC	Construction and Mining	18	Other Construction Equipment	1000	308351.4827	4.124496295	0.108384665	0.1696617	308351.4827	4.117627364	0.108061258	0.168641214	2440.370329	2440.370329	5.714937547	3.38	0.09	0.14	0.08	126.35
2014	SC	Construction and Mining	18	Other Construction Equipment	9999	191912.852	3.130953362	0.085997114	0.144716894	192033.223	2.898109549	0.079533397	0.137609667	1143.493707	1143.493707	2.637663483	5.48	0.15	0.25	0.14	167.94
2014	SC	Construction and Mining	19	Pavers	50	111304.5094	1.711211605	0.17797693	0.469544558	111304.5094	1.711211605	0.17797693	0.469544558	16924.26219	16924.26219	52.94145801	0.20	0.02	0.06	0.02	6.58
2014	SC	Construction and Mining	19	Pavers	120	1077308.362	20.2396228	1.577590993	1.846050582	1077301.199	20.14566456	1.568768313	1.83483555	89184.15786	89184.15786	257.2072502	0.45	0.04	0.04	0.03	12.08
2014	SC	Construction and Mining	19	Pavers	175	1462117.844	25.31211107	1.266525486	1.834125963	1462086.306	25.18565761	1.259474118	1.823035248	60634.99709	60634.99709	173.8244538	0.83	0.04	0.06	0.04	24.11
2014	SC	Construction and Mining	19	Pavers	250	987602.3356	12.24187641	0.31122855	0.507952184	987602.3356	12.23221695	0.310433488	0.507569507	30261.41368	30261.41368	75.00039885	0.81	0.02	0.03	0.02	32.64
2014	SC	Construction and Mining	19	Pavers	500	372706.4994	3.440969843	0.114266752	0.168074481	372706.4994	3.440969843	0.114266752	0.168074481	7532.429764	7532.429764	18.52951031	0.91	0.03	0.04	0.03	49.48
2014	SC	Construction and Mining	19	Pavers	750	43022.04118	0.314334979	0.013464061	0.017787809	43022.04118	0.314334979	0.013464061	0.017787809	376.2679193	376.2679193	0.882357634	1.67	0.07	0.09	0.07	114.34
2014	SC	Construction and Mining	20	Paving Equipment	50	138405.4903	1.967924525	0.168473869	0.341800457	138408.8368	1.955060697	0.16475534	0.328306377	27672.88199	27672.88199	65.18946121	0.14	0.01	0.02	0.01	5.00
2014	SC	Construction and Mining	20	Paving Equipment	120	629020.0291	12.12466438	0.926012139	1.068887591	628846.9513	11.99727253	0.914995791	1.053526339	54311.33903	54311.33903	133.0217384	0.45	0.03	0.04	0.03	11.58
2014	SC	Construction and Mining	20	Paving Equipment	175	592496.4321	9.356903319	0.449699464	0.616103796	592495.571	9.310713789	0.444176101	0.612450111	30730.2772	30730.2772	72.67743986	0.61	0.03	0.04	0.03	19.28
2014	SC	Construction and Mining	20	Paving Equipment	250	310797.3278	4.978826679	0.180571363	0.282707596	310816.0468	4.462310328	0.147770591	0.239123875	11053.07619	11053.07619	26.42815995	0.90	0.03	0.05	0.03	28.12
2014	SC	Construction and Mining	20	Paving Equipment	500	438276.3265	6.144458674	0.220008665	0.344740767	438227.0231	6.116913781	0.217866448	0.343595364	9992.115393	9992.115393	23.78534395	1.23	0.04	0.07	0.04	43.86
2014	SC	Construction and Mining	20	Paving Equipment	750	207840.5829	2.459275403	0.056594975	0.112446718	207840.5829	2.459275403	0.056594975	0.112446718	2635.177393	2635.177393	5.726101322	1.87	0.04	0.09	0.04	78.87
2014	SC	Construction and Mining	20	Paving Equipment	1000	40644.22115	0.557528717	0.013486739	0.022009607	40644.22115	0.557528717	0.013486739	0.022009607	369.9511979	369.9511979	0.880938665	3.01	0.07	0.12	0.07	109.86

**Table C.18 CARB Offroad 2011 output**  
Used to calculate NOx, PM, HC, and fuel consumption

CalendarYear	AirBasin	Equipment Class	EquipmentTypeID	Equipment Type	HorsepowerBin	lb/yr	ton/yr	ton/yr	ton/yr	lb/yr	ton/yr	ton/yr	ton/yr	hr/yr	hr/yr	Emissions per Equipment (lb/hr)					lb/hr
						BaseBSFC	BaseNOx	BasePM	BaseHC	ScenBSFC	ScenNOx	ScenPM	ScenHC	BaseActivity	ScenActivity	Population	NOx	PM	HC	PM2.5	BSFC per equipment
2014	SC	Construction and Mining	21	Rollers	50	2284238.567	33.30203375	2.996870195	6.711637103	2284141.805	33.19837428	2.976754015	6.654525919	417160.9243	417160.9243	1337.521701	0.16	0.01	0.03	0.01	5.48
2014	SC	Construction and Mining	21	Rollers	120	3568014.896	68.96216089	5.148884376	6.219880408	3568447.206	68.20869379	5.079375616	6.13049336	297110.9109	297110.9109	997.4738109	0.46	0.03	0.04	0.03	12.01
2014	SC	Construction and Mining	21	Rollers	175	3689552.867	53.21465536	2.485881731	3.44697031	3689309.319	52.34910172	2.428026757	3.369113893	186362.9282	186362.9282	576.7212216	0.57	0.03	0.04	0.02	19.80
2014	SC	Construction and Mining	21	Rollers	250	582222.1088	9.210085574	0.326414998	0.532694855	582257.6948	9.428415009	0.33402711	0.549691345	19783.89639	19783.89639	70.72996114	0.93	0.03	0.05	0.03	29.43
2014	SC	Construction and Mining	21	Rollers	500	366834.8513	6.414308404	0.264182305	0.402254447	366834.8513	5.651719922	0.219747445	0.340455798	7872.837692	7872.837692	29.01741995	1.63	0.07	0.10	0.06	46.59
2014	SC	Construction and Mining	21	Rollers	750	17923.4909	0.462332574	0.017217827	0.02732069	17923.4909	0.462332574	0.017217827	0.02732069	249.7018827	249.7018827	0.906794374	3.70	0.14	0.22	0.13	71.78
2014	SC	Construction and Mining	22	Rough Terrain	50	116337.9977	1.639869996	0.136767847	0.306516431	116337.9977	1.639869996	0.136767847	0.306516431	14974.85542	14974.85542	60.74962186	0.22	0.02	0.04	0.02	7.77
2014	SC	Construction and Mining	22	Rough Terrain	120	9356548.812	126.3925872	7.412706562	8.247911301	9356003.383	125.3859828	7.324458686	8.13542711	657544.93	657544.93	2602.807075	0.38	0.02	0.03	0.02	14.23
2014	SC	Construction and Mining	22	Rough Terrain	175	1720384.675	19.239256	0.759565967	1.001042288	1720384.675	18.59315271	0.721376665	0.946461222	90077.96414	90077.96414	348.2629184	0.43	0.02	0.02	0.02	19.10
2014	SC	Construction and Mining	22	Rough Terrain	250	141538.223	2.590192029	0.114611146	0.175264305	141502.7293	1.265343196	0.036935967	0.065267161	4594.301698	4594.301698	20.42444183	1.13	0.05	0.08	0.05	30.80
2014	SC	Construction and Mining	22	Rough Terrain	500	59958.07586	0.844470243	0.025822658	0.042878474	59958.07586	0.636395662	0.013846461	0.025567093	1097.539671	1097.539671	4.713332731	1.54	0.05	0.08	0.04	54.63
2014	SC	Construction and Mining	22	Rough Terrain	750	9381.914822	0.424921298	0.022591277	0.034028512	9381.914822	0.036847315	0.000250032	0.001830328	101.7464701	101.7464701	0.523703637	8.35	0.44	0.67	0.41	92.21
2014	SC	Construction and Mining	23	Rubber Tired Dozers	50	100113.8586	1.825874234	0.240592807	0.671815695	100113.8586	1.825874234	0.240592807	0.671815695	15145.88496	15145.88496	17.70193403	0.24	0.03	0.09	0.03	6.61
2014	SC	Construction and Mining	23	Rubber Tired Dozers	120	477801.5906	13.62296507	1.219299521	1.448949031	477801.5906	13.62296507	1.219299521	1.448949031	40023.5387	40023.5387	52.67404759	0.68	0.06	0.07	0.06	11.94
2014	SC	Construction and Mining	23	Rubber Tired Dozers	175	400137.9513	11.78024118	0.674103551	0.951164533	400137.9513	11.78024118	0.674103551	0.951164533	18366.27558	18366.27558	27.20053277	1.28	0.07	0.10	0.07	21.79
2014	SC	Construction and Mining	23	Rubber Tired Dozers	250	417409.83	9.930058307	0.488863248	0.742511081	417409.83	9.930058307	0.488863248	0.742511081	13548.87194	13548.87194	21.15596993	1.47	0.07	0.11	0.07	30.81
2014	SC	Construction and Mining	23	Rubber Tired Dozers	500	4782569.092	114.9365885	5.364799564	8.337488678	4780009.037	113.9197692	5.311519516	8.26324361	91635.48673	91635.48673	141.1837177	2.51	0.12	0.18	0.11	52.16
2014	SC	Construction and Mining	23	Rubber Tired Dozers	750	562096.1294	12.63703592	0.464537981	0.757241986	562096.1294	12.03948541	0.434020464	0.714344265	6618.545118	6618.545118	8.635089769	3.82	0.14	0.23	0.13	84.93
2014	SC	Construction and Mining	24	Rubber Tired Loaders	50	316927.7511	5.27757401	0.586723206	1.516806665	316920.1497	5.233410053	0.579464537	1.49848213	51565.28184	51565.28184	66.60281118	0.20	0.02	0.06	0.02	6.15
2014	SC	Construction and Mining	24	Rubber Tired Loaders	120	7724494.578	169.7402851	14.76921414	17.12268687	7717397.074	167.4035297	14.53283252	16.84040625	683442.4323	683442.4323	828.0349498	0.50	0.04	0.05	0.04	11.29
2014	SC	Construction and Mining	24	Rubber Tired Loaders	175	18326312.39	348.2431477	19.53741039	27.81041605	18328018.1	345.8504743	19.31708012	27.57669532	921783.9575	921783.9575	1084.995796	0.76	0.04	0.06	0.04	19.88
2014	SC	Construction and Mining	24	Rubber Tired Loaders	250	25257968.19	420.59786	14.32449182	25.74608429	25255888.16	418.8316277	14.23763326	25.61006215	928111.8228	928111.8228	964.3907052	0.91	0.03	0.06	0.03	27.21
2014	SC	Construction and Mining	24	Rubber Tired Loaders	500	32978431.16	531.940512	20.24272779	35.71356045	32944971.58	518.1370458	19.52553916	34.71549275	782365.9589	782365.9589	895.987818	1.36	0.05	0.09	0.05	42.11
2014	SC	Construction and Mining	24	Rubber Tired Loaders	750	5811683.292	86.44760795	3.421684672	6.03996912	5810918.137	86.80635077	3.43030891	6.055833099	75351.91777	75351.91777	79.20334303	2.29	0.09	0.16	0.08	77.12
2014	SC	Construction and Mining	24	Rubber Tired Loaders	1000	1694285.665	34.14794029	0.995079848	1.745365103	1694285.665	34.14540111	0.994889677	1.744188722	15287.75605	15287.75605	14.40060782	4.47	0.13	0.23	0.12	110.83
2014	SC	Construction and Mining	24	Rubber Tired Loaders	9999	673693.484	12.96066997	0.37398186	0.698798065	673693.484	12.96066997	0.37398186	0.698798065	3358.035953	3358.035953	3.150132961	7.72	0.22	0.42	0.20	200.62
2014	SC	Construction and Mining	25	Scrapers	50	7266.76704	0.132452869	0.017660035	0.051942431	7266.76704	0.132452869	0.017660035	0.051942431	1025.883945	1025.883945	3.113420032	0.26	0.03	0.10	0.03	7.08
2014	SC	Construction and Mining	25	Scrapers	120	331861.0565	6.865729272	0.511347037	0.577373896	331861.0565	6.865729272	0.511347037	0.577373896	21670.71129	21670.71129	44.92220332	0.63	0.05	0.05	0.04	15.31
2014	SC	Construction and Mining	25	Scrapers	175	3502878.176	82.86151951	4.398275723	6.231498625	3502297.006	81.98304101	4.342017945	6.154187851	117341.9718	117341.9718	288.6585144	1.41	0.07	0.11	0.07	29.85
2014	SC	Construction and Mining	25	Scrapers	250	4024583.263	109.5652193	5.023000254	7.63843553	4022262.294	107.2805343	4.90424132	7.461814202	101732.4871	101732.4871	280.2078029	2.15	0.10	0.15	0.09	39.54
2014	SC	Construction and Mining	25	Scrapers	500	35252179.65	675.4109068	27.44811302	43.05682861	35247107.02	658.947153	26.5798684	41.82803011	521338.3253	521338.3253	1231.58001	2.59	0.11	0.17	0.10	67.61
2014	SC	Construction and Mining	25	Scrapers	750	16135190.29	248.6795406	9.532574927	15.19610122	16133616.79	242.5422932	9.17074132	14.74998301	161069.2664	161069.2664	350.926915	3.09	0.12	0.19	0.11	100.17
2014	SC	Construction and Mining	25	Scrapers	1000	252246.1083	10.14630971	0.473058053	0.734898303	252246.1083	10.14630971	0.473058053	0.734898303	1499.779821	1499.779821	5.782065773	13.53	0.63	0.98	0.58	168.19

**Table C.18 CARB Offroad 2011 output**  
Used to calculate NOx, PM, HC, and fuel consumption

CalendarYear	AirBasin	Equipment Class	Equipment TypeID	Equipment Type	HorsepowerBin	lb/yr	ton/yr	ton/yr	ton/yr	lb/yr	ton/yr	ton/yr	ton/yr	hr/yr	hr/yr	Emissions per Equipment (lb/hr)					lb/hr
						BaseBSFC	BaseNOx	BasePM	BaseHC	ScenBSFC	ScenNOx	ScenPM	ScenHC	BaseActivity	ScenActivity	Population	NOx	PM	HC	PM2.5	BSFC per equipment
2014	SC	Construction and Mining	25	Scrapers	9999	916856.2526	19.71118557	0.73914957	1.134446728	916856.2526	19.71118557	0.73914957	1.134446728	2635.029555	2635.029555	5.782065773	14.96	0.56	0.86	0.52	347.95
2014	SC	Construction and Mining	26	Skid Steer Loaders	50	1726224.406	21.19052263	1.344332599	2.592712926	1726272.807	21.07915181	1.32603524	2.549179332	262908.35	262908.35	926.6094578	0.16	0.01	0.02	0.01	6.57
2014	SC	Construction and Mining	26	Skid Steer Loaders	120	9175603.408	110.8375975	6.49346185	6.956198058	9174428.804	110.4998973	6.457158487	6.919173559	960973.5668	960973.5668	2990.233496	0.23	0.01	0.01	0.01	9.55
2014	SC	Construction and Mining	26	Skid Steer Loaders	175	62030.07698	0.779365588	0.035528311	0.047000548	62030.07698	0.779365588	0.035528311	0.047000548	3020.223957	3020.223957	12.40379542	0.52	0.02	0.03	0.02	20.54
2014	SC	Construction and Mining	26	Skid Steer Loaders	250	47721.08829	0.511779879	0.018169169	0.028652477	47701.6504	0.534951391	0.019255085	0.030382031	1785.592618	1785.592618	6.890997455	0.57	0.02	0.03	0.02	26.71
2014	SC	Construction and Mining	26	Skid Steer Loaders	500	13087.93737	0.12398366	0.004361853	0.007553222	13087.93737	0.12398366	0.004361853	0.007553222	359.2008474	359.2008474	1.378199491	0.69	0.02	0.04	0.02	36.44
2014	SC	Construction and Mining	26	Skid Steer Loaders	750	13806.04904	0.099491944	0.004117431	0.004884143	13806.04904	0.099491944	0.004117431	0.004884143	192.6149471	192.6149471	0.45939983	1.03	0.04	0.05	0.04	71.68
2014	SC	Construction and Mining	26	Skid Steer Loaders	1000	22528.99386	0.559290237	0.020023678	0.035668469	22528.99386	0.559290237	0.020023678	0.035668469	166.5859003	166.5859003	0.918799661	6.71	0.24	0.43	0.22	135.24
2014	SC	Construction and Mining	27	Surfacing Equipment	50	15899.35099	0.229699266	0.018384171	0.03992917	15899.35099	0.229699266	0.018384171	0.03992917	3571.789006	3571.789006	16.25405385	0.13	0.01	0.02	0.01	4.45
2014	SC	Construction and Mining	27	Surfacing Equipment	120	124966.1827	2.073997248	0.147019845	0.173545861	124966.1827	2.073216834	0.146768877	0.17350668	12742.81902	12742.81902	52.09632643	0.33	0.02	0.03	0.02	9.81
2014	SC	Construction and Mining	27	Surfacing Equipment	175	64728.62485	1.114146495	0.053703558	0.076159096	64738.99613	1.112343475	0.053101728	0.075989184	3881.428472	3881.428472	17.50436568	0.57	0.03	0.04	0.03	16.68
2014	SC	Construction and Mining	27	Surfacing Equipment	250	137304.1752	2.150805444	0.064863756	0.108453141	137303.9479	2.084579212	0.061002629	0.103343488	5690.100565	5690.100565	26.25654852	0.76	0.02	0.04	0.02	24.13
2014	SC	Construction and Mining	27	Surfacing Equipment	500	434191.9903	5.109720162	0.164622989	0.256985236	434191.9903	5.109720162	0.164622989	0.256985236	10892.83316	10892.83316	43.34414359	0.94	0.03	0.05	0.03	39.86
2014	SC	Construction and Mining	27	Surfacing Equipment	750	402076.3086	3.968821557	0.124680481	0.173502653	402076.3086	3.968821557	0.124680481	0.173502653	5911.417637	5911.417637	21.67207179	1.34	0.04	0.06	0.04	68.02
2014	SC	Construction and Mining	27	Surfacing Equipment	1000	65506.01308	1.124498953	0.027455427	0.048214997	65506.01308	1.124498953	0.027455427	0.048214997	724.4337405	724.4337405	2.91739428	3.10	0.08	0.13	0.07	90.42
2014	SC	Construction and Mining	27	Surfacing Equipment	9999	22960.37034	0.268305779	0.006040723	0.00940751	22960.37034	0.268305779	0.006040723	0.00940751	184.7686554	184.7686554	0.833541223	2.90	0.07	0.10	0.06	124.27
2014	SC	Construction and Mining	28	Tractors/Loaders/Backhoes	50	3414963.252	50.80680026	4.662347238	10.58200246	3415447.43	50.44624718	4.587281716	10.37209577	603893.5766	603893.5766	1296.719845	0.17	0.02	0.04	0.01	5.66
2014	SC	Construction and Mining	28	Tractors/Loaders/Backhoes	120	55198742.69	918.6119185	72.32266411	79.37675602	55184562.88	913.7418462	71.77988133	78.77335998	4876841.326	4876841.326	8804.592204	0.38	0.03	0.03	0.03	11.32
2014	SC	Construction and Mining	28	Tractors/Loaders/Backhoes	175	9537028.268	143.4795142	7.240613913	10.18197411	9536981.377	142.201755	7.151874059	10.06532278	492558.9548	492558.9548	984.9649	0.58	0.03	0.04	0.03	19.36
2014	SC	Construction and Mining	28	Tractors/Loaders/Backhoes	250	5526986.302	82.72954773	2.685926058	4.553782056	5526135.921	81.92395389	2.642356659	4.49718526	200657.593	200657.593	393.98596	0.82	0.03	0.05	0.02	27.54
2014	SC	Construction and Mining	28	Tractors/Loaders/Backhoes	500	7436828.491	100.8305471	3.421566896	5.815991645	7437540.513	100.1683508	3.388270202	5.758700748	171623.8264	171623.8264	355.5813653	1.18	0.04	0.07	0.04	43.34
2014	SC	Construction and Mining	28	Tractors/Loaders/Backhoes	750	1052538.595	13.55416597	0.490658394	0.804303127	1052538.595	13.55416597	0.490658394	0.804303127	13684.66061	13684.66061	24.85003188	1.98	0.07	0.12	0.07	76.91
2014	SC	Construction and Mining	28	Tractors/Loaders/Backhoes	1000	177705.7222	2.004946997	0.044475494	0.073806209	177705.7222	2.004946997	0.044475494	0.073806209	1492.414296	1492.414296	2.259093807	2.69	0.06	0.10	0.05	119.07
2014	SC	Construction and Mining	28	Tractors/Loaders/Backhoes	9999	2492541.005	40.24275625	1.206522668	1.997574277	2492541.005	41.23981602	1.269877522	2.090560246	9175.714639	9175.714639	16.71729417	8.77	0.26	0.44	0.24	271.65
2014	SC	Construction and Mining	29	Trenchers	50	1210781.944	17.77257439	1.633961125	3.426637877	1210782.172	17.74160958	1.627737842	3.407806336	147601.8242	147601.8242	425.239037	0.24	0.02	0.05	0.02	8.20
2014	SC	Construction and Mining	29	Trenchers	120	877699.6555	19.09810461	1.494088877	1.795340427	877376.0222	18.86843491	1.471637138	1.767665726	57519.45207	57519.45207	197.1562808	0.66	0.05	0.06	0.05	15.25
2014	SC	Construction and Mining	29	Trenchers	175	178898.6333	4.294980119	0.221947777	0.320649222	178974.1658	4.17508965	0.214278644	0.310439366	6804.680342	6804.680342	26.09421364	1.26	0.07	0.09	0.06	26.30
2014	SC	Construction and Mining	29	Trenchers	250	350655.2414	6.838093742	0.272741833	0.432437389	350594.7712	6.81390997	0.270978755	0.431424556	8685.585749	8685.585749	30.92647542	1.57	0.06	0.10	0.06	40.37
2014	SC	Construction and Mining	29	Trenchers	500	589212.175	7.777661223	0.286717411	0.449898926	589212.175	7.777661223	0.286717411	0.449898926	8961.871838	8961.871838	28.02711835	1.74	0.06	0.10	0.06	65.75
2014	SC	Construction and Mining	29	Trenchers	750	267093.8198	1.455568161	0.048873138	0.077552266	267093.8198	1.455568161	0.048873138	0.077552266	2325.221325	2325.221325	5.798714141	1.25	0.04	0.07	0.04	114.87
2014	SC	Construction and Mining	29	Trenchers	1000	15774.7854	0.621175349	0.028131927	0.044248369	15774.7854	0.621175349	0.028131927	0.044248369	99.46330321	99.46330321	0.483226178	12.49	0.57	0.89	0.52	158.60
2014	SC	Construction and Mining	36	Sweepers/Scrubbers	50	1052699.808	16.41165797	1.724013724	4.179476656	1052699.808	16.34144848	1.712690599	4.150144262	158978.6635	158978.6635	249.6016628	0.21	0.02	0.05	0.02	6.62
2014	SC	Construction and Mining	36	Sweepers/Scrubbers	120	1626982.465	34.39384081	3.036888749	3.430772512	1626982.465	33.73684428	2.96968673	3.348137446	124966.3346	124966.3346	203.2155131	0.55	0.05	0.05	0.04	13.02

**Table C.18 CARB Offroad 2011 output**  
Used to calculate NOx, PM, HC, and fuel consumption

CalendarYear	AirBasin	Equipment Class	Equipment TypeID	Equipment Type	HorsepowerBin	lb/yr	ton/yr	ton/yr	ton/yr	lb/yr	ton/yr	ton/yr	ton/yr	hr/yr	hr/yr	Emissions per Equipment (lb/hr)				lb/hr	
						BaseBSFC	BaseNOx	BasePM	BaseHC	ScenBSFC	ScenNOx	ScenPM	ScenHC	BaseActivity	ScenActivity	Population	NOx	PM	HC	PM2.5	BSFC per equipment
2014	SC	Construction and Mining	36	Sweepers/Scrubbers	175	405834.4163	11.49993449	0.638962135	0.91684861	405834.4163	11.07707696	0.612067132	0.879934443	15185.68694	15185.68694	23.41396129	1.51	0.08	0.12	0.08	26.72
2014	SC	Construction and Mining	36	Sweepers/Scrubbers	250	216293.3865	4.373129359	0.173065792	0.272045519	216293.3865	4.373129359	0.173065792	0.272045519	6354.346484	6354.346484	9.719002801	1.38	0.05	0.09	0.05	34.04
2014	SC	Construction and Mining	36	Sweepers/Scrubbers	500	60343.02593	1.091480205	0.047154399	0.068489013	60343.02593	1.091480205	0.047154399	0.068489013	1193.031541	1193.031541	1.767091418	1.83	0.08	0.11	0.07	50.58
2014	SC	Construction and Mining	36	Sweepers/Scrubbers	1000	42289.98842	0.512230607	0.013027716	0.016644956	42289.98842	0.512230607	0.013027716	0.016644956	298.2578853	298.2578853	0.441772855	3.43	0.09	0.11	0.08	141.79
2015	SC	Construction and Mining	11	Bore/Drill Rigs	50	106964.4117	1.489044571	0.106479853	0.196527111	106964.4117	1.489044571	0.106479853	0.196527111	12906.46285	12906.46285	39.67732112	0.23	0.02	0.03	0.02	8.29
2015	SC	Construction and Mining	11	Bore/Drill Rigs	120	651596.9803	8.250842227	0.49315132	0.543658632	654060.2599	8.142548194	0.483742921	0.531477515	44330.25075	44330.25075	121.5378994	0.37	0.02	0.02	0.02	14.75
2015	SC	Construction and Mining	11	Bore/Drill Rigs	175	764599.7434	8.978393379	0.408942478	0.576666959	764123.0428	8.859829961	0.398461742	0.566634551	27581.77228	27581.77228	95.22557068	0.65	0.03	0.04	0.03	27.70
2015	SC	Construction and Mining	11	Bore/Drill Rigs	250	1080795.083	11.22002436	0.339428292	0.596195975	1079715.053	10.88541543	0.325962126	0.577100865	28453.11989	28453.11989	94.80791467	0.79	0.02	0.04	0.02	37.95
2015	SC	Construction and Mining	11	Bore/Drill Rigs	500	1204425.737	11.40632951	0.370109889	0.629170891	1203703.557	11.10686894	0.354567011	0.608963234	19122.04098	19122.04098	66.40730587	1.19	0.04	0.07	0.04	62.95
2015	SC	Construction and Mining	11	Bore/Drill Rigs	750	1662462.543	11.83067056	0.403424253	0.666745152	1661924.613	11.65131553	0.396032749	0.655753243	14469.06741	14469.06741	32.99482493	1.64	0.06	0.09	0.05	114.86
2015	SC	Construction and Mining	11	Bore/Drill Rigs	1000	130583.9683	1.174568545	0.022960954	0.035426086	130583.9683	1.174568545	0.022960954	0.035426086	770.7089215	770.7089215	1.252968035	3.05	0.06	0.09	0.05	169.43
2015	SC	Construction and Mining	11	Bore/Drill Rigs	9999	442530.5643	5.667052151	0.138951392	0.195487161	442530.5643	5.667052151	0.138951392	0.195487161	899.8547406	899.8547406	1.252968035	12.60	0.31	0.43	0.28	491.78
2015	SC	Construction and Mining	12	Cranes	50	34882.32035	0.585041965	0.05889864	0.170270117	34882.32035	0.579965427	0.057330044	0.164637078	7399.167787	7399.167787	18.37870085	0.16	0.02	0.05	0.01	4.71
2015	SC	Construction and Mining	12	Cranes	120	831951.068	25.97436136	1.930884192	2.602268227	832050.7233	25.26855635	1.875416185	2.51934172	88918.57363	88918.57363	221.5946217	0.58	0.04	0.06	0.04	9.36
2015	SC	Construction and Mining	12	Cranes	175	2195979.828	55.81742897	3.034059393	4.348017667	2196030.801	54.60767214	2.952192306	4.239537046	139661.8041	139661.8041	332.3919326	0.80	0.04	0.06	0.04	15.72
2015	SC	Construction and Mining	12	Cranes	250	3709545.925	87.7845624	4.050420272	6.147721021	3709472.398	84.74194759	3.868664616	5.900964085	161341.9096	161341.9096	373.3501802	1.09	0.05	0.08	0.05	22.99
2015	SC	Construction and Mining	12	Cranes	500	5681228.265	106.6835315	4.436142381	6.855801262	5680130.705	104.5202127	4.324314456	6.700280634	159895.8673	159895.8673	358.1221137	1.33	0.06	0.09	0.05	35.52
2015	SC	Construction and Mining	12	Cranes	750	1497443.379	19.43345498	0.684293415	1.065071082	1497443.379	19.43345498	0.684293415	1.065071082	25021.43067	25021.43067	52.51057386	1.55	0.05	0.09	0.05	59.85
2015	SC	Construction and Mining	12	Cranes	1000	350534.6405	12.31969034	0.610907833	0.914014659	350534.6405	12.31969034	0.610907833	0.914014659	3556.938928	3556.938928	7.87658608	6.93	0.34	0.51	0.32	98.55
2015	SC	Construction and Mining	12	Cranes	9999	26998.45378	0.186087252	0.004494582	0.008789325	26998.45378	0.186087252	0.004494582	0.008789325	247.9090295	247.9090295	0.525105739	1.50	0.04	0.07	0.03	108.90
2015	SC	Construction and Mining	13	Crawler Tractors	50	106319.6625	1.880960951	0.22067858	0.620441256	106319.6625	1.86347055	0.216475972	0.606777457	14542.23998	14542.23998	46.60586195	0.26	0.03	0.09	0.03	7.31
2015	SC	Construction and Mining	13	Crawler Tractors	120	4714464.682	105.6067233	8.886947828	10.31782007	4712241.988	104.9453131	8.822042891	10.23694299	341112.0207	341112.0207	802.0868842	0.62	0.05	0.06	0.05	13.81
2015	SC	Construction and Mining	13	Crawler Tractors	175	5124217.925	107.0751224	5.894635103	8.183879997	5126202.717	105.4771158	5.786808697	8.037946368	217862.9698	217862.9698	524.7820056	0.98	0.05	0.08	0.05	23.53
2015	SC	Construction and Mining	13	Crawler Tractors	250	5168983.01	97.48177558	3.802366987	5.956254855	5171451.892	95.14009519	3.668596461	5.773258024	161528.7071	161528.7071	383.5662439	1.21	0.05	0.07	0.04	32.02
2015	SC	Construction and Mining	13	Crawler Tractors	500	13870094.22	234.1083054	9.155257909	14.47157577	13863767.66	226.5633744	8.77656162	13.93365398	256584.8804	256584.8804	616.5955537	1.82	0.07	0.11	0.07	54.03
2015	SC	Construction and Mining	13	Crawler Tractors	750	5393596.814	79.13804142	2.903105336	4.710357367	5393596.814	78.927899	2.890892198	4.692206828	59982.14368	59982.14368	126.3018859	2.64	0.10	0.16	0.09	89.92
2015	SC	Construction and Mining	13	Crawler Tractors	1000	713927.6094	15.89693041	0.468579235	0.843267273	713927.6094	15.89693041	0.468579235	0.843267273	5441.341868	5441.341868	11.18540687	5.84	0.17	0.31	0.16	131.20
2015	SC	Construction and Mining	13	Crawler Tractors	9999	377269.6361	7.14635561	0.189147429	0.33316555	377269.6361	7.14635561	0.189147429	0.33316555	1634.322666	1634.322666	2.796351717	8.75	0.23	0.41	0.21	230.84
2015	SC	Construction and Mining	14	Excavators	50	4256634.748	56.4870402	4.305397279	7.909331491	4256634.811	56.4624237	4.301801177	7.901275043	763083.0659	763083.0659	1141.486356	0.15	0.01	0.02	0.01	5.58
2015	SC	Construction and Mining	14	Excavators	120	5528751.82	84.93836926	6.354373901	7.127831804	5528182.862	84.19758677	6.264885374	7.03010694	487293.9047	487293.9047	825.6268488	0.35	0.03	0.03	0.02	11.34
2015	SC	Construction and Mining	14	Excavators	175	11643139.08	158.9682015	7.884187164	11.28297007	11643190.82	156.6051856	7.72983062	11.08231809	568504.9193	568504.9193	1048.971293	0.56	0.03	0.04	0.03	20.48
2015	SC	Construction and Mining	14	Excavators	250	14812122.87	191.6083346	6.234809668	11.04328242	14810906.22	185.8079228	5.911918389	10.59932044	483066.9883	483066.9883	901.7882389	0.79	0.03	0.05	0.02	30.66
2015	SC	Construction and Mining	14	Excavators	500	24573393.58	247.0735311	8.174551571	14.83045475	24568644.5	237.8785634	7.714116325	14.19344875	534981.5989	534981.5989	917.2074161	0.92	0.03	0.06	0.03	45.92

**Table C.18 CARB Offroad 2011 output**  
Used to calculate NOx, PM, HC, and fuel consumption

CalendarYear	AirBasin	Equipment Class	EquipmentTypeID	Equipment Type	HorsepowerBin	lb/yr	ton/yr	ton/yr	ton/yr	lb/yr	ton/yr	ton/yr	ton/yr	hr/yr	hr/yr	Emissions per Equipment (lb/hr)				lb/hr	
						BaseBSFC	BaseNOx	BasePM	BaseHC	ScenBSFC	ScenNOx	ScenPM	ScenHC	BaseActivity	ScenActivity	Population	NOx	PM	HC	PM2.5	BSFC per equipment
2015	SC	Construction and Mining	14	Excavators	750	2222583.001	23.24233216	0.747495024	1.332492652	2222657.906	23.40013673	0.760939736	1.347972035	27694.48437	27694.48437	46.72477922	1.68	0.05	0.10	0.05	80.26
2015	SC	Construction and Mining	14	Excavators	1000	249480.7915	4.918207223	0.157597881	0.261990378	249480.7915	4.164643788	0.11143565	0.194562796	2118.088363	2118.088363	3.737982337	4.64	0.15	0.25	0.14	117.79
2015	SC	Construction and Mining	14	Excavators	9999	486146.4118	5.328362945	0.138697381	0.257331325	486146.4118	5.328362945	0.138697381	0.257331325	2231.846097	2231.846097	3.270734545	4.77	0.12	0.23	0.11	217.82
2015	SC	Construction and Mining	15	Graders	50	28111.47421	0.531541932	0.070688788	0.208525144	28111.47421	0.531541932	0.070688788	0.208525144	4585.93925	4585.93925	14.55848053	0.23	0.03	0.09	0.03	6.13
2015	SC	Construction and Mining	15	Graders	120	759687.2786	23.15250401	1.933264439	2.443129099	758182.2951	22.25349009	1.858228034	2.340231948	55744.68423	55744.68423	154.9773734	0.83	0.07	0.09	0.06	13.60
2015	SC	Construction and Mining	15	Graders	175	7052412.521	181.3823943	10.23426029	14.67343165	7047854.962	179.0529933	10.06772992	14.45814203	311015.9871	311015.9871	725.106256	1.17	0.07	0.09	0.06	22.66
2015	SC	Construction and Mining	15	Graders	250	12245942.69	209.6616354	6.827644596	12.00682455	12247086.18	208.3512434	6.753176428	11.90600369	395127.5276	395127.5276	575.7644235	1.06	0.03	0.06	0.03	31.00
2015	SC	Construction and Mining	15	Graders	500	3491592.465	39.17478409	1.520774554	2.836988167	3491592.465	38.97162802	1.510403831	2.822297804	79292.94013	79292.94013	107.5449045	0.99	0.04	0.07	0.04	44.03
2015	SC	Construction and Mining	15	Graders	1000	33763.05975	0.942330032	0.032795123	0.059463471	33763.05975	0.942330032	0.032795123	0.059463471	282.78608	282.78608	0.469628404	6.66	0.23	0.42	0.21	119.39
2015	SC	Construction and Mining	15	Graders	9999	475623.1111	9.410313547	0.285152544	0.525646673	475623.1111	9.410313547	0.285152544	0.525646673	1594.113711	1594.113711	2.348142021	11.81	0.36	0.66	0.33	298.36
2015	SC	Construction and Mining	16	Off-Highway Tractors	50	1757609.503	27.26573185	2.75000055	6.712181014	1759990.108	26.32915142	2.544253536	6.12702189	263418.4702	263418.4702	437.2373634	0.21	0.02	0.05	0.02	6.68
2015	SC	Construction and Mining	16	Off-Highway Tractors	120	2250300.43	42.88211211	3.54042199	4.001889556	2247970.406	40.65351021	3.31135173	3.73452438	187278.5971	187278.5971	317.9070398	0.46	0.04	0.04	0.03	12.00
2015	SC	Construction and Mining	16	Off-Highway Tractors	175	1917254.853	27.68378136	1.411103909	1.955882633	1917149.205	27.13570797	1.374556016	1.907202895	75701.38602	75701.38602	120.7125282	0.73	0.04	0.05	0.03	25.33
2015	SC	Construction and Mining	16	Off-Highway Tractors	250	1605068.207	27.12744056	0.982876192	1.628405899	1605145.206	26.76542756	0.962977424	1.60233894	47167.3679	47167.3679	78.78565769	1.15	0.04	0.07	0.04	34.03
2015	SC	Construction and Mining	16	Off-Highway Tractors	500	4533537.052	54.02493464	1.953329077	3.289077923	4533827.113	51.17757687	1.801063222	3.091216369	84920.689	84920.689	135.456043	1.27	0.05	0.08	0.04	53.39
2015	SC	Construction and Mining	16	Off-Highway Tractors	750	1140135.136	13.94094336	0.474481975	0.79473619	1138653.597	13.25852491	0.431791666	0.741775812	12429.15914	12429.15914	19.81159813	2.24	0.08	0.13	0.07	91.61
2015	SC	Construction and Mining	16	Off-Highway Tractors	1000	32310.19122	1.190975927	0.060593982	0.083260827	32310.19122	0.223189317	0.005415617	0.007703388	202.1553804	202.1553804	0.46073484	11.78	0.60	0.82	0.55	159.83
2015	SC	Construction and Mining	16	Off-Highway Tractors	9999	252293.9947	7.640757896	0.287434785	0.504918379	264892.077	4.548774638	0.145869901	0.259722256	938.6365422	938.6365422	1.842939361	16.28	0.61	1.08	0.56	282.21
2015	SC	Construction and Mining	17	Off-Highway Trucks	50	168441.4091	2.74131374	0.285089632	0.64647881	168441.4091	2.74131374	0.285089632	0.64647881	38268.69356	38268.69356	26.02170599	0.14	0.01	0.03	0.01	4.40
2015	SC	Construction and Mining	17	Off-Highway Trucks	120	206624.5944	3.764831032	0.305726633	0.376414554	206624.5944	3.570240993	0.289831793	0.354649702	17176.0556	17176.0556	14.60867705	0.44	0.04	0.04	0.03	12.03
2015	SC	Construction and Mining	17	Off-Highway Trucks	175	3994156.156	62.16664062	3.47550214	5.118871015	3994156.156	61.56122617	3.42970412	5.065136884	180304.8613	180304.8613	139.6954743	0.69	0.04	0.06	0.04	22.15
2015	SC	Construction and Mining	17	Off-Highway Trucks	250	8198289.078	140.170173	6.231895441	10.49806695	8196334.747	129.9668398	5.621239307	9.699408924	279089.9744	279089.9744	239.2170866	1.00	0.04	0.08	0.04	29.37
2015	SC	Construction and Mining	17	Off-Highway Trucks	500	34846861.26	489.2814256	19.02206726	34.35380802	34869686.81	470.1375302	17.95762044	32.99169839	662277.2765	662277.2765	531.3906276	1.48	0.06	0.10	0.05	52.65
2015	SC	Construction and Mining	17	Off-Highway Trucks	750	12509045.19	227.4017264	9.744683098	16.53322765	12462015.88	190.5926746	7.753297605	13.8842385	134701.1281	134701.1281	121.434628	3.38	0.14	0.25	0.13	92.52
2015	SC	Construction and Mining	17	Off-Highway Trucks	1000	8651567.016	167.2419627	4.932076648	9.105000855	8638911.134	163.0356127	4.791951976	8.818912125	68731.65177	68731.65177	55.69558124	4.87	0.14	0.26	0.13	125.69
2015	SC	Construction and Mining	17	Off-Highway Trucks	9999	12423643.62	217.7237969	6.810879297	13.07342406	12414774.12	213.6775204	6.669043569	12.78692975	49928.81291	49928.81291	36.06517146	8.72	0.27	0.52	0.25	248.65
2015	SC	Construction and Mining	18	Other Construction Equipment	50	953161.8666	14.22352831	1.287383964	2.767663502	953161.8666	14.2159085	1.286060982	2.76392143	146810.893	146810.893	337.6527679	0.19	0.02	0.04	0.02	6.49
2015	SC	Construction and Mining	18	Other Construction Equipment	120	2979929.106	58.82262026	4.610692024	5.381126012	2979834.231	58.64267047	4.592057617	5.360110787	240220.2661	240220.2661	595.7776295	0.49	0.04	0.04	0.04	12.40
2015	SC	Construction and Mining	18	Other Construction Equipment	175	1624037.374	31.69722149	1.688610808	2.362284793	1624517.235	30.52533203	1.599245536	2.255805085	70165.65484	70165.65484	185.413633	0.90	0.05	0.07	0.04	23.15
2015	SC	Construction and Mining	18	Other Construction Equipment	250	2083788.776	36.21052449	1.349913622	2.133622593	2084162.948	35.29404923	1.296287693	2.068411023	62574.6421	62574.6421	166.3269355	1.16	0.04	0.07	0.04	33.31

**Table C.18 CARB Offroad 2011 output**  
Used to calculate NOx, PM, HC, and fuel consumption

CalendarYear	AirBasin	Equipment Class	Equipment TypeID	Equipment Type	HorsepowerBin	lb/yr	ton/yr	ton/yr	ton/yr	lb/yr	ton/yr	ton/yr	ton/yr	hr/yr	hr/yr	Emissions per Equipment (lb/hr)					lb/hr
						BaseBSFC	BaseNOx	BasePM	BaseHC	ScenBSFC	ScenNOx	ScenPM	ScenHC	BaseActivity	ScenActivity	Population	NOx	PM	HC	PM2.5	BSFC per equipment
2015	SC	Construction and Mining	18	Other Construction Equipment	500	7114615.072	99.96237186	3.784215091	6.146589227	7111177.714	93.60774035	3.447804256	5.683213242	129745.0684	129745.0684	323.1105222	1.54	0.06	0.09	0.05	54.81
2015	SC	Construction and Mining	18	Other Construction Equipment	750	2773504.165	35.4406111	1.212742301	1.983634848	2773498.671	31.88827887	1.023671682	1.708150631	30377.8051	30377.8051	66.8034413	2.33	0.08	0.13	0.07	91.30
2015	SC	Construction and Mining	18	Other Construction Equipment	1000	323385.9487	4.344269335	0.115155738	0.183550054	323385.9487	4.336793892	0.114809203	0.182491562	2559.562074	2559.562074	5.907787326	3.39	0.09	0.14	0.08	126.34
2015	SC	Construction and Mining	18	Other Construction Equipment	9999	201249.5802	3.307332553	0.091581796	0.15591099	201383.5696	3.06334808	0.084709995	0.148648939	1199.343841	1199.343841	2.726671073	5.52	0.15	0.26	0.14	167.91
2015	SC	Construction and Mining	19	Pavers	50	116726.083	1.777679032	0.183043534	0.48377017	116726.083	1.769827059	0.181797412	0.480750681	17750.87129	17750.87129	54.72796021	0.20	0.02	0.05	0.02	6.58
2015	SC	Construction and Mining	19	Pavers	120	1129943.688	21.16696153	1.658783304	1.944534778	1130410.826	20.93275334	1.634001052	1.915417445	93540.06043	93540.06043	265.8866733	0.45	0.04	0.04	0.03	12.08
2015	SC	Construction and Mining	19	Pavers	175	1533804.968	25.86341981	1.300575474	1.894434577	1533937.052	25.49653623	1.277269502	1.8625311	63596.51118	63596.51118	179.690136	0.81	0.04	0.06	0.04	24.12
2015	SC	Construction and Mining	19	Pavers	250	1035862.511	12.90240689	0.331056412	0.549009544	1035862.511	12.89222788	0.330207075	0.548673426	31739.43145	31739.43145	77.53127696	0.81	0.02	0.03	0.02	32.64
2015	SC	Construction and Mining	19	Pavers	500	390221.0719	3.455142739	0.114684275	0.172352087	390221.0719	3.455142739	0.114684275	0.172352087	7900.326159	7900.326159	19.15478607	0.87	0.03	0.04	0.03	49.39
2015	SC	Construction and Mining	19	Pavers	750	45123.30921	0.331158168	0.014338252	0.019534638	45123.30921	0.331158168	0.014338252	0.019534638	394.6454701	394.6454701	0.91213267	1.68	0.07	0.10	0.07	114.34
2015	SC	Construction and Mining	20	Paving Equipment	50	145127.4673	2.002021346	0.164759289	0.334645334	145131.0371	1.98872924	0.160881747	0.320552734	29024.47156	29024.47156	67.38927057	0.14	0.01	0.02	0.01	5.00
2015	SC	Construction and Mining	20	Paving Equipment	120	660186.6094	12.35816793	0.948559974	1.105267677	660012.5979	12.13878047	0.929959114	1.079177406	56963.99514	56963.99514	137.5105386	0.43	0.03	0.04	0.03	11.59
2015	SC	Construction and Mining	20	Paving Equipment	175	621543.0421	9.34616543	0.459595537	0.639527237	621542.1264	9.297271553	0.453656314	0.635644335	32231.19504	32231.19504	75.12993003	0.58	0.03	0.04	0.03	19.28
2015	SC	Construction and Mining	20	Paving Equipment	250	325978.3214	5.21191295	0.18983543	0.300329033	325998.2774	4.669924442	0.15535044	0.254755999	11592.92681	11592.92681	27.31997456	0.90	0.03	0.05	0.03	28.12
2015	SC	Construction and Mining	20	Paving Equipment	500	459679.3533	6.476462706	0.233828676	0.36974426	459626.7864	6.447360583	0.231532902	0.368489641	10480.14692	10480.14692	24.5879771	1.24	0.04	0.07	0.04	43.86
2015	SC	Construction and Mining	20	Paving Equipment	750	217994.3308	2.59304471	0.060322989	0.121748758	217994.3308	2.59304471	0.060322989	0.121748758	2763.883839	2763.883839	5.919327821	1.88	0.04	0.09	0.04	78.87
2015	SC	Construction and Mining	20	Paving Equipment	1000	42629.3525	0.588179843	0.01437464	0.02367012	42629.3525	0.588179843	0.01437464	0.02367012	388.0202296	388.0202296	0.910665819	3.03	0.07	0.12	0.07	109.86
2015	SC	Construction and Mining	21	Rollers	50	2395596.151	34.80175546	3.137694933	7.080554076	2395581.308	34.64149922	3.106448493	6.992623546	437535.7575	437535.7575	1382.656186	0.16	0.01	0.03	0.01	5.48
2015	SC	Construction and Mining	21	Rollers	120	3742537.863	71.41679736	5.342478698	6.464091644	3742629.82	70.21036846	5.232313618	6.322287078	311622.3018	311622.3018	1031.133427	0.46	0.03	0.04	0.03	12.01
2015	SC	Construction and Mining	21	Rollers	175	3870259.392	55.0690573	2.584552415	3.604319073	3869857.356	53.82035273	2.504287055	3.495784977	195465.2035	195465.2035	596.1825996	0.56	0.03	0.04	0.02	19.80
2015	SC	Construction and Mining	21	Rollers	250	610846.7569	9.305584988	0.331745036	0.544398431	611016.9826	9.025951912	0.312651297	0.524797144	20750.17478	20750.17478	73.11673391	0.90	0.03	0.05	0.03	29.45
2015	SC	Construction and Mining	21	Rollers	500	385148.5483	6.556283443	0.269959795	0.41547195	385148.5483	5.754215798	0.223025213	0.350537074	8257.360176	8257.360176	29.99660878	1.59	0.07	0.10	0.06	46.64
2015	SC	Construction and Mining	21	Rollers	750	18798.904	0.281709285	0.013481522	0.021266327	18798.904	0.281709285	0.013481522	0.021266327	261.8977378	261.8977378	0.937394024	2.15	0.10	0.16	0.09	71.78
2015	SC	Construction and Mining	22	Rough Terrain	50	122015.0057	1.707952609	0.141966439	0.323336664	122015.0057	1.707952609	0.141966439	0.323336664	15706.25226	15706.25226	62.79960946	0.22	0.02	0.04	0.02	7.77
2015	SC	Construction and Mining	22	Rough Terrain	120	9814901.944	127.446903	7.409390932	8.377914981	9814444.459	125.997686	7.282785851	8.216026232	689660.5178	689660.5178	2690.63844	0.37	0.02	0.02	0.02	14.23
2015	SC	Construction and Mining	22	Rough Terrain	175	1804421.309	19.23972923	0.759844634	1.029933418	1804421.309	18.55720659	0.719330942	0.972354726	94477.52169	94477.52169	360.0150025	0.41	0.02	0.02	0.01	19.10
2015	SC	Construction and Mining	22	Rough Terrain	250	148439.5736	2.731157491	0.121573937	0.1862765	148313.7627	1.095365719	0.025885525	0.051419409	4818.695032	4818.695032	21.1136618	1.13	0.05	0.08	0.05	30.78
2015	SC	Construction and Mining	22	Rough Terrain	500	62883.13112	0.890288346	0.027353154	0.045626856	62883.13112	0.671473222	0.01470875	0.027431182	1151.145334	1151.145334	4.872383493	1.55	0.05	0.08	0.04	54.63
2015	SC	Construction and Mining	22	Rough Terrain	750	9840.143142	0.44688417	0.023852549	0.035866877	9840.143142	0.038775008	0.000264709	0.00202139	106.7159369	106.7159369	0.541375944	8.38	0.45	0.67	0.41	92.21
2015	SC	Construction and Mining	23	Rubber Tired Dozers	50	104995.4617	1.920518063	0.25384149	0.707767805	104995.4617	1.920518063	0.25384149	0.707767805	15885.63517	15885.63517	18.29928335	0.24	0.03	0.09	0.03	6.61
2015	SC	Construction and Mining	23	Rubber Tired Dozers	120	501199.2679	14.32408174	1.285856692	1.528391963	503320.7736	14.12607134	1.264716083	1.502899929	41978.35489	41978.35489	54.45152605	0.68	0.06	0.07	0.06	11.99



**Table C.18 CARB Offroad 2011 output**  
Used to calculate NOx, PM, HC, and fuel consumption

CalendarYear	AirBasin	Equipment Class	EquipmentTypeID	Equipment Type	HorsepowerBin	lb/yr	ton/yr	ton/yr	ton/yr	lb/yr	ton/yr	ton/yr	ton/yr	hr/yr	hr/yr	Emissions per Equipment (lb/hr)				lb/hr	
						BaseBSFC	BaseNOx	BasePM	BaseHC	ScenBSFC	ScenNOx	ScenPM	ScenHC	BaseActivity	ScenActivity	Population	NOx	PM	HC	PM2.5	BSFC per equipment
2015	SC	Construction and Mining	23	Rubber Tired Dozers	175	419666.757	12.36846157	0.709031074	1.001587695	419666.757	12.36846157	0.709031074	1.001587695	19263.31502	19263.31502	28.118411	1.28	0.07	0.10	0.07	21.79
2015	SC	Construction and Mining	23	Rubber Tired Dozers	250	437800.8067	10.43010666	0.514585549	0.786448556	437800.8067	10.43010666	0.514585549	0.786448556	14210.62138	14210.62138	21.86987522	1.47	0.07	0.11	0.07	30.81
2015	SC	Construction and Mining	23	Rubber Tired Dozers	500	5014157.611	119.6493974	5.588539878	8.749213536	5011523.237	118.581953	5.532586682	8.672392656	96111.11628	96111.11628	145.9479428	2.49	0.12	0.18	0.11	52.14
2015	SC	Construction and Mining	23	Rubber Tired Dozers	750	589540.4184	13.27231277	0.489011637	0.800987092	589540.4184	12.64644811	0.457020373	0.756668101	6941.805867	6941.805867	8.926479681	3.82	0.14	0.23	0.13	84.93
2015	SC	Construction and Mining	24	Rubber Tired Loaders	50	332391.5239	5.543550977	0.614441308	1.585714094	332383.1326	5.497179392	0.606726085	1.566706916	54083.81595	54083.81595	68.85031385	0.20	0.02	0.06	0.02	6.15
2015	SC	Construction and Mining	24	Rubber Tired Loaders	120	8102756.811	176.5228073	15.31164193	17.87755327	8097389.992	172.6788905	14.92666334	17.41555934	716822.8971	716822.8971	855.9768749	0.49	0.04	0.05	0.04	11.30
2015	SC	Construction and Mining	24	Rubber Tired Loaders	175	19218368.73	358.2712061	20.15411297	28.95403656	19220758.86	352.6434601	19.70398186	28.44225083	966805.4187	966805.4187	1121.608829	0.74	0.04	0.06	0.04	19.88
2015	SC	Construction and Mining	24	Rubber Tired Loaders	250	26487946.5	433.475118	14.85671345	27.09534663	26485085.25	429.2061507	14.6536216	26.79250668	973442.3475	973442.3475	996.9339364	0.89	0.03	0.06	0.03	27.21
2015	SC	Construction and Mining	24	Rubber Tired Loaders	500	34575560.31	554.3205927	21.24827671	37.91753235	34490437.29	525.1481763	19.82841381	35.90723635	820578.0133	820578.0133	926.2228032	1.35	0.05	0.09	0.05	42.03
2015	SC	Construction and Mining	24	Rubber Tired Loaders	750	6094797.401	90.63356677	3.61454994	6.478872503	6103209.519	86.22560993	3.3901193	6.17510351	79032.23073	79032.23073	81.8760489	2.29	0.09	0.16	0.08	77.22
2015	SC	Construction and Mining	24	Rubber Tired Loaders	1000	1776931.229	35.92343739	1.052798432	1.857544204	1776931.229	35.92086748	1.05260596	1.856353589	16034.43547	16034.43547	14.88655435	4.48	0.13	0.23	0.12	110.82
2015	SC	Construction and Mining	24	Rubber Tired Loaders	9999	706597.794	13.67570797	0.398616954	0.751013067	706597.794	13.67570797	0.398616954	0.751013067	3522.048012	3522.048012	3.256433763	7.77	0.23	0.43	0.21	200.62
2015	SC	Construction and Mining	25	Scrapers	50	7621.688026	0.139463689	0.018732335	0.055238898	7621.688026	0.139463689	0.018732335	0.055238898	1075.989822	1075.989822	3.218481961	0.26	0.03	0.10	0.03	7.08
2015	SC	Construction and Mining	25	Scrapers	120	348066.9139	7.24152011	0.545115691	0.615641811	348066.9139	7.24152011	0.545115691	0.615641811	22729.14487	22729.14487	46.43809686	0.64	0.05	0.05	0.04	15.31
2015	SC	Construction and Mining	25	Scrapers	175	3673824.724	86.08305915	4.613060509	6.555783314	3673213.349	84.43828968	4.512539601	6.416031735	123073.1489	123073.1489	298.3992561	1.40	0.07	0.11	0.07	29.85
2015	SC	Construction and Mining	25	Scrapers	250	4221323.669	114.9330699	5.277752727	8.045084514	4218081.222	110.5829752	5.044883105	7.696695877	106701.2709	106701.2709	289.6633765	2.15	0.10	0.15	0.09	39.53
2015	SC	Construction and Mining	25	Scrapers	500	36968544.18	705.2551838	28.82643261	45.53832436	36956993.41	674.8068028	27.25403079	43.27252822	546801.3561	546801.3561	1273.139507	2.58	0.11	0.17	0.10	67.59
2015	SC	Construction and Mining	25	Scrapers	750	16923019.01	260.8217291	10.06842437	16.23862052	16919716.47	245.5648515	9.226290318	15.08366187	168936.1572	168936.1572	362.7688953	3.09	0.12	0.19	0.11	100.15
2015	SC	Construction and Mining	25	Scrapers	1000	264566.2277	10.64187235	0.496162995	0.770791959	264566.2277	10.64187235	0.496162995	0.770791959	1573.031561	1573.031561	5.977180784	13.53	0.63	0.98	0.58	168.19
2015	SC	Construction and Mining	25	Scrapers	9999	961637.0365	20.87269313	0.789602514	1.217444305	961637.0365	20.87269313	0.789602514	1.217444305	2763.728781	2763.728781	5.977180784	15.10	0.57	0.88	0.53	347.95
2015	SC	Construction and Mining	26	Skid Steer Loaders	50	1811323.052	21.75980651	1.329056631	2.638294986	1811333.503	21.5992969	1.302076512	2.572266544	275749.231	275749.231	957.877766	0.16	0.01	0.02	0.01	6.57
2015	SC	Construction and Mining	26	Skid Steer Loaders	120	9619342.536	110.4257025	6.399027294	7.053780918	9618428.858	110.0434341	6.359201557	7.013248486	1007909.114	1007909.114	3091.138512	0.22	0.01	0.01	0.01	9.54
2015	SC	Construction and Mining	26	Skid Steer Loaders	175	65045.87544	0.800879456	0.036545547	0.049571003	65045.87544	0.800879456	0.036545547	0.049571003	3167.736717	3167.736717	12.82235978	0.51	0.02	0.03	0.02	20.53
2015	SC	Construction and Mining	26	Skid Steer Loaders	250	50023.94937	0.544082782	0.019612045	0.031237459	50004.27096	0.569735323	0.020826778	0.033143936	1872.80393	1872.80393	7.123533213	0.58	0.02	0.03	0.02	26.70
2015	SC	Construction and Mining	26	Skid Steer Loaders	500	13727.17399	0.13018537	0.004590529	0.008088074	13727.17399	0.13018537	0.004590529	0.008088074	376.7448141	376.7448141	1.424706643	0.69	0.02	0.04	0.02	36.44
2015	SC	Construction and Mining	26	Skid Steer Loaders	750	14480.35944	0.104712214	0.004371689	0.005338192	14480.35944	0.104712214	0.004371689	0.005338192	202.0225814	202.0225814	0.474902214	1.04	0.04	0.05	0.04	71.68
2015	SC	Construction and Mining	26	Skid Steer Loaders	1000	23629.34738	0.587904239	0.021017264	0.037492498	23629.34738	0.277451596	0.008761453	0.01354036	174.7222326	174.7222326	0.949804428	6.73	0.24	0.43	0.22	135.24
2015	SC	Construction and Mining	27	Surfacing Equipment	50	16674.79464	0.241748844	0.019487672	0.042548131	16674.79464	0.23334483	0.01784832	0.03772757	3746.24112	3746.24112	16.80254465	0.13	0.01	0.07	0.02	4.45
2015	SC	Construction and Mining	27	Surfacing Equipment	120	130825.1006	2.117724374	0.149181451	0.178265807	130825.1006	2.116904583	0.148916126	0.178224486	13365.19949	13365.19949	53.85430977	0.32	0.02	0.03	0.02	9.79
2015	SC	Construction and Mining	27	Surfacing Equipment	175	67885.02172	1.172996133	0.056931416	0.080753538	67896.24296	1.17108518	0.056296454	0.080572549	4071.003892	4071.003892	18.09504808	0.58	0.03	0.04	0.03	16.68
2015	SC	Construction and Mining	27	Surfacing Equipment	250	143982.4741	2.261555691	0.068677731	0.115191691	143982.2215	2.190774001	0.064518529	0.109709118	5968.014538	5968.014538	27.14257212	0.76	0.02	0.04	0.02	24.13
2015	SC	Construction and Mining	27	Surfacing Equipment	500	455396.0763	5.366407311	0.174031992	0.273818028	455396.0763	5.366407311	0.174031992	0.273818028	11424.85724	11424.85724	44.80678573	0.94	0.03	0.05	0.03	39.86
2015	SC	Construction and Mining	27	Surfacing Equipment	750	421744.4197	4.165753154	0.13179735	0.186094203	421744.4197	4.165753154	0.13179735	0.186094203	6200.141104	6200.141104	22.40339286	1.34	0.04	0.06	0.04	68.02



**Table C.18 CARB Offroad 2011 output**  
Used to calculate NOx, PM, HC, and fuel consumption

CalendarYear	AirBasin	Equipment Class	EquipmentTypeID	Equipment Type	HorsepowerBin	lb/yr	ton/yr	ton/yr	ton/yr	lb/yr	ton/yr	ton/yr	ton/yr	hr/yr	hr/yr	Emissions per Equipment (lb/hr)				lb/hr	
						BaseBSFC	BaseNOx	BasePM	BaseHC	ScenBSFC	ScenNOx	ScenPM	ScenHC	BaseActivity	ScenActivity	Population	NOx	PM	HC	PM2.5	BSFC per equipment
2015	SC	Construction and Mining	27	Surfacing Equipment	1000	68707.1236	1.182988246	0.029019504	0.051022567	68707.1236	1.182988246	0.029019504	0.051022567	759.816289	759.816289	3.015841347	3.11	0.08	0.13	0.07	90.43
2015	SC	Construction and Mining	27	Surfacing Equipment	9999	24081.79301	0.28237056	0.006407646	0.010158755	24081.79301	0.28237056	0.006407646	0.010158755	193.7930637	193.7930637	0.861668956	2.91	0.07	0.10	0.06	124.27
2015	SC	Construction and Mining	28	Tractors/Loaders/Backhoes	50	3584926.127	52.97862216	4.810655234	10.93787351	3584783.736	52.43206649	4.701419441	10.64702971	633388.7431	633388.7431	1340.477478	0.17	0.02	0.03	0.01	5.66
2015	SC	Construction and Mining	28	Tractors/Loaders/Backhoes	120	57869561.65	941.0063202	73.97509321	82.00812854	57841657.13	931.1148421	72.87921317	80.79929956	5115034.365	5115034.365	9101.701953	0.37	0.03	0.03	0.03	11.31
2015	SC	Construction and Mining	28	Tractors/Loaders/Backhoes	175	10004277.62	147.8212119	7.497242097	10.66754632	10002955.43	146.0695595	7.379099719	10.51782406	516616.3532	516616.3532	1018.202405	0.57	0.03	0.04	0.03	19.36
2015	SC	Construction and Mining	28	Tractors/Loaders/Backhoes	250	5793347.97	84.72502339	2.772243566	4.782943315	5792431.912	83.50458447	2.712653917	4.701547793	210458.0435	210458.0435	407.2809618	0.81	0.03	0.05	0.02	27.52
2015	SC	Construction and Mining	28	Tractors/Loaders/Backhoes	500	7803171.813	103.4047763	3.551828818	6.140554941	7800721.919	101.7868275	3.490071248	6.034876584	180006.2194	180006.2194	367.5804093	1.15	0.04	0.07	0.04	43.34
2015	SC	Construction and Mining	28	Tractors/Loaders/Backhoes	750	1103949.495	14.27001979	0.521371143	0.869210943	1103949.495	14.01975076	0.509387337	0.851406031	14353.04219	14353.04219	25.68859277	1.99	0.07	0.12	0.07	76.91
2015	SC	Construction and Mining	28	Tractors/Loaders/Backhoes	1000	186368.5533	2.115774016	0.047631217	0.080703871	186368.5533	2.115774016	0.047631217	0.080703871	1565.306292	1565.306292	2.335326616	2.70	0.06	0.10	0.06	119.06
2015	SC	Construction and Mining	28	Tractors/Loaders/Backhoes	9999	2614280.852	40.81380294	1.222098967	2.037977006	2614280.852	41.90229393	1.291725701	2.139516453	9623.8718	9623.8718	17.28141696	8.48	0.25	0.42	0.23	271.65
2015	SC	Construction and Mining	29	Trenchers	50	1269525.473	18.51462144	1.69817546	3.592370676	1269486.11	18.43854938	1.682951375	3.548390937	154810.9428	154810.9428	439.5886696	0.24	0.02	0.05	0.02	8.20
2015	SC	Construction and Mining	29	Trenchers	120	920414.2804	19.8769592	1.560005141	1.874879224	920079.7853	19.68408947	1.539949374	1.851590376	60328.79776	60328.79776	203.8092923	0.66	0.05	0.06	0.05	15.25
2015	SC	Construction and Mining	29	Trenchers	175	187636.34	4.489891184	0.233186928	0.338238338	187713.8724	4.364563734	0.225135342	0.327609015	7137.032245	7137.032245	26.97475927	1.26	0.07	0.09	0.06	26.30
2015	SC	Construction and Mining	29	Trenchers	250	367761.7785	7.200716217	0.288504903	0.458120415	367696.6426	7.174944502	0.286606683	0.457015691	9109.804199	9109.804199	31.97008506	1.58	0.06	0.10	0.06	40.36
2015	SC	Construction and Mining	29	Trenchers	500	617748.8838	8.182283753	0.303541731	0.480455358	617748.8838	8.182283753	0.303541731	0.480455358	9399.58456	9399.58456	28.97288959	1.74	0.06	0.10	0.06	65.72
2015	SC	Construction and Mining	29	Trenchers	750	280149.0797	1.35798778	0.0444366	0.078582334	280149.0797	1.35798778	0.0444366	0.078582334	2438.789001	2438.789001	5.994390949	1.11	0.04	0.06	0.03	114.87
2015	SC	Construction and Mining	29	Trenchers	1000	16545.25215	0.653052667	0.02967324	0.046606606	16545.25215	0.653052667	0.02967324	0.046606606	104.3212563	104.3212563	0.499532579	12.52	0.57	0.89	0.52	158.60
2015	SC	Construction and Mining	36	Sweepers/Scrubbers	50	1104115.418	17.27401854	1.833075501	4.482149149	1104115.418	17.20021186	1.821124509	4.451473159	166743.4458	166743.4458	258.0244365	0.21	0.02	0.05	0.02	6.62
2015	SC	Construction and Mining	36	Sweepers/Scrubbers	120	1706446.993	35.98580663	3.200542747	3.618991022	1706446.993	35.14183699	3.114292427	3.514993494	131069.8982	131069.8982	210.0729925	0.55	0.05	0.06	0.04	13.02
2015	SC	Construction and Mining	36	Sweepers/Scrubbers	175	425656.044	11.86833397	0.658475994	0.94699782	425656.044	11.09369735	0.611284679	0.884300324	15927.38114	15927.38114	24.20406218	1.49	0.08	0.12	0.08	26.72
2015	SC	Construction and Mining	36	Sweepers/Scrubbers	250	226857.5152	4.614508467	0.183114706	0.289945291	226857.5152	4.614508467	0.183114706	0.289945291	6664.703332	6664.703332	10.04696921	1.38	0.05	0.09	0.05	34.04
2015	SC	Construction and Mining	36	Sweepers/Scrubbers	500	63290.27966	1.149554291	0.049924774	0.073218038	63290.27966	1.149554291	0.049924774	0.073218038	1251.301186	1251.301186	1.826721674	1.84	0.08	0.12	0.07	50.58
2015	SC	Construction and Mining	36	Sweepers/Scrubbers	1000	44355.50178	0.541639973	0.014052053	0.019031068	44355.50178	0.541639973	0.014052053	0.019031068	312.8252964	312.8252964	0.456680419	3.46	0.09	0.12	0.08	141.79
2016	SC	Construction and Mining	11	Bore/Drill Rigs	50	112021.8628	1.557484993	0.11248193	0.211191904	112021.8628	1.557484993	0.11248193	0.211191904	13513.03191	13513.03191	40.96338346	0.23	0.02	0.03	0.02	8.29
2016	SC	Construction and Mining	11	Bore/Drill Rigs	120	682149.4711	8.254253087	0.482398148	0.555457898	684524.1324	8.087361649	0.468564451	0.537088364	46413.65337	46413.65337	125.4773115	0.36	0.02	0.02	0.02	14.75
2016	SC	Construction and Mining	11	Bore/Drill Rigs	175	799898.5868	8.817095591	0.399365332	0.576868717	799301.1068	8.591014995	0.384659504	0.560773554	28878.04144	28878.04144	98.31212032	0.61	0.03	0.04	0.03	27.68
2016	SC	Construction and Mining	11	Bore/Drill Rigs	250	1133074.285	10.84160949	0.329029888	0.598406854	1132303.768	9.948929108	0.292043292	0.54551817	29790.34004	29790.34004	97.88092681	0.73	0.02	0.04	0.02	38.01
2016	SC	Construction and Mining	11	Bore/Drill Rigs	500	1260101.928	10.9628805	0.359363559	0.630162705	1260237.427	9.717824994	0.29991093	0.547471492	20020.72551	20020.72551	68.55976811	1.10	0.04	0.06	0.03	62.95
2016	SC	Construction and Mining	11	Bore/Drill Rigs	750	1739808.898	11.32179189	0.377039239	0.661232754	1739178.831	11.124517	0.368971321	0.649085394	15149.07469	15149.07469	34.0642873	1.49	0.05	0.09	0.05	114.80
2016	SC	Construction and Mining	11	Bore/Drill Rigs	1000	136718.3712	1.235714024	0.024355289	0.039167167	136718.3712	1.235714024	0.024355289	0.039167167	806.9301692	806.9301692	1.29358053	3.06	0.06	0.10	0.06	169.43
2016	SC	Construction and Mining	11	Bore/Drill Rigs	9999	463328.3113	5.95432942	0.147242828	0.211134918	463328.3113	5.95432942	0.147242828	0.211134918	942.1454946	942.1454946	1.29358053	12.64	0.31	0.45	0.29	491.78
2016	SC	Construction and Mining	12	Cranes	50	36519.98433	0.615987908	0.062627902	0.181842369	36519.98433	0.610755791	0.060994538	0.175969809	7746.908784	7746.908784	18.9744103	0.16	0.02	0.05	0.01	4.71
2016	SC	Construction and Mining	12	Cranes	120	870934.9133	26.8137943	1.994468174	2.687170447	871122.8868	25.2656231	1.86571149	2.50755348	93097.50758	93097.50758	228.7771756	0.58	0.04	0.06	0.04	9.36

**Table C.18 CARB Offroad 2011 output**  
Used to calculate NOx, PM, HC, and fuel consumption

CalendarYear	AirBasin	Equipment Class	Equipment TypeID	Equipment Type	HorsepowerBin	lb/yr	ton/yr	ton/yr	ton/yr	lb/yr	ton/yr	ton/yr	ton/yr	hr/yr	hr/yr	Emissions per Equipment (lb/hr)				lb/hr	
						BaseBSFC	BaseNOx	BasePM	BaseHC	ScenBSFC	ScenNOx	ScenPM	ScenHC	BaseActivity	ScenActivity	Population	NOx	PM	HC	PM2.5	BSFC per equipment
2016	SC	Construction and Mining	12	Cranes	175	2299086.164	56.35934245	3.07025906	4.407788149	2299085.648	54.16464594	2.934261079	4.22019892	146225.5334	146225.5334	343.1657635	0.77	0.04	0.06	0.04	15.72
2016	SC	Construction and Mining	12	Cranes	250	3883420.3	91.41541421	4.224520552	6.436918286	3883521.436	85.9204572	3.898729723	5.992796586	168924.5456	168924.5456	385.4515921	1.08	0.05	0.08	0.05	22.99
2016	SC	Construction and Mining	12	Cranes	500	5949420.069	106.3839437	4.444238936	6.930704791	5948657.309	100.9375775	4.166851762	6.541571742	167410.5433	167410.5433	369.7299379	1.27	0.05	0.08	0.05	35.53
2016	SC	Construction and Mining	12	Cranes	750	1567724.532	20.35640627	0.721297633	1.139524745	1567724.532	20.35640627	0.721297633	1.139524745	26197.37065	26197.37065	54.21260086	1.55	0.06	0.09	0.05	59.84
2016	SC	Construction and Mining	12	Cranes	1000	367010.4724	12.91426401	0.640695143	0.959036049	367010.4724	12.91426401	0.640695143	0.959036049	3724.105496	3724.105496	8.131890129	6.94	0.34	0.52	0.32	98.55
2016	SC	Construction and Mining	12	Cranes	9999	28267.30854	0.196003712	0.004793506	0.009943449	28267.30854	0.196003712	0.004793506	0.009943449	259.5600876	259.5600876	0.542126009	1.51	0.04	0.08	0.03	108.90
2016	SC	Construction and Mining	13	Crawler Tractors	50	111328.147	1.950759221	0.228594144	0.651145901	111328.147	1.932635873	0.224205546	0.636917359	15225.68617	15225.68617	48.11649933	0.26	0.03	0.09	0.03	7.31
2016	SC	Construction and Mining	13	Crawler Tractors	120	4933429.4	109.2827485	9.237941	10.72699271	4931059.034	107.7087867	9.076620704	10.53295076	357143.3687	357143.3687	828.0849534	0.61	0.05	0.06	0.05	13.81
2016	SC	Construction and Mining	13	Crawler Tractors	175	5364967.49	110.7752156	6.136261611	8.538024598	5366821.323	108.3564202	5.974259197	8.320561153	228101.9438	228101.9438	541.7917824	0.97	0.05	0.07	0.05	23.53
2016	SC	Construction and Mining	13	Crawler Tractors	250	5411628.92	101.3825933	3.964769525	6.262415699	5411490.452	98.06004525	3.781088684	6.013541853	169120.1221	169120.1221	395.9987895	1.20	0.05	0.07	0.04	32.00
2016	SC	Construction and Mining	13	Crawler Tractors	500	14523509.43	241.7326827	9.505963527	15.16442217	14522495.41	228.3786352	8.848075477	14.23358524	268643.6801	268643.6801	636.5812861	1.80	0.07	0.11	0.07	54.06
2016	SC	Construction and Mining	13	Crawler Tractors	750	5649958.762	80.61123628	2.972112772	4.884103045	5646740.024	79.94300149	2.9409222	4.837046534	62801.1432	62801.1432	130.3957132	2.57	0.09	0.16	0.09	89.91
2016	SC	Construction and Mining	13	Crawler Tractors	1000	747652.4975	16.72322097	0.494413382	0.889400099	747652.4975	16.72322097	0.494413382	0.889400099	5697.070309	5697.070309	11.54795984	5.87	0.17	0.31	0.16	131.23
2016	SC	Construction and Mining	13	Crawler Tractors	9999	395000.2949	7.517501117	0.20033606	0.353396835	395000.2949	7.517501117	0.20033606	0.353396835	1711.131438	1711.131438	2.88698996	8.79	0.23	0.41	0.22	230.84
2016	SC	Construction and Mining	14	Excavators	50	4457815.052	58.10311309	4.332363053	8.154426953	4457730.357	57.98794961	4.310308913	8.096889754	798945.9189	798945.9189	1178.485392	0.15	0.01	0.02	0.01	5.58
2016	SC	Construction and Mining	14	Excavators	120	5788512.434	84.32877285	6.214811868	7.101002544	5787816.228	82.69208792	6.043906122	6.903734711	510195.4084	510195.4084	852.3879197	0.33	0.02	0.03	0.02	11.34
2016	SC	Construction and Mining	14	Excavators	175	12193889.79	156.4833606	7.773027292	11.38368634	12191742.44	149.3370361	7.348118669	10.81276722	595223.1224	595223.1224	1082.971635	0.53	0.03	0.04	0.02	20.48
2016	SC	Construction and Mining	14	Excavators	250	15503200.28	182.1769146	5.98251371	10.9153199	15499035	170.5909898	5.386206376	10.07953236	505769.8383	505769.8383	931.0179315	0.72	0.02	0.04	0.02	30.64
2016	SC	Construction and Mining	14	Excavators	500	25711132.76	234.6823588	7.822903119	14.79928412	25705555.35	218.1046711	7.021906345	13.65554995	560124.296	560124.296	946.9368909	0.84	0.03	0.05	0.03	45.89
2016	SC	Construction and Mining	14	Excavators	750	2327832.512	23.91569695	0.782401992	1.42075925	2327927.494	23.6868643	0.777601991	1.409449235	28996.05069	28996.05069	48.23927106	1.65	0.05	0.10	0.05	80.28
2016	SC	Construction and Mining	14	Excavators	1000	261301.4526	5.162019734	0.165802895	0.276965703	261301.4526	4.374116089	0.117551693	0.206867357	2217.632823	2217.632823	3.859141685	4.66	0.15	0.25	0.14	117.83
2016	SC	Construction and Mining	14	Excavators	9999	508993.9864	5.615933073	0.147375174	0.282859578	508993.9864	5.615933073	0.147375174	0.282859578	2336.736864	2336.736864	3.376748974	4.81	0.13	0.24	0.12	217.82
2016	SC	Construction and Mining	15	Graders	50	29434.68975	0.558005477	0.074483064	0.219791374	29434.68975	0.552292762	0.073220178	0.215948256	4801.466068	4801.466068	15.03036505	0.23	0.03	0.09	0.03	6.13
2016	SC	Construction and Mining	15	Graders	120	795257.056	24.19027168	2.024678965	2.559154783	791912.103	22.52681578	1.866043378	2.358883043	58364.53455	58364.53455	160.0006602	0.83	0.07	0.09	0.06	13.57
2016	SC	Construction and Mining	15	Graders	175	7377323.667	186.0619809	10.51602584	15.12094811	7368641.166	179.0519744	10.05886992	14.52320138	325632.9025	325632.9025	748.6091495	1.14	0.06	0.09	0.06	22.63
2016	SC	Construction and Mining	15	Graders	250	12820681.45	218.393367	7.145034611	12.7308352	12819464.84	215.6771364	7.006676108	12.53676269	413697.4593	413697.4593	594.4266951	1.06	0.03	0.06	0.03	30.99
2016	SC	Construction and Mining	15	Graders	500	3652990.455	40.61895852	1.590909853	3.046106223	3653244.723	40.41477947	1.578914963	3.028987675	83019.49518	83019.49518	111.0307612	0.98	0.04	0.07	0.04	44.00
2016	SC	Construction and Mining	15	Graders	1000	35349.83281	0.986617011	0.034336406	0.062258095	35349.83281	0.986617011	0.034336406	0.062258095	296.0762656	296.0762656	0.484850485	6.66	0.23	0.42	0.21	119.39
2016	SC	Construction and Mining	15	Graders	9999	497976.1188	9.863889925	0.300446513	0.557793126	497976.1188	9.863889925	0.300446513	0.557793126	1669.03277	1669.03277	2.424252427	11.82	0.36	0.67	0.33	298.36
2016	SC	Construction and Mining	16	Off-Highway Tractors	50	1841081.936	28.34422006	2.84606296	7.015567541	1844757.3	26.88723522	2.523634114	6.104223615	275798.4303	275798.4303	451.4095528	0.21	0.02	0.05	0.02	6.69
2016	SC	Construction and Mining	16	Off-Highway Tractors	120	2354525.638	42.92919811	3.525742855	4.006121986	2350906.66	39.61235652	3.183788495	3.621479778	196080.1878	196080.1878	328.2113714	0.44	0.04	0.04	0.03	11.99
2016	SC	Construction and Mining	16	Off-Highway Tractors	175	2008228.335	27.50679969	1.404976112	1.979395198	2008354.101	27.1315372	1.377109304	1.943408558	79259.14768	79259.14768	124.6251874	0.69	0.04	0.05	0.03	25.34
2016	SC	Construction and Mining	16	Off-Highway Tractors	250	1680581.141	27.38296261	0.996813161	1.677992903	1681101.974	24.99277416	0.866174297	1.502705005	49384.10741	49384.10741	81.33933987	1.11	0.04	0.07	0.04	34.04

**Table C.18 CARB Offroad 2011 output**  
Used to calculate NOx, PM, HC, and fuel consumption

CalendarYear	AirBasin	Equipment Class	Equipment TypeID	Equipment Type	HorsepowerBin	lb/yr	ton/yr	ton/yr	ton/yr	lb/yr	ton/yr	ton/yr	ton/yr	hr/yr	hr/yr	Emissions per Equipment (lb/hr)					lb/hr
						BaseBSFC	BaseNOx	BasePM	BaseHC	ScenBSFC	ScenNOx	ScenPM	ScenHC	BaseActivity	ScenActivity	Population	NOx	PM	HC	PM2.5	BSFC per equipment
2016	SC	Construction and Mining	16	Off-Highway Tractors	500	4738768.489	52.10017195	1.89638508	3.294219388	4736739.569	45.73827257	1.574226023	2.854130988	88911.73312	88911.73312	139.8465843	1.17	0.04	0.07	0.04	53.27
2016	SC	Construction and Mining	16	Off-Highway Tractors	750	1193524.434	13.60454406	0.464854463	0.805022645	1191984.506	12.80059769	0.419531845	0.746001335	13013.29621	13013.29621	20.45375213	2.09	0.07	0.12	0.07	91.60
2016	SC	Construction and Mining	16	Off-Highway Tractors	1000	33828.68336	1.246948594	0.063441736	0.087173862	33828.68336	0.235714905	0.005822643	0.009008822	211.6561399	211.6561399	0.475668654	11.78	0.60	0.82	0.55	159.83
2016	SC	Construction and Mining	16	Off-Highway Tractors	9999	264345.0822	6.313474165	0.226906714	0.398927773	277494.4439	3.057203007	0.077877827	0.144255056	982.7499366	982.7499366	1.902674617	12.85	0.46	0.81	0.42	282.37
2016	SC	Construction and Mining	17	Off-Highway Trucks	50	176457.1617	2.876072615	0.298960095	0.679110337	176457.1617	2.876072615	0.298960095	0.679110337	40067.2193	40067.2193	26.86514842	0.14	0.01	0.03	0.01	4.40
2016	SC	Construction and Mining	17	Off-Highway Trucks	120	216321.1655	3.958454694	0.321484948	0.401442109	216380.0788	3.518901376	0.283417994	0.352265277	17983.28404	17983.28404	15.08218859	0.44	0.04	0.04	0.03	12.03
2016	SC	Construction and Mining	17	Off-Highway Trucks	175	4181373.369	60.59667388	3.377670065	5.094316209	4182434.387	58.67859034	3.253493024	4.93552552	188778.7051	188778.7051	144.2234284	0.64	0.04	0.05	0.03	22.16
2016	SC	Construction and Mining	17	Off-Highway Trucks	250	8580141.228	141.652964	6.355240927	10.81562806	8579367.875	125.2813007	5.392292249	9.562460697	292206.4531	292206.4531	246.9708381	0.97	0.04	0.07	0.04	29.36
2016	SC	Construction and Mining	17	Off-Highway Trucks	500	36470832.44	483.0192184	18.82808348	34.55097504	36459067.62	440.0563992	16.60193412	31.5671822	693402.5284	693402.5284	548.6146099	1.39	0.05	0.10	0.05	52.58
2016	SC	Construction and Mining	17	Off-Highway Trucks	750	13067793.69	233.0060435	9.99041869	17.07956341	13022758.72	180.7877094	7.268442766	13.45115881	141031.719	141031.719	125.3706926	3.30	0.14	0.24	0.13	92.34
2016	SC	Construction and Mining	17	Off-Highway Trucks	1000	9053176.021	172.7868251	5.079896454	9.445154091	9041829.963	164.0406608	4.767937821	8.825762431	71961.85465	71961.85465	57.50084399	4.80	0.14	0.26	0.13	125.65
2016	SC	Construction and Mining	17	Off-Highway Trucks	9999	13010907.59	215.1424326	6.545686019	12.85330107	12992205.18	218.0448645	6.715235175	13.12151066	52275.33291	52275.33291	37.23415308	8.23	0.25	0.49	0.23	248.53
2016	SC	Construction and Mining	18	Other Construction Equipment	50	997974.6602	14.78172666	1.33029349	2.872603646	997668.4874	14.71078042	1.316079626	2.831174149	153710.6104	153710.6104	348.5971185	0.19	0.02	0.04	0.02	6.49
2016	SC	Construction and Mining	18	Other Construction Equipment	120	3123175.977	60.12859346	4.722597412	5.541121237	3122417.047	59.41522127	4.656053857	5.460132773	251509.9729	251509.9729	615.0885899	0.48	0.04	0.04	0.03	12.41
2016	SC	Construction and Mining	18	Other Construction Equipment	175	1700588.416	32.1079047	1.718542702	2.414238002	1700463.156	29.84206704	1.569342949	2.223286932	73463.25201	73463.25201	191.4234513	0.87	0.05	0.07	0.04	23.15
2016	SC	Construction and Mining	18	Other Construction Equipment	250	2180589.962	36.64037952	1.383447185	2.203177545	2181897.172	34.36125869	1.266934101	2.048179862	65515.48208	65515.48208	171.718096	1.12	0.04	0.07	0.04	33.30
2016	SC	Construction and Mining	18	Other Construction Equipment	500	7448968.312	99.9132609	3.803914065	6.286981705	7442389.616	90.78238243	3.344143493	5.641996336	135842.7379	135842.7379	333.5835144	1.47	0.06	0.09	0.05	54.79
2016	SC	Construction and Mining	18	Other Construction Equipment	750	2903994.979	36.35729512	1.257764584	2.088434603	2903988.982	32.60846707	1.058128647	1.799440309	31805.48028	31805.48028	68.96874349	2.29	0.08	0.13	0.07	91.30
2016	SC	Construction and Mining	18	Other Construction Equipment	1000	338521.8215	4.326820813	0.110256836	0.178544573	338521.8215	4.324884275	0.110162054	0.177823904	2679.854611	2679.854611	6.099276635	3.23	0.08	0.13	0.08	126.32
2016	SC	Construction and Mining	18	Other Construction Equipment	9999	210666.8985	3.487142076	0.097297322	0.167404401	210816.0575	3.232040531	0.090013006	0.159986047	1255.709778	1255.709778	2.815050755	5.55	0.15	0.27	0.14	167.89
2016	SC	Construction and Mining	19	Pavers	50	122212.9758	1.849462851	0.189769601	0.503905334	122212.9758	1.833779611	0.186960901	0.496431863	18585.11453	18585.11453	56.50185942	0.20	0.02	0.05	0.02	6.58
2016	SC	Construction and Mining	19	Pavers	120	1182171.602	21.35389554	1.664906611	1.958251431	1182661.848	21.00823102	1.629460747	1.916706921	97936.19184	97936.19184	274.504867	0.44	0.03	0.04	0.03	12.08
2016	SC	Construction and Mining	19	Pavers	175	1606430.327	24.36797425	1.221874119	1.799642047	1606478.612	23.49950689	1.167687255	1.72629554	66585.37626	66585.37626	185.5144384	0.73	0.04	0.05	0.03	24.13
2016	SC	Construction and Mining	19	Pavers	250	1084263.526	13.06543528	0.33858989	0.573003262	1084263.526	13.0547291	0.337684841	0.572550482	33231.09941	33231.09941	80.04430085	0.79	0.02	0.03	0.02	32.63
2016	SC	Construction and Mining	19	Pavers	500	408584.7844	3.577248862	0.119331001	0.184760842	408584.7844	3.577248862	0.119331001	0.184760842	8271.620253	8271.620253	19.7756508	0.86	0.03	0.04	0.03	49.40
2016	SC	Construction and Mining	19	Pavers	750	47243.98345	0.348222559	0.015233158	0.021348849	47243.98345	0.348222559	0.015233158	0.021348849	413.1927464	413.1927464	0.941697657	1.69	0.07	0.10	0.07	114.34
2016	SC	Construction and Mining	20	Paving Equipment	50	151929.597	2.078221487	0.171142611	0.353756053	151933.3997	2.064510793	0.167106113	0.339063527	30388.54371	30388.54371	69.57356127	0.14	0.01	0.02	0.01	5.00
2016	SC	Construction and Mining	20	Paving Equipment	120	691214.1234	12.2255874	0.93753113	1.108207013	691039.9877	11.85867964	0.906607956	1.06536345	59641.1498	59641.1498	141.9676723	0.41	0.03	0.04	0.03	11.59
2016	SC	Construction and Mining	20	Paving Equipment	175	650954.3593	8.866495323	0.444599578	0.631904877	650953.5652	8.471950935	0.420404728	0.602388702	33745.97457	33745.97457	77.56511898	0.53	0.03	0.04	0.02	19.29

**Table C.18 CARB Offroad 2011 output**  
Used to calculate NOx, PM, HC, and fuel consumption

CalendarYear	AirBasin	Equipment Class	EquipmentTypeID	Equipment Type	HorsepowerBin	lb/yr	ton/yr	ton/yr	ton/yr	lb/yr	ton/yr	ton/yr	ton/yr	hr/yr	hr/yr	Emissions per Equipment (lb/hr)					lb/hr
						BaseBSFC	BaseNOx	BasePM	BaseHC	ScenBSFC	ScenNOx	ScenPM	ScenHC	BaseActivity	ScenActivity	Population	NOx	PM	HC	PM2.5	BSFC per equipment
2016	SC	Construction and Mining	20	Paving Equipment	250	341162.2941	5.097003635	0.186000422	0.29783732	341177.6347	4.537374167	0.151323091	0.251567833	12137.76321	12137.76321	28.20549781	0.84	0.03	0.05	0.03	28.11
2016	SC	Construction and Mining	20	Paving Equipment	500	481278.824	6.637031312	0.243635451	0.38885996	481222.8609	6.352905123	0.226934217	0.366995671	10972.68566	10972.68566	25.38494803	1.21	0.04	0.07	0.04	43.86
2016	SC	Construction and Mining	20	Paving Equipment	750	228242.1714	2.669748959	0.064113577	0.129084517	228242.1714	2.669748959	0.064113577	0.129084517	2893.77895	2893.77895	6.111191193	1.85	0.04	0.09	0.04	78.87
2016	SC	Construction and Mining	20	Paving Equipment	1000	44632.81748	0.619335544	0.015285609	0.025384835	44632.81748	0.619335544	0.015285609	0.025384835	406.2561374	406.2561374	0.94018326	3.05	0.08	0.12	0.07	109.86
2016	SC	Construction and Mining	21	Rollers	50	2507266.677	35.88039602	3.200013749	7.296168777	2507708.729	35.39163864	3.105406065	7.035537375	458098.762	458098.762	1427.472268	0.16	0.01	0.03	0.01	5.47
2016	SC	Construction and Mining	21	Rollers	120	3919606.391	70.99570673	5.278027516	6.421882275	3918216.75	68.04869739	5.010922882	6.085485024	326267.7124	326267.7124	1064.555589	0.44	0.03	0.04	0.03	12.01
2016	SC	Construction and Mining	21	Rollers	175	4050337.682	53.74260322	2.52044132	3.569057745	4049774.499	51.58368301	2.397136823	3.397391185	204651.5427	204651.5427	615.5066862	0.53	0.02	0.03	0.02	19.79
2016	SC	Construction and Mining	21	Rollers	250	639571.6828	9.408814412	0.335694305	0.556900152	639897.1695	8.421199179	0.287393381	0.487763459	21725.37722	21725.37722	75.48666907	0.87	0.03	0.05	0.03	29.45
2016	SC	Construction and Mining	21	Rollers	500	403957.3089	6.494076434	0.266643941	0.414108183	404380.5856	5.335790216	0.207262607	0.330516142	8645.433908	8645.433908	30.96888987	1.50	0.06	0.10	0.06	46.77
2016	SC	Construction and Mining	21	Rollers	750	19682.40195	0.295903665	0.014227324	0.022492755	19682.40195	0.04084047	0.000527269	0.003265804	274.2062275	274.2062275	0.967777809	2.16	0.10	0.16	0.10	71.78
2016	SC	Construction and Mining	22	Rough Terrain	50	127684.3721	1.757001649	0.142963463	0.329883045	127684.3721	1.757001649	0.142963463	0.329883045	16444.4039	16444.4039	64.83513532	0.21	0.02	0.04	0.02	7.76
2016	SC	Construction and Mining	22	Rough Terrain	120	10281418.61	120.753939	6.765955705	7.93550465	10280402.73	118.3579129	6.569013475	7.682546617	722072.7083	722072.7083	2777.850194	0.33	0.02	0.02	0.02	14.24
2016	SC	Construction and Mining	22	Rough Terrain	175	1889155.14	18.75861373	0.737777055	1.025301523	1889155.14	18.22669714	0.706808604	0.980168024	98917.71126	98917.71126	371.6841809	0.38	0.01	0.02	0.01	19.10
2016	SC	Construction and Mining	22	Rough Terrain	250	155403.4508	2.874590413	0.128716962	0.197575804	155279.4521	1.149560759	0.027331275	0.05539222	5045.160746	5045.160746	21.79801963	1.14	0.05	0.08	0.05	30.78
2016	SC	Construction and Mining	22	Rough Terrain	500	65834.88277	0.936932696	0.028920462	0.048444904	65834.88277	0.707227202	0.01559459	0.029352168	1205.24607	1205.24607	5.030312223	1.55	0.05	0.08	0.04	54.62
2016	SC	Construction and Mining	22	Rough Terrain	750	10302.60342	0.469152355	0.02513885	0.037737167	10302.60342	0.04072826	0.000279671	0.002220377	111.731299	111.731299	0.55892358	8.40	0.45	0.68	0.41	92.21
2016	SC	Construction and Mining	23	Rubber Tired Dozers	50	109921.0089	2.015257494	0.26691665	0.742950908	109921.0089	2.015257494	0.26691665	0.742950908	16632.21732	16632.21732	18.89241863	0.24	0.03	0.09	0.03	6.61
2016	SC	Construction and Mining	23	Rubber Tired Dozers	120	524821.4326	15.02689631	1.35167914	1.607420058	527446.4038	14.63162371	1.312130329	1.559789369	43951.22473	43951.22473	56.2164652	0.68	0.06	0.07	0.06	12.00
2016	SC	Construction and Mining	23	Rubber Tired Dozers	175	439374.1172	12.96162495	0.744210256	1.052382861	439374.1172	12.96162495	0.744210256	1.052382861	20168.63905	20168.63905	29.029814	1.29	0.07	0.10	0.07	21.79
2016	SC	Construction and Mining	23	Rubber Tired Dozers	250	458380.6881	10.93585774	0.540673578	0.831646859	458380.6881	10.93585774	0.540673578	0.831646859	14878.48238	14878.48238	22.57874422	1.47	0.07	0.11	0.07	30.81
2016	SC	Construction and Mining	23	Rubber Tired Dozers	500	5248921.982	124.5881162	5.8214138	9.182453058	5241826.56	119.699112	5.569571069	8.831131822	100628.0804	100628.0804	150.6785584	2.48	0.12	0.18	0.11	52.09
2016	SC	Construction and Mining	23	Rubber Tired Dozers	750	617236.8797	13.91448339	0.51382097	0.845555796	617236.8797	13.26009877	0.480343419	0.799882802	7268.052084	7268.052084	9.215813968	3.83	0.14	0.23	0.13	84.92
2016	SC	Construction and Mining	24	Rubber Tired Loaders	50	348046.0557	5.76834499	0.633620986	1.63250419	348037.3443	5.69928229	0.621149613	1.599409047	56625.60992	56625.60992	71.08196139	0.20	0.02	0.06	0.02	6.15
2016	SC	Construction and Mining	24	Rubber Tired Loaders	120	8480481.385	176.8788007	15.27714123	17.94173631	8473707.332	169.7531394	14.57111602	17.10320118	750511.6465	750511.6465	883.7216822	0.47	0.04	0.05	0.04	11.29
2016	SC	Construction and Mining	24	Rubber Tired Loaders	175	20117573.99	359.7556431	20.25836399	29.39146127	20120047.42	346.7047079	19.33460609	28.28655913	1012242.675	1012242.675	1157.963574	0.71	0.04	0.06	0.04	19.88
2016	SC	Construction and Mining	24	Rubber Tired Loaders	250	27731868.32	439.3836565	15.17403944	28.00647472	27727671.22	428.105142	14.60070494	27.20092557	1019191.521	1019191.521	1029.24759	0.86	0.03	0.05	0.03	27.21
2016	SC	Construction and Mining	24	Rubber Tired Loaders	500	36223985.16	565.8600645	21.78705617	39.37018465	36057543.42	506.8813417	19.03945532	35.40778363	859142.9743	859142.9743	956.2444941	1.32	0.05	0.09	0.05	41.97
2016	SC	Construction and Mining	24	Rubber Tired Loaders	750	6388434.348	90.77353151	3.646858174	6.652893045	6412051.988	82.66603152	3.249788343	6.106235816	82746.53314	82746.53314	84.52990003	2.19	0.09	0.16	0.08	77.49
2016	SC	Construction and Mining	24	Rubber Tired Loaders	1000	1860318.294	37.67601057	1.108565189	1.966644445	1860318.294	37.67341757	1.108370987	1.96544313	16788.01084	16788.01084	15.36907273	4.49	0.13	0.23	0.12	110.81
2016	SC	Construction and Mining	24	Rubber Tired Loaders	9999	739805.991	14.37868869	0.422273809	0.80195848	739805.991	12.39864219	0.34318383	0.648204272	3687.574802	3687.574802	3.36198466	7.80	0.23	0.43	0.21	200.62
2016	SC	Construction and Mining	25	Scrapers	50	7979.886876	0.146510985	0.01980085	0.058509574	7979.886876	0.146510985	0.01980085	0.058509574	1126.558452	1126.558452	3.322802725	0.26	0.04	0.10	0.03	7.08
2016	SC	Construction and Mining	25	Scrapers	120	364415.8213	7.62242911	0.579499452	0.654738319	364415.8213	7.62242911	0.579499452	0.654738319	23797.35358	23797.35358	47.94329646	0.64	0.05	0.06	0.04	15.31
2016	SC	Construction and Mining	25	Scrapers	175	3846382.816	87.16337682	4.707236233	6.731224304	3845307.586	84.07657537	4.516623111	6.469635591	128857.256	128857.256	308.0712812	1.35	0.07	0.10	0.07	29.84

**Table C.18 CARB Offroad 2011 output**  
Used to calculate NOx, PM, HC, and fuel consumption

CalendarYear	AirBasin	Equipment Class	EquipmentTypeID	Equipment Type	HorsepowerBin	lb/yr	ton/yr	ton/yr	ton/yr	lb/yr	ton/yr	ton/yr	ton/yr	hr/yr	hr/yr	Population	Emissions per Equipment (lb/hr)				lb/hr
						BaseBSFC	BaseNOx	BasePM	BaseHC	ScenBSFC	ScenNOx	ScenPM	ScenHC	BaseActivity	ScenActivity		NOx	PM	HC	PM2.5	BSFC per equipment
2016	SC	Construction and Mining	25	Scrapers	250	4419547.931	118.409908	5.45101237	8.33582639	4415361.051	108.3690137	4.903882887	7.556534237	111715.9438	111715.9438	299.0522453	2.12	0.10	0.15	0.09	39.52
2016	SC	Construction and Mining	25	Scrapers	500	38692060.04	720.1683074	29.58267701	47.14622391	38667446.83	668.4101168	26.94125141	43.40171453	572499.55	572499.55	1314.405821	2.52	0.10	0.16	0.10	67.54
2016	SC	Construction and Mining	25	Scrapers	750	17713260.49	263.5412289	10.23043719	16.76957772	17708137.28	238.2759675	8.899766603	14.92438826	176875.7025	176875.7025	374.5273357	2.98	0.12	0.19	0.11	100.12
2016	SC	Construction and Mining	25	Scrapers	1000	277000.1293	11.14201174	0.519481322	0.807017109	277000.1293	11.14201174	0.519481322	0.807017109	1646.959816	1646.959816	6.170919347	13.53	0.63	0.98	0.58	168.19
2016	SC	Construction and Mining	25	Scrapers	9999	1006831.392	22.06385026	0.84187135	1.303417049	1006831.392	22.06385026	0.84187135	1.303417049	2893.616604	2893.616604	6.170919347	15.25	0.58	0.90	0.54	347.95
2016	SC	Construction and Mining	26	Skid Steer Loaders	50	1895426.186	21.9005995	1.249862665	2.584067143	1895352.337	21.75655021	1.226345623	2.524590487	288708.7037	288708.7037	988.9254903	0.15	0.01	0.02	0.01	6.56
2016	SC	Construction and Mining	26	Skid Steer Loaders	120	10069434.44	107.4506088	6.029345051	6.892222261	10069459.94	106.8637461	5.968320553	6.825311225	1055278.133	1055278.133	3191.331689	0.20	0.01	0.01	0.01	9.54
2016	SC	Construction and Mining	26	Skid Steer Loaders	175	67773.63925	0.710027689	0.032543983	0.044651693	68101.09535	0.803513095	0.037394995	0.051655174	3316.611828	3316.611828	13.23797136	0.43	0.02	0.03	0.02	20.53
2016	SC	Construction and Mining	26	Skid Steer Loaders	250	52342.05975	0.577974656	0.021163605	0.033982908	52342.92112	0.559217871	0.020415996	0.033062773	1960.820681	1960.820681	7.354428535	0.59	0.02	0.03	0.02	26.69
2016	SC	Construction and Mining	26	Skid Steer Loaders	500	14372.31427	0.061453178	0.001618634	0.003604319	14372.31427	0.061453178	0.001618634	0.003604319	394.4508076	394.4508076	1.470885707	0.31	0.01	0.02	0.01	36.44
2016	SC	Construction and Mining	26	Skid Steer Loaders	750	15160.89741	0.109981055	0.004628349	0.005796649	15160.89741	0.109981055	0.004628349	0.005796649	211.5170997	211.5170997	0.490295236	1.04	0.04	0.05	0.04	71.68
2016	SC	Construction and Mining	26	Skid Steer Loaders	1000	24739.86319	0.285378533	0.006992509	0.012539922	24739.86319	0.29671908	0.0094446	0.014857694	182.9337079	182.9337079	0.980590471	3.12	0.08	0.14	0.07	135.24
2016	SC	Construction and Mining	27	Surfacing Equipment	50	17457.22422	0.25394217	0.020608962	0.045216318	17457.22422	0.245150539	0.018882712	0.040143511	3922.304383	3922.304383	17.34716609	0.13	0.01	0.02	0.01	4.45
2016	SC	Construction and Mining	27	Surfacing Equipment	120	137021.7692	2.109288102	0.146112035	0.180717681	137021.7692	2.083300501	0.143782823	0.177932046	13993.32794	13993.32794	55.59989133	0.30	0.02	0.03	0.02	9.79
2016	SC	Construction and Mining	27	Surfacing Equipment	175	70976.91388	1.209312036	0.05872146	0.083506716	70981.08929	1.167281725	0.05668946	0.080879755	4262.330132	4262.330132	18.68156349	0.57	0.03	0.04	0.03	16.65
2016	SC	Construction and Mining	27	Surfacing Equipment	250	150731.7841	2.375948758	0.072633078	0.122211115	150731.5034	2.264956897	0.06655823	0.113885339	6248.49518	6248.49518	28.02234523	0.76	0.02	0.04	0.02	24.12
2016	SC	Construction and Mining	27	Surfacing Equipment	500	476090.8136	5.225810435	0.171159851	0.275379637	476122.6106	4.995995683	0.160055739	0.25851282	11961.79483	11961.79483	46.25910958	0.87	0.03	0.05	0.03	39.80
2016	SC	Construction and Mining	27	Surfacing Equipment	750	442519.7435	3.821132366	0.122931889	0.177465445	442519.7435	3.821132366	0.122931889	0.177465445	6491.53107	6491.53107	23.12955479	1.18	0.04	0.05	0.03	68.17
2016	SC	Construction and Mining	27	Surfacing Equipment	1000	71938.07048	1.242186926	0.030608155	0.053878158	71938.07048	1.242186926	0.030608155	0.053878158	795.5256122	795.5256122	3.113593914	3.12	0.08	0.14	0.07	90.43
2016	SC	Construction and Mining	27	Surfacing Equipment	9999	25213.57255	0.296612942	0.006781529	0.010932043	25213.57255	0.296612942	0.006781529	0.010932043	202.9008168	202.9008168	0.889598261	2.92	0.07	0.11	0.06	124.27
2016	SC	Construction and Mining	28	Tractors/Loaders/Backhoes	50	3754621.4	54.5298572	4.839514714	11.05354461	3756118.845	53.79781205	4.691316333	10.66325314	663156.3115	663156.3115	1383.926419	0.16	0.01	0.03	0.01	5.66
2016	SC	Construction and Mining	28	Tractors/Loaders/Backhoes	120	60518841.11	945.5726951	73.43472798	82.42043571	60475697.45	924.5772575	71.18654266	79.94895042	5355427.232	5355427.232	9396.715725	0.35	0.03	0.03	0.03	11.29
2016	SC	Construction and Mining	28	Tractors/Loaders/Backhoes	175	10452069.22	142.2747003	7.251726965	10.48318289	10455691.86	138.4967848	7.019500788	10.17224942	540895.9331	540895.9331	1051.205433	0.53	0.03	0.04	0.02	19.33
2016	SC	Construction and Mining	28	Tractors/Loaders/Backhoes	250	6065055.654	83.32418565	2.768136869	4.859613657	6064677.776	80.90384552	2.647760891	4.693368075	220349.0059	220349.0059	420.4821733	0.76	0.03	0.04	0.02	27.52
2016	SC	Construction and Mining	28	Tractors/Loaders/Backhoes	500	8170848.929	99.26078522	3.446776392	6.14023525	8145591.196	92.80334026	3.21144418	5.749150425	188466.0279	188466.0279	379.4948055	1.05	0.04	0.07	0.03	43.22
2016	SC	Construction and Mining	28	Tractors/Loaders/Backhoes	750	1155408.679	14.5223042	0.535559836	0.91144128	1155830.65	14.10616643	0.506501994	0.870171282	15027.59659	15027.59659	26.521238	1.93	0.07	0.12	0.07	76.91
2016	SC	Construction and Mining	28	Tractors/Loaders/Backhoes	1000	195107.7148	2.23167557	0.050946722	0.088896988	195107.7148	2.23167557	0.050946722	0.088896988	1638.87148	1638.87148	2.411021636	2.72	0.06	0.11	0.06	119.05
2016	SC	Construction and Mining	28	Tractors/Loaders/Backhoes	9999	2737145.025	43.06517612	1.310240727	2.211114442	2737145.025	41.93529322	1.256524238	2.127905401	10076.16791	10076.16791	17.84156011	8.55	0.26	0.44	0.24	271.65
2016	SC	Construction and Mining	29	Trenchers	50	1329665.392	19.02886931	1.716913904	3.659419486	1329595.018	18.9212329	1.695384994	3.597165164	162086.6409	162086.6409	453.837072	0.23	0.02	0.05	0.02	8.20
2016	SC	Construction and Mining	29	Trenchers	120	963591.0225	20.21249954	1.591287188	1.913517102	962930.6791	19.81571638	1.554166368	1.869569677	63164.08909	63164.08909	210.4153697	0.64	0.05	0.06	0.05	15.24
2016	SC	Construction and Mining	29	Trenchers	175	196454.7436	4.178222521	0.217638004	0.316708732	196550.375	3.872492828	0.195163401	0.286670338	7472.453576	7472.453576	27.84909305	1.12	0.06	0.08	0.05	26.30
2016	SC	Construction and Mining	29	Trenchers	250	385023.2074	7.447163866	0.298617882	0.475818869	384953.1219	7.283429224	0.290058966	0.464853963	9537.94051	9537.94051	33.00633251	1.56	0.06	0.10	0.06	40.36
2016	SC	Construction and Mining	29	Trenchers	500	648445.3919	8.026756972	0.292607293	0.478009934	648445.3919	8.011147267	0.292601797	0.477485468	9841.339769	9841.339769	29.91198884	1.63	0.06	0.10	0.05	65.89

**Table C.18 CARB Offroad 2011 output**  
Used to calculate NOx, PM, HC, and fuel consumption

CalendarYear	AirBasin	Equipment Class	EquipmentTypeID	Equipment Type	HorsepowerBin	lb/yr	ton/yr	ton/yr	ton/yr	lb/yr	ton/yr	ton/yr	ton/yr	hr/yr	hr/yr	Emissions per Equipment (lb/hr)				lb/hr	
						BaseBSFC	BaseNOx	BasePM	BaseHC	ScenBSFC	ScenNOx	ScenPM	ScenHC	BaseActivity	ScenActivity	Population	NOx	PM	HC	PM2.5	BSFC per equipment
2016	SC	Construction and Mining	29	Trenchers	750	293326.2926	1.42769512	0.047169056	0.086652312	293326.2926	1.42769512	0.047169056	0.086652312	2553.405529	2553.405529	6.188687345	1.12	0.04	0.07	0.03	114.88
2016	SC	Construction and Mining	29	Trenchers	1000	17322.83453	0.685354753	0.031242969	0.049003326	17322.83453	0.685354753	0.031242969	0.049003326	109.224075	109.224075	0.515723945	12.55	0.57	0.90	0.53	158.60
2016	SC	Construction and Mining	36	Sweepers/Scrubbers	50	1156005.874	18.03321872	1.913303746	4.685371229	1156005.874	17.86561651	1.881076877	4.593319599	174579.9395	174579.9395	266.3877912	0.21	0.02	0.05	0.02	6.62
2016	SC	Construction and Mining	36	Sweepers/Scrubbers	120	1786645.415	36.08544584	3.216937198	3.650556438	1786645.415	34.48394043	3.049205748	3.455888985	137229.8311	137229.8311	216.8820955	0.53	0.05	0.05	0.04	13.02
2016	SC	Construction and Mining	36	Sweepers/Scrubbers	175	445660.7339	11.46945943	0.629763462	0.915438049	445660.7339	10.40057603	0.559320946	0.822959732	16675.92524	16675.92524	24.98858927	1.38	0.08	0.11	0.07	26.72
2016	SC	Construction and Mining	36	Sweepers/Scrubbers	250	237519.2086	4.858477963	0.193299328	0.308246747	237519.2086	4.858477963	0.193299328	0.308246747	6977.926474	6977.926474	10.37262196	1.39	0.06	0.09	0.05	34.04
2016	SC	Construction and Mining	36	Sweepers/Scrubbers	500	66264.75268	1.208568544	0.052760341	0.078108036	66264.75268	1.208568544	0.052760341	0.078108036	1310.108978	1310.108978	1.885931265	1.84	0.08	0.12	0.07	50.58
2016	SC	Construction and Mining	36	Sweepers/Scrubbers	1000	46440.09114	0.571693141	0.015118741	0.021572555	46440.09114	0.571693141	0.015118741	0.021572555	327.5272445	327.5272445	0.471482816	3.49	0.09	0.13	0.08	141.79
2017	SC	Construction and Mining	11	Bore/Drill Rigs	50	116076.6779	1.574219317	0.11073932	0.210781082	115781.4734	1.555867872	0.107782918	0.204242746	14125.15166	14125.15166	42.24109851	0.22	0.02	0.03	0.01	8.20
2017	SC	Construction and Mining	11	Bore/Drill Rigs	120	716513.9582	8.148049761	0.466220421	0.545193288	717467.9336	8.153877469	0.466979554	0.54482444	48516.12114	48516.12114	129.3911544	0.34	0.02	0.02	0.02	14.79
2017	SC	Construction and Mining	11	Bore/Drill Rigs	175	835970.4186	7.810236232	0.350458649	0.530831045	835985.2008	7.407133476	0.326041715	0.501764491	30186.17271	30186.17271	101.3786364	0.52	0.02	0.04	0.02	27.69
2017	SC	Construction and Mining	11	Bore/Drill Rigs	250	1182935.027	9.711549092	0.293969108	0.561745539	1183153.072	9.035709057	0.259738409	0.513805758	31139.79705	31139.79705	100.9339933	0.62	0.02	0.04	0.02	37.99
2017	SC	Construction and Mining	11	Bore/Drill Rigs	500	1322229.066	10.682761	0.341370504	0.624427642	1323791.59	9.582903475	0.292696475	0.554898275	20927.63387	20927.63387	70.69825961	1.02	0.03	0.06	0.03	63.26
2017	SC	Construction and Mining	11	Bore/Drill Rigs	750	1811698.896	11.64590652	0.386079628	0.689708936	1811667.177	11.57586382	0.383646621	0.686446443	15835.30468	15835.30468	35.12680823	1.47	0.05	0.09	0.04	114.41
2017	SC	Construction and Mining	11	Bore/Drill Rigs	1000	142908.0727	1.296916745	0.025716963	0.042788951	142908.0727	1.296916745	0.025716963	0.042788951	843.4828761	843.4828761	1.333929427	3.08	0.06	0.10	0.06	169.43
2017	SC	Construction and Mining	11	Bore/Drill Rigs	9999	484316.3778	6.241195809	0.155354503	0.225988097	484316.3778	6.241195809	0.155354503	0.225988097	984.8232498	984.8232498	1.333929427	12.67	0.32	0.46	0.29	491.78
2017	SC	Construction and Mining	12	Cranes	50	38172.46053	0.647413544	0.066463507	0.193715861	38172.46053	0.642029695	0.064765351	0.187603189	8097.831947	8097.831947	19.56625325	0.16	0.02	0.05	0.02	4.71
2017	SC	Construction and Mining	12	Cranes	120	910289.3433	27.22228952	2.027236301	2.727194823	910550.5856	25.16259124	1.862963672	2.490971542	97314.6828	97314.6828	235.9131106	0.56	0.04	0.06	0.04	9.36
2017	SC	Construction and Mining	12	Cranes	175	2403662.65	57.52415343	3.139343571	4.521870687	2403483.238	52.83450011	2.852743208	4.130272867	152849.3273	152849.3273	353.8696659	0.75	0.04	0.06	0.04	15.72
2017	SC	Construction and Mining	12	Cranes	250	4060087.102	91.75633514	4.242404443	6.503187708	4060252.987	80.98509605	3.610461745	5.637571241	176576.5701	176576.5701	397.4744588	1.04	0.05	0.07	0.04	22.99
2017	SC	Construction and Mining	12	Cranes	500	6221379.872	106.8273871	4.464664387	7.026089488	6220837.171	97.72436459	3.967770283	6.331253819	174993.9858	174993.9858	381.2624204	1.22	0.05	0.08	0.05	35.55
2017	SC	Construction and Mining	12	Cranes	750	1638682.49	21.18522094	0.753817631	1.209126725	1638633.859	20.50919616	0.725543742	1.16854273	27384.07162	27384.07162	55.9035807	1.55	0.06	0.09	0.05	59.84
2017	SC	Construction and Mining	12	Cranes	1000	383613.7008	13.51617183	0.670850548	1.004646571	383613.7008	13.51617183	0.670850548	1.004646571	3892.8018	3892.8018	8.385537106	6.94	0.34	0.52	0.32	98.54
2017	SC	Construction and Mining	12	Cranes	9999	29547.77454	0.206085602	0.005100759	0.011155405	29547.77454	0.206085602	0.005100759	0.011155405	271.317764	271.317764	0.559035807	1.52	0.04	0.08	0.03	108.90
2017	SC	Construction and Mining	13	Crawler Tractors	50	116384.274	2.017116495	0.234981881	0.673312776	116384.274	1.985376745	0.227569994	0.649913675	15915.38656	15915.38656	49.61733178	0.25	0.03	0.08	0.03	7.31
2017	SC	Construction and Mining	13	Crawler Tractors	120	5157427.67	112.5313729	9.564752103	11.1234599	5154001.033	109.4475923	9.251560162	10.75892246	373321.4191	373321.4191	853.9142799	0.60	0.05	0.06	0.05	13.81
2017	SC	Construction and Mining	13	Crawler Tractors	175	5608721.971	114.3848863	6.37854839	8.894223809	5609443.84	110.422973	6.128255864	8.557999668	238434.6142	238434.6142	558.6911558	0.96	0.05	0.07	0.05	23.53
2017	SC	Construction and Mining	13	Crawler Tractors	250	5659877.356	104.1484504	4.073613985	6.492495923	5660737.046	97.62462346	3.726746842	6.016468078	176781.006	176781.006	408.3506405	1.18	0.05	0.07	0.04	32.02
2017	SC	Construction and Mining	13	Crawler Tractors	500	15183829.24	246.3401356	9.71703647	15.67399181	15180832.92	227.4298959	8.801298492	14.38452546	280812.8295	280812.8295	656.4372994	1.75	0.07	0.11	0.06	54.06
2017	SC	Construction and Mining	13	Crawler Tractors	750	5900752.744	80.31528576	2.973098918	4.96035774	5899415.385	77.14777559	2.824313106	4.74282201	65645.93929	65645.93929	134.4629691	2.45	0.09	0.15	0.08	89.87
2017	SC	Construction and Mining	13	Crawler Tractors	1000	781726.9762	17.55876582	0.520594234	0.936027075	781726.9762	17.55876582	0.520594234	0.936027075	5955.138912	5955.138912	11.90815963	5.90	0.17	0.31	0.16	131.27
2017	SC	Construction and Mining	13	Crawler Tractors	9999	412893.2063	7.891988744	0.211663423	0.373837887	412893.2063	7.891988744	0.211663423	0.373837887	1788.643085	1788.643085	2.977039907	8.82	0.24	0.42	0.22	230.84
2017	SC	Construction and Mining	14	Excavators	50	4658896.936	58.94837751	4.201281983	8.095449835	4658577.688	58.77864487	4.169590874	8.004664997	835136.9515	835136.9515	1215.244282	0.14	0.01	0.02	0.01	5.58

**Table C.18 CARB Offroad 2011 output**  
Used to calculate NOx, PM, HC, and fuel consumption

CalendarYear	AirBasin	Equipment Class	Equipment TypeID	Equipment Type	HorsepowerBin	lb/yr	ton/yr	ton/yr	ton/yr	lb/yr	ton/yr	ton/yr	ton/yr	hr/yr	hr/yr	Emissions per Equipment (lb/hr)					lb/hr
						BaseBSFC	BaseNOx	BasePM	BaseHC	ScenBSFC	ScenNOx	ScenPM	ScenHC	BaseActivity	ScenActivity	Population	NOx	PM	HC	PM2.5	BSFC per equipment
2017	SC	Construction and Mining	14	Excavators	120	6051556.784	82.884818	5.969365775	6.977888586	6052818.728	80.40602702	5.696665293	6.674997888	533306.4829	533306.4829	878.9752954	0.31	0.02	0.03	0.02	11.35
2017	SC	Construction and Mining	14	Excavators	175	12743545.64	149.1814092	7.421939219	11.16226666	12741458.56	141.5173456	6.962751174	10.54644351	622185.8228	622185.8228	1116.751295	0.48	0.02	0.04	0.02	20.48
2017	SC	Construction and Mining	14	Excavators	250	16202055.21	172.357623	5.703819107	10.73838783	16193519.67	161.3664921	5.108654832	9.911798503	528680.4412	528680.4412	960.0579061	0.65	0.02	0.04	0.02	30.63
2017	SC	Construction and Mining	14	Excavators	500	26892098.39	220.9800842	7.432797841	14.6181072	26889385.14	203.0868356	6.567390734	13.37612863	585497.0731	585497.0731	976.473404	0.75	0.03	0.05	0.02	45.93
2017	SC	Construction and Mining	14	Excavators	750	2436462.078	20.94991159	0.709687723	1.349543913	2436768.158	20.05300455	0.663244665	1.279060418	30309.5276	30309.5276	49.74393296	1.38	0.05	0.09	0.04	80.40
2017	SC	Construction and Mining	14	Excavators	1000	270916.3173	3.897105697	0.093288375	0.168865587	270834.5221	3.887990087	0.092940198	0.167571074	2318.08821	2318.08821	3.979514637	3.36	0.08	0.15	0.07	116.84
2017	SC	Construction and Mining	14	Excavators	9999	532050.6383	5.907627345	0.156200573	0.309070501	532050.6383	5.907627345	0.156200573	0.309070501	2442.587483	2442.587483	3.482075307	4.84	0.13	0.25	0.12	217.82
2017	SC	Construction and Mining	15	Graders	50	30770.48182	0.584210309	0.078116437	0.230450308	30770.48182	0.568745137	0.074685289	0.220036311	5018.965164	5018.965164	15.49918676	0.23	0.03	0.09	0.03	6.13
2017	SC	Construction and Mining	15	Graders	120	831124.0773	25.20384136	2.108648391	2.66945031	828751.1278	22.98793162	1.897061623	2.40687096	61008.35902	61008.35902	164.9913429	0.83	0.07	0.09	0.06	13.58
2017	SC	Construction and Mining	15	Graders	175	7700636.055	188.0709282	10.6420202	15.35726153	7681813.437	173.845108	9.765255195	14.19533331	340383.5767	340383.5767	771.9594954	1.11	0.06	0.09	0.06	22.57
2017	SC	Construction and Mining	15	Graders	250	13404217.72	225.1871987	7.431548907	13.39486859	13401768.04	219.9564361	7.172967684	13.03264309	432437.3237	432437.3237	612.9678376	1.04	0.03	0.06	0.03	30.99
2017	SC	Construction and Mining	15	Graders	500	3817433.869	41.72552291	1.643938289	3.233350648	3818473.422	40.77030456	1.596816432	3.165544406	86780.1518	86780.1518	114.4939925	0.96	0.04	0.07	0.03	44.00
2017	SC	Construction and Mining	15	Graders	1000	36951.12637	1.031309258	0.035891793	0.065078291	36951.12637	1.031309258	0.035891793	0.065078291	309.4880692	309.4880692	0.499973766	6.66	0.23	0.42	0.21	119.39
2017	SC	Construction and Mining	15	Graders	9999	520533.6781	10.35956225	0.317212992	0.59381554	520533.6781	10.35956225	0.317212992	0.59381554	1744.637412	1744.637412	2.499868832	11.88	0.36	0.68	0.33	298.36
2017	SC	Construction and Mining	16	Off-Highway Tractors	50	1924732.249	29.2345262	2.890701868	7.13958646	1930234.087	27.10053189	2.415677759	5.793227426	288291.6789	288291.6789	465.4897564	0.20	0.02	0.05	0.02	6.70
2017	SC	Construction and Mining	16	Off-Highway Tractors	120	2460102.672	42.65162562	3.478692481	3.970875915	2456012.013	38.99236613	3.100873246	3.55381933	204962.3215	204962.3215	338.4488218	0.42	0.03	0.04	0.03	11.98
2017	SC	Construction and Mining	16	Off-Highway Tractors	175	2097802.862	25.9098133	1.325427494	1.900454732	2097253.327	25.31137855	1.288295425	1.849029413	82849.46629	82849.46629	128.5124512	0.63	0.03	0.05	0.03	25.31
2017	SC	Construction and Mining	16	Off-Highway Tractors	250	1756021.335	26.74745924	0.989929503	1.691443674	1758002.356	23.22209674	0.800928261	1.434372994	51621.13222	51621.13222	83.87644714	1.04	0.04	0.07	0.04	34.06
2017	SC	Construction and Mining	16	Off-Highway Tractors	500	4947567.95	47.8526249	1.761855533	3.176712985	4947194.03	40.19541942	1.391217136	2.667267324	92939.29914	92939.29914	144.2086284	1.03	0.04	0.07	0.03	53.23
2017	SC	Construction and Mining	16	Off-Highway Tractors	750	1246539.054	11.40975171	0.416541002	0.752408521	1245272.957	12.44735985	0.418830681	0.766192491	13602.7787	13602.7787	21.09173817	1.68	0.06	0.11	0.06	91.55
2017	SC	Construction and Mining	16	Off-Highway Tractors	1000	35361.07117	1.303433465	0.06631555	0.091122705	35361.07117	0.248477998	0.006242598	0.010383132	221.2438405	221.2438405	0.490505539	11.78	0.60	0.82	0.55	159.83
2017	SC	Construction and Mining	16	Off-Highway Tractors	9999	276532.6916	6.630743844	0.239081111	0.420772608	290232.3777	3.211045601	0.08250995	0.158125884	1027.267011	1027.267011	1.962022155	12.91	0.47	0.82	0.43	282.53
2017	SC	Construction and Mining	17	Off-Highway Trucks	50	184972.9705	2.843392775	0.271663381	0.609743177	184972.9705	2.843392775	0.271663381	0.609743177	41882.20327	41882.20327	27.70311642	0.14	0.01	0.03	0.01	4.42
2017	SC	Construction and Mining	17	Off-Highway Trucks	120	226104.2653	3.79292451	0.311299676	0.386663095	226165.6734	3.299906458	0.262074503	0.331002514	18797.8994	18797.8994	15.55262676	0.40	0.03	0.04	0.03	12.03
2017	SC	Construction and Mining	17	Off-Highway Trucks	175	4372710.501	58.70397496	3.254405987	5.042383759	4373654.46	55.91743958	3.080508759	4.813840346	197330.0928	197330.0928	148.7219934	0.59	0.03	0.05	0.03	22.16
2017	SC	Construction and Mining	17	Off-Highway Trucks	250	8970145.473	136.1279835	6.101048841	10.63427177	8970372.052	118.5129996	5.120712822	9.355108949	305442.9601	305442.9601	254.6742632	0.89	0.04	0.07	0.04	29.37
2017	SC	Construction and Mining	17	Off-Highway Trucks	500	38092660.45	473.1037666	18.35271534	34.41654051	38072775.14	416.8573061	15.47463006	30.54680699	724812.6062	724812.6062	565.7267984	1.31	0.05	0.09	0.05	52.53
2017	SC	Construction and Mining	17	Off-Highway Trucks	750	13628773.22	222.9619885	9.487325314	16.64238839	13604768.78	173.2681096	6.927299408	13.24408181	147420.241	147420.241	129.2812099	3.02	0.13	0.23	0.12	92.29
2017	SC	Construction and Mining	17	Off-Highway Trucks	1000	9452180.787	171.9909189	4.974672366	9.374589334	9437258.632	160.5994143	4.519276349	8.501218943	75221.617	75221.617	59.29438953	4.57	0.13	0.25	0.12	125.46
2017	SC	Construction and Mining	17	Off-Highway Trucks	9999	13615522.14	219.4289812	6.602510933	13.26343534	13616756.31	209.2883253	6.212754663	12.52085479	54643.32583	54643.32583	38.39554732	8.03	0.24	0.49	0.22	249.19
2017	SC	Construction and Mining	18	Other Construction Equipment	50	1042867.91	15.26203174	1.3562162	2.937692868	1042554.361	15.15751384	1.334877349	2.875186732	160673.4668	160673.4668	359.4704337	0.19	0.02	0.04	0.02	6.49
2017	SC	Construction and Mining	18	Other Construction Equipment	120	3264411.926	61.40797865	4.823349948	5.686556367	3263132.49	59.59526956	4.663077651	5.485090517	262902.9914	262902.9914	634.2742108	0.47	0.04	0.04	0.03	12.41



**Table C.18 CARB Offroad 2011 output**  
Used to calculate NOx, PM, HC, and fuel consumption

CalendarYear	AirBasin	Equipment Class	Equipment TypeID	Equipment Type	HorsepowerBin	lb/yr	ton/yr	ton/yr	ton/yr	lb/yr	ton/yr	ton/yr	ton/yr	hr/yr	hr/yr	Emissions per Equipment (lb/hr)					lb/hr
						BaseBSFC	BaseNOx	BasePM	BaseHC	ScenBSFC	ScenNOx	ScenPM	ScenHC	BaseActivity	ScenActivity	Population	NOx	PM	HC	PM2.5	BSFC per equipment
2017	SC	Construction and Mining	18	Other Construction Equipment	175	1776644.854	31.39808531	1.676626172	2.365193933	1776777.405	29.4598563	1.55647745	2.217605453	76791.02538	76791.02538	197.3942624	0.82	0.04	0.06	0.04	23.14
2017	SC	Construction and Mining	18	Other Construction Equipment	250	2278625.154	35.69895047	1.363312095	2.194990541	2280749.066	32.83605661	1.209168492	1.990311157	68483.23358	68483.23358	177.0742648	1.04	0.04	0.06	0.04	33.30
2017	SC	Construction and Mining	18	Other Construction Equipment	500	7779007.602	96.89085816	3.653408147	6.18330947	7769382.355	87.63994364	3.207126974	5.557494711	141996.2069	141996.2069	343.9885308	1.36	0.05	0.09	0.05	54.72
2017	SC	Construction and Mining	18	Other Construction Equipment	750	3034491.665	36.78051677	1.271951736	2.152042283	3034393.27	32.33442592	1.044976043	1.825332689	33246.22007	33246.22007	71.1199916	2.21	0.08	0.13	0.07	91.27
2017	SC	Construction and Mining	18	Other Construction Equipment	1000	353414.7205	4.084595909	0.096662546	0.15968359	353396.6987	4.07541807	0.096299833	0.158184289	2801.247941	2801.247941	6.289523066	2.92	0.07	0.11	0.06	126.16
2017	SC	Construction and Mining	18	Other Construction Equipment	9999	220164.1431	3.286545908	0.08845837	0.155236178	220330.243	3.020358892	0.080757456	0.147656297	1312.591517	1312.591517	2.9028568	5.01	0.13	0.24	0.12	167.86
2017	SC	Construction and Mining	19	Pavers	50	127750.2292	1.913576102	0.194390021	0.517268492	127750.2292	1.868029686	0.185419122	0.491438939	19426.9919	19426.9919	58.26424499	0.20	0.02	0.05	0.02	6.58
2017	SC	Construction and Mining	19	Pavers	120	1235085.098	21.98992587	1.711514136	2.019393255	1236176.38	21.2360136	1.631731983	1.927649736	102372.5521	102372.5521	283.0671236	0.43	0.03	0.04	0.03	12.08
2017	SC	Construction and Mining	19	Pavers	175	1680299.779	23.61297203	1.179630506	1.756110914	1680261.775	21.93901943	1.079600612	1.619816045	69601.59233	69601.59233	191.3009377	0.68	0.03	0.05	0.03	24.14
2017	SC	Construction and Mining	19	Pavers	250	1132013.44	12.92848428	0.33926528	0.584493082	1131995.306	12.91631831	0.338274266	0.583899944	34736.41757	34736.41757	82.54101374	0.74	0.02	0.03	0.02	32.59
2017	SC	Construction and Mining	19	Pavers	500	425910.39	3.223187643	0.113346805	0.179640592	425910.39	3.223187643	0.113346805	0.179640592	8646.312045	8646.312045	20.39248575	0.75	0.03	0.04	0.02	49.26
2017	SC	Construction and Mining	19	Pavers	750	49384.06391	0.365524776	0.016148282	0.023228425	49384.06391	0.365524776	0.016148282	0.023228425	431.9097482	431.9097482	0.97107075	1.69	0.07	0.11	0.07	114.34
2017	SC	Construction and Mining	20	Paving Equipment	50	158699.2691	2.060757238	0.159704773	0.346637211	158703.3144	2.04663745	0.155509352	0.331343293	31765.09843	31765.09843	71.74367463	0.13	0.01	0.02	0.01	5.00
2017	SC	Construction and Mining	20	Paving Equipment	120	722716.0754	11.85692773	0.897957377	1.073844548	722559.2974	11.25892733	0.844300323	1.005993046	62342.803	62342.803	146.3958766	0.38	0.03	0.03	0.03	11.59
2017	SC	Construction and Mining	20	Paving Equipment	175	680674.3722	8.474963921	0.427320266	0.616047268	680680.1538	7.984071075	0.39881789	0.579971191	35274.61579	35274.61579	79.98450213	0.48	0.02	0.03	0.02	19.30
2017	SC	Construction and Mining	20	Paving Equipment	250	356801.0793	4.861264894	0.184556349	0.297760733	356921.7255	4.413967852	0.151543546	0.254849721	12687.58539	12687.58539	29.0852735	0.77	0.03	0.05	0.03	28.13
2017	SC	Construction and Mining	20	Paving Equipment	500	503079.2794	6.441560529	0.236265155	0.383624786	502681.2358	6.065928778	0.219164595	0.35996821	11469.7316	11469.7316	26.17674615	1.12	0.04	0.07	0.04	43.83
2017	SC	Construction and Mining	20	Paving Equipment	750	238584.1301	2.408698437	0.058010795	0.123160646	238584.1301	2.404819501	0.057906541	0.122753487	3024.862727	3024.862727	6.301809258	1.59	0.04	0.08	0.04	78.87
2017	SC	Construction and Mining	20	Paving Equipment	1000	46654.61609	0.650990935	0.016219321	0.027153046	46654.61609	0.650990935	0.016219321	0.027153046	424.6589213	424.6589213	0.969509117	3.07	0.08	0.13	0.07	109.86
2017	SC	Construction and Mining	21	Rollers	50	2620700.443	36.66754893	3.202293711	7.338082974	2620426.443	36.02053735	3.078396427	6.994143819	478849.9378	478849.9378	1471.997466	0.15	0.01	0.03	0.01	5.47
2017	SC	Construction and Mining	21	Rollers	120	4096177.143	70.97009907	5.215899385	6.389961219	4094505.037	66.30098593	4.803490214	5.871726799	341047.1426	341047.1426	1097.760822	0.42	0.03	0.04	0.03	12.01
2017	SC	Construction and Mining	21	Rollers	175	4232050.214	51.70091587	2.421192501	3.479402027	4232105.909	49.27876308	2.294561208	3.299230036	213921.9457	213921.9457	634.7053482	0.48	0.02	0.03	0.02	19.78
2017	SC	Construction and Mining	21	Rollers	250	668619.3145	9.05320537	0.319583451	0.539471789	668749.5177	7.853391795	0.259210945	0.453945966	22709.5037	22709.5037	77.84122195	0.80	0.03	0.05	0.03	29.45
2017	SC	Construction and Mining	21	Rollers	500	422575.7708	5.617657649	0.225961502	0.358431421	423030.3834	4.806853166	0.187853437	0.30702883	9037.05889	9037.05889	31.93486029	1.24	0.05	0.08	0.05	46.81
2017	SC	Construction and Mining	21	Rollers	750	20573.98477	0.310304697	0.014989	0.02374651	20573.98477	0.042880926	0.000558054	0.00363713	286.6273518	286.6273518	0.997964384	2.17	0.10	0.17	0.10	71.78
2017	SC	Construction and Mining	22	Rough Terrain	50	133477.1522	1.748708144	0.134426791	0.321302978	133473.2171	1.765743852	0.137612533	0.329777581	17189.31033	17189.31033	66.85744941	0.20	0.02	0.04	0.01	7.76
2017	SC	Construction and Mining	22	Rough Terrain	120	10745996.55	112.2267887	6.029177446	7.438325883	10745749.06	110.1087241	5.850746079	7.215660949	754781.5016	754781.5016	2864.495893	0.30	0.02	0.02	0.01	14.24
2017	SC	Construction and Mining	22	Rough Terrain	175	1974887.915	17.79056593	0.699894155	1.004356542	1974887.915	17.22928482	0.665450716	0.954160618	103398.5328	103398.5328	383.2776195	0.34	0.01	0.02	0.01	19.10
2017	SC	Construction and Mining	22	Rough Terrain	250	162429.7953	3.020497355	0.136042013	0.209162446	162308.2559	1.204292731	0.028800231	0.059486098	5273.69884	5273.69884	22.47793558	1.15	0.05	0.08	0.05	30.78
2017	SC	Construction and Mining	22	Rough Terrain	500	68805.07464	0.985441608	0.030544	0.051392482	68805.07464	0.744694944	0.016523288	0.031389684	1259.841881	1259.841881	5.187215903	1.56	0.05	0.08	0.04	54.61



**Table C.18 CARB Offroad 2011 output**  
Used to calculate NOx, PM, HC, and fuel consumption

CalendarYear	AirBasin	Equipment Class	EquipmentTypeID	Equipment Type	HorsepowerBin	lb/yr	ton/yr	ton/yr	ton/yr	lb/yr	ton/yr	ton/yr	ton/yr	hr/yr	hr/yr	Emissions per Equipment (lb/hr)					lb/hr
						BaseBSFC	BaseNOx	BasePM	BaseHC	ScenBSFC	ScenNOx	ScenPM	ScenHC	BaseActivity	ScenActivity	Population	NOx	PM	HC	PM2.5	BSFC per equipment
2017	SC	Construction and Mining	22	Rough Terrain	750	10769.29565	0.491727412	0.026450385	0.03963961	10769.29565	0.042706818	0.000294913	0.002427087	116.7925566	116.7925566	0.576357323	8.42	0.45	0.68	0.42	92.21
2017	SC	Construction and Mining	23	Rubber Tired Dozers	50	114890.3895	2.108836889	0.279586826	0.777254181	117383.9233	1.749055519	0.194845702	0.534143088	17385.63142	17385.63142	19.48170412	0.24	0.03	0.09	0.03	6.75
2017	SC	Construction and Mining	23	Rubber Tired Dozers	120	548668.8669	15.44013103	1.377342317	1.644980072	551297.1308	14.00891264	1.230476092	1.477923718	45942.14823	45942.14823	57.96994886	0.67	0.06	0.07	0.06	12.00
2017	SC	Construction and Mining	23	Rubber Tired Dozers	175	459239.2679	13.04969576	0.750424871	1.064902105	458843.4398	12.55306019	0.721563111	1.025749095	21082.24766	21082.24766	29.93530146	1.24	0.07	0.10	0.07	21.76
2017	SC	Construction and Mining	23	Rubber Tired Dozers	250	479149.5359	11.30662733	0.559706598	0.865089774	479149.5359	10.96759593	0.536865919	0.834899648	15552.45496	15552.45496	23.28301225	1.45	0.07	0.11	0.07	30.81
2017	SC	Construction and Mining	23	Rubber Tired Dozers	500	5486386.145	127.4253968	5.964755827	9.480491462	5484881.894	119.0051397	5.5282556	8.874028954	105186.3791	105186.3791	155.3784695	2.42	0.11	0.18	0.10	52.14
2017	SC	Construction and Mining	23	Rubber Tired Dozers	750	645185.3954	13.86859985	0.502995003	0.840285223	645185.3954	13.86859985	0.502995003	0.840285223	7597.283767	7597.283767	9.503270304	3.65	0.13	0.22	0.12	84.92
2017	SC	Construction and Mining	24	Rubber Tired Loaders	50	364205.0747	5.971627619	0.644409951	1.651395441	364075.2999	5.860197628	0.622901956	1.59163975	59190.66376	59190.66376	73.29912423	0.20	0.02	0.06	0.02	6.15
2017	SC	Construction and Mining	24	Rubber Tired Loaders	120	8857403.889	177.8658496	15.25373231	17.99706669	8858008.875	168.0723825	14.27324832	16.861574	784508.6804	784508.6804	911.2864093	0.45	0.04	0.05	0.04	11.29
2017	SC	Construction and Mining	24	Rubber Tired Loaders	175	21026494.43	354.0060405	19.92387776	29.29047415	21034593.84	328.8415457	18.32200388	27.28146045	1058095.725	1058095.725	1194.082355	0.67	0.04	0.06	0.03	19.88
2017	SC	Construction and Mining	24	Rubber Tired Loaders	250	28990882.53	435.2085971	15.09267242	28.27338779	28990968.68	415.9699197	14.17055238	26.94631075	1065359.344	1065359.344	1061.351508	0.82	0.03	0.05	0.03	27.21
2017	SC	Construction and Mining	24	Rubber Tired Loaders	500	37796386.62	560.6271185	21.79693198	39.86239518	37662109.16	486.9864953	18.35369797	34.94138458	898060.8417	898060.8417	986.0713266	1.25	0.05	0.09	0.04	41.94
2017	SC	Construction and Mining	24	Rubber Tired Loaders	750	6679599.779	93.46518184	3.771187605	6.923167735	6703811.435	83.90105141	3.312242973	6.284934685	86494.82499	86494.82499	87.16652611	2.16	0.09	0.16	0.08	77.51
2017	SC	Construction and Mining	24	Rubber Tired Loaders	1000	1944442.545	38.38158692	1.12360502	2.007253404	1944442.545	38.37897857	1.123409669	2.006044976	17548.48215	17548.48215	15.84845929	4.37	0.13	0.23	0.12	110.80
2017	SC	Construction and Mining	24	Rubber Tired Loaders	9999	774003.7617	13.70190287	0.380064152	0.724353606	774003.7617	10.43076548	0.249233218	0.474070513	3854.616321	3854.616321	3.46685047	7.11	0.20	0.38	0.18	200.80
2017	SC	Construction and Mining	25	Scrapers	50	8341.363591	0.153636982	0.020884199	0.061827405	8341.363591	0.153636982	0.020884199	0.061827405	1177.589833	1177.589833	3.426446386	0.26	0.04	0.11	0.03	7.08
2017	SC	Construction and Mining	25	Scrapers	120	380934.7914	8.008246412	0.614576238	0.694610552	380934.7914	8.008246412	0.614576238	0.694610552	24875.33744	24875.33744	49.43872643	0.64	0.05	0.06	0.05	15.31
2017	SC	Construction and Mining	25	Scrapers	175	4020072.696	85.76576735	4.661121546	6.712998783	4018503.463	79.3905274	4.277333835	6.188914721	134694.2934	134694.2934	317.6805292	1.27	0.07	0.10	0.06	29.83
2017	SC	Construction and Mining	25	Scrapers	250	4619426.061	119.5798545	5.519181672	8.476776519	4616072.484	103.3597199	4.64727799	7.23793166	116776.5058	116776.5058	308.3801747	2.05	0.09	0.15	0.09	39.53
2017	SC	Construction and Mining	25	Scrapers	500	40444361.95	726.7570896	29.94142401	48.2320217	40417200.08	647.9649323	26.00210553	42.63166981	598432.9072	598432.9072	1355.404292	2.43	0.10	0.16	0.09	67.54
2017	SC	Construction and Mining	25	Scrapers	750	18512486.43	266.3972468	10.33801978	17.250869	18507688.88	234.1965383	8.652793382	14.91172701	184887.9023	184887.9023	386.2094569	2.88	0.11	0.19	0.10	100.10
2017	SC	Construction and Mining	25	Scrapers	1000	289547.813	11.6467279	0.543013034	0.843573754	289547.813	11.6467279	0.543013034	0.843573754	1721.564586	1721.564586	6.363400431	13.53	0.63	0.98	0.58	168.19
2017	SC	Construction and Mining	25	Scrapers	9999	1052439.32	23.2855802	0.896019825	1.392418999	1052439.32	23.2855802	0.896019825	1.392418999	3024.693027	3024.693027	6.363400431	15.40	0.59	0.92	0.55	347.95
2017	SC	Construction and Mining	26	Skid Steer Loaders	50	1982174.543	21.99415349	1.169196849	2.536635593	1982178.305	21.91544983	1.158800908	2.503238029	301786.768	301786.768	1019.771697	0.15	0.01	0.02	0.01	6.57
2017	SC	Construction and Mining	26	Skid Steer Loaders	120	10524472.82	103.8319701	5.57225916	6.659160072	10523444.67	103.8598956	5.582074835	6.667164014	1103080.624	1103080.624	3290.874553	0.19	0.01	0.01	0.01	9.54
2017	SC	Construction and Mining	26	Skid Steer Loaders	175	70961.34737	0.62069131	0.026946591	0.037257243	71108.24313	0.716536548	0.033552989	0.045999524	3466.849289	3466.849289	13.65088538	0.36	0.02	0.02	0.01	20.51
2017	SC	Construction and Mining	26	Skid Steer Loaders	250	54690.00217	0.578316773	0.021418366	0.034709256	54674.88584	0.593747955	0.022040312	0.035926574	2049.64287	2049.64287	7.58382521	0.56	0.02	0.03	0.02	26.68
2017	SC	Construction and Mining	26	Skid Steer Loaders	500	15023.35821	0.028295578	0.000400611	0.002419139	15023.35821	0.064111458	0.001678607	0.003929562	412.3188281	412.3188281	1.516765042	0.14	0.00	0.01	0.00	36.44
2017	SC	Construction and Mining	26	Skid Steer Loaders	750	15847.66296	0.115294827	0.004886874	0.00625734	15847.66296	0.115294827	0.004886874	0.00625734	221.098502	221.098502	0.505588347	1.04	0.04	0.06	0.04	71.68
2017	SC	Construction and Mining	26	Skid Steer Loaders	1000	25860.54129	0.304426328	0.007579818	0.013722951	25860.54129	0.317154711	0.010173858	0.016257573	191.2203261	191.2203261	1.011176695	3.18	0.08	0.14	0.07	135.24
2017	SC	Construction and Mining	27	Surfacing Equipment	50	18330.34607	0.255307911	0.019559427	0.042613187	18330.34607	0.246124759	0.017744664	0.037283248	4099.978794	4099.978794	17.88825263	0.12	0.01	0.02	0.01	4.47
2017	SC	Construction and Mining	27	Surfacing Equipment	120	143552.3402	2.157778154	0.147845794	0.183951513	143552.3402	2.130551661	0.145395847	0.181037093	14627.20437	14627.20437	57.33414303	0.30	0.02	0.03	0.02	9.81
2017	SC	Construction and Mining	27	Surfacing Equipment	175	74129.48799	1.252885341	0.060981672	0.086875576	74130.61587	1.205632033	0.058977751	0.084106146	4455.407192	4455.407192	19.26427206	0.56	0.03	0.04	0.03	16.64

**Table C.18 CARB Offroad 2011 output**  
Used to calculate NOx, PM, HC, and fuel consumption

CalendarYear	AirBasin	Equipment Class	EquipmentTypeID	Equipment Type	HorsepowerBin	lb/yr	ton/yr	ton/yr	ton/yr	lb/yr	ton/yr	ton/yr	ton/yr	hr/yr	hr/yr	Emissions per Equipment (lb/hr)				lb/hr	
						BaseBSFC	BaseNOx	BasePM	BaseHC	ScenBSFC	ScenNOx	ScenPM	ScenHC	BaseActivity	ScenActivity	Population	NOx	PM	HC	PM2.5	BSFC per equipment
2017	SC	Construction and Mining	27	Surfacing Equipment	250	157195.7478	2.18737561	0.064732886	0.111466967	157270.8218	2.095533571	0.060529987	0.106005236	6531.542489	6531.542489	28.89640809	0.67	0.02	0.03	0.02	24.08
2017	SC	Construction and Mining	27	Surfacing Equipment	500	499927.4084	4.818449055	0.160694347	0.262629108	499928.4038	4.677510565	0.154465578	0.253510679	12503.6459	12503.6459	47.702007	0.77	0.03	0.04	0.02	39.98
2017	SC	Construction and Mining	27	Surfacing Equipment	750	463144.4765	3.841653124	0.125410195	0.183917732	463144.4765	3.841653124	0.125410195	0.183917732	6785.587535	6785.587535	23.8510035	1.13	0.04	0.05	0.03	68.25
2017	SC	Construction and Mining	27	Surfacing Equipment	1000	75198.88898	1.302081026	0.032220464	0.056780119	75198.88898	1.302081026	0.032220464	0.056780119	831.5617101	831.5617101	3.21071201	3.13	0.08	0.14	0.07	90.43
2017	SC	Construction and Mining	27	Surfacing Equipment	9999	26355.70896	0.311029586	0.007162122	0.011726442	26355.70896	0.311029586	0.007162122	0.011726442	212.0919146	212.0919146	0.917346289	2.93	0.07	0.11	0.06	124.27
2017	SC	Construction and Mining	28	Tractors/Loaders/Backhoes	50	3925132.663	56.13387083	4.876297068	11.18188164	3927210.197	55.11133252	4.671425297	10.64411007	693196.2818	693196.2818	1427.093352	0.16	0.01	0.03	0.01	5.67
2017	SC	Construction and Mining	28	Tractors/Loaders/Backhoes	120	63182734.25	932.9595953	71.03441041	81.07286264	63139552.38	903.7534877	67.96740384	77.73388922	5598019.924	5598019.924	9689.814684	0.33	0.03	0.03	0.02	11.28
2017	SC	Construction and Mining	28	Tractors/Loaders/Backhoes	175	10913615.96	137.8533402	7.059131364	10.40598858	10909340.23	128.2191203	6.52136465	9.661416979	565397.6947	565397.6947	1083.994253	0.49	0.02	0.04	0.02	19.29
2017	SC	Construction and Mining	28	Tractors/Loaders/Backhoes	250	6340342.309	81.884676	2.746279373	4.917691461	6343023.27	77.20313673	2.519010707	4.599148638	230330.48	230330.48	433.5977012	0.71	0.02	0.04	0.02	27.54
2017	SC	Construction and Mining	28	Tractors/Loaders/Backhoes	500	8511771.228	95.6738902	3.384974781	6.172035737	8509388	89.40573117	3.125848739	5.758643947	197003.2518	197003.2518	391.3318703	0.97	0.03	0.06	0.03	43.19
2017	SC	Construction and Mining	28	Tractors/Loaders/Backhoes	750	1207386.28	14.87768722	0.553016061	0.958355616	1207660.703	14.15985593	0.511122604	0.897984999	15708.32382	15708.32382	27.34847886	1.89	0.07	0.12	0.06	76.88
2017	SC	Construction and Mining	28	Tractors/Loaders/Backhoes	1000	203922.3816	2.348743874	0.054300148	0.097239985	203922.3816	2.348743874	0.054300148	0.097239985	1713.109861	1713.109861	2.486225351	2.74	0.06	0.11	0.06	119.04
2017	SC	Construction and Mining	28	Tractors/Loaders/Backhoes	9999	2861133.523	43.33143897	1.31575498	2.256555865	2861133.523	39.79304998	1.126340403	1.970523342	10532.60296	10532.60296	18.3980676	8.23	0.25	0.43	0.23	271.65
2017	SC	Construction and Mining	29	Trenchers	50	1389980.279	19.45629397	1.710222528	3.642783703	1390481.354	19.28543529	1.675523699	3.54461392	169428.9188	169428.9188	467.9929938	0.23	0.02	0.04	0.02	8.21
2017	SC	Construction and Mining	29	Trenchers	120	1006460.697	20.56963136	1.617922156	1.946908297	1006579.765	20.04284136	1.570062082	1.888746253	66025.32607	66025.32607	216.9785699	0.62	0.05	0.06	0.05	15.25
2017	SC	Construction and Mining	29	Trenchers	175	205353.8441	4.382226126	0.229501082	0.334228389	205363.5532	3.689507246	0.186950398	0.275916133	7810.944336	7810.944336	28.71775189	1.12	0.06	0.09	0.05	26.29
2017	SC	Construction and Mining	29	Trenchers	250	402439.1619	7.643980693	0.310697809	0.495655011	402363.82	7.471752655	0.301628288	0.484125107	9969.99468	9969.99468	34.0358541	1.53	0.06	0.10	0.06	40.36
2017	SC	Construction and Mining	29	Trenchers	500	678433.0883	7.047273636	0.263297973	0.448867975	678433.0883	7.03075313	0.263280605	0.447986166	10287.13746	10287.13746	30.84499277	1.37	0.05	0.09	0.05	65.95
2017	SC	Construction and Mining	29	Trenchers	750	306585.3841	1.30880826	0.04185283	0.086125271	306585.3841	1.30880826	0.04185283	0.086125271	2669.070908	2669.070908	6.381722643	0.98	0.03	0.06	0.03	114.87
2017	SC	Construction and Mining	29	Trenchers	1000	18107.53253	0.718083592	0.032841329	0.051438783	18107.53253	0.718083592	0.032841329	0.051438783	114.1717591	114.1717591	0.53181022	12.58	0.58	0.90	0.53	158.60
2017	SC	Construction and Mining	36	Sweepers/Scrubbers	50	1208371.179	18.60262728	1.948162467	4.763582738	1208371.179	18.34708545	1.897267283	4.614267915	182488.1448	182488.1448	274.6968629	0.20	0.02	0.05	0.02	6.62
2017	SC	Construction and Mining	36	Sweepers/Scrubbers	120	1867577.73	34.92050993	3.038921233	3.481838993	1867577.73	33.62295648	2.905576884	3.32558379	143446.1333	143446.1333	223.6470034	0.49	0.04	0.05	0.04	13.02
2017	SC	Construction and Mining	36	Sweepers/Scrubbers	175	465848.486	11.79696276	0.645840822	0.942991048	465848.486	10.36475101	0.550843071	0.819775546	17431.31925	17431.31925	25.76802431	1.35	0.07	0.11	0.07	26.72
2017	SC	Construction and Mining	36	Sweepers/Scrubbers	250	248278.4668	4.491218472	0.173939689	0.286158098	248278.4668	4.873768711	0.197847237	0.317205547	7294.01591	7294.01591	10.69616103	1.23	0.05	0.08	0.04	34.04
2017	SC	Construction and Mining	36	Sweepers/Scrubbers	500	69266.445	1.266333688	0.055519901	0.082981226	69266.445	1.266333688	0.055519901	0.082981226	1369.454918	1369.454918	1.944756551	1.85	0.08	0.12	0.07	50.58
2017	SC	Construction and Mining	36	Sweepers/Scrubbers	1000	48543.75649	0.602395775	0.01622828	0.024271447	48543.75649	0.602395775	0.01622828	0.024271447	342.3637295	342.3637295	0.486189138	3.52	0.09	0.14	0.09	141.79
2018	SC	Construction and Mining	11	Bore/Drill Rigs	50	120907.401	1.579344673	0.108546017	0.209862745	120668.1394	1.561627616	0.105639012	0.203276913	14742.82211	14742.82211	43.51118253	0.21	0.01	0.03	0.01	8.18
2018	SC	Construction and Mining	11	Bore/Drill Rigs	120	750252.8698	7.951807146	0.436530298	0.526918594	751997.3497	7.850592315	0.425758194	0.513324998	50637.65405	50637.65405	133.2816223	0.31	0.02	0.02	0.02	14.85
2018	SC	Construction and Mining	11	Bore/Drill Rigs	175	870614.3928	6.443716329	0.289917208	0.463666381	871234.5701	6.108775685	0.268158326	0.435257165	31506.16609	31506.16609	104.4268381	0.41	0.02	0.03	0.02	27.65
2018	SC	Construction and Mining	11	Bore/Drill Rigs	250	1230919.12	8.696629543	0.261526755	0.526440453	1230382.385	8.052901058	0.227556058	0.477721495	32501.49091	32501.49091	103.9688256	0.54	0.02	0.03	0.01	37.86
2018	SC	Construction and Mining	11	Bore/Drill Rigs	500	1391406.657	8.868375373	0.288698113	0.57108095	1393026.468	7.374795698	0.220686087	0.470921901	21842.76605	21842.76605	72.82397918	0.81	0.03	0.05	0.02	63.78
2018	SC	Construction and Mining	11	Bore/Drill Rigs	750	1862568.38	8.85337417	0.290777805	0.568085558	1862670.559	9.405029307	0.305104786	0.583356327	16527.7574	16527.7574	36.18298337	1.07	0.04	0.07	0.03	112.70
2018	SC	Construction and Mining	11	Bore/Drill Rigs	1000	149152.7501	1.358567527	0.027076272	0.046386982	149152.7501	1.358567527	0.027076272	0.046386982	880.3670425	880.3670425	1.374037343	3.09	0.06	0.11	0.06	169.42

**Table C.18 CARB Offroad 2011 output**  
Used to calculate NOx, PM, HC, and fuel consumption

CalendarYear	AirBasin	Equipment Class	Equipment TypeID	Equipment Type	HorsepowerBin	lb/yr	ton/yr	ton/yr	ton/yr	lb/yr	ton/yr	ton/yr	ton/yr	hr/yr	hr/yr	Emissions per Equipment (lb/hr)				lb/hr	
						BaseBSFC	BaseNOx	BasePM	BaseHC	ScenBSFC	ScenNOx	ScenPM	ScenHC	BaseActivity	ScenActivity	Population	NOx	PM	HC	PM2.5	BSFC per equipment
2018	SC	Construction and Mining	11	Bore/Drill Rigs	9999	505494.7636	6.527054609	0.163236236	0.239862609	505494.7636	6.527054609	0.163236236	0.239862609	1027.888006	1027.888006	1.374037343	12.70	0.32	0.47	0.29	491.78
2018	SC	Construction and Mining	12	Cranes	50	39839.74124	0.66026612	0.06980912	0.193114881	39839.74124	0.654734291	0.068046138	0.186761478	8451.937274	8451.937274	20.15456147	0.16	0.02	0.05	0.02	4.71
2018	SC	Construction and Mining	12	Cranes	120	950508.1134	26.48735074	1.964414419	2.635579315	950740.4737	22.75368679	1.672801749	2.208961039	101570.0993	101570.0993	243.0064269	0.52	0.04	0.05	0.04	9.36
2018	SC	Construction and Mining	12	Cranes	175	2508009.352	57.17232872	3.125482687	4.509520388	2507892.374	49.12924138	2.630704683	3.846226975	159533.1856	159533.1856	364.5096403	0.72	0.04	0.06	0.04	15.72
2018	SC	Construction and Mining	12	Cranes	250	4237579.925	90.63926544	4.181319097	6.461573621	4237108.785	73.32091991	3.173447504	5.070374125	184297.983	184297.983	409.4255201	0.98	0.05	0.07	0.04	22.99
2018	SC	Construction and Mining	12	Cranes	500	6498786.711	102.8278839	4.288825087	6.845907921	6497129.22	90.34885568	3.645311154	5.957168569	182646.1948	182646.1948	392.7260264	1.13	0.05	0.07	0.04	35.57
2018	SC	Construction and Mining	12	Cranes	750	1709430.616	20.07452061	0.731530741	1.189336442	1709301.225	19.40283416	0.704538917	1.151384033	28581.53358	28581.53358	57.58446134	1.40	0.05	0.08	0.05	59.80
2018	SC	Construction and Mining	12	Cranes	1000	400365.3261	12.27704416	0.572926304	0.866221861	400365.3261	12.51557717	0.612965761	0.918434227	4063.027839	4063.027839	8.637669201	6.04	0.28	0.43	0.26	98.54
2018	SC	Construction and Mining	12	Cranes	9999	30839.85178	0.216331654	0.005416246	0.012424387	30839.85178	0.216331654	0.005416246	0.012424387	283.1820588	283.1820588	0.575844613	1.53	0.04	0.09	0.04	108.90
2018	SC	Construction and Mining	13	Crawler Tractors	50	121488.2664	2.078296349	0.240046528	0.691066225	121488.2664	2.057136301	0.23489513	0.674582965	16611.34113	16611.34113	51.10920065	0.25	0.03	0.08	0.03	7.31
2018	SC	Construction and Mining	13	Crawler Tractors	120	5382678.089	113.3030306	9.62158451	11.21655048	5374915.153	107.5399518	9.05023821	10.54918966	389646.1717	389646.1717	879.5893433	0.58	0.05	0.06	0.05	13.79
2018	SC	Construction and Mining	13	Crawler Tractors	175	5856055.353	112.3894401	6.292793291	8.828995216	5851640.842	103.0598589	5.725090412	8.067396983	248860.9811	248860.9811	575.4895994	0.90	0.05	0.07	0.05	23.51
2018	SC	Construction and Mining	13	Crawler Tractors	250	5903700.73	102.2089086	4.000871217	6.459512985	5904262.437	93.57716355	3.540275013	5.823088123	184511.3585	184511.3585	420.6287214	1.11	0.04	0.07	0.04	32.00
2018	SC	Construction and Mining	13	Crawler Tractors	500	15829714	233.1998132	9.294929508	15.25676367	15813307.62	206.4094073	7.996638695	13.41710805	293092.3284	293092.3284	676.1747246	1.59	0.06	0.10	0.06	53.95
2018	SC	Construction and Mining	13	Crawler Tractors	750	6163060.418	75.83516733	2.852619916	4.857001541	6157913.396	70.782122	2.611839691	4.511732676	68516.53193	68516.53193	138.5059338	2.21	0.08	0.14	0.08	89.87
2018	SC	Construction and Mining	13	Crawler Tractors	1000	816161.6192	18.40297966	0.54709843	0.983076997	816161.6192	18.40297966	0.54709843	0.983076997	6215.547677	6215.547677	12.26620816	5.92	0.18	0.32	0.16	131.31
2018	SC	Construction and Mining	13	Crawler Tractors	9999	430948.3703	8.26933048	0.223105631	0.39442961	430948.3703	8.26933048	0.223105631	0.39442961	1866.857606	1866.857606	3.066552039	8.86	0.24	0.42	0.22	230.84
2018	SC	Construction and Mining	14	Excavators	50	4854358.811	57.89949854	3.779659535	7.620947802	4855153.547	57.63765564	3.725932575	7.450212209	871656.1638	871656.1638	1251.783634	0.13	0.01	0.02	0.01	5.57
2018	SC	Construction and Mining	14	Excavators	120	6322131.629	77.23073363	5.289650496	6.419914615	6323193.052	72.12074915	4.799547991	5.829291472	556627.1282	556627.1282	905.4038808	0.28	0.02	0.02	0.02	11.36
2018	SC	Construction and Mining	14	Excavators	175	13300297.8	131.8866997	6.514905857	10.1990831	13299210.88	116.7220627	5.660853833	9.009466591	649393.0205	649393.0205	1150.329209	0.41	0.02	0.03	0.02	20.48
2018	SC	Construction and Mining	14	Excavators	250	16889553.63	143.3019916	4.757058318	9.527329375	16890977	131.6321414	4.000465365	8.469810063	551798.7971	551798.7971	988.9244425	0.52	0.02	0.03	0.02	30.61
2018	SC	Construction and Mining	14	Excavators	500	28065603.91	185.2818722	6.286756159	13.19802984	28073084.76	173.3561157	5.615091064	12.20171525	611099.93	611099.93	1005.833513	0.61	0.02	0.04	0.02	45.94
2018	SC	Construction and Mining	14	Excavators	750	2545092.833	17.68026695	0.614955176	1.247795307	2548088.994	17.43814095	0.58435848	1.201322	31634.91509	31634.91509	51.23960842	1.12	0.04	0.08	0.04	80.55
2018	SC	Construction and Mining	14	Excavators	1000	282727.8912	3.239972272	0.068847175	0.126750715	282639.3253	3.227077667	0.066272787	0.122733294	2419.454525	2419.454525	4.099168673	2.68	0.06	0.10	0.05	116.82
2018	SC	Construction and Mining	14	Excavators	9999	555316.3676	5.180500104	0.096879022	0.200334531	555316.3676	5.180500104	0.096879022	0.200334531	2549.397954	2549.397954	3.586772589	4.06	0.08	0.16	0.07	217.82
2018	SC	Construction and Mining	15	Graders	50	32118.9634	0.593737516	0.077828394	0.226220938	32118.9634	0.571122986	0.072967542	0.214528889	5238.436538	5238.436538	15.96520848	0.23	0.03	0.09	0.03	6.13
2018	SC	Construction and Mining	15	Graders	120	866148.7469	24.52884788	2.03687852	2.583016402	864299.2069	22.23969534	1.819621144	2.319587256	63676.15765	63676.15765	169.9522193	0.77	0.06	0.08	0.06	13.57
2018	SC	Construction and Mining	15	Graders	175	8013488.802	182.6323042	10.30893966	14.98606938	7995705.436	156.3941934	8.791959076	12.94276362	355268.0098	355268.0098	795.1703837	1.03	0.06	0.08	0.05	22.51
2018	SC	Construction and Mining	15	Graders	250	13980956.98	227.945266	7.553748478	13.81627797	13976057.24	219.0227618	7.120005714	13.19812041	451347.121	451347.121	631.3982451	1.01	0.03	0.06	0.03	30.97
2018	SC	Construction and Mining	15	Graders	500	3985217.741	41.48157209	1.623349274	3.321718179	3984221.148	40.01176636	1.548829384	3.205964533	90574.90998	90574.90998	117.9365401	0.92	0.04	0.07	0.03	43.99
2018	SC	Construction and Mining	15	Graders	1000	38566.94042	1.076406774	0.037461284	0.067924062	38566.94042	1.076406774	0.037461284	0.067924062	323.0214909	323.0214909	0.515006725	6.66	0.23	0.42	0.21	119.39
2018	SC	Construction and Mining	15	Graders	9999	543295.789	10.86228539	0.3342058	0.630547189	543295.789	10.86228539	0.3342058	0.630547189	1820.927634	1820.927634	2.575033626	11.93	0.37	0.69	0.34	298.36
2018	SC	Construction and Mining	16	Off-Highway Tractors	50	2011687.956	29.22810738	2.7376646	6.754894144	2013663.978	26.93695524	2.22990439	5.310358704	300898.2161	300898.2161	479.4858673	0.19	0.02	0.04	0.02	6.69

**Table C.18 CARB Offroad 2011 output**  
Used to calculate NOx, PM, HC, and fuel consumption

CalendarYear	AirBasin	Equipment Class	Equipment TypeID	Equipment Type	HorsepowerBin	lb/yr	ton/yr	ton/yr	ton/yr	lb/yr	ton/yr	ton/yr	ton/yr	hr/yr	hr/yr	Population	Emissions per Equipment (lb/hr)				lb/hr
						BaseBSFC	BaseNOx	BasePM	BaseHC	ScenBSFC	ScenNOx	ScenPM	ScenHC	BaseActivity	ScenActivity		NOx	PM	HC	PM2.5	BSFC per equipment
2018	SC	Construction and Mining	16	Off-Highway Tractors	120	2561542.969	40.84643749	3.270382995	3.774387574	2561019.485	36.64132946	2.853356965	3.301017413	213924.9982	213924.9982	348.6251301	0.38	0.03	0.04	0.03	11.97
2018	SC	Construction and Mining	16	Off-Highway Tractors	175	2188267.387	24.22097585	1.225819044	1.807456427	2188744.708	22.95154579	1.152535537	1.707697969	86472.34184	86472.34184	132.3764987	0.56	0.03	0.04	0.03	25.31
2018	SC	Construction and Mining	16	Off-Highway Tractors	250	1834131.132	23.01470058	0.862149321	1.528827199	1834943.408	19.10512017	0.655874187	1.241692785	53878.44233	53878.44233	86.3984018	0.85	0.03	0.06	0.03	34.06
2018	SC	Construction and Mining	16	Off-Highway Tractors	500	5162533.72	41.45644106	1.543969447	2.942067712	5160217.679	33.2250892	1.135263557	2.382189603	97003.38705	97003.38705	148.5446206	0.85	0.03	0.06	0.03	53.20
2018	SC	Construction and Mining	16	Off-Highway Tractors	750	1301050.404	8.682820634	0.325677998	0.651448309	1300843.78	8.465360413	0.314880848	0.63161684	14197.6066	14197.6066	21.7259139	1.22	0.05	0.09	0.04	91.62
2018	SC	Construction and Mining	16	Off-Highway Tractors	1000	36907.35464	1.36043054	0.069215424	0.095107356	36907.35464	0.261475468	0.006675246	0.011824871	230.9184822	230.9184822	0.505253812	11.78	0.60	0.82	0.55	159.83
2018	SC	Construction and Mining	16	Off-Highway Tractors	9999	288859.2973	6.954664728	0.251607064	0.44319992	303107.6916	3.366991053	0.087241077	0.172548847	1072.187766	1072.187766	2.021015247	12.97	0.47	0.83	0.43	282.70
2018	SC	Construction and Mining	17	Off-Highway Trucks	50	193161.0231	2.780211006	0.235319987	0.505513615	194700.7219	2.743306698	0.227651938	0.492876697	43713.64549	43713.64549	28.53607973	0.13	0.01	0.02	0.01	4.45
2018	SC	Construction and Mining	17	Off-Highway Trucks	120	235978.3206	3.710540497	0.302667008	0.380955329	235851.8822	3.348543008	0.263015627	0.339593268	19619.90168	19619.90168	16.02025529	0.38	0.03	0.04	0.03	12.02
2018	SC	Construction and Mining	17	Off-Highway Trucks	175	4561904.39	51.70572637	2.827020162	4.603864365	4564441.964	48.80526944	2.648093196	4.365448601	205959.0243	205959.0243	153.1936912	0.50	0.03	0.04	0.03	22.16
2018	SC	Construction and Mining	17	Off-Highway Trucks	250	9370992.394	120.2302522	5.208473705	9.615997046	9375211.315	97.72224543	4.000576637	7.973672934	318799.4955	318799.4955	262.3316804	0.75	0.03	0.06	0.03	29.41
2018	SC	Construction and Mining	17	Off-Highway Trucks	500	39779030.76	421.4932279	16.17066664	32.03802536	39736550.84	366.4783295	13.37630173	28.1344031	756507.5101	756507.5101	582.7367861	1.11	0.04	0.08	0.04	52.53
2018	SC	Construction and Mining	17	Off-Highway Trucks	750	14193065.64	187.8414671	7.751684313	14.4397828	14194283.79	156.7968486	6.078072922	12.21318185	153866.6939	153866.6939	133.1683721	2.44	0.10	0.19	0.09	92.25
2018	SC	Construction and Mining	17	Off-Highway Trucks	1000	9826443.777	154.649342	4.157651604	8.114241652	9820219.846	144.0467232	3.749902689	7.26937722	78510.93883	78510.93883	61.07722329	3.94	0.11	0.21	0.10	125.08
2018	SC	Construction and Mining	17	Off-Highway Trucks	9999	14250855.12	194.4409201	5.366058243	11.4694303	14252066.73	186.6207422	5.075067765	10.87558909	57032.79167	57032.79167	39.55000525	6.82	0.19	0.40	0.17	249.89
2018	SC	Construction and Mining	18	Other Construction Equipment	50	1088351.197	15.54863157	1.339539083	2.892401967	1087645.544	15.38532223	1.310971748	2.818561918	167699.4622	167699.4622	370.2788092	0.19	0.02	0.03	0.01	6.49
2018	SC	Construction and Mining	18	Other Construction Equipment	120	3412675.622	59.20303542	4.570488747	5.439715937	3409220.607	55.76213669	4.269828047	5.062225844	274399.3216	274399.3216	653.3452475	0.43	0.03	0.04	0.03	12.42
2018	SC	Construction and Mining	18	Other Construction Equipment	175	1854016.144	29.95642609	1.601430203	2.277170557	1854037.035	26.61094022	1.400172271	2.018590998	80148.97493	80148.97493	203.3294134	0.75	0.04	0.06	0.04	23.13
2018	SC	Construction and Mining	18	Other Construction Equipment	250	2379471.265	33.1632502	1.280927727	2.100125541	2379138.579	29.35046235	1.062415879	1.806632067	71477.8966	71477.8966	182.3984444	0.93	0.04	0.06	0.03	33.28
2018	SC	Construction and Mining	18	Other Construction Equipment	500	8117000.003	87.53643325	3.30824805	5.769867822	8111477.512	76.6962537	2.77554335	5.021815413	148205.4755	148205.4755	354.3314042	1.18	0.04	0.08	0.04	54.73
2018	SC	Construction and Mining	18	Other Construction Equipment	750	3166224.02	34.84725835	1.212871576	2.110575822	3170135.516	28.56147978	0.939223396	1.714378932	34700.02446	34700.02446	73.25839159	2.01	0.07	0.12	0.06	91.36
2018	SC	Construction and Mining	18	Other Construction Equipment	1000	368807.4351	4.26974793	0.101954869	0.171940411	368788.2737	4.26008469	0.101571148	0.170407184	2923.742064	2923.742064	6.47863327	2.92	0.07	0.12	0.06	126.14
2018	SC	Construction and Mining	18	Other Construction Equipment	9999	229740.5561	3.453323433	0.093542547	0.165579156	229925.627	3.176087618	0.085421115	0.157828106	1369.989059	1369.989059	2.990138432	5.04	0.14	0.24	0.13	167.83
2018	SC	Construction and Mining	19	Pavers	50	133211.0452	1.949019695	0.192824309	0.515068976	133193.3323	1.836493548	0.171481217	0.456001709	20276.50339	20276.50339	60.01610489	0.19	0.02	0.05	0.02	6.57
2018	SC	Construction and Mining	19	Pavers	120	1289929.069	20.71963004	1.57305836	1.852911859	1290460.455	19.54390752	1.46087889	1.723630869	106849.1412	106849.1412	291.5782429	0.39	0.03	0.03	0.03	12.08
2018	SC	Construction and Mining	19	Pavers	175	1754116.982	21.20678448	1.052355326	1.590658839	1754570.709	19.71111183	0.963122935	1.472494226	72645.1594	72645.1594	197.0528777	0.58	0.03	0.04	0.03	24.15
2018	SC	Construction and Mining	19	Pavers	250	1180499.63	11.96949485	0.318943703	0.567150208	1181181.13	12.29792645	0.326407258	0.579690479	36255.38593	36255.38593	85.02281526	0.66	0.02	0.03	0.02	32.58
2018	SC	Construction and Mining	19	Pavers	500	444771.8434	3.138582014	0.111739783	0.183709684	444771.8434	3.138582014	0.111739783	0.183709684	9024.401536	9024.401536	21.00563671	0.70	0.02	0.04	0.02	49.29
2018	SC	Construction and Mining	19	Pavers	750	51543.55058	0.383061346	0.017083112	0.025171294	51543.55058	0.383061346	0.017083112	0.025171294	450.7964754	450.7964754	1.000268415	1.70	0.08	0.11	0.07	114.34

**Table C.18 CARB Offroad 2011 output**  
Used to calculate NOx, PM, HC, and fuel consumption

CalendarYear	AirBasin	Equipment Class	EquipmentTypeID	Equipment Type	HorsepowerBin	lb/yr	ton/yr	ton/yr	ton/yr	lb/yr	ton/yr	ton/yr	ton/yr	hr/yr	hr/yr	Emissions per Equipment (lb/hr)					lb/hr
						BaseBSFC	BaseNOx	BasePM	BaseHC	ScenBSFC	ScenNOx	ScenPM	ScenHC	BaseActivity	ScenActivity	Population	NOx	PM	HC	PM2.5	BSFC per equipment
2018	SC	Construction and Mining	20	Paving Equipment	50	165798.9106	1.989621955	0.139130269	0.308901054	165835.2654	1.948559557	0.129244586	0.275366383	33154.13572	33154.13572	73.90082722	0.12	0.01	0.02	0.01	5.00
2018	SC	Construction and Mining	20	Paving Equipment	120	754177.9276	10.6246972	0.769027153	0.947349311	753927.1924	9.63654136	0.68179218	0.838180936	65068.95474	65068.95474	150.7976339	0.33	0.02	0.03	0.02	11.59
2018	SC	Construction and Mining	20	Paving Equipment	175	710460.1091	7.736481306	0.387158927	0.573929065	710306.022	6.784219094	0.332161024	0.50143633	36817.11871	36817.11871	82.38943575	0.42	0.02	0.03	0.02	19.29
2018	SC	Construction and Mining	20	Paving Equipment	250	372268.8074	4.277002539	0.160443814	0.266587902	372397.0944	4.009434422	0.13743033	0.238621046	13242.39334	13242.39334	29.95979482	0.65	0.02	0.04	0.02	28.12
2018	SC	Construction and Mining	20	Paving Equipment	500	524816.377	4.935009679	0.17677857	0.303071071	524760.3563	5.069511284	0.184033089	0.314270351	11971.28474	11971.28474	26.96381534	0.82	0.03	0.05	0.03	43.83
2018	SC	Construction and Mining	20	Paving Equipment	750	249020.2343	2.525062414	0.061423522	0.132567945	249020.2343	2.520924674	0.061311677	0.132143317	3157.135169	3157.135169	6.491288877	1.60	0.04	0.08	0.04	78.88
2018	SC	Construction and Mining	20	Paving Equipment	1000	48694.74834	0.334861604	0.00526403	0.00940999	48694.74834	0.334861604	0.00526403	0.00940999	443.2285814	443.2285814	0.998659827	1.51	0.02	0.04	0.02	109.86
2018	SC	Construction and Mining	21	Rollers	50	2734546.175	36.53732216	3.00731169	6.917496472	2735184.016	35.70679979	2.851763501	6.487341299	499789.285	499789.285	1516.256743	0.15	0.01	0.03	0.01	5.47
2018	SC	Construction and Mining	21	Rollers	120	4272923.215	64.27534159	4.518833104	5.596519742	4273173.086	59.46986687	4.092521641	5.08377043	355960.5924	355960.5924	1130.76774	0.36	0.03	0.03	0.02	12.00
2018	SC	Construction and Mining	21	Rollers	175	4418404.777	45.34743147	2.117539081	3.138654525	4418371.651	42.23819566	1.95485706	2.910209747	223276.4126	223276.4126	653.7893481	0.41	0.02	0.03	0.02	19.79
2018	SC	Construction and Mining	21	Rollers	250	697931.9093	7.26513998	0.249915044	0.440632252	697783.0921	6.260905735	0.196026293	0.364994567	23702.55422	23702.55422	80.18171251	0.61	0.02	0.04	0.02	29.44
2018	SC	Construction and Mining	21	Rollers	500	441663.007	4.957649723	0.201573681	0.326934272	441663.007	4.047303126	0.155545518	0.264279113	9432.23512	9432.23512	32.89506154	1.05	0.04	0.07	0.04	46.82
2018	SC	Construction and Mining	21	Rollers	750	21473.65244	0.073744169	0.003031969	0.005324648	21473.65244	0.044950377	0.000589501	0.00402416	299.1611106	299.1611106	1.027970673	0.49	0.02	0.04	0.02	71.78
2018	SC	Construction and Mining	22	Rough Terrain	50	139309.7152	1.781139084	0.134970644	0.332977742	139310.5907	1.779863691	0.13477576	0.332353715	17940.97157	17940.97157	68.86768545	0.20	0.02	0.04	0.01	7.76
2018	SC	Construction and Mining	22	Rough Terrain	120	11213670.22	98.96368059	4.855392628	6.532805563	11213911.71	95.6676155	4.573040388	6.174653603	787786.8977	787786.8977	2950.624109	0.25	0.01	0.02	0.01	14.23
2018	SC	Construction and Mining	22	Rough Terrain	175	2061540.714	15.47273249	0.599888826	0.921198698	2061540.714	14.51224581	0.542890027	0.838303574	107919.9864	107919.9864	394.8018174	0.29	0.01	0.02	0.01	19.10
2018	SC	Construction and Mining	22	Rough Terrain	250	169487.4786	2.915140679	0.137762889	0.211453351	169398.1493	1.263855243	0.030376642	0.06386469	5504.309313	5504.309313	23.1537908	1.06	0.05	0.08	0.05	30.78
2018	SC	Construction and Mining	22	Rough Terrain	500	71607.02733	0.538331105	0.02083029	0.036305726	71874.09964	0.588358883	0.013051791	0.026138688	1314.932765	1314.932765	5.343182491	0.82	0.03	0.06	0.03	54.66
2018	SC	Construction and Mining	22	Rough Terrain	750	11240.21985	0.514610901	0.027787357	0.041574435	11240.21985	0.044710419	0.00031043	0.002641312	121.8997096	121.8997096	0.593686943	8.44	0.46	0.68	0.42	92.21
2018	SC	Construction and Mining	23	Rubber Tired Dozers	50	119921.6824	2.201852697	0.291975795	0.811223269	121351.8447	1.462262792	0.122828354	0.326012645	18145.87746	18145.87746	20.06747017	0.24	0.03	0.09	0.03	6.69
2018	SC	Construction and Mining	23	Rubber Tired Dozers	120	572742.4373	15.89041914	1.416318454	1.696717947	574821.337	13.53553244	1.175229655	1.422676505	47951.1254	47951.1254	59.71296001	0.66	0.06	0.07	0.05	11.99
2018	SC	Construction and Mining	23	Rubber Tired Dozers	175	479279.8471	13.31826588	0.76629989	1.091189254	478876.7181	11.51129082	0.660874584	0.951555963	22004.14086	22004.14086	30.83538099	1.21	0.07	0.10	0.06	21.76
2018	SC	Construction and Mining	23	Rubber Tired Dozers	250	500107.4198	11.8108467	0.58553813	0.909159493	500107.4198	10.75634643	0.52289181	0.825326654	16232.53911	16232.53911	23.9830741	1.46	0.07	0.11	0.07	30.81
2018	SC	Construction and Mining	23	Rubber Tired Dozers	500	5735357.46	123.7825239	5.783230441	9.330591899	5728453.163	110.1238355	5.08474357	8.371627996	109786.0124	109786.0124	160.0503108	2.25	0.11	0.17	0.10	52.18
2018	SC	Construction and Mining	23	Rubber Tired Dozers	750	673385.8352	13.57546269	0.500574202	0.84469865	673385.8352	13.57546269	0.500574202	0.84469865	7929.500918	7929.500918	9.789009837	3.42	0.13	0.21	0.12	84.92
2018	SC	Construction and Mining	24	Rubber Tired Loaders	50	380152.2433	6.103252632	0.64798966	1.663231114	380142.6192	5.834426784	0.591493983	1.498564583	61778.97746	61778.97746	75.50304528	0.20	0.02	0.05	0.02	6.15
2018	SC	Construction and Mining	24	Rubber Tired Loaders	120	9238551.606	170.852882	14.4072032	17.17571942	9245471.823	153.8908448	12.70877519	15.23532667	818813.9988	818813.9988	938.6865089	0.42	0.04	0.04	0.03	11.29
2018	SC	Construction and Mining	24	Rubber Tired Loaders	175	21951916.74	330.936248	18.54546363	27.77919453	21954898.64	288.5788046	16.00761008	24.46210163	1104364.571	1104364.571	1229.98542	0.60	0.03	0.05	0.03	19.88
2018	SC	Construction and Mining	24	Rubber Tired Loaders	250	30248042.18	394.8760582	13.6569472	26.46082261	30245260.83	377.2367136	12.79408321	25.1651909	1111945.816	1111945.816	1093.263689	0.71	0.02	0.05	0.02	27.20
2018	SC	Construction and Mining	24	Rubber Tired Loaders	500	39431757.65	523.1642881	20.32568478	38.22247002	39314470.39	445.2929366	16.67157149	32.97344204	937331.6158	937331.6158	1015.720021	1.12	0.04	0.08	0.04	41.94
2018	SC	Construction and Mining	24	Rubber Tired Loaders	750	7001085.356	84.28114338	3.35053946	6.414055449	6994728.415	76.61334154	3.025890325	5.907769852	90277.10629	90277.10629	89.7874052	1.87	0.07	0.14	0.07	77.48
2018	SC	Construction and Mining	24	Rubber Tired Loaders	1000	2029298.548	37.61805592	1.066436939	1.911508264	2026784.163	34.6778924	0.942113612	1.696725042	18315.8494	18315.8494	16.32498276	4.11	0.12	0.21	0.11	110.66
2018	SC	Construction and Mining	24	Rubber Tired Loaders	9999	807134.046	11.21688478	0.266917981	0.510097621	807134.046	9.95811312	0.216508839	0.415183853	4023.17257	4023.17257	3.57108998	5.58	0.13	0.25	0.12	200.62

**Table C.18 CARB Offroad 2011 output**  
Used to calculate NOx, PM, HC, and fuel consumption

CalendarYear	AirBasin	Equipment Class	EquipmentTypeID	Equipment Type	HorsepowerBin	lb/yr	ton/yr	ton/yr	ton/yr	lb/yr	ton/yr	ton/yr	ton/yr	hr/yr	hr/yr	Population	Emissions per Equipment (lb/hr)				lb/hr
						BaseBSFC	BaseNOx	BasePM	BaseHC	ScenBSFC	ScenNOx	ScenPM	ScenHC	BaseActivity	ScenActivity		NOx	PM	HC	PM2.5	BSFC per equipment
2018	SC	Construction and Mining	25	Scrapers	50	8706.118171	0.160845914	0.021984351	0.065200308	8706.118171	0.160845914	0.021984351	0.065200308	1229.083966	1229.083966	3.529471046	0.26	0.04	0.11	0.03	7.08
2018	SC	Construction and Mining	25	Scrapers	120	397423.9154	8.300457138	0.640562829	0.72484945	397423.9154	8.191147203	0.63160717	0.712288729	25963.09643	25963.09643	50.92522509	0.64	0.05	0.06	0.05	15.31
2018	SC	Construction and Mining	25	Scrapers	175	4194509.63	81.26426846	4.417331073	6.412598336	4194121.609	70.0724484	3.762819409	5.52830945	140584.2609	140584.2609	327.232387	1.16	0.06	0.09	0.06	29.83
2018	SC	Construction and Mining	25	Scrapers	250	4822452.769	114.4368347	5.219801749	8.107311924	4820657.348	95.69520973	4.229344889	6.707258873	121882.9569	121882.9569	317.6523941	1.88	0.09	0.13	0.08	39.55
2018	SC	Construction and Mining	25	Scrapers	500	42216124.09	690.2117649	28.3451412	46.49379483	42200630.12	578.5432294	22.80038753	38.64148322	624601.4276	624601.4276	1396.157904	2.21	0.09	0.15	0.08	67.56
2018	SC	Construction and Mining	25	Scrapers	750	19310519.48	258.3886008	9.974908678	17.0358857	19307505.61	217.1523209	7.826055971	14.07501396	192972.7565	192972.7565	397.8218079	2.68	0.10	0.18	0.10	100.05
2018	SC	Construction and Mining	25	Scrapers	1000	302209.2789	12.15602081	0.566758131	0.880461894	302209.2789	12.15602081	0.566758131	0.880461894	1796.845871	1796.845871	6.554731942	13.53	0.63	0.98	0.58	168.19
2018	SC	Construction and Mining	25	Scrapers	9999	1098460.82	24.53891652	0.952119417	1.484513737	1098460.82	24.53891652	0.952119417	1.484513737	3156.958048	3156.958048	6.554731942	15.55	0.60	0.94	0.55	347.95
2018	SC	Construction and Mining	26	Skid Steer Loaders	50	2067581.178	21.67200143	0.993265173	2.276389936	2067471.169	21.6330083	0.99167014	2.238727388	314983.4239	314983.4239	1050.433677	0.14	0.01	0.01	0.01	6.56
2018	SC	Construction and Mining	26	Skid Steer Loaders	120	10978565.8	95.53234223	4.693426809	6.01023813	10975470.71	94.34297227	4.610990088	5.883908929	1151316.588	1151316.588	3389.822907	0.17	0.01	0.01	0.01	9.53
2018	SC	Construction and Mining	26	Skid Steer Loaders	175	74230.81936	0.629476983	0.027400242	0.038286402	74038.26828	0.570418832	0.026299687	0.035623533	3618.449102	3618.449102	14.06133331	0.35	0.02	0.02	0.01	20.46
2018	SC	Construction and Mining	26	Skid Steer Loaders	250	57034.32699	0.560632891	0.020683352	0.033992966	56652.83806	0.299075324	0.008409252	0.016332268	2139.270497	2139.270497	7.811851837	0.52	0.02	0.03	0.02	26.48
2018	SC	Construction and Mining	26	Skid Steer Loaders	500	15680.30579	0.029526003	0.000423599	0.002690714	15680.30579	0.028986428	0.00042063	0.002600496	430.3488755	430.3488755	1.562370367	0.14	0.00	0.01	0.00	36.44
2018	SC	Construction and Mining	26	Skid Steer Loaders	750	16540.65608	0.120649812	0.005146716	0.006718046	16540.65608	0.120649812	0.005146716	0.006718046	230.7667883	230.7667883	0.520790122	1.05	0.04	0.06	0.04	71.68
2018	SC	Construction and Mining	26	Skid Steer Loaders	1000	26991.38168	0.324568444	0.008214811	0.014987055	26991.38168	0.338909244	0.010955082	0.017748406	199.5820872	199.5820872	1.041580245	3.25	0.08	0.15	0.08	135.24
2018	SC	Construction and Mining	27	Surfacing Equipment	50	19137.82131	0.267326227	0.020604971	0.045137542	19137.82131	0.244485899	0.016222616	0.03265604	4279.264354	4279.264354	18.42610757	0.12	0.01	0.02	0.01	4.47
2018	SC	Construction and Mining	27	Surfacing Equipment	120	150066.7978	2.02758459	0.130057125	0.165308459	150081.9933	1.927539805	0.12079315	0.153980527	15266.82878	15266.82878	59.05803709	0.27	0.02	0.02	0.02	9.83
2018	SC	Construction and Mining	27	Surfacing Equipment	175	77244.88404	1.079287972	0.051639771	0.074507561	77372.61406	1.044224955	0.050193523	0.072320058	4650.235071	4650.235071	19.84350046	0.46	0.02	0.03	0.02	16.64
2018	SC	Construction and Mining	27	Surfacing Equipment	250	164139.4546	2.120314876	0.062661337	0.107681162	164219.8644	1.952553584	0.055164304	0.097483194	6817.156467	6817.156467	29.7652507	0.62	0.02	0.03	0.02	24.09
2018	SC	Construction and Mining	27	Surfacing Equipment	500	520569.1819	3.640084446	0.130457605	0.219824662	520544.0945	3.46370393	0.119524808	0.204448834	13050.41048	13050.41048	49.13628686	0.56	0.02	0.03	0.02	39.89
2018	SC	Construction and Mining	27	Surfacing Equipment	750	480486.3216	3.284429537	0.113305325	0.170469058	480486.3216	3.284429537	0.113305325	0.170469058	7082.310499	7082.310499	24.56814343	0.93	0.03	0.05	0.03	67.84
2018	SC	Construction and Mining	27	Surfacing Equipment	1000	78489.61988	1.362656084	0.033855492	0.059726753	78489.61988	1.362656084	0.033855492	0.059726753	867.9245828	867.9245828	3.307250077	3.14	0.08	0.14	0.07	90.43
2018	SC	Construction and Mining	27	Surfacing Equipment	9999	27508.20225	0.325617069	0.007549168	0.012540998	27508.20225	0.325617069	0.007549168	0.012540998	221.3663571	221.3663571	0.944928594	2.94	0.07	0.11	0.06	124.27
2018	SC	Construction and Mining	28	Tractors/Loaders/Backhoes	50	4095567.881	55.5298531	4.455641831	10.22752379	4097313.29	53.63553243	4.081264013	9.230281104	723508.6541	723508.6541	1470.002474	0.15	0.01	0.03	0.01	5.66
2018	SC	Construction and Mining	28	Tractors/Loaders/Backhoes	120	65869149.58	862.8524285	62.5787054	73.56380739	65802979.27	814.9333079	57.73322062	68.15187688	5842812.443	5842812.443	9981.163139	0.30	0.02	0.03	0.02	11.26
2018	SC	Construction and Mining	28	Tractors/Loaders/Backhoes	175	11382737.28	122.80103	6.281441341	9.513974808	11378471.57	109.3054362	5.503248583	8.46946548	590121.6377	590121.6377	1116.587245	0.42	0.02	0.03	0.02	19.28
2018	SC	Construction and Mining	28	Tractors/Loaders/Backhoes	250	6622603.283	76.53203917	2.594960916	4.78860571	6626569.873	68.99324835	2.226249762	4.26647817	240402.4661	240402.4661	446.634898	0.64	0.02	0.04	0.02	27.56
2018	SC	Construction and Mining	28	Tractors/Loaders/Backhoes	500	8825554.74	82.2175571	2.93075776	5.63988906	8827579.967	71.3597005	2.464753716	4.910542971	205617.891	205617.891	403.0982393	0.80	0.03	0.05	0.03	42.93
2018	SC	Construction and Mining	28	Tractors/Loaders/Backhoes	750	1260121.485	13.6711661	0.508708307	0.908137332	1260055.194	13.02019995	0.475517	0.857715124	16395.22387	16395.22387	28.17077912	1.67	0.06	0.11	0.06	76.86
2018	SC	Construction and Mining	28	Tractors/Loaders/Backhoes	1000	212811.4813	2.447887415	0.051505635	0.094428303	212811.4813	2.447887415	0.051505635	0.094428303	1788.021433	1788.021433	2.56097992	2.74	0.06	0.11	0.05	119.02
2018	SC	Construction and Mining	28	Tractors/Loaders/Backhoes	9999	2986246.347	39.98657065	1.089002171	1.975994491	2986246.347	35.42533	0.848591428	1.600219272	10993.17695	10993.17695	18.95125141	7.27	0.20	0.36	0.18	271.65
2018	SC	Construction and Mining	29	Trenchers	50	1450421.736	19.4587456	1.621047427	3.418638112	1450498.29	19.32543244	1.594835242	3.344836062	176837.7763	176837.7763	482.0643709	0.22	0.02	0.04	0.02	8.20
2018	SC	Construction and Mining	29	Trenchers	120	1049402.397	19.58842146	1.505474802	1.81939057	1049850.738	18.52787473	1.409373903	1.703465868	68912.5087	68912.5087	223.5025719	0.57	0.04	0.05	0.04	15.23

**Table C.18 CARB Offroad 2011 output**  
Used to calculate NOx, PM, HC, and fuel consumption

CalendarYear	AirBasin	Equipment Class	Equipment TypeID	Equipment Type	HorsepowerBin	lb/yr	ton/yr	ton/yr	ton/yr	lb/yr	ton/yr	ton/yr	ton/yr	hr/yr	hr/yr	Emissions per Equipment (lb/hr)					lb/hr
						BaseBSFC	BaseNOx	BasePM	BaseHC	ScenBSFC	ScenNOx	ScenPM	ScenHC	BaseActivity	ScenActivity	Population	NOx	PM	HC	PM2.5	BSFC per equipment
2018	SC	Construction and Mining	29	Trenchers	175	214333.6415	4.13813485	0.21849379	0.318495003	214325.0309	3.33120842	0.169764981	0.252558962	8152.504524	8152.504524	29.58122276	1.02	0.05	0.08	0.05	26.29
2018	SC	Construction and Mining	29	Trenchers	250	420766.4139	7.269799592	0.30586284	0.489139779	420146.0517	6.666974797	0.266736526	0.435923936	10405.96671	10405.96671	35.05922697	1.40	0.06	0.09	0.05	40.38
2018	SC	Construction and Mining	29	Trenchers	500	708760.1554	6.864175496	0.258472926	0.452020132	708760.1554	6.846861573	0.258455217	0.451083225	10736.97764	10736.97764	31.77242444	1.28	0.05	0.08	0.04	66.01
2018	SC	Construction and Mining	29	Trenchers	750	320882.4604	0.979661916	0.027364748	0.074220585	320882.4604	0.979661916	0.027364748	0.074220585	2785.78514	2785.78514	6.573605057	0.70	0.02	0.05	0.02	115.19
2018	SC	Construction and Mining	29	Trenchers	1000	18899.34617	0.751241169	0.034468536	0.053913232	18899.34617	0.751241169	0.034468536	0.053913232	119.1643088	119.1643088	0.547800421	12.61	0.58	0.90	0.53	158.60
2018	SC	Construction and Mining	36	Sweepers/Scrubbers	50	1261211.331	18.76638316	1.883949598	4.575555751	1261211.331	18.37693859	1.806510139	4.346240632	190468.0614	190468.0614	282.9563095	0.20	0.02	0.05	0.02	6.62
2018	SC	Construction and Mining	36	Sweepers/Scrubbers	120	1949243.937	31.85212723	2.669544853	3.101498187	1949243.937	29.9387264	2.496807426	2.887948194	149718.8049	149718.8049	230.3715086	0.43	0.04	0.04	0.03	13.02
2018	SC	Construction and Mining	36	Sweepers/Scrubbers	175	486219.3003	11.34006985	0.614967593	0.908269127	486219.3003	8.846062683	0.465881681	0.709215009	18193.56315	18193.56315	26.54280425	1.25	0.07	0.10	0.06	26.72
2018	SC	Construction and Mining	36	Sweepers/Scrubbers	250	259135.2898	4.232152557	0.17031107	0.282490999	259135.2898	3.361786022	0.132162795	0.225728086	7612.971639	7612.971639	11.0177678	1.11	0.04	0.07	0.04	34.04
2018	SC	Construction and Mining	36	Sweepers/Scrubbers	500	72295.35661	1.323912394	0.058272298	0.087925809	72295.35661	1.323912394	0.058272298	0.087925809	1429.339006	1429.339006	2.003230509	1.85	0.08	0.12	0.08	50.58
2018	SC	Construction and Mining	36	Sweepers/Scrubbers	1000	50666.49785	0.633753542	0.017381171	0.027129774	50666.49785	0.633753542	0.017381171	0.027129774	357.3347516	357.3347516	0.500807627	3.55	0.10	0.15	0.09	141.79
2019	SC	Construction and Mining	11	Bore/Drill Rigs	50	126066.8383	1.604473504	0.105780789	0.21050113	125764.5523	1.577094266	0.101125608	0.199338587	15366.04325	15366.04325	44.7742872	0.21	0.01	0.03	0.01	8.18
2019	SC	Construction and Mining	11	Bore/Drill Rigs	120	783040.8475	7.993996227	0.434643706	0.533229749	784576.9364	7.993271664	0.433682461	0.531407286	52778.2521	52778.2521	137.1507113	0.30	0.02	0.02	0.02	14.87
2019	SC	Construction and Mining	11	Bore/Drill Rigs	175	907451.0347	6.224287853	0.281389536	0.46551237	908481.8197	5.451481307	0.236606659	0.404858026	32838.02159	32838.02159	107.4582893	0.38	0.02	0.03	0.02	27.67
2019	SC	Construction and Mining	11	Bore/Drill Rigs	250	1280108.53	7.906031644	0.240625356	0.505684854	1279712.051	7.384529941	0.20942589	0.461874906	33875.42162	33875.42162	106.986981	0.47	0.01	0.03	0.01	37.78
2019	SC	Construction and Mining	11	Bore/Drill Rigs	500	1448949.121	8.871536549	0.293077485	0.592386819	1449327.15	6.829500379	0.210898867	0.470091645	22766.12207	22766.12207	74.93801752	0.78	0.03	0.05	0.02	63.66
2019	SC	Construction and Mining	11	Bore/Drill Rigs	750	1940348.535	8.648491895	0.284523361	0.573178891	1941261.395	8.459077961	0.2792522	0.562101203	17226.43285	17226.43285	37.23335462	1.00	0.03	0.07	0.03	112.69
2019	SC	Construction and Mining	11	Bore/Drill Rigs	1000	155451.8991	1.420604334	0.028425511	0.049934701	155451.8991	1.420604334	0.028425511	0.049934701	917.5826681	917.5826681	1.413924859	3.10	0.06	0.11	0.06	169.41
2019	SC	Construction and Mining	11	Bore/Drill Rigs	9999	526863.4689	6.811297923	0.170836903	0.252570916	526863.4689	6.811297923	0.170836903	0.252570916	1071.339764	1071.339764	1.413924859	12.72	0.32	0.47	0.29	491.78
2019	SC	Construction and Mining	12	Cranes	50	41521.81846	0.686284666	0.072010829	0.198518537	41521.81846	0.676515356	0.069884788	0.192132636	8809.224767	8809.224767	20.73963683	0.16	0.02	0.05	0.02	4.71
2019	SC	Construction and Mining	12	Cranes	120	990738.1344	25.87327251	1.917586258	2.55681682	991010.7797	20.80628527	1.496616254	1.985053357	105863.7571	105863.7571	250.060764	0.49	0.04	0.05	0.03	9.36
2019	SC	Construction and Mining	12	Cranes	175	2614264.031	57.32194949	3.130495915	4.537028498	2614158.223	46.45318478	2.481163336	3.663535929	166277.1083	166277.1083	375.091146	0.69	0.04	0.05	0.03	15.72
2019	SC	Construction and Mining	12	Cranes	250	4416225.859	90.66818511	4.199490339	6.52221817	4415659.655	67.30263422	2.85292049	4.667082138	192088.7844	192088.7844	421.3109081	0.94	0.04	0.07	0.04	22.99
2019	SC	Construction and Mining	12	Cranes	500	6771136.007	102.5963521	4.277554082	6.913252818	6773551.889	87.30444268	3.516148592	5.862103359	190367.1703	190367.1703	404.1266376	1.08	0.04	0.07	0.04	35.58
2019	SC	Construction and Mining	12	Cranes	750	1781685.237	20.22872073	0.750289238	1.236695665	1781230.185	18.39448251	0.664140501	1.117683202	29789.75651	29789.75651	59.25610522	1.36	0.05	0.08	0.05	59.79
2019	SC	Construction and Mining	12	Cranes	1000	417265.251	12.53550908	0.589979577	0.890642632	417265.251	11.53344656	0.554657536	0.832528381	4234.783613	4234.783613	8.888415783	5.92	0.28	0.42	0.26	98.53
2019	SC	Construction and Mining	12	Cranes	9999	32143.54027	0.226740549	0.005739869	0.013749563	32143.54027	0.226740549	0.005739869	0.013749563	295.1529721	295.1529721	0.592561052	1.54	0.04	0.09	0.04	108.90
2019	SC	Construction and Mining	13	Crawler Tractors	50	126248.7511	2.15149142	0.248183027	0.716792522	126248.7511	2.036785208	0.222786862	0.639835985	17313.54989	17313.54989	52.59287143	0.25	0.03	0.08	0.03	7.29
2019	SC	Construction and Mining	13	Crawler Tractors	120	5607293.469	114.5687974	9.741655276	11.36737835	5602232.54	106.5988686	8.914323578	10.43418903	406117.6267	406117.6267	905.1233173	0.56	0.05	0.06	0.04	13.79
2019	SC	Construction and Mining	13	Crawler Tractors	175	6099327.547	109.8960576	6.173125246	8.731267641	6092465.451	98.6730083	5.492960291	7.832441103	259381.0445	259381.0445	592.1957323	0.85	0.05	0.07	0.04	23.49
2019	SC	Construction and Mining	13	Crawler Tractors	250	6151255.377	100.5874834	3.944593869	6.453563965	6150412.423	91.6787998	3.457212309	5.784493357	192311.1799	192311.1799	432.8393319	1.05	0.04	0.07	0.04	31.98
2019	SC	Construction and Mining	13	Crawler Tractors	500	16503167.99	226.4288635	9.118257343	15.20924379	16490991.45	193.5327079	7.518691749	12.95872658	305482.177	305482.177	695.803689	1.48	0.06	0.10	0.05	53.98
2019	SC	Construction and Mining	13	Crawler Tractors	750	6432954.019	73.08108449	2.792359595	4.854016	6418268.841	64.32406458	2.367414021	4.23529541	71412.92114	71412.92114	142.5266816	2.05	0.08	0.14	0.07	89.88



**Table C.18 CARB Offroad 2011 output**  
Used to calculate NOx, PM, HC, and fuel consumption

CalendarYear	AirBasin	Equipment Class	Equipment TypeID	Equipment Type	HorsepowerBin	lb/yr	ton/yr	ton/yr	ton/yr	lb/yr	ton/yr	ton/yr	ton/yr	hr/yr	hr/yr	Emissions per Equipment (lb/hr)					lb/hr
						BaseBSFC	BaseNOx	BasePM	BaseHC	ScenBSFC	ScenNOx	ScenPM	ScenHC	BaseActivity	ScenActivity	Population	NOx	PM	HC	PM2.5	BSFC per equipment
2019	SC	Construction and Mining	13	Crawler Tractors	1000	850796.2629	18.2895267	0.534158754	0.963730296	850796.2629	18.2895267	0.534158754	0.963730296	6478.296604	6478.296604	12.62228914	5.65	0.16	0.30	0.15	131.33
2019	SC	Construction and Mining	13	Crawler Tractors	9999	449165.787	8.237981983	0.215476283	0.38497422	449165.787	8.237981983	0.215476283	0.38497422	1945.775001	1945.775001	3.155572286	8.47	0.22	0.40	0.20	230.84
2019	SC	Construction and Mining	14	Excavators	50	5063140.957	57.71840077	3.488288339	7.405781418	5063368.418	57.38817312	3.421546231	7.200006334	908503.5557	908503.5557	1288.122194	0.13	0.01	0.02	0.01	5.57
2019	SC	Construction and Mining	14	Excavators	120	6589782.202	73.39722165	4.832885907	6.089605207	6590310.797	67.2820033	4.2082567	5.362016204	580157.3444	580157.3444	931.687236	0.25	0.02	0.02	0.02	11.36
2019	SC	Construction and Mining	14	Excavators	175	13858930.79	121.5237568	5.978439372	9.725114436	13858047.44	105.3873254	5.08237258	8.467422305	676844.7155	676844.7155	1183.722606	0.36	0.02	0.03	0.02	20.47
2019	SC	Construction and Mining	14	Excavators	250	17599986.28	129.1106794	4.241412768	9.052017576	17599841.87	118.5827742	3.594968139	8.114808833	575124.906	575124.906	1017.632352	0.45	0.01	0.03	0.01	30.60
2019	SC	Construction and Mining	14	Excavators	500	29259205.24	164.8899508	5.613544887	12.61273028	29258605.76	156.8402885	5.092826905	11.8041808	636932.8668	636932.8668	1035.032283	0.52	0.02	0.04	0.02	45.94
2019	SC	Construction and Mining	14	Excavators	750	2649937.108	16.52949795	0.588602023	1.240829739	2652804.932	15.93663678	0.53845719	1.168082958	32972.21318	32972.21318	52.72706486	1.00	0.04	0.08	0.03	80.46
2019	SC	Construction and Mining	14	Excavators	1000	295670.4652	3.135984732	0.060357013	0.11759594	295662.7492	3.126868925	0.057847674	0.112947599	2521.731768	2521.731768	4.218165189	2.49	0.05	0.09	0.04	117.25
2019	SC	Construction and Mining	14	Excavators	9999	578791.1742	5.416508096	0.101458191	0.212882083	578791.1742	5.416508096	0.101458191	0.212882083	2657.168276	2657.168276	3.69089454	4.08	0.08	0.16	0.07	217.82
2019	SC	Construction and Mining	15	Graders	50	33480.28431	0.619891995	0.081357326	0.236405587	33480.28431	0.57263006	0.070964284	0.208292918	5459.88019	5459.88019	16.42866932	0.23	0.03	0.09	0.03	6.13
2019	SC	Construction and Mining	15	Graders	120	902244.0179	25.07997899	2.083446679	2.646714133	900886.6929	22.19941543	1.81004422	2.32069398	66367.93043	66367.93043	174.8858347	0.76	0.06	0.08	0.06	13.57
2019	SC	Construction and Mining	15	Graders	175	8341126.095	182.0979002	10.25880228	15.02675678	8327653.995	148.416579	8.305149297	12.41802662	370286.2018	370286.2018	818.2537238	0.98	0.06	0.08	0.05	22.49
2019	SC	Construction and Mining	15	Graders	250	14570248.39	233.0130862	7.779132117	14.390971	14532379.61	210.7326284	6.763264589	12.88327579	470426.851	470426.851	649.7273739	0.99	0.03	0.06	0.03	30.89
2019	SC	Construction and Mining	15	Graders	500	4152676.619	42.30922306	1.658315239	3.489072525	4151632.726	40.12324815	1.551229956	3.325475333	94403.76974	94403.76974	121.3601702	0.90	0.04	0.07	0.03	43.98
2019	SC	Construction and Mining	15	Graders	1000	40197.27499	1.121909558	0.039044879	0.070795406	40197.27499	1.121909558	0.039044879	0.070795406	336.6765305	336.6765305	0.529957075	6.66	0.23	0.42	0.21	119.39
2019	SC	Construction and Mining	15	Graders	9999	566262.4515	11.37211174	0.35140696	0.667956078	566262.4515	11.37211174	0.35140696	0.667956078	1897.903438	1897.903438	2.649785375	11.98	0.37	0.70	0.34	298.36
2019	SC	Construction and Mining	16	Off-Highway Tractors	50	2097705.399	29.46722712	2.63871466	6.53515408	2099878.701	26.88540306	2.064956499	4.90927552	313618.0418	313618.0418	493.405067	0.19	0.02	0.04	0.02	6.70
2019	SC	Construction and Mining	16	Off-Highway Tractors	120	2668611.363	40.17673279	3.163733482	3.69301977	2665458.058	35.27163766	2.641150738	3.118793608	222968.218	222968.218	358.7455176	0.36	0.03	0.03	0.03	11.95
2019	SC	Construction and Mining	16	Off-Highway Tractors	175	2280783.191	22.72428038	1.134314572	1.725253726	2281268.233	21.93773956	1.084574134	1.662582638	90127.77434	90127.77434	136.2193125	0.50	0.03	0.04	0.02	25.31
2019	SC	Construction and Mining	16	Off-Highway Tractors	250	1912534.314	21.51616738	0.807511517	1.483747732	1914255.183	16.79971542	0.562609693	1.136049563	56156.03774	56156.03774	88.90649784	0.77	0.03	0.05	0.03	34.09
2019	SC	Construction and Mining	16	Off-Highway Tractors	500	5376059.292	37.95033363	1.408568388	2.841180499	5374733.94	29.53174433	1.015361501	2.298826198	101103.9969	101103.9969	152.8567858	0.75	0.03	0.06	0.03	53.16
2019	SC	Construction and Mining	16	Off-Highway Tractors	750	1356029.648	9.097604635	0.345410822	0.71208173	1355809.344	8.868912741	0.333903459	0.691063147	14797.77992	14797.77992	22.35660472	1.23	0.05	0.10	0.04	91.62
2019	SC	Construction and Mining	16	Off-Highway Tractors	1000	38467.53378	1.417939819	0.072141357	0.099127815	38467.53378	0.274704089	0.007120346	0.013332543	240.680065	240.680065	0.51992104	11.78	0.60	0.82	0.55	159.83
2019	SC	Construction and Mining	16	Off-Highway Tractors	9999	310742.0058	4.3231213	0.121828478	0.262400739	316122.3834	3.524984933	0.092068428	0.187514138	1117.5122	1117.5122	2.07968416	7.74	0.22	0.47	0.20	282.88
2019	SC	Construction and Mining	17	Off-Highway Trucks	50	200400.1501	2.795925834	0.221623618	0.470348659	201954.0141	2.756343506	0.213123206	0.456411725	45561.54595	45561.54595	29.36446576	0.12	0.01	0.02	0.01	4.43
2019	SC	Construction and Mining	17	Off-Highway Trucks	120	245871.0558	3.880149721	0.316865603	0.402864564	245805.1294	3.245041187	0.237681906	0.322939265	20449.29088	20449.29088	16.48531411	0.38	0.03	0.04	0.03	12.02
2019	SC	Construction and Mining	17	Off-Highway Trucks	175	4758234.472	46.65090216	2.503010623	4.314607068	4758860.21	40.55753953	2.145446961	3.827139139	214665.4996	214665.4996	157.6408162	0.43	0.02	0.04	0.02	22.17
2019	SC	Construction and Mining	17	Off-Highway Trucks	250	9774443.803	114.7033618	4.960603652	9.431164179	9778819.547	88.10163333	3.511579723	7.489061485	332276.0594	332276.0594	269.9470186	0.69	0.03	0.06	0.03	29.43
2019	SC	Construction and Mining	17	Off-Highway Trucks	500	41443237.82	402.55301	15.38764138	31.65072313	41398795.63	329.8739998	11.99575178	26.91893028	788487.2401	788487.2401	599.6533008	1.02	0.04	0.08	0.04	52.50
2019	SC	Construction and Mining	17	Off-Highway Trucks	750	14761546.72	171.5345179	7.017201617	13.70914946	14763748.92	147.0364733	5.69543705	11.96346374	160371.0779	160371.0779	137.0341735	2.14	0.09	0.17	0.08	92.06
2019	SC	Construction and Mining	17	Off-Highway Trucks	1000	10238889.12	159.0682869	4.258544667	8.426017386	10243522.16	147.2744713	3.837313115	7.540317648	81829.82012	81829.82012	62.85026004	3.89	0.10	0.21	0.10	125.18
2019	SC	Construction and Mining	17	Off-Highway Trucks	9999	14863421.64	199.628793	5.408148932	11.806124	14869249.63	181.1191335	4.648566192	10.40378341	59443.73043	59443.73043	40.69811921	6.72	0.18	0.40	0.17	250.14



**Table C.18 CARB Offroad 2011 output**  
Used to calculate NOx, PM, HC, and fuel consumption

CalendarYear	AirBasin	Equipment Class	Equipment TypeID	Equipment Type	HorsepowerBin	lb/yr	ton/yr	ton/yr	ton/yr	lb/yr	ton/yr	ton/yr	ton/yr	hr/yr	hr/yr	Population	Emissions per Equipment (lb/hr)				lb/hr
						BaseBSFC	BaseNOx	BasePM	BaseHC	ScenBSFC	ScenNOx	ScenPM	ScenHC	BaseActivity	ScenActivity		NOx	PM	HC	PM2.5	BSFC per equipment
2019	SC	Construction and Mining	18	Other Construction Equipment	50	1133467.703	15.98245426	1.356336658	2.961546807	1132789.318	15.82815417	1.330412797	2.895786846	174788.5968	174788.5968	381.0277906	0.18	0.02	0.03	0.01	6.48
2019	SC	Construction and Mining	18	Other Construction Equipment	120	3556639.768	58.89576226	4.500181286	5.412225297	3553787.127	53.92250376	4.047028798	4.85853487	285998.9634	285998.9634	672.3114852	0.41	0.03	0.04	0.03	12.43
2019	SC	Construction and Mining	18	Other Construction Equipment	175	1933719.056	29.3876128	1.579303587	2.266862289	1933597.915	25.85826355	1.361773241	1.986386417	83537.10068	83537.10068	209.2319496	0.70	0.04	0.05	0.03	23.15
2019	SC	Construction and Mining	18	Other Construction Equipment	250	2480169.803	31.79293256	1.225758141	2.051187503	2479373.501	28.39282982	1.052830867	1.81588143	74499.47114	74499.47114	187.6933666	0.85	0.03	0.06	0.03	33.28
2019	SC	Construction and Mining	18	Other Construction Equipment	500	8459264.61	82.57023856	3.101302273	5.579954224	8453807.293	72.0767047	2.589139227	4.870974158	154470.5436	154470.5436	364.6174416	1.07	0.04	0.07	0.04	54.73
2019	SC	Construction and Mining	18	Other Construction Equipment	750	3300037.482	34.86229446	1.213641303	2.155867887	3308920.427	27.11660738	0.89562744	1.696138421	36166.89346	36166.89346	75.38504067	1.93	0.07	0.12	0.06	91.49
2019	SC	Construction and Mining	18	Other Construction Equipment	1000	384411.0492	4.468067567	0.107659654	0.185049176	384389.5667	4.45779573	0.107251872	0.183485709	3047.336979	3047.336979	6.666704277	2.93	0.07	0.12	0.07	126.14
2019	SC	Construction and Mining	18	Other Construction Equipment	9999	239395.2686	3.626038304	0.098820734	0.176898221	238814.6988	2.909030038	0.069592087	0.132643008	1427.902404	1427.902404	3.076940436	5.08	0.14	0.25	0.13	167.25
2019	SC	Construction and Mining	19	Pavers	50	138746.4303	1.941124953	0.182232439	0.493652929	138829.6538	1.837618427	0.163005403	0.437896241	21133.64902	21133.64902	61.75833798	0.18	0.02	0.05	0.02	6.57
2019	SC	Construction and Mining	19	Pavers	120	1344692.891	20.3785947	1.53775826	1.819353545	1344736.094	18.95423456	1.401948996	1.662505496	111365.9591	111365.9591	300.042592	0.37	0.03	0.03	0.03	12.07
2019	SC	Construction and Mining	19	Pavers	175	1828470.174	20.48449145	1.024196047	1.560658602	1828567.356	17.78950254	0.871183761	1.353848961	75716.07747	75716.07747	202.7732097	0.54	0.03	0.04	0.02	24.15
2019	SC	Construction and Mining	19	Pavers	250	1229639.749	11.20457691	0.304144312	0.560524822	1230901.833	11.47662114	0.310567736	0.569507943	37788.00449	37788.00449	87.49097881	0.59	0.02	0.03	0.01	32.57
2019	SC	Construction and Mining	19	Pavers	500	464023.579	3.200628702	0.114265026	0.193997215	464023.579	3.200628702	0.114265026	0.193997215	9405.888726	9405.888726	21.61541829	0.68	0.02	0.04	0.02	49.33
2019	SC	Construction and Mining	19	Pavers	750	53722.44346	0.193504048	0.008434993	0.01519188	53722.44346	0.193504048	0.008434993	0.01519188	469.852928	469.852928	1.029305633	0.82	0.04	0.06	0.03	114.34
2019	SC	Construction and Mining	20	Paving Equipment	50	172786.1559	2.048847164	0.139704428	0.315390602	172820.4477	1.995777722	0.127020925	0.274242847	34555.65559	34555.65559	76.04612584	0.12	0.01	0.02	0.01	5.00
2019	SC	Construction and Mining	20	Paving Equipment	120	785312.5302	10.50381349	0.755015367	0.936956626	786063.1839	9.505734386	0.660498633	0.826375525	67819.60503	67819.60503	155.1752027	0.31	0.02	0.03	0.02	11.59
2019	SC	Construction and Mining	20	Paving Equipment	175	740130.1557	6.953418183	0.351695492	0.541125933	740134.1011	6.001743601	0.297758852	0.468077736	38373.48331	38373.48331	84.7811538	0.36	0.02	0.03	0.02	19.29
2019	SC	Construction and Mining	20	Paving Equipment	250	387994.6318	4.390733164	0.166753829	0.280147028	388004.8898	3.788004478	0.130063469	0.231839458	13802.18708	13802.18708	30.82951047	0.64	0.02	0.04	0.02	28.11
2019	SC	Construction and Mining	20	Paving Equipment	500	546972.3785	4.753356158	0.167317035	0.298373304	546927.754	4.926789295	0.176127863	0.311389697	12477.34509	12477.34509	27.74655943	0.76	0.03	0.05	0.02	43.83
2019	SC	Construction and Mining	20	Paving Equipment	750	259550.5137	2.267133376	0.055371396	0.127488805	259550.5137	2.638528768	0.064791348	0.141838891	3290.596276	3290.596276	6.679727269	1.38	0.03	0.08	0.03	78.88
2019	SC	Construction and Mining	20	Paving Equipment	1000	50753.21423	0.351025247	0.005586825	0.010551723	50753.21423	0.351025247	0.005586825	0.010551723	461.9651176	461.9651176	1.027650349	1.52	0.02	0.05	0.02	109.86
2019	SC	Construction and Mining	21	Rollers	50	2850620.015	36.85674449	2.904194722	6.769336745	2850911.661	35.70433124	2.684685922	6.174002566	520916.8034	520916.8034	1560.272806	0.14	0.01	0.03	0.01	5.47
2019	SC	Construction and Mining	21	Rollers	120	4454117.187	62.26482428	4.277424888	5.368538091	4454004.219	55.70605046	3.66230058	4.654182401	371008.0618	371008.0618	1163.593279	0.34	0.02	0.03	0.02	12.01
2019	SC	Construction and Mining	21	Rollers	175	4606348.255	41.7818365	1.957091051	2.974742631	4606451.866	37.35561109	1.715042044	2.640358001	232714.9433	232714.9433	672.7684779	0.36	0.02	0.03	0.02	19.79
2019	SC	Construction and Mining	21	Rollers	250	727430.5401	6.795872015	0.226292916	0.418074736	727280.861	6.282300635	0.1999711	0.378998942	24704.52879	24704.52879	82.50934162	0.55	0.02	0.03	0.02	29.44
2019	SC	Construction and Mining	21	Rollers	500	460305.5987	4.06546534	0.155564042	0.266801606	460305.5987	3.960035233	0.151021105	0.263461338	9830.962598	9830.962598	33.84998631	0.83	0.03	0.05	0.03	46.82
2019	SC	Construction and Mining	21	Rollers	750	22381.40497	0.077163045	0.00320181	0.005814175	22381.40497	0.047048486	0.000621595	0.004426499	311.8075039	311.8075039	1.057812072	0.49	0.02	0.04	0.02	71.78
2019	SC	Construction and Mining	22	Rough Terrain	50	145199.1662	1.792591595	0.129556131	0.329471114	145258.2102	1.785657908	0.128390617	0.326721028	18699.3876	18699.3876	70.86687485	0.19	0.01	0.04	0.01	7.77
2019	SC	Construction and Mining	22	Rough Terrain	120	11688263.92	95.54133027	4.416167096	6.244692231	11687474.6	91.90416942	4.094686689	5.8481747	821088.8966	821088.8966	3036.279034	0.23	0.01	0.02	0.01	14.23

**Table C.18 CARB Offroad 2011 output**  
Used to calculate NOx, PM, HC, and fuel consumption

CalendarYear	AirBasin	Equipment Class	EquipmentTypeID	Equipment Type	HorsepowerBin	lb/yr	ton/yr	ton/yr	ton/yr	lb/yr	ton/yr	ton/yr	ton/yr	hr/yr	hr/yr	Emissions per Equipment (lb/hr)				lb/hr	
						BaseBSFC	BaseNOx	BasePM	BaseHC	ScenBSFC	ScenNOx	ScenPM	ScenHC	BaseActivity	ScenActivity	Population	NOx	PM	HC	PM2.5	BSFC per equipment
2019	SC	Construction and Mining	22	Rough Terrain	175	2148663.743	14.47394014	0.556548946	0.897307289	2148655.391	13.29025423	0.48659078	0.797051938	112482.072	112482.072	406.2626877	0.26	0.01	0.02	0.01	19.10
2019	SC	Construction and Mining	22	Rough Terrain	250	176626.8804	2.973384949	0.143313033	0.22013472	176510.5298	0.86798592	0.019260498	0.047864431	5736.992165	5736.992165	23.82593206	1.04	0.05	0.08	0.05	30.77
2019	SC	Construction and Mining	22	Rough Terrain	500	74630.90907	0.561977609	0.021851079	0.038501974	74770.72918	0.445303278	0.009744173	0.021808387	1370.518723	1370.518723	5.498292014	0.82	0.03	0.06	0.03	54.56
2019	SC	Construction and Mining	22	Rough Terrain	750	11715.376	0.537804382	0.02914997	0.043541868	11715.376	0.046738792	0.000326217	0.002862836	127.052758	127.052758	0.610921335	8.47	0.46	0.69	0.42	92.21
2019	SC	Construction and Mining	23	Rubber Tired Dozers	50	125018.6334	2.295443826	0.304358927	0.845464954	126491.705	1.533454821	0.127821342	0.344305498	18912.95545	18912.95545	20.65001731	0.24	0.03	0.09	0.03	6.69
2019	SC	Construction and Mining	23	Rubber Tired Dozers	120	597034.9743	16.57502078	1.477171517	1.771018534	599612.8954	13.44549856	1.154609364	1.411362236	49978.15622	49978.15622	61.44639298	0.66	0.06	0.07	0.05	12.00
2019	SC	Construction and Mining	23	Rubber Tired Dozers	175	499517.9325	13.35707435	0.772247542	1.09997751	499069.899	11.24934722	0.647091622	0.938147608	22934.31865	22934.31865	31.73051441	1.16	0.07	0.10	0.06	21.76
2019	SC	Construction and Mining	23	Rubber Tired Dozers	250	521254.4183	12.31550821	0.611073674	0.951923024	520666.2193	10.77765872	0.525504277	0.836974572	16918.73483	16918.73483	24.67928898	1.46	0.07	0.11	0.07	30.77
2019	SC	Construction and Mining	23	Rubber Tired Dozers	500	5976934.098	124.3923826	5.796546097	9.428924138	5972913.905	108.4505376	4.992511516	8.346687278	114426.9802	114426.9802	164.6964795	2.17	0.10	0.16	0.09	52.20
2019	SC	Construction and Mining	23	Rubber Tired Dozers	750	701838.0548	14.14904833	0.521771419	0.882303561	701838.0548	12.87875301	0.458786561	0.790435088	8264.703536	8264.703536	10.07317918	3.42	0.13	0.21	0.12	84.92
2019	SC	Construction and Mining	24	Rubber Tired Loaders	50	396183.9966	6.073497304	0.6017052	1.546096191	396150.7455	5.81624509	0.554208962	1.417404186	64390.55103	64390.55103	77.69485537	0.19	0.02	0.05	0.02	6.15
2019	SC	Construction and Mining	24	Rubber Tired Loaders	120	9626948.207	166.4450733	13.78517122	16.66315421	9626932.566	146.7848133	11.78655114	14.41015471	853427.6017	853427.6017	965.9360398	0.39	0.03	0.04	0.03	11.28
2019	SC	Construction and Mining	24	Rubber Tired Loaders	175	22881756	318.1155756	17.79029057	27.14125888	22886707	265.7325155	14.68774775	23.05471313	1151049.211	1151049.211	1265.691191	0.55	0.03	0.05	0.03	19.88
2019	SC	Construction and Mining	24	Rubber Tired Loaders	250	31516671.34	381.1085204	13.14566972	26.10185909	31525434.08	356.3704225	11.94854863	24.33434782	1158950.937	1158950.937	1125.000507	0.66	0.02	0.05	0.02	27.20
2019	SC	Construction and Mining	24	Rubber Tired Loaders	500	41059687.93	498.6688165	19.37917058	37.38595233	40997418.04	409.4944052	15.2858093	31.47226528	976955.2964	976955.2964	1045.205791	1.02	0.04	0.08	0.04	41.96
2019	SC	Construction and Mining	24	Rubber Tired Loaders	750	7305193.209	76.46385232	2.990458789	5.989370313	7325654.507	68.02293844	2.668878487	5.460576768	94093.37704	94093.37704	92.39388207	1.63	0.06	0.13	0.06	77.86
2019	SC	Construction and Mining	24	Rubber Tired Loaders	1000	2114638.758	37.96811486	1.065526724	1.929164098	2112262.871	34.78108433	0.931284921	1.702864697	19090.11259	19090.11259	16.79888765	3.98	0.11	0.20	0.10	110.65
2019	SC	Construction and Mining	24	Rubber Tired Loaders	9999	841190.4835	11.71288707	0.278894983	0.539668982	841190.4835	10.4072956	0.226546395	0.442636285	4193.243548	4193.243548	3.674756673	5.59	0.13	0.26	0.12	200.61
2019	SC	Construction and Mining	25	Scrapers	50	9074.150615	0.168135818	0.023100556	0.068625604	9074.150615	0.168135818	0.023100556	0.068625604	1281.04085	1281.04085	3.631929566	0.26	0.04	0.11	0.03	7.08
2019	SC	Construction and Mining	25	Scrapers	120	413669.8993	8.54650506	0.660251629	0.748038205	413669.8993	8.301506051	0.637635363	0.720050688	27060.63056	27060.63056	52.40355516	0.63	0.05	0.06	0.04	15.29
2019	SC	Construction and Mining	25	Scrapers	175	4370978.286	80.88693119	4.410862985	6.454657207	4370469.639	68.14721621	3.668035766	5.457421084	146527.1585	146527.1585	336.7317554	1.10	0.06	0.09	0.06	29.83
2019	SC	Construction and Mining	25	Scrapers	250	5022731.21	110.6324587	5.032750381	7.902790786	5022905.444	88.61580467	3.900646641	6.296577267	127035.2971	127035.2971	326.8736609	1.74	0.08	0.12	0.07	39.54
2019	SC	Construction and Mining	25	Scrapers	500	43980880.21	675.4941208	27.68742421	46.18283208	43969257.62	548.7099023	21.49990424	37.40755056	651005.1113	651005.1113	1436.687567	2.08	0.09	0.14	0.08	67.54
2019	SC	Construction and Mining	25	Scrapers	750	20106646.95	246.7069549	9.572936381	16.71235937	20119061.34	207.3115122	7.44286906	13.82100851	201130.2653	201130.2653	409.3703467	2.45	0.10	0.17	0.09	100.03
2019	SC	Construction and Mining	25	Scrapers	1000	314984.527	12.66989048	0.590716614	0.917681529	314984.527	12.66989048	0.590716614	0.917681529	1872.80367	1872.80367	6.74501205	13.53	0.63	0.98	0.58	168.19
2019	SC	Construction and Mining	25	Scrapers	9999	1144895.891	25.82501743	1.010250345	1.579775727	1144895.891	25.82501743	1.010250345	1.579775727	3290.411668	3290.411668	6.74501205	15.70	0.61	0.96	0.56	347.95
2019	SC	Construction and Mining	26	Skid Steer Loaders	50	2157025.185	21.75307607	0.885356164	2.151861911	2156843.392	21.73864201	0.890308962	2.138717107	328298.6716	328298.6716	1080.927164	0.13	0.01	0.01	0.00	6.57
2019	SC	Construction and Mining	26	Skid Steer Loaders	120	11446165.18	92.14139262	4.251257987	5.788184686	11443073.1	91.31259628	4.183593096	5.665781396	1199986.023	1199986.023	3488.227522	0.15	0.01	0.01	0.01	9.54
2019	SC	Construction and Mining	26	Skid Steer Loaders	175	77374.82313	0.528106448	0.021670541	0.033976206	77341.66856	0.492280327	0.021499011	0.032748112	3771.411265	3771.411265	14.46952575	0.28	0.01	0.02	0.01	20.51
2019	SC	Construction and Mining	26	Skid Steer Loaders	250	59057.72588	0.30636969	0.008933483	0.017976699	59020.21652	0.235689288	0.007088277	0.014980924	2229.703562	2229.703562	8.038625415	0.27	0.01	0.02	0.01	26.47
2019	SC	Construction and Mining	26	Skid Steer Loaders	500	16343.15704	0.030738882	0.000446861	0.002965543	16343.15704	0.03014798	0.000443903	0.002873705	448.5409498	448.5409498	1.607725083	0.14	0.00	0.01	0.00	36.44
2019	SC	Construction and Mining	26	Skid Steer Loaders	750	17239.87679	0.126042218	0.005407317	0.007176502	17239.87679	0.126042218	0.005407317	0.007176502	240.5219586	240.5219586	0.535908361	1.05	0.04	0.06	0.04	71.68
2019	SC	Construction and Mining	26	Skid Steer Loaders	1000	28132.38437	0.345938134	0.008903712	0.016341054	28132.38437	0.36216459	0.011795373	0.019340756	208.0189912	208.0189912	1.071816722	3.33	0.09	0.16	0.08	135.24

**Table C.18 CARB Offroad 2011 output**  
Used to calculate NOx, PM, HC, and fuel consumption

CalendarYear	AirBasin	Equipment Class	EquipmentTypeID	Equipment Type	HorsepowerBin	lb/yr	ton/yr	ton/yr	ton/yr	lb/yr	ton/yr	ton/yr	ton/yr	hr/yr	hr/yr	Emissions per Equipment (lb/hr)				lb/hr	
						BaseBSFC	BaseNOx	BasePM	BaseHC	ScenBSFC	ScenNOx	ScenPM	ScenHC	BaseActivity	ScenActivity	Population	NOx	PM	HC	PM2.5	BSFC per equipment
2019	SC	Construction and Mining	27	Surfacing Equipment	50	19977.13803	0.265694689	0.019292033	0.044799408	19955.05721	0.233682339	0.013234752	0.028100955	4460.161063	4460.161063	18.96100691	0.12	0.01	0.02	0.01	4.47
2019	SC	Construction and Mining	27	Surfacing Equipment	120	156618.3897	1.906983672	0.116780776	0.150254881	156633.6527	1.792912722	0.105823241	0.137688981	15912.20117	15912.20117	60.77245803	0.24	0.01	0.02	0.01	9.84
2019	SC	Construction and Mining	27	Surfacing Equipment	175	80505.00289	1.127625986	0.054262419	0.078378175	80486.82721	1.030826032	0.049514056	0.07178233	4846.81377	4846.81377	20.4195459	0.47	0.02	0.03	0.02	16.61
2019	SC	Construction and Mining	27	Surfacing Equipment	250	171387.812	1.87408059	0.05653589	0.098596758	171383.7844	1.734715142	0.051392091	0.091306197	7105.337113	7105.337113	30.62931885	0.53	0.02	0.03	0.01	24.12
2019	SC	Construction and Mining	27	Surfacing Equipment	500	544667.6678	3.525037547	0.130370744	0.224837439	544641.1337	3.111415535	0.111518085	0.196949038	13602.08855	13602.08855	50.56268508	0.52	0.02	0.03	0.02	40.04
2019	SC	Construction and Mining	27	Surfacing Equipment	750	499911.48	3.287710695	0.115125951	0.176905189	499911.48	3.287710695	0.115125951	0.176905189	7381.699962	7381.699962	25.28134254	0.89	0.03	0.05	0.03	67.72
2019	SC	Construction and Mining	27	Surfacing Equipment	1000	81810.31071	1.423897112	0.035512273	0.062716314	81810.31071	1.423897112	0.035512273	0.062716314	904.6142301	904.6142301	3.40325765	3.15	0.08	0.14	0.07	90.44
2019	SC	Construction and Mining	27	Surfacing Equipment	9999	28671.05241	0.340371887	0.007942406	0.013374731	28671.05241	0.340371887	0.007942406	0.013374731	230.7241444	230.7241444	0.972359329	2.95	0.07	0.12	0.06	124.27
2019	SC	Construction and Mining	28	Tractors/Loaders/Backhoes	50	4271349.902	55.63299818	4.167749144	9.716143853	4271923.039	54.08264799	3.872612705	8.922966261	754093.4283	754093.4283	1512.675802	0.15	0.01	0.03	0.01	5.66
2019	SC	Construction and Mining	28	Tractors/Loaders/Backhoes	120	68575564.67	814.0206093	56.60194023	68.9403915	68536455.69	754.9532708	50.40003305	62.14490329	6089804.788	6089804.788	10270.91058	0.27	0.02	0.02	0.02	11.25
2019	SC	Construction and Mining	28	Tractors/Loaders/Backhoes	175	11860663.14	114.3348424	5.827839238	9.117919584	11857807.41	100.1193572	5.037940999	8.037633205	615067.7623	615067.7623	1149.001132	0.37	0.02	0.03	0.02	19.28
2019	SC	Construction and Mining	28	Tractors/Loaders/Backhoes	250	6905250.329	71.74777035	2.439290238	4.664881435	6904065.368	65.40775784	2.119583411	4.206966511	250564.9639	250564.9639	459.6004529	0.57	0.02	0.04	0.02	27.55
2019	SC	Construction and Mining	28	Tractors/Loaders/Backhoes	500	9220724.995	76.92924789	2.763789951	5.528894637	9212095.838	65.34131838	2.274239632	4.745035969	214309.9457	214309.9457	414.79995	0.72	0.03	0.05	0.02	42.98
2019	SC	Construction and Mining	28	Tractors/Loaders/Backhoes	750	1312656.688	12.98693376	0.471160174	0.880990685	1317979.396	12.44624407	0.465789219	0.863843721	17088.29674	17088.29674	28.98856067	1.52	0.06	0.10	0.05	77.13
2019	SC	Construction and Mining	28	Tractors/Loaders/Backhoes	1000	221773.594	2.563813945	0.054479911	0.101475121	221773.594	2.563813945	0.054479911	0.101475121	1863.606199	1863.606199	2.635323698	2.75	0.06	0.11	0.05	119.00
2019	SC	Construction and Mining	28	Tractors/Loaders/Backhoes	9999	3112483.497	35.60528093	0.825149827	1.630436739	3112483.497	34.42766193	0.768273132	1.521693202	11457.88989	11457.88989	19.50139536	6.21	0.14	0.28	0.13	271.65
2019	SC	Construction and Mining	29	Trenchers	50	1511062.024	19.64378301	1.569158857	3.311434948	1510526.844	19.43038555	1.529924086	3.20561068	184313.2134	184313.2134	496.058423	0.21	0.02	0.04	0.02	8.20
2019	SC	Construction and Mining	29	Trenchers	120	1093913.742	19.45358633	1.483914576	1.797472748	1093260.332	18.59226442	1.40564959	1.703612717	71825.63697	71825.63697	229.9907234	0.54	0.04	0.05	0.04	15.22
2019	SC	Construction and Mining	29	Trenchers	175	223410.5421	3.706002565	0.191948581	0.282014388	223384.9424	3.358493754	0.172443608	0.257339234	8497.13414	8497.13414	30.43994868	0.87	0.05	0.07	0.04	26.29
2019	SC	Construction and Mining	29	Trenchers	250	438025.3782	6.858477347	0.278292455	0.45649906	438303.2787	6.622061638	0.266660486	0.439025666	10845.8566	10845.8566	36.07697622	1.26	0.05	0.08	0.05	40.41
2019	SC	Construction and Mining	29	Trenchers	500	739322.0126	6.970185182	0.262450048	0.468310467	739322.0126	6.952067387	0.262432027	0.467317462	11190.86031	11190.86031	32.6947597	1.25	0.05	0.08	0.04	66.06
2019	SC	Construction and Mining	29	Trenchers	750	332959.4431	0.703752219	0.015177119	0.064293544	332959.4431	0.703752219	0.015177119	0.064293544	2903.548222	2903.548222	6.764433041	0.48	0.01	0.04	0.01	114.67
2019	SC	Construction and Mining	29	Trenchers	1000	19698.27543	0.784829468	0.036124805	0.056426927	19698.27543	0.784829468	0.036124805	0.056426927	124.201724	124.201724	0.563702753	12.64	0.58	0.91	0.54	158.60
2019	SC	Construction and Mining	36	Sweepers/Scrubbers	50	1314526.331	18.86605723	1.794819484	4.325290754	1314526.331	18.53721476	1.742604688	4.195987397	198519.6896	198519.6896	291.1703688	0.19	0.02	0.04	0.02	6.62
2019	SC	Construction and Mining	36	Sweepers/Scrubbers	120	2031644.038	31.87252261	2.65570376	3.110729233	2031644.038	28.99662365	2.352770752	2.759626619	156047.8458	156047.8458	237.0590613	0.41	0.03	0.04	0.03	13.02
2019	SC	Construction and Mining	36	Sweepers/Scrubbers	175	506773.1768	11.47996212	0.617044621	0.919247265	506773.1768	8.050331209	0.420986181	0.656804048	18962.65695	18962.65695	27.31332663	1.21	0.07	0.10	0.06	26.72
2019	SC	Construction and Mining	36	Sweepers/Scrubbers	250	270089.6775	3.298309373	0.132021762	0.231730885	270089.6775	2.334512821	0.080571112	0.157967485	7934.793662	7934.793662	11.33760728	0.83	0.03	0.06	0.03	34.04
2019	SC	Construction and Mining	36	Sweepers/Scrubbers	500	75351.48751	1.230203352	0.053405631	0.080969901	75351.48751	1.230203352	0.053405631	0.080969901	1489.761242	1489.761242	2.061383142	1.65	0.07	0.11	0.07	50.58
2019	SC	Construction and Mining	36	Sweepers/Scrubbers	1000	52808.31522	0.665772107	0.018577914	0.030149566	52808.31522	0.665772107	0.018577914	0.030149566	372.4403106	372.4403106	0.515345785	3.58	0.10	0.16	0.09	141.79
2020	SC	Construction and Mining	11	Bore/Drill Rigs	50	131362.8974	1.625856839	0.104176969	0.211138165	131366.254	1.616279954	0.102335118	0.20583021	15994.81507	15994.81507	46.03100712	0.20	0.01	0.03	0.01	8.21
2020	SC	Construction and Mining	11	Bore/Drill Rigs	120	817934.0995	7.747352518	0.403875477	0.520084257	819156.651	7.681458245	0.397370781	0.509682836	54937.9153	54937.9153	141.0002429	0.28	0.01	0.02	0.01	14.91
2020	SC	Construction and Mining	11	Bore/Drill Rigs	175	945645.3259	5.814548933	0.262930715	0.447659747	947563.6465	5.26320129	0.231294321	0.405101656	34181.73919	34181.73919	110.4744171	0.34	0.02	0.03	0.01	27.72
2020	SC	Construction and Mining	11	Bore/Drill Rigs	250	1337431.805	7.515256285	0.233946528	0.507137749	1336049.245	7.333722926	0.211299753	0.477529582	35261.58919	35261.58919	109.9898802	0.43	0.01	0.03	0.01	37.89

**Table C.18 CARB Offroad 2011 output**  
Used to calculate NOx, PM, HC, and fuel consumption

CalendarYear	AirBasin	Equipment Class	Equipment TypeID	Equipment Type	HorsepowerBin	lb/yr	ton/yr	ton/yr	ton/yr	lb/yr	ton/yr	ton/yr	ton/yr	hr/yr	hr/yr	Emissions per Equipment (lb/hr)					lb/hr
						BaseBSFC	BaseNOx	BasePM	BaseHC	ScenBSFC	ScenNOx	ScenPM	ScenHC	BaseActivity	ScenActivity	Population	NOx	PM	HC	PM2.5	BSFC per equipment
2020	SC	Construction and Mining	11	Bore/Drill Rigs	500	1510671.462	7.793304076	0.253956802	0.548639805	1509106.067	6.45991813	0.20427778	0.471682825	23697.70191	23697.70191	77.04136981	0.66	0.02	0.05	0.02	63.68
2020	SC	Construction and Mining	11	Bore/Drill Rigs	750	2031414.318	7.184629646	0.239321334	0.539561565	2030583.711	7.48137915	0.248836118	0.545744795	17931.33101	17931.33101	38.27841645	0.80	0.03	0.06	0.02	113.24
2020	SC	Construction and Mining	11	Bore/Drill Rigs	1000	161804.6855	1.4829617	0.029753881	0.053402397	161804.6855	1.4829617	0.029753881	0.053402397	955.129753	955.129753	1.453610751	3.11	0.06	0.11	0.06	169.41
2020	SC	Construction and Mining	11	Bore/Drill Rigs	9999	548422.4936	7.098680083	0.178556333	0.265579747	548422.4936	7.098680083	0.178556333	0.265579747	1115.178522	1115.178522	1.453610751	12.73	0.32	0.48	0.29	491.78
2020	SC	Construction and Mining	12	Cranes	50	43218.68385	0.718264205	0.076044487	0.210487257	43218.68385	0.708071378	0.073795392	0.203725838	9169.694425	9169.694425	21.32175474	0.16	0.02	0.05	0.02	4.71
2020	SC	Construction and Mining	12	Cranes	120	1031295.545	25.73919009	1.897988749	2.538017862	1031560.104	19.86261121	1.40974633	1.882779571	110195.6561	110195.6561	257.0794429	0.47	0.03	0.05	0.03	9.36
2020	SC	Construction and Mining	12	Cranes	175	2721328.704	57.51654875	3.152645952	4.585725856	2720897.173	45.27432999	2.420912592	3.606773979	173081.0955	173081.0955	385.6191644	0.66	0.04	0.05	0.03	15.72
2020	SC	Construction and Mining	12	Cranes	250	4596991.23	90.50147649	4.180066783	6.548627163	4596319.143	62.8787764	2.592236421	4.370043345	199948.9741	199948.9741	433.1362178	0.91	0.04	0.07	0.04	22.99
2020	SC	Construction and Mining	12	Cranes	500	7046921.666	102.7028503	4.305196026	7.043069366	7049511.207	81.69491531	3.27454838	5.604280442	198156.9124	198156.9124	415.469621	1.04	0.04	0.07	0.04	35.58
2020	SC	Construction and Mining	12	Cranes	750	1853893.465	19.98830328	0.757332932	1.267288266	1853192.623	17.34127643	0.647926927	1.116023551	31008.74043	31008.74043	60.91929927	1.29	0.05	0.08	0.04	59.76
2020	SC	Construction and Mining	12	Cranes	1000	434313.3741	11.14061227	0.482971179	0.739506952	434313.3741	12.05560394	0.580507741	0.873021762	4408.069123	4408.069123	9.13789489	5.05	0.22	0.34	0.20	98.53
2020	SC	Construction and Mining	12	Cranes	9999	33458.84	0.23731092	0.006071524	0.015130066	33458.84	0.23731092	0.006071524	0.015130066	307.2305037	307.2305037	0.609192993	1.54	0.04	0.10	0.04	108.90
2020	SC	Construction and Mining	13	Crawler Tractors	50	131396.965	2.245982016	0.259882721	0.751609579	131705.0652	2.043361488	0.214073925	0.614362068	18022.01285	18022.01285	54.06904254	0.25	0.03	0.08	0.03	7.31
2020	SC	Construction and Mining	13	Crawler Tractors	120	5829980.546	113.1901109	9.621331278	11.2947742	5830546.687	104.2940251	8.686159383	10.2530165	422735.7839	422735.7839	930.5282221	0.54	0.05	0.05	0.04	13.79
2020	SC	Construction and Mining	13	Crawler Tractors	175	6347670.579	107.3191464	6.059213475	8.636036227	6339920.041	92.98429573	5.194660337	7.508876052	269994.8044	269994.8044	608.817419	0.79	0.04	0.06	0.04	23.48
2020	SC	Construction and Mining	13	Crawler Tractors	250	6397634.437	97.90022983	3.814414726	6.342277795	6402109.134	88.90749003	3.350264933	5.710911177	200180.47	200180.47	444.9882201	0.98	0.04	0.06	0.04	31.98
2020	SC	Construction and Mining	13	Crawler Tractors	500	17152753.01	220.354063	8.948514047	15.16467191	17163324.21	185.456882	7.213134306	12.75159112	317982.3753	317982.3753	715.3334328	1.39	0.06	0.10	0.05	53.98
2020	SC	Construction and Mining	13	Crawler Tractors	750	6692929.39	73.74614714	2.831591854	4.996276536	6687010.975	62.84216982	2.305653373	4.241020608	74335.10691	74335.10691	146.5271053	1.98	0.08	0.13	0.07	89.96
2020	SC	Construction and Mining	13	Crawler Tractors	1000	883341.354	17.74755226	0.510217136	0.927796199	885552.2871	19.10304251	0.559540678	1.010117317	6743.385692	6743.385692	12.97657021	5.26	0.15	0.28	0.14	131.32
2020	SC	Construction and Mining	13	Crawler Tractors	9999	467545.4562	8.59764153	0.225873752	0.402934218	467545.4562	8.59764153	0.225873752	0.402934218	2025.39527	2025.39527	3.244142552	8.49	0.22	0.40	0.21	230.84
2020	SC	Construction and Mining	14	Excavators	50	5269650.111	57.42915016	3.174036986	7.035877855	5271826.332	57.35536848	3.160872759	6.97506401	945679.1273	945679.1273	1324.277071	0.12	0.01	0.01	0.01	5.57
2020	SC	Construction and Mining	14	Excavators	120	6864183.736	69.85261216	4.418359619	5.821221467	6863004.843	64.23268563	3.842415042	5.140603235	603897.1314	603897.1314	957.837734	0.23	0.01	0.02	0.01	11.36
2020	SC	Construction and Mining	14	Excavators	175	14427783.8	112.871596	5.548905789	9.386843022	14428120.88	98.68673285	4.78027779	8.281686292	704540.9078	704540.9078	1216.947206	0.32	0.02	0.03	0.01	20.48
2020	SC	Construction and Mining	14	Excavators	250	18323062.58	118.1347267	3.861793974	8.782804296	18324532.26	111.6258413	3.378385011	8.070602488	598658.7678	598658.7678	1046.195148	0.39	0.01	0.03	0.01	30.61
2020	SC	Construction and Mining	14	Excavators	500	30421939.49	148.0767722	5.041337336	12.14418632	30424876.34	144.1913402	4.750599121	11.6275866	662995.8836	662995.8836	1064.083459	0.45	0.02	0.04	0.01	45.89
2020	SC	Construction and Mining	14	Excavators	750	2758042.531	15.80704111	0.565825701	1.250332059	2761369.732	15.00697715	0.511189379	1.171423613	34321.42184	34321.42184	54.20700249	0.92	0.03	0.07	0.03	80.46
2020	SC	Construction and Mining	14	Excavators	1000	307777.8958	3.283780803	0.063734109	0.12705802	307769.1724	3.274687526	0.061088391	0.122168187	2624.919939	2624.919939	4.336560199	2.50	0.05	0.10	0.04	117.25
2020	SC	Construction and Mining	14	Excavators	9999	602475.0581	5.677906208	0.106768303	0.232327256	602475.0581	5.677906208	0.106768303	0.232327256	2765.89845	2765.89845	3.794490174	4.11	0.08	0.17	0.07	217.82
2020	SC	Construction and Mining	15	Graders	50	34854.64757	0.634231482	0.08218569	0.238469506	34854.64757	0.584115279	0.071046839	0.208527052	5683.29612	5683.29612	16.88978746	0.22	0.03	0.08	0.03	6.13
2020	SC	Construction and Mining	15	Graders	120	939165.3318	24.79040249	2.042421107	2.610944474	937488.1597	21.87848703	1.761559179	2.284523659	69083.67737	69083.67737	179.7945117	0.72	0.06	0.08	0.05	13.57
2020	SC	Construction and Mining	15	Graders	175	8668886.512	176.7071195	9.945173548	14.69664579	8661708.361	142.0789186	7.925930328	12.03211845	385438.1526	385438.1526	841.2203821	0.92	0.05	0.08	0.05	22.47
2020	SC	Construction and Mining	15	Graders	250	15145967.77	235.0235095	7.839033094	14.71686359	15112642.54	210.8860937	6.741883363	13.11031533	489676.5138	489676.5138	667.9638526	0.96	0.03	0.06	0.03	30.86
2020	SC	Construction and Mining	15	Graders	500	4320258.466	41.85798256	1.641624254	3.565612361	4320441.564	40.32918587	1.565244604	3.453792942	98266.73107	98266.73107	124.7664945	0.85	0.03	0.07	0.03	43.97

**Table C.18 CARB Offroad 2011 output**  
Used to calculate NOx, PM, HC, and fuel consumption

CalendarYear	AirBasin	Equipment Class	Equipment TypeID	Equipment Type	HorsepowerBin	lb/yr	ton/yr	ton/yr	ton/yr	lb/yr	ton/yr	ton/yr	ton/yr	hr/yr	hr/yr	Emissions per Equipment (lb/hr)					lb/hr
						BaseBSFC	BaseNOx	BasePM	BaseHC	ScenBSFC	ScenNOx	ScenPM	ScenHC	BaseActivity	ScenActivity	Population	NOx	PM	HC	PM2.5	BSFC per equipment
2020	SC	Construction and Mining	15	Graders	1000	41842.13005	1.16781761	0.040642579	0.073692323	41842.13005	1.16781761	0.040642579	0.073692323	350.4531882	350.4531882	0.544831854	6.66	0.23	0.42	0.21	119.39
2020	SC	Construction and Mining	15	Graders	9999	589433.6655	11.88915252	0.368798209	0.706014586	589433.6655	11.88915252	0.368798209	0.706014586	1975.564824	1975.564824	2.724159268	12.04	0.37	0.71	0.34	298.36
2020	SC	Construction and Mining	16	Off-Highway Tractors	50	2184399.311	30.02434069	2.599653642	6.47349275	2186046.665	27.58960963	2.055028916	4.945042102	326451.1561	326451.1561	507.2539078	0.18	0.02	0.04	0.01	6.70
2020	SC	Construction and Mining	16	Off-Highway Tractors	120	2779029.496	39.08427329	3.01984043	3.58297517	2776907.483	34.73628942	2.549380634	3.073985165	232091.9808	232091.9808	368.8147486	0.34	0.03	0.03	0.02	11.96
2020	SC	Construction and Mining	16	Off-Highway Tractors	175	2374997.506	21.43349203	1.051037946	1.663557105	2374595.302	20.57695612	0.998299359	1.594453457	93815.76379	93815.76379	140.0427016	0.46	0.02	0.04	0.02	25.31
2020	SC	Construction and Mining	16	Off-Highway Tractors	250	1989931.855	19.80796673	0.745394437	1.421191411	1993137.243	15.45454644	0.516972768	1.097840499	58453.91846	58453.91846	91.40191595	0.68	0.03	0.05	0.02	34.10
2020	SC	Construction and Mining	16	Off-Highway Tractors	500	5594834.406	33.83472508	1.252301533	2.716646735	5595799.817	27.8083681	0.936259194	2.286663021	105241.1286	105241.1286	157.1471537	0.64	0.02	0.05	0.02	53.17
2020	SC	Construction and Mining	16	Off-Highway Tractors	750	1411496.058	8.315324465	0.317893548	0.698774427	1411261.351	8.679705744	0.323153019	0.705883485	15403.29866	15403.29866	22.98410752	1.08	0.04	0.09	0.04	91.62
2020	SC	Construction and Mining	16	Off-Highway Tractors	1000	40041.60858	1.475961302	0.07509335	0.103184082	40041.60858	0.28816053	0.007577649	0.014904604	250.528589	250.528589	0.534514128	11.78	0.60	0.82	0.55	159.83
2020	SC	Construction and Mining	16	Off-Highway Tractors	9999	323548.1661	4.493306206	0.126808223	0.277706088	329278.6603	3.684969062	0.096989067	0.203011725	1163.240315	1163.240315	2.138056513	7.73	0.22	0.48	0.20	283.07
2020	SC	Construction and Mining	17	Off-Highway Trucks	50	208633.8761	2.788052669	0.211710221	0.455301001	210194.2853	2.702617378	0.192580777	0.410620526	47425.90466	47425.90466	30.18866445	0.12	0.01	0.02	0.01	4.43
2020	SC	Construction and Mining	17	Off-Highway Trucks	120	255839.43	4.050792832	0.33117569	0.424568479	255774.5153	3.091153149	0.218003175	0.309945181	21286.067	21286.067	16.94802215	0.38	0.03	0.04	0.03	12.02
2020	SC	Construction and Mining	17	Off-Highway Trucks	175	4955800.23	43.55794139	2.305058691	4.163617282	4955456.528	39.27361379	2.047019319	3.82774966	223449.5188	223449.5188	162.0654618	0.39	0.02	0.04	0.02	22.18
2020	SC	Construction and Mining	17	Off-Highway Trucks	250	10185519.29	108.6185194	4.593270018	9.13493386	10188406.98	77.03413656	3.001396438	6.977078741	345872.6517	345872.6517	277.5238627	0.63	0.03	0.05	0.02	29.46
2020	SC	Construction and Mining	17	Off-Highway Trucks	500	43066323.5	367.7034415	13.96671282	30.37685617	43069891.1	301.9721174	11.00192336	26.17346775	820751.7961	820751.7961	616.4843057	0.90	0.03	0.07	0.03	52.48
2020	SC	Construction and Mining	17	Off-Highway Trucks	750	15371643.61	163.2728208	6.660454716	13.39213667	15369058.2	140.9634188	5.513648351	11.89694265	166933.3929	166933.3929	140.8804341	1.96	0.08	0.16	0.07	92.07
2020	SC	Construction and Mining	17	Off-Highway Trucks	1000	10659642.84	160.2451136	4.22863644	8.529286892	10662311.27	154.2242078	4.028466691	8.056666216	85178.26088	85178.26088	64.61433444	3.76	0.10	0.20	0.09	125.18
2020	SC	Construction and Mining	17	Off-Highway Trucks	9999	15486586.76	197.9883112	5.09011151	11.30699102	15486959.05	183.2884778	4.502320263	10.25842918	61876.1421	61876.1421	41.84042968	6.40	0.16	0.37	0.15	250.29
2020	SC	Construction and Mining	18	Other Construction Equipment	50	1180303.251	16.2668863	1.341979116	2.964527987	1179062.394	15.94666513	1.283043108	2.80581909	181940.8704	181940.8704	391.722438	0.18	0.01	0.03	0.01	6.48
2020	SC	Construction and Mining	18	Other Construction Equipment	120	3702373.888	58.48642986	4.431087262	5.374780308	3702982.609	53.04795166	3.932753451	4.769912226	297701.917	297701.917	691.1818523	0.39	0.03	0.04	0.03	12.44
2020	SC	Construction and Mining	18	Other Construction Equipment	175	2012615.067	28.97187495	1.568248252	2.260284346	2012619.373	24.96694618	1.317382362	1.945640666	86955.40263	86955.40263	215.1046497	0.67	0.04	0.05	0.03	23.15
2020	SC	Construction and Mining	18	Other Construction Equipment	250	2580854.952	31.2965437	1.193532459	2.04106657	2580587.934	27.74647223	1.020604278	1.804637681	77547.9572	77547.9572	192.961524	0.81	0.03	0.05	0.03	33.28
2020	SC	Construction and Mining	18	Other Construction Equipment	500	8805828.582	78.05045768	2.932693792	5.443264769	8806634.692	69.2784793	2.521520486	4.867857069	160791.4112	160791.4112	374.8514851	0.97	0.04	0.07	0.03	54.77
2020	SC	Construction and Mining	18	Other Construction Equipment	750	3433589.063	33.73790348	1.140133132	2.108614906	3442618.317	27.05961114	0.894880365	1.747906175	37646.82706	37646.82706	77.50093996	1.79	0.06	0.11	0.06	91.45
2020	SC	Construction and Mining	18	Other Construction Equipment	1000	400043.2419	4.063598578	0.08988934	0.160002498	398986.0533	4.320015086	0.099327762	0.174212475	3172.032687	3172.032687	6.853824622	2.56	0.06	0.10	0.05	125.78
2020	SC	Construction and Mining	18	Other Construction Equipment	9999	249127.2788	3.802508627	0.104226226	0.188497823	248576.3871	3.041824167	0.073130134	0.141658356	1486.331551	1486.331551	3.163303672	5.12	0.14	0.25	0.13	167.24
2020	SC	Construction and Mining	19	Pavers	50	144427.9773	1.992440125	0.1834778	0.49969081	144397.423	1.853545912	0.156467464	0.423851025	21998.42877	21998.42877	63.49176443	0.18	0.02	0.05	0.02	6.56
2020	SC	Construction and Mining	19	Pavers	120	1399361.071	20.4274533	1.53803049	1.830652646	1399973.065	18.70202186	1.37237733	1.63972779	115923.0058	115923.0058	308.4641555	0.35	0.03	0.03	0.02	12.08
2020	SC	Construction and Mining	19	Pavers	175	1902205.161	19.25494824	0.956345292	1.485025391	1902946.083	16.65471967	0.809612265	1.286497464	78814.34653	78814.34653	208.4646266	0.49	0.02	0.04	0.02	24.14

**Table C.18 CARB Offroad 2011 output**  
Used to calculate NOx, PM, HC, and fuel consumption

CalendarYear	AirBasin	Equipment Class	EquipmentTypeID	Equipment Type	HorsepowerBin	lb/yr	ton/yr	ton/yr	ton/yr	lb/yr	ton/yr	ton/yr	ton/yr	hr/yr	hr/yr	Emissions per Equipment (lb/hr)					lb/hr
						BaseBSFC	BaseNOx	BasePM	BaseHC	ScenBSFC	ScenNOx	ScenPM	ScenHC	BaseActivity	ScenActivity	Population	NOx	PM	HC	PM2.5	BSFC per equipment
2020	SC	Construction and Mining	19	Pavers	250	1279917.262	10.1251854	0.278808681	0.538324518	1280651.858	10.66417551	0.291822115	0.557458516	39334.27325	39334.27325	89.94666628	0.51	0.01	0.03	0.01	32.56
2020	SC	Construction and Mining	19	Pavers	500	482601.3427	3.132015871	0.113237853	0.199720127	482601.3427	3.132015871	0.113237853	0.199720127	9790.773615	9790.773615	22.22211755	0.64	0.02	0.04	0.02	49.29
2020	SC	Construction and Mining	19	Pavers	750	55920.74255	0.199495364	0.008757811	0.016059485	55920.74255	0.199495364	0.008757811	0.016059485	489.0791061	489.0791061	1.058196074	0.82	0.04	0.07	0.03	114.34
2020	SC	Construction and Mining	20	Paving Equipment	50	179796.7902	1.961136861	0.112176948	0.270997357	179831.5112	1.937295763	0.106331574	0.251750912	35969.65804	35969.65804	78.18058039	0.11	0.01	0.02	0.01	5.00
2020	SC	Construction and Mining	20	Paving Equipment	120	817900.4203	10.03194403	0.699048544	0.888722615	817310.0843	9.255995598	0.626145641	0.804028337	70594.75386	70594.75386	159.5306438	0.28	0.02	0.03	0.02	11.58
2020	SC	Construction and Mining	20	Paving Equipment	175	770248.5108	6.503576297	0.327938417	0.51709609	770374.5934	5.928470664	0.296525672	0.47468419	39943.70961	39943.70961	87.16078219	0.33	0.02	0.03	0.02	19.29
2020	SC	Construction and Mining	20	Paving Equipment	250	403870.6091	4.16472629	0.15161076	0.265671886	403881.5098	3.905581661	0.134253375	0.244070531	14366.96659	14366.96659	31.69482989	0.58	0.02	0.04	0.02	28.11
2020	SC	Construction and Mining	20	Paving Equipment	500	569452.9775	4.778223012	0.171607394	0.311886615	569283.6308	4.692633019	0.167861774	0.306425717	12987.91264	12987.91264	28.5253469	0.74	0.03	0.05	0.02	43.83
2020	SC	Construction and Mining	20	Paving Equipment	750	270175.001	2.226306406	0.05162498	0.127086981	270175.001	2.218938526	0.051412433	0.125980462	3425.246049	3425.246049	6.867213142	1.30	0.03	0.07	0.03	78.88
2020	SC	Construction and Mining	20	Paving Equipment	1000	52830.01375	0.367444539	0.005918045	0.011744906	52830.01375	0.367444539	0.005918045	0.011744906	480.8685299	480.8685299	1.05649433	1.53	0.02	0.05	0.02	109.86
2020	SC	Construction and Mining	21	Rollers	50	2968038.051	37.40309076	2.838221877	6.683114148	2967680.089	36.2800397	2.631309533	6.123751731	542232.4931	542232.4931	1604.066377	0.14	0.01	0.02	0.01	5.47
2020	SC	Construction and Mining	21	Rollers	120	4636085.899	60.35039284	4.047870447	5.158548224	4636770.685	53.85166092	3.433195584	4.451224341	386189.5508	386189.5508	1196.252891	0.31	0.02	0.03	0.02	12.01
2020	SC	Construction and Mining	21	Rollers	175	4794060.364	38.5221038	1.785953959	2.796926196	4794464.686	35.31688597	1.622296933	2.562119237	242237.5379	242237.5379	691.6516718	0.32	0.01	0.02	0.01	19.79
2020	SC	Construction and Mining	21	Rollers	250	757202.2483	6.817370584	0.22617291	0.428535232	757211.8751	6.23926004	0.202249983	0.390822865	25715.4274	25715.4274	84.82520503	0.53	0.02	0.03	0.02	29.45
2020	SC	Construction and Mining	21	Rollers	500	479140.781	4.118456712	0.159858865	0.278899056	479140.781	4.008465141	0.15507667	0.275283114	10233.24133	10233.24133	34.80008411	0.80	0.03	0.05	0.03	46.82
2020	SC	Construction and Mining	21	Rollers	750	23297.24236	0.080626544	0.003375117	0.006320665	23297.24236	0.049174904	0.000654326	0.004843744	324.5665318	324.5665318	1.087502629	0.50	0.02	0.04	0.02	71.78
2020	SC	Construction and Mining	22	Rough Terrain	50	151194.2775	1.805160684	0.123636133	0.321813201	151194.8049	1.833091278	0.129050989	0.336639263	19464.55844	19464.55844	72.85595874	0.19	0.01	0.03	0.01	7.77
2020	SC	Construction and Mining	22	Rough Terrain	120	12170649.29	92.9025547	4.058324173	6.089496673	12170364.26	89.46215831	3.741529252	5.705196665	854687.4982	854687.4982	3121.500991	0.22	0.01	0.01	0.01	14.24
2020	SC	Construction and Mining	22	Rough Terrain	175	2236950.779	13.18633097	0.498663512	0.852387895	2236943.916	12.565683	0.459838824	0.794192807	117084.7897	117084.7897	417.6656255	0.23	0.01	0.01	0.01	19.11
2020	SC	Construction and Mining	22	Rough Terrain	250	183837.8139	2.990207909	0.146020994	0.224238461	183725.7984	0.886970254	0.020178896	0.050808384	5971.747398	5971.747398	24.49467578	1.00	0.05	0.08	0.04	30.77
2020	SC	Construction and Mining	22	Rough Terrain	500	77585.23313	0.48999579	0.020408101	0.038082261	77645.63178	0.307738355	0.006639096	0.017314137	1426.599755	1426.599755	5.652617488	0.69	0.03	0.05	0.03	54.43
2020	SC	Construction and Mining	22	Rough Terrain	750	12194.7641	0.561309414	0.030538428	0.045542137	12194.7641	0.048791659	0.000342269	0.003091439	132.2517017	132.2517017	0.62806861	8.49	0.46	0.69	0.42	92.21
2020	SC	Construction and Mining	23	Rubber Tired Dozers	50	130164.5869	2.389739849	0.316811925	0.879922456	131678.5459	1.605549716	0.132777455	0.36288533	19686.86539	19686.86539	21.2296198	0.24	0.03	0.09	0.03	6.69
2020	SC	Construction and Mining	23	Rubber Tired Dozers	120	622274.2599	16.78964344	1.491480782	1.794579406	624020.4247	13.67270969	1.167031975	1.437654464	52023.2407	52023.2407	63.17106379	0.65	0.06	0.07	0.05	12.00
2020	SC	Construction and Mining	23	Rubber Tired Dozers	175	519934.9197	13.60879109	0.786163486	1.122256549	519453.4887	11.18786648	0.639411307	0.934695452	23872.78103	23872.78103	32.6211231	1.14	0.07	0.09	0.06	21.76
2020	SC	Construction and Mining	23	Rubber Tired Dozers	250	542793.4054	12.50035645	0.625807548	0.973657561	542163.5985	10.52910462	0.515644976	0.828910125	17611.04213	17611.04213	25.37198464	1.42	0.07	0.11	0.07	30.79
2020	SC	Construction and Mining	23	Rubber Tired Dozers	500	6216124.888	124.353443	5.805035253	9.518464758	6217768.457	103.6552255	4.761278428	8.123855264	119109.2826	119109.2826	169.3191628	2.09	0.10	0.16	0.09	52.20
2020	SC	Construction and Mining	23	Rubber Tired Dozers	750	730541.894	14.72759028	0.543157265	0.92033904	730541.894	13.40587171	0.477645125	0.826030483	8602.891622	8602.891622	10.3559121	3.42	0.13	0.21	0.12	84.92
2020	SC	Construction and Mining	24	Rubber Tired Loaders	50	412494.4465	6.184239706	0.592332442	1.538830201	412461.9697	5.855586186	0.528461009	1.363728729	67025.38446	67025.38446	79.87558629	0.18	0.02	0.05	0.02	6.15
2020	SC	Construction and Mining	24	Rubber Tired Loaders	120	10027414.85	161.8807829	13.13861605	16.15120048	10024193.56	143.0347359	11.20097338	14.01235605	888349.4891	888349.4891	993.0478296	0.36	0.03	0.04	0.03	11.28
2020	SC	Construction and Mining	24	Rubber Tired Loaders	175	23813104.46	304.3808086	17.03244929	26.47716887	23820677.83	252.1053826	13.87530333	22.43304024	1198149.645	1198149.645	1301.216477	0.51	0.03	0.04	0.03	19.88
2020	SC	Construction and Mining	24	Rubber Tired Loaders	250	32796167.61	366.2999739	12.57700899	25.70756544	32804960.35	338.9190433	11.25099633	23.76189754	1206374.706	1206374.706	1156.576902	0.61	0.02	0.04	0.02	27.19
2020	SC	Construction and Mining	24	Rubber Tired Loaders	500	42705315.11	473.3143812	18.29132034	36.45477472	42685261.29	391.1287262	14.54412431	30.96973868	1016931.884	1016931.884	1074.542516	0.93	0.04	0.07	0.03	41.97

**Table C.18 CARB Offroad 2011 output**  
Used to calculate NOx, PM, HC, and fuel consumption

CalendarYear	AirBasin	Equipment Class	EquipmentTypeID	Equipment Type	HorsepowerBin	lb/yr	ton/yr	ton/yr	ton/yr	lb/yr	ton/yr	ton/yr	ton/yr	hr/yr	hr/yr	Emissions per Equipment (lb/hr)					lb/hr
						BaseBSFC	BaseNOx	BasePM	BaseHC	ScenBSFC	ScenNOx	ScenPM	ScenHC	BaseActivity	ScenActivity	Population	NOx	PM	HC	PM2.5	BSFC per equipment
2020	SC	Construction and Mining	24	Rubber Tired Loaders	750	7610482.739	77.11414826	3.011921345	6.132661756	7646076.095	64.90661742	2.52040798	5.366466326	97943.63723	97943.63723	94.9871837	1.57	0.06	0.13	0.06	78.07
2020	SC	Construction and Mining	24	Rubber Tired Loaders	1000	2200911.816	39.48631569	1.107483072	2.014769617	2198033.228	34.8370565	0.918617015	1.707098779	19871.27172	19871.27172	17.27039704	3.97	0.11	0.20	0.10	110.61
2020	SC	Construction and Mining	24	Rubber Tired Loaders	9999	875609.3605	12.23085254	0.291501899	0.574896687	875609.3605	10.87823982	0.237203049	0.475790033	4364.829256	4364.829256	3.777899352	5.60	0.13	0.26	0.12	200.61
2020	SC	Construction and Mining	25	Scrapers	50	9445.460924	0.175504682	0.024232049	0.072100552	9445.460924	0.175504682	0.024232049	0.072100552	1333.460486	1333.460486	3.733870177	0.26	0.04	0.11	0.03	7.08
2020	SC	Construction and Mining	25	Scrapers	120	430941.1795	8.663105359	0.668584357	0.757883229	430941.1795	8.433226014	0.644357334	0.731660663	28167.93983	28167.93983	53.87441256	0.62	0.05	0.05	0.04	15.30
2020	SC	Construction and Mining	25	Scrapers	175	4549395.386	80.11254192	4.374687845	6.448620878	4549203.487	65.61176087	3.530497312	5.320080369	152522.9863	152522.9863	346.1831065	1.05	0.06	0.08	0.05	29.83
2020	SC	Construction and Mining	25	Scrapers	250	5230347.988	109.6979113	5.012226401	7.936324045	5232571.894	80.50376642	3.531150851	5.833674193	132233.5264	132233.5264	336.048316	1.66	0.08	0.12	0.07	39.57
2020	SC	Construction and Mining	25	Scrapers	500	45805595.67	656.951868	26.96442665	45.77839071	45762386.61	519.7795068	20.27290229	36.29351844	677643.9582	677643.9582	1477.01236	1.94	0.08	0.14	0.07	67.53
2020	SC	Construction and Mining	25	Scrapers	750	20917826.66	239.2463183	9.412512565	16.73004327	20927800.28	196.6051604	7.120411044	13.62687254	209360.4286	209360.4286	420.86051	2.29	0.09	0.16	0.08	99.96
2020	SC	Construction and Mining	25	Scrapers	1000	327873.5573	13.1883369	0.614888482	0.95523266	327873.5573	13.1883369	0.614888482	0.95523266	1949.437984	1949.437984	6.93433033	13.53	0.63	0.98	0.58	168.19
2020	SC	Construction and Mining	25	Scrapers	9999	1191744.535	23.38440528	0.843219083	1.352332366	1191744.535	27.14518214	1.07050272	1.678291853	3425.053887	3425.053887	6.93433033	13.65	0.49	0.79	0.45	347.95
2020	SC	Construction and Mining	26	Skid Steer Loaders	50	2244123.422	21.99940497	0.817309737	2.11681229	2246011.894	22.27239669	0.87313746	2.190567327	341732.5109	341732.5109	1111.266513	0.13	0.00	0.01	0.00	6.57
2020	SC	Construction and Mining	26	Skid Steer Loaders	120	11917952.63	88.22202523	3.743605247	5.499215387	11911565.78	89.63556023	3.88018511	5.571625044	1249088.931	1249088.931	3586.13472	0.14	0.01	0.01	0.01	9.54
2020	SC	Construction and Mining	26	Skid Steer Loaders	175	80548.03988	0.45150541	0.017618254	0.032263196	80510.83296	0.414162549	0.01741991	0.030946498	3925.735778	3925.735778	14.87565485	0.23	0.01	0.02	0.01	20.51
2020	SC	Construction and Mining	26	Skid Steer Loaders	250	61499.31632	0.258708541	0.007947963	0.016710151	61456.34107	0.246990408	0.007443672	0.015483576	2320.942065	2320.942065	8.264252696	0.22	0.01	0.01	0.01	26.48
2020	SC	Construction and Mining	26	Skid Steer Loaders	500	17011.91194	0.031926728	0.000470361	0.003242249	17011.91194	0.031278772	0.000467425	0.003148838	466.895051	466.895051	1.652850539	0.14	0.00	0.01	0.00	36.44
2020	SC	Construction and Mining	26	Skid Steer Loaders	750	17945.32507	0.131468179	0.005668108	0.0076304	17945.32507	0.131468179	0.005668108	0.0076304	250.3640128	250.3640128	0.55095018	1.05	0.05	0.06	0.04	71.68
2020	SC	Construction and Mining	26	Skid Steer Loaders	1000	29283.54934	0.368694992	0.009653957	0.017795727	29283.54934	0.387142052	0.012703409	0.021047914	216.5310382	216.5310382	1.101900359	3.41	0.09	0.16	0.08	135.24
2020	SC	Construction and Mining	27	Surfacing Equipment	50	20786.10849	0.2439721	0.0139922	0.03021922	20786.10849	0.233287445	0.01191004	0.024359892	4642.66892	4642.66892	19.49320243	0.11	0.01	0.01	0.01	4.48
2020	SC	Construction and Mining	27	Surfacing Equipment	120	163020.4348	1.833748118	0.108397235	0.140560664	163134.7909	1.763322219	0.100689084	0.133005876	16563.32155	16563.32155	62.47821291	0.22	0.01	0.02	0.01	9.85
2020	SC	Construction and Mining	27	Surfacing Equipment	175	83793.31823	1.089470878	0.05245775	0.075924841	83773.85327	0.92963932	0.044178086	0.06432882	5045.143288	5045.143288	20.99267954	0.43	0.02	0.03	0.02	16.60
2020	SC	Construction and Mining	27	Surfacing Equipment	250	178463.937	1.857030748	0.057013036	0.100590071	178459.6443	1.71142723	0.051623316	0.092989304	7396.084427	7396.084427	31.4890193	0.50	0.02	0.03	0.01	24.13
2020	SC	Construction and Mining	27	Surfacing Equipment	500	567212.1053	3.186255682	0.116517573	0.208786314	567183.3377	3.13319948	0.114001442	0.205089551	14158.68011	14158.68011	51.98187314	0.45	0.02	0.03	0.02	40.06
2020	SC	Construction and Mining	27	Surfacing Equipment	750	520254.2091	3.288651499	0.116808514	0.184199357	520254.2091	3.288651499	0.116808514	0.184199357	7683.755924	7683.755924	25.99093657	0.86	0.03	0.05	0.03	67.71
2020	SC	Construction and Mining	27	Surfacing Equipment	1000	84720.71073	1.294170859	0.031038461	0.055383148	84720.71073	1.294170859	0.031038461	0.055383148	941.6306522	941.6306522	3.498779923	2.75	0.07	0.12	0.06	89.97
2020	SC	Construction and Mining	27	Surfacing Equipment	9999	29844.25944	0.355290452	0.008341567	0.014226639	29844.25944	0.355290452	0.008341567	0.014226639	240.1652763	240.1652763	0.999651406	2.96	0.07	0.12	0.06	124.27
2020	SC	Construction and Mining	28	Tractors/Loaders/Backhoes	50	4437741.83	55.0797713	3.793812546	9.137661607	4443808.675	53.7132237	3.515643835	8.373538126	784950.6044	784950.6044	1555.133426	0.14	0.01	0.02	0.01	5.66
2020	SC	Construction and Mining	28	Tractors/Loaders/Backhoes	120	71356231.72	767.1548941	51.06140477	65.08963444	71320151.46	707.7706845	44.75612684	58.21205478	6338996.96	6338996.96	10559.1934	0.24	0.02	0.02	0.01	11.25
2020	SC	Construction and Mining	28	Tractors/Loaders/Backhoes	175	12343623.56	105.3596486	5.380988335	8.72815601	12342695.15	90.38667243	4.554023401	7.594864448	640236.0685	640236.0685	1181.251173	0.33	0.02	0.03	0.02	19.28
2020	SC	Construction and Mining	28	Tractors/Loaders/Backhoes	250	7183849.535	65.80678128	2.278880938	4.507429217	7179630.809	59.23762597	1.942936342	4.027204218	260817.9736	260817.9736	472.5004694	0.50	0.02	0.03	0.02	27.53
2020	SC	Construction and Mining	28	Tractors/Loaders/Backhoes	500	9594065.626	69.89447126	2.528358834	5.321452037	9580394.651	60.33286719	2.118684198	4.643755845	223079.4157	223079.4157	426.4425108	0.63	0.02	0.05	0.02	42.95
2020	SC	Construction and Mining	28	Tractors/Loaders/Backhoes	750	1361219.128	12.54371589	0.45862047	0.883859515	1372349.571	12.95054491	0.487249605	0.918901704	17787.54243	17787.54243	29.8022085	1.41	0.05	0.10	0.05	77.15
2020	SC	Construction and Mining	28	Tractors/Loaders/Backhoes	1000	230806.799	2.015507479	0.034068735	0.072204154	230806.799	2.012080252	0.033966063	0.071189	1939.864156	1939.864156	2.709291682	2.08	0.04	0.07	0.03	118.98



**Table C.18 CARB Offroad 2011 output**  
Used to calculate NOx, PM, HC, and fuel consumption

CalendarYear	AirBasin	Equipment Class	Equipment TypeID	Equipment Type	HorsepowerBin	lb/yr	ton/yr	ton/yr	ton/yr	lb/yr	ton/yr	ton/yr	ton/yr	hr/yr	hr/yr	Emissions per Equipment (lb/hr)					lb/hr
						BaseBSFC	BaseNOx	BasePM	BaseHC	ScenBSFC	ScenNOx	ScenPM	ScenHC	BaseActivity	ScenActivity	Population	NOx	PM	HC	PM2.5	BSFC per equipment
2020	SC	Construction and Mining	28	Tractors/Loaders/Backhoes	9999	3239844.972	34.6643787	0.74377372	1.559343305	3239844.972	33.44890168	0.685764181	1.442237002	11926.74178	11926.74178	20.04875845	5.81	0.12	0.26	0.11	271.65
2020	SC	Construction and Mining	29	Trenchers	50	1572223.534	19.99086664	1.546307539	3.279042186	1571478.606	19.7683694	1.505171146	3.161310932	191855.2302	191855.2302	509.9817379	0.21	0.02	0.03	0.01	8.19
2020	SC	Construction and Mining	29	Trenchers	120	1139733.061	19.26129646	1.448811778	1.766669244	1138749.441	18.75646558	1.404281745	1.713801284	74764.7109	74764.7109	236.4460785	0.52	0.04	0.05	0.04	15.23
2020	SC	Construction and Mining	29	Trenchers	175	232551.9076	3.507992713	0.181298152	0.270990925	232525.5183	3.143962212	0.160752015	0.245089408	8844.833185	8844.833185	31.29433392	0.79	0.04	0.06	0.04	26.29
2020	SC	Construction and Mining	29	Trenchers	250	455967.378	6.812795384	0.279230319	0.4612691	456241.011	6.568726604	0.266175586	0.44249255	11289.66435	11289.66435	37.08958094	1.21	0.05	0.08	0.05	40.41
2020	SC	Construction and Mining	29	Trenchers	500	767867.8379	6.925518208	0.266253753	0.479674486	767867.8379	6.419393709	0.243454234	0.444509399	11648.78546	11648.78546	33.61243273	1.19	0.05	0.08	0.04	65.92
2020	SC	Construction and Mining	29	Trenchers	750	345594.6074	0.580609763	0.009369229	0.060081277	345594.6074	0.580609763	0.009369229	0.060081277	3022.360157	3022.360157	6.954296426	0.38	0.01	0.04	0.01	114.35
2020	SC	Construction and Mining	29	Trenchers	1000	20504.32032	0.818850473	0.037810354	0.058980122	20504.32032	0.818850473	0.037810354	0.058980122	129.2840047	129.2840047	0.579524702	12.67	0.58	0.91	0.54	158.60
2020	SC	Construction and Mining	36	Sweepers/Scrubbers	50	1368316.178	19.14403861	1.759199873	4.223491596	1368316.178	18.81668988	1.709690784	4.101351706	206643.0292	206643.0292	299.3429077	0.19	0.02	0.04	0.02	6.62
2020	SC	Construction and Mining	36	Sweepers/Scrubbers	120	2114778.031	30.61358074	2.510956096	2.987693076	2114778.031	28.34600706	2.277179486	2.717513132	162433.256	162433.256	243.7128098	0.38	0.03	0.04	0.03	13.02
2020	SC	Construction and Mining	36	Sweepers/Scrubbers	175	527510.1154	10.22821307	0.530163692	0.818840193	527510.1154	7.284659361	0.374775419	0.603010727	19738.60065	19738.60065	28.07995417	1.04	0.05	0.08	0.05	26.72
2020	SC	Construction and Mining	36	Sweepers/Scrubbers	250	281141.63	2.535430663	0.087638346	0.177331553	281141.63	2.107524445	0.067014268	0.145141359	8259.481978	8259.481978	11.65583003	0.61	0.02	0.04	0.02	34.04
2020	SC	Construction and Mining	36	Sweepers/Scrubbers	500	78434.83771	1.281586202	0.055744649	0.084906192	78434.83771	1.281586202	0.055744649	0.084906192	1550.721627	1550.721627	2.119241824	1.65	0.07	0.11	0.07	50.58
2020	SC	Construction and Mining	36	Sweepers/Scrubbers	1000	54969.20858	0.698457136	0.019819011	0.033332851	54969.20858	0.698457136	0.019819011	0.033332851	387.6804066	387.6804066	0.529810456	3.60	0.10	0.17	0.09	141.79
2021	SC	Construction and Mining	11	Bore/Drill Rigs	50	133823.9277	1.652100285	0.104987041	0.213477764	133826.5756	1.642474181	0.103117313	0.208130036	16291.83841	16291.83841	46.32283827	0.20	0.01	0.03	0.01	8.21
2021	SC	Construction and Mining	11	Bore/Drill Rigs	120	837110.5338	7.181191111	0.352154424	0.481301868	836869.6081	6.98386735	0.334211793	0.457499419	55958.11108	55958.11108	141.8941678	0.26	0.01	0.02	0.01	14.96
2021	SC	Construction and Mining	11	Bore/Drill Rigs	175	964674.785	5.378337121	0.245767226	0.427204349	963798.7008	4.578389248	0.199698827	0.364937177	34816.49328	34816.49328	111.1748118	0.31	0.01	0.02	0.01	27.68
2021	SC	Construction and Mining	11	Bore/Drill Rigs	250	1365564.145	7.037909485	0.227853641	0.501240813	1364233.4	6.410612448	0.194333543	0.452483875	35916.39606	35916.39606	110.687203	0.39	0.01	0.03	0.01	37.98
2021	SC	Construction and Mining	11	Bore/Drill Rigs	500	1549557.367	6.458059453	0.209844316	0.492467756	1546988.169	5.698943	0.190725915	0.451523006	24137.76767	24137.76767	77.529803	0.54	0.02	0.04	0.02	64.09
2021	SC	Construction and Mining	11	Bore/Drill Rigs	750	2069071.973	6.688650087	0.226863934	0.533258467	2070086.528	5.913553156	0.206577948	0.49930196	18264.3154	18264.3154	38.52109709	0.73	0.02	0.06	0.02	113.34
2021	SC	Construction and Mining	11	Bore/Drill Rigs	1000	164797.7215	1.514218777	0.030414818	0.055603362	164797.7215	1.514218777	0.030414818	0.055603362	972.8664898	972.8664898	1.462826472	3.11	0.06	0.11	0.06	169.39
2021	SC	Construction and Mining	11	Bore/Drill Rigs	9999	558606.6863	7.239330147	0.182614512	0.273234946	558606.6863	7.239330147	0.182614512	0.273234946	1135.887361	1135.887361	1.462826472	12.75	0.32	0.48	0.30	491.78
2021	SC	Construction and Mining	12	Cranes	50	44018.97883	0.735095888	0.078367724	0.217548839	44018.97883	0.724719314	0.076053608	0.210597689	9339.975433	9339.975433	21.45693215	0.16	0.02	0.05	0.02	4.71
2021	SC	Construction and Mining	12	Cranes	120	1050570.607	24.82774343	1.830426621	2.443619218	1050726.276	18.16962224	1.262659196	1.706827301	112241.9868	112241.9868	258.7092962	0.44	0.03	0.04	0.03	9.36
2021	SC	Construction and Mining	12	Cranes	175	2771723.242	56.57981364	3.107822452	4.542280266	2771143.312	42.32961962	2.258764509	3.410598215	176295.2073	176295.2073	388.0639443	0.64	0.04	0.05	0.03	15.72
2021	SC	Construction and Mining	12	Cranes	250	4681278.133	90.85568462	4.20601755	6.623405218	4681246.502	57.60571843	2.338793414	4.053675955	203662.0218	203662.0218	435.8822503	0.89	0.04	0.07	0.04	22.99
2021	SC	Construction and Mining	12	Cranes	500	7177144.162	99.55302293	4.193250112	6.957856502	7178861.713	74.16577686	2.983995344	5.258780808	201836.6815	201836.6815	418.1036493	0.99	0.04	0.07	0.04	35.57
2021	SC	Construction and Mining	12	Cranes	750	1888170.559	18.48317749	0.727218034	1.239163321	1888104.407	15.51667014	0.607377753	1.071233681	31584.572	31584.572	61.30552043	1.17	0.05	0.08	0.04	59.78
2021	SC	Construction and Mining	12	Cranes	1000	442378.5631	11.39626346	0.495174816	0.759702239	442378.5631	12.33100847	0.594516424	0.896054556	4489.926861	4489.926861	9.195828065	5.08	0.22	0.34	0.20	98.53
2021	SC	Construction and Mining	12	Cranes	9999	34080.16986	0.243010174	0.006281065	0.016229003	34080.16986	0.243010174	0.006281065	0.016229003	312.9357668	312.9357668	0.613055204	1.55	0.04	0.10	0.04	108.90
2021	SC	Construction and Mining	13	Crawler Tractors	50	133953.557	2.267853038	0.262767686	0.763356826	134262.3689	2.071108829	0.217824742	0.629185426	18356.6812	18356.6812	54.41183389	0.25	0.03	0.08	0.03	7.31
2021	SC	Construction and Mining	13	Crawler Tractors	120	5942455.396	111.6886269	9.492834625	11.21764696	5940174.369	100.0105158	8.233158574	9.829777287	430585.9773	430585.9773	936.4276612	0.52	0.04	0.05	0.04	13.80
2021	SC	Construction and Mining	13	Crawler Tractors	175	6470687.119	102.7375304	5.815637141	8.364360185	6463219.399	85.42786705	4.753651758	6.997539379	275008.6015	275008.6015	612.6772495	0.75	0.04	0.06	0.04	23.50



**Table C.18 CARB Offroad 2011 output**  
Used to calculate NOx, PM, HC, and fuel consumption

CalendarYear	AirBasin	Equipment Class	Equipment TypeID	Equipment Type	HorsepowerBin	lb/yr	ton/yr	ton/yr	ton/yr	lb/yr	ton/yr	ton/yr	ton/yr	hr/yr	hr/yr	Emissions per Equipment (lb/hr)					lb/hr
						BaseBSFC	BaseNOx	BasePM	BaseHC	ScenBSFC	ScenNOx	ScenPM	ScenHC	BaseActivity	ScenActivity	Population	NOx	PM	HC	PM2.5	BSFC per equipment
2021	SC	Construction and Mining	13	Crawler Tractors	250	6514813.011	93.96858812	3.667326484	6.190828003	6520769.952	84.72674828	3.187666075	5.536251992	203897.8165	203897.8165	447.8093929	0.92	0.04	0.06	0.03	31.98
2021	SC	Construction and Mining	13	Crawler Tractors	500	17445750.45	206.8512791	8.491076038	14.66682867	17454476.88	170.8846985	6.727399432	12.20864576	323887.3004	323887.3004	719.8685623	1.28	0.05	0.09	0.05	53.89
2021	SC	Construction and Mining	13	Crawler Tractors	750	6817437.013	70.99503531	2.754511102	4.950142846	6808054.639	57.63549617	2.117591034	4.035780439	75715.50808	75715.50808	147.4560698	1.88	0.07	0.13	0.07	89.92
2021	SC	Construction and Mining	13	Crawler Tractors	1000	899726.0522	18.12603445	0.522307865	0.951533209	894733.8214	17.20565875	0.488340107	0.887382249	6868.610204	6868.610204	13.05884013	5.28	0.15	0.28	0.14	130.26
2021	SC	Construction and Mining	13	Crawler Tractors	9999	476227.7642	8.779845225	0.231586736	0.413293581	476227.7642	8.779845225	0.231586736	0.413293581	2063.006812	2063.006812	3.264710033	8.51	0.22	0.40	0.21	230.84
2021	SC	Construction and Mining	14	Excavators	50	5370455.159	56.8370589	2.925993998	6.783363861	5369825.614	56.78805737	2.922227554	6.735769235	963240.3662	963240.3662	1332.672831	0.12	0.01	0.01	0.01	5.57
2021	SC	Construction and Mining	14	Excavators	120	6986508.527	65.72970818	3.986132665	5.486867649	6986508.001	60.32792784	3.401736257	4.813287088	615111.4868	615111.4868	963.9103122	0.21	0.01	0.02	0.01	11.36
2021	SC	Construction and Mining	14	Excavators	175	14695383.35	101.7453821	5.000233626	8.845340051	14698212.02	89.71868296	4.351328426	7.891569311	717624.2157	717624.2157	1224.662508	0.28	0.01	0.02	0.01	20.48
2021	SC	Construction and Mining	14	Excavators	250	18659544.81	103.3138224	3.383251277	8.266915943	18661268.74	95.65917017	2.930808138	7.545237095	609775.8468	609775.8468	1052.827902	0.34	0.01	0.03	0.01	30.60
2021	SC	Construction and Mining	14	Excavators	500	30943795.4	131.8348129	4.532543914	11.69207252	30945059.43	124.4228046	4.164328125	11.0379768	675307.7014	675307.7014	1070.829622	0.39	0.01	0.03	0.01	45.82
2021	SC	Construction and Mining	14	Excavators	750	2813497.923	14.19694241	0.505817641	1.207144778	2816706.049	13.76646002	0.478345465	1.161709797	34958.76983	34958.76983	54.55066849	0.81	0.03	0.07	0.03	80.57
2021	SC	Construction and Mining	14	Excavators	1000	313503.009	3.364013322	0.06581922	0.133961363	313493.324	3.355153344	0.063092338	0.128937001	2673.66464	2673.66464	4.364053479	2.52	0.05	0.10	0.05	117.25
2021	SC	Construction and Mining	14	Excavators	9999	613663.0055	5.822456865	0.109883831	0.247122477	613663.0055	5.822456865	0.109883831	0.247122477	2817.261118	2817.261118	3.818546794	4.13	0.08	0.18	0.07	217.82
2021	SC	Construction and Mining	15	Graders	50	35507.2094	0.637113177	0.081627982	0.236635235	35507.2094	0.560154978	0.064473239	0.188673002	5788.834794	5788.834794	16.99686672	0.22	0.03	0.08	0.03	6.13
2021	SC	Construction and Mining	15	Graders	120	956448.7942	24.81699857	2.037309547	2.617862278	954354.0393	20.55457719	1.643775057	2.147795026	70366.55962	70366.55962	180.9343877	0.71	0.06	0.07	0.05	13.56
2021	SC	Construction and Mining	15	Graders	175	8825257.785	168.8330384	9.494700277	14.16895134	8831574.026	126.63636	7.064580485	10.92801535	392595.73	392595.73	846.55362	0.86	0.05	0.07	0.04	22.50
2021	SC	Construction and Mining	15	Graders	250	15400485.31	223.9883878	7.393381657	14.21894175	15368506.05	201.1859645	6.373713775	12.71240188	498769.795	498769.795	672.1986646	0.90	0.03	0.06	0.03	30.81
2021	SC	Construction and Mining	15	Graders	500	4399968.943	42.0457675	1.65025823	3.674926102	4399913.225	39.82563724	1.547307089	3.517892352	100091.5419	100091.5419	125.5574993	0.84	0.03	0.07	0.03	43.96
2021	SC	Construction and Mining	15	Graders	1000	42619.13741	1.189503956	0.041397311	0.075060788	42619.13741	1.189503956	0.041397311	0.075060788	356.9610956	356.9610956	0.548286023	6.66	0.23	0.42	0.21	119.39
2021	SC	Construction and Mining	15	Graders	9999	600379.4346	12.16180381	0.378524226	0.729595877	600379.4346	12.16180381	0.378524226	0.729595877	2012.251016	2012.251016	2.741430117	12.09	0.38	0.73	0.35	298.36
2021	SC	Construction and Mining	16	Off-Highway Tractors	50	2227303.247	29.69774509	2.449319776	6.150574939	2229114.531	27.07240251	1.85338259	4.499428041	332513.3463	332513.3463	510.4698377	0.18	0.01	0.04	0.01	6.70
2021	SC	Construction and Mining	16	Off-Highway Tractors	120	2830525.555	37.2683766	2.821904366	3.41672597	2830666.391	31.91264104	2.20758304	2.759979694	236401.9234	236401.9234	371.1529905	0.32	0.02	0.03	0.02	11.97
2021	SC	Construction and Mining	16	Off-Highway Tractors	175	2419033.82	20.4301627	1.003336882	1.645556735	2418725.391	19.28614453	0.93245512	1.550513571	95557.92029	95557.92029	140.9305558	0.43	0.02	0.03	0.02	25.31
2021	SC	Construction and Mining	16	Off-Highway Tractors	250	2028650.848	17.00764079	0.650359361	1.304687516	2030407.704	12.91733688	0.441838751	1.008772173	59539.40633	59539.40633	91.9813933	0.57	0.02	0.04	0.02	34.10
2021	SC	Construction and Mining	16	Off-Highway Tractors	500	5698810.084	29.87819124	1.10086725	2.587185385	5696457.018	21.64837975	0.745640212	2.077357836	107195.4538	107195.4538	158.1434481	0.56	0.02	0.05	0.02	53.14
2021	SC	Construction and Mining	16	Off-Highway Tractors	750	1438072.467	7.195272824	0.273362474	0.652854961	1437439.392	7.408569396	0.272320825	0.64704059	15689.33755	15689.33755	23.12982405	0.92	0.03	0.08	0.03	91.62
2021	SC	Construction and Mining	16	Off-Highway Tractors	1000	40785.1803	1.503369868	0.076487832	0.105100208	40785.1803	0.295718924	0.007883678	0.016203986	255.1808989	255.1808989	0.537902885	11.78	0.60	0.82	0.55	159.83
2021	SC	Construction and Mining	16	Off-Highway Tractors	9999	330001.6258	4.60451559	0.130261512	0.289527333	335630.2237	3.768852432	0.09993096	0.214588618	1184.84166	1184.84166	2.151611539	7.77	0.22	0.49	0.20	283.27
2021	SC	Construction and Mining	17	Off-Highway Trucks	50	213145.2551	2.738296643	0.199434716	0.448928561	214671.9737	2.651218814	0.17941685	0.402949449	48306.60258	48306.60258	30.38005702	0.11	0.01	0.02	0.01	4.44
2021	SC	Construction and Mining	17	Off-Highway Trucks	120	260099.0289	3.669569305	0.287460751	0.380341385	260036.8364	2.93402963	0.191577816	0.291255345	21681.34875	21681.34875	17.05547061	0.34	0.03	0.04	0.02	11.99
2021	SC	Construction and Mining	17	Off-Highway Trucks	175	5050396.802	40.53646911	2.102438393	4.005311771	5049553.154	34.19625448	1.721850846	3.502924716	227598.9711	227598.9711	163.0929377	0.36	0.02	0.04	0.02	22.19
2021	SC	Construction and Mining	17	Off-Highway Trucks	250	10376198.12	97.52223899	4.083548503	8.516427999	10378170.91	65.99159873	2.569852245	6.449161892	352295.4986	352295.4986	279.2833312	0.55	0.02	0.05	0.02	29.46
2021	SC	Construction and Mining	17	Off-Highway Trucks	500	43865388.14	329.9915294	12.58310574	28.90129902	43866301.34	256.0451104	9.391637046	24.35948865	835993.1374	835993.1374	620.3927434	0.79	0.03	0.07	0.03	52.47

**Table C.18 CARB Offroad 2011 output**  
Used to calculate NOx, PM, HC, and fuel consumption

CalendarYear	AirBasin	Equipment Class	Equipment TypeID	Equipment Type	HorsepowerBin	lb/yr	ton/yr	ton/yr	ton/yr	lb/yr	ton/yr	ton/yr	ton/yr	hr/yr	hr/yr	Population	Emissions per Equipment (lb/hr)				lb/hr
						BaseBSFC	BaseNOx	BasePM	BaseHC	ScenBSFC	ScenNOx	ScenPM	ScenHC	BaseActivity	ScenActivity		NOx	PM	HC	PM2.5	BSFC per equipment
2021	SC	Construction and Mining	17	Off-Highway Trucks	750	15655070.39	143.8096071	5.746087542	12.4403814	15662446.68	125.2619024	4.997600987	11.37809086	170033.342	170033.342	141.7735994	1.69	0.07	0.15	0.06	92.11
2021	SC	Construction and Mining	17	Off-Highway Trucks	1000	10883689.16	154.048701	3.912884511	8.132032361	10887258.88	136.2635213	3.237980842	6.927045847	86760.01915	86760.01915	65.0239817	3.55	0.09	0.19	0.08	125.49
2021	SC	Construction and Mining	17	Off-Highway Trucks	9999	15778194.06	194.185652	4.722032973	10.52724671	15783206.41	172.8039221	3.849914303	8.998153237	63025.18059	63025.18059	42.10569307	6.16	0.15	0.33	0.14	250.43
2021	SC	Construction and Mining	18	Other Construction Equipment	50	1201595.902	16.24463304	1.313895635	2.913711324	1200543.066	15.81085807	1.230566241	2.690826851	185319.508	185319.508	394.205912	0.18	0.01	0.03	0.01	6.48
2021	SC	Construction and Mining	18	Other Construction Equipment	120	3770706.234	57.40998437	4.336099054	5.298462384	3772216.663	50.46118396	3.662676608	4.508009946	303230.2345	303230.2345	695.5638637	0.38	0.03	0.03	0.03	12.44
2021	SC	Construction and Mining	18	Other Construction Equipment	175	2049858.095	27.53218597	1.484422651	2.167379275	2049036.335	21.26499075	1.112024562	1.684334728	88570.16238	88570.16238	216.4683878	0.62	0.03	0.05	0.03	23.13
2021	SC	Construction and Mining	18	Other Construction Equipment	250	2628771.27	29.60482935	1.125779224	1.971207059	2628576.496	25.13842271	0.916182741	1.678096813	78988.02091	78988.02091	194.1848773	0.75	0.03	0.05	0.03	33.28
2021	SC	Construction and Mining	18	Other Construction Equipment	500	8971903.403	75.12987881	2.832482091	5.393087887	8969791.386	64.98504838	2.399809203	4.757868729	163777.3039	163777.3039	377.2279993	0.92	0.03	0.07	0.03	54.77
2021	SC	Construction and Mining	18	Other Construction Equipment	750	3499845.175	30.81545921	0.992794275	1.940939342	3501818.239	24.68771719	0.819989367	1.674368396	38345.92774	38345.92774	77.99228677	1.61	0.05	0.10	0.05	91.32
2021	SC	Construction and Mining	18	Other Construction Equipment	1000	407341.784	4.146685804	0.092211783	0.167457167	407414.3602	4.135596318	0.091730264	0.16507428	3230.937259	3230.937259	6.897277061	2.57	0.06	0.10	0.05	126.10
2021	SC	Construction and Mining	18	Other Construction Equipment	9999	253683.2774	3.902134462	0.107537204	0.19631224	253180.706	2.517291866	0.050701143	0.100744447	1513.932692	1513.932692	3.183358644	5.15	0.14	0.26	0.13	167.23
2021	SC	Construction and Mining	19	Pavers	50	147196.2692	1.965868169	0.175181695	0.476816648	147164.2667	1.823695156	0.146607929	0.395494352	22406.93907	22406.93907	63.89429472	0.18	0.02	0.04	0.01	6.57
2021	SC	Construction and Mining	19	Pavers	120	1425696.323	19.81788472	1.474812847	1.77388911	1425643.135	17.32407661	1.227652814	1.492106707	118075.6933	118075.6933	310.4197819	0.34	0.02	0.03	0.02	12.07
2021	SC	Construction and Mining	19	Pavers	175	1937699.82	17.97921336	0.886638805	1.406690545	1937384.354	15.6646405	0.757028271	1.228442425	80277.92707	80277.92707	209.7862677	0.45	0.02	0.04	0.02	24.13
2021	SC	Construction and Mining	19	Pavers	250	1303867.989	9.30342411	0.263257855	0.522492878	1303448.08	9.717728125	0.272798553	0.534842575	40064.70977	40064.70977	90.51691753	0.46	0.01	0.03	0.01	32.53
2021	SC	Construction and Mining	19	Pavers	500	490914.7587	3.06914219	0.110563726	0.202552307	490914.7587	3.06914219	0.110563726	0.202552307	9972.588048	9972.588048	22.36300315	0.62	0.02	0.04	0.02	49.23
2021	SC	Construction and Mining	19	Pavers	750	56959.18941	0.203216354	0.008993427	0.017064944	56959.18941	0.203216354	0.008993427	0.017064944	498.1612935	498.1612935	1.064904912	0.82	0.04	0.07	0.03	114.34
2021	SC	Construction and Mining	20	Paving Equipment	50	183240.9642	1.938174306	0.100337529	0.245781909	183267.1261	1.93849512	0.100042916	0.242040012	36637.61373	36637.61373	78.67623604	0.11	0.01	0.01	0.01	5.00
2021	SC	Construction and Mining	20	Paving Equipment	120	832717.4422	9.295298832	0.614128739	0.807387533	832303.8629	8.60497335	0.546133255	0.731791126	71905.69676	71905.69676	160.5420492	0.26	0.02	0.02	0.02	11.57
2021	SC	Construction and Mining	20	Paving Equipment	175	784546.3351	6.093551212	0.304103533	0.493684727	784536.278	5.471508068	0.270199914	0.447556282	40685.46335	40685.46335	87.71337126	0.30	0.01	0.02	0.01	19.28
2021	SC	Construction and Mining	20	Paving Equipment	250	411369.8526	3.540457447	0.129577449	0.236501544	411381.1922	3.189728812	0.1138236	0.214993549	14633.76081	14633.76081	31.89577137	0.48	0.02	0.03	0.02	28.11
2021	SC	Construction and Mining	20	Paving Equipment	500	580180.5067	4.426687743	0.162169097	0.305359622	580004.8652	4.337447121	0.158227696	0.299235101	13229.09787	13229.09787	28.70619423	0.67	0.02	0.05	0.02	43.84
2021	SC	Construction and Mining	20	Paving Equipment	750	275676.8785	1.970646652	0.044940348	0.120549343	275705.9243	1.961675838	0.044668448	0.119025013	3488.852787	3488.852787	6.910750463	1.13	0.03	0.07	0.02	79.02
2021	SC	Construction and Mining	20	Paving Equipment	1000	53811.06585	0.376326224	0.006130664	0.012725341	53811.06585	0.376326224	0.006130664	0.012725341	489.7982471	489.7982471	1.063192379	1.54	0.03	0.05	0.02	109.86
2021	SC	Construction and Mining	21	Rollers	50	3022301.592	36.70651042	2.630939601	6.348517722	3022278.385	35.45994551	2.394709995	5.708088573	552301.7376	552301.7376	1614.235969	0.13	0.01	0.02	0.01	5.47
2021	SC	Construction and Mining	21	Rollers	120	4723704.335	57.86356185	3.790902095	4.914130162	4723292.664	50.71645103	3.100444948	4.127666738	393361.0816	393361.0816	1203.836994	0.29	0.02	0.02	0.02	12.01
2021	SC	Construction and Mining	21	Rollers	175	4882474.781	35.27234913	1.654669462	2.655981749	4884141.447	31.05967683	1.427455094	2.339101087	246735.8832	246735.8832	696.0366617	0.29	0.01	0.02	0.01	19.80
2021	SC	Construction and Mining	21	Rollers	250	771431.8098	6.491131094	0.221122442	0.427282668	771441.9209	5.759955722	0.187230752	0.37514375	26192.96227	26192.96227	85.36298682	0.50	0.02	0.03	0.02	29.45
2021	SC	Construction and Mining	21	Rollers	500	488042.4503	4.100511768	0.161154703	0.284908983	488042.4503	3.738066751	0.143989496	0.263120386	10423.27237	10423.27237	35.02071254	0.79	0.03	0.05	0.03	46.82

**Table C.18 CARB Offroad 2011 output**  
Used to calculate NOx, PM, HC, and fuel consumption

CalendarYear	AirBasin	Equipment Class	Equipment TypeID	Equipment Type	HorsepowerBin	lb/yr	ton/yr	ton/yr	ton/yr	lb/yr	ton/yr	ton/yr	ton/yr	hr/yr	hr/yr	Emissions per Equipment (lb/hr)					lb/hr
						BaseBSFC	BaseNOx	BasePM	BaseHC	ScenBSFC	ScenNOx	ScenPM	ScenHC	BaseActivity	ScenActivity	Population	NOx	PM	HC	PM2.5	BSFC per equipment
2021	SC	Construction and Mining	21	Rollers	750	23729.87159	0.08242752	0.003479763	0.006704796	23729.87159	0.050288129	0.000673732	0.005168472	330.5937245	330.5937245	1.094397267	0.50	0.02	0.04	0.02	71.78
2021	SC	Construction and Mining	22	Rough Terrain	50	153926.8887	1.824142556	0.12439485	0.327371901	153932.8031	1.832592497	0.126193646	0.332488936	19826.01482	19826.01482	73.31785691	0.18	0.01	0.03	0.01	7.76
2021	SC	Construction and Mining	22	Rough Terrain	120	12398817.46	89.43990252	3.727975717	5.894677004	12399665.24	84.92360853	3.290380621	5.363348928	870559.0247	870559.0247	3141.290938	0.21	0.01	0.01	0.01	14.24
2021	SC	Construction and Mining	22	Rough Terrain	175	2278693.538	11.12171662	0.416524923	0.752458844	2278687.825	11.07138452	0.407863376	0.737034939	119259.0514	119259.0514	420.3135763	0.19	0.01	0.01	0.01	19.11
2021	SC	Construction and Mining	22	Rough Terrain	250	187633.1726	1.78236142	0.078847863	0.131413846	187129.5782	0.905012575	0.020688178	0.053349046	6082.642605	6082.642605	24.64996913	0.59	0.03	0.04	0.02	30.76
2021	SC	Construction and Mining	22	Rough Terrain	500	79259.31829	0.114478834	0.002147556	0.013068522	79082.9715	0.313452985	0.006799164	0.018251552	1453.091678	1453.091678	5.688454416	0.16	0.00	0.02	0.00	54.42
2021	SC	Construction and Mining	22	Rough Terrain	750	12421.22058	0.009764309	0.000337182	0.001852422	12421.22058	0.049836932	0.000351305	0.003259412	134.7076127	134.7076127	0.632050491	0.14	0.01	0.03	0.00	92.21
2021	SC	Construction and Mining	23	Rubber Tired Dozers	50	132614.3166	2.434513042	0.322693782	0.896113358	134135.3884	1.644648048	0.134938381	0.374067052	20052.45001	20052.45001	21.36421308	0.24	0.03	0.09	0.03	6.69
2021	SC	Construction and Mining	23	Rubber Tired Dozers	120	633914.4178	16.88122992	1.496855069	1.870068656	636452.5571	13.4365095	1.143390485	1.418945868	52989.31105	52989.31105	63.57156088	0.64	0.06	0.07	0.05	12.01
2021	SC	Construction and Mining	23	Rubber Tired Dozers	175	529565.4967	13.86550932	0.801002407	1.144747536	529058.8507	10.76935796	0.612773757	0.90594082	24316.098	24316.098	32.82793717	1.14	0.07	0.09	0.06	21.76
2021	SC	Construction and Mining	23	Rubber Tired Dozers	250	552898.4609	12.39757185	0.618291402	0.967977303	552238.0287	10.3830258	0.503904794	0.818394705	17938.07876	17938.07876	25.53284002	1.38	0.07	0.11	0.06	30.79
2021	SC	Construction and Mining	23	Rubber Tired Dozers	500	6326833.686	123.8965082	5.789813663	9.554889178	6323066.622	95.10075429	4.343559232	7.614376245	121321.1392	121321.1392	170.3926263	2.04	0.10	0.16	0.09	52.12
2021	SC	Construction and Mining	23	Rubber Tired Dozers	750	744091.8188	15.00049992	0.553276512	0.939353948	744091.8188	13.65479324	0.486597798	0.844611991	8762.647114	8762.647114	10.42156736	3.42	0.13	0.21	0.12	84.92
2021	SC	Construction and Mining	24	Rubber Tired Loaders	50	420035.0806	6.034284017	0.543687377	1.448945578	420004.3182	5.647022657	0.464538219	1.243602195	68270.04425	68270.04425	80.38198808	0.18	0.02	0.04	0.01	6.15
2021	SC	Construction and Mining	24	Rubber Tired Loaders	120	10219707.79	152.8988893	12.15156895	15.31148053	10226737.81	131.0321596	9.832220093	12.79258016	904846.118	904846.118	999.3436356	0.34	0.03	0.03	0.02	11.30
2021	SC	Construction and Mining	24	Rubber Tired Loaders	175	24267282.43	285.7086211	15.9396209	25.39732357	24256173.28	227.6946616	12.45175723	20.88252369	1220399.256	1220399.256	1309.466036	0.47	0.03	0.04	0.02	19.88
2021	SC	Construction and Mining	24	Rubber Tired Loaders	250	33405582.91	339.7923622	11.64991389	24.59113214	33417808.52	302.4830618	10.08678665	22.1923211	1228777.056	1228777.056	1163.909463	0.55	0.02	0.04	0.02	27.20
2021	SC	Construction and Mining	24	Rubber Tired Loaders	500	43503494.61	446.3357972	17.09280356	35.22441652	43584536.17	344.7352866	12.86798425	28.84204807	1035816.284	1035816.284	1081.354988	0.86	0.03	0.07	0.03	42.08
2021	SC	Construction and Mining	24	Rubber Tired Loaders	750	7769653.989	72.29896251	2.798850917	5.907866738	7785735.129	63.09456397	2.445184873	5.358281666	99762.44824	99762.44824	95.58939123	1.45	0.06	0.12	0.05	78.04
2021	SC	Construction and Mining	24	Rubber Tired Loaders	1000	2241265.661	40.25817915	1.130672833	2.067397853	2245151.164	33.60476824	0.863785184	1.642303558	20240.28076	20240.28076	17.37988931	3.98	0.11	0.20	0.10	110.92
2021	SC	Construction and Mining	24	Rubber Tired Loaders	9999	891866.9254	12.49485975	0.298061895	0.598469267	891866.9254	11.12339562	0.242942449	0.49937838	4445.884031	4445.884031	3.801850788	5.62	0.13	0.27	0.12	200.61
2021	SC	Construction and Mining	25	Scrapers	50	9620.862908	0.179239555	0.024863289	0.074088454	9620.862908	0.165338813	0.021825932	0.064826516	1358.222816	1358.222816	3.757542474	0.26	0.04	0.11	0.03	7.08
2021	SC	Construction and Mining	25	Scrapers	120	438914.5609	8.788590081	0.681296699	0.773510727	438914.5609	8.566826198	0.659173378	0.748624158	28691.0178	28691.0178	54.21596998	0.61	0.05	0.05	0.04	15.30
2021	SC	Construction and Mining	25	Scrapers	175	4634193.874	75.77865355	4.123664763	6.154539568	4634130.928	59.59359932	3.182565601	4.899923156	155355.3345	155355.3345	348.3778665	0.98	0.05	0.08	0.05	29.83
2021	SC	Construction and Mining	25	Scrapers	250	5328183.138	104.0083751	4.757612321	7.613946802	5331303.181	70.36609341	3.047429741	5.201491506	134689.0998	134689.0998	338.1788226	1.54	0.07	0.11	0.06	39.58
2021	SC	Construction and Mining	25	Scrapers	500	46685158.74	628.3006512	25.80105861	44.61419888	46640674.89	482.160831	18.7592149	34.60509712	690227.7903	690227.7903	1486.376444	1.82	0.07	0.13	0.07	67.57
2021	SC	Construction and Mining	25	Scrapers	750	21307821.06	229.149353	9.083496448	16.45818352	21316801.61	184.9511216	6.743630013	13.25861635	213248.2467	213248.2467	423.528716	2.15	0.09	0.15	0.08	99.96
2021	SC	Construction and Mining	25	Scrapers	1000	333962.1615	13.433244	0.626306946	0.972971308	333962.1615	13.433244	0.626306946	0.972971308	1985.639001	1985.639001	6.978293165	13.53	0.63	0.98	0.58	168.19
2021	SC	Construction and Mining	25	Scrapers	9999	1213875.203	24.03952485	0.874422048	1.407568925	1213875.203	23.81011131	0.863325528	1.383540534	3488.657056	3488.657056	6.978293165	13.78	0.50	0.81	0.46	347.95
2021	SC	Construction and Mining	26	Skid Steer Loaders	50	2285887.683	21.62870857	0.702332924	1.956579919	2286386.832	21.96023017	0.776148398	2.076504016	348078.4755	348078.4755	1118.311811	0.12	0.00	0.01	0.00	6.57
2021	SC	Construction and Mining	26	Skid Steer Loaders	120	12146573.49	84.68455761	3.374655457	5.30246225	12134560.07	86.2432822	3.509124463	5.362055401	1272284.483	1272284.483	3608.870391	0.13	0.01	0.01	0.00	9.54
2021	SC	Construction and Mining	26	Skid Steer Loaders	175	82051.95568	0.451581294	0.017497727	0.033338278	82010.88187	0.413494705	0.017271554	0.031957938	3998.636598	3998.636598	14.96996475	0.23	0.01	0.02	0.01	20.51
2021	SC	Construction and Mining	26	Skid Steer Loaders	250	62669.47203	0.209643451	0.00690637	0.015313829	62621.05155	0.253610131	0.007672491	0.016237683	2364.041904	2364.041904	8.316647083	0.18	0.01	0.01	0.01	26.49

**Table C.18 CARB Offroad 2011 output**  
Used to calculate NOx, PM, HC, and fuel consumption

CalendarYear	AirBasin	Equipment Class	Equipment TypeID	Equipment Type	HorsepowerBin	lb/yr	ton/yr	ton/yr	ton/yr	lb/yr	ton/yr	ton/yr	ton/yr	hr/yr	hr/yr	Emissions per Equipment (lb/hr)				lb/hr	
						BaseBSFC	BaseNOx	BasePM	BaseHC	ScenBSFC	ScenNOx	ScenPM	ScenHC	BaseActivity	ScenActivity	Population	NOx	PM	HC	PM2.5	BSFC per equipment
2021	SC	Construction and Mining	26	Skid Steer Loaders	500	17327.82274	0.032409128	0.000484042	0.003447981	17327.82274	0.031711897	0.000481196	0.003354949	475.565281	475.565281	1.663329417	0.14	0.00	0.01	0.00	36.44
2021	SC	Construction and Mining	26	Skid Steer Loaders	750	18278.56933	0.134146445	0.005808256	0.007913549	18278.56933	0.134146445	0.005808256	0.007913549	255.0132666	255.0132666	0.554443139	1.05	0.05	0.06	0.04	71.68
2021	SC	Construction and Mining	26	Skid Steer Loaders	1000	29827.34415	0.385059457	0.010262042	0.018971537	29827.34415	0.405713579	0.013412206	0.022422448	220.5520144	220.5520144	1.108886278	3.49	0.09	0.17	0.09	135.24
2021	SC	Construction and Mining	27	Surfacing Equipment	50	21181.87143	0.241008365	0.012619422	0.026699048	21182.24752	0.234799589	0.011433008	0.023478409	4728.883171	4728.883171	19.61678703	0.10	0.01	0.01	0.00	4.48
2021	SC	Construction and Mining	27	Surfacing Equipment	120	166324.3398	1.751964217	0.09984881	0.132031498	166259.539	1.720964491	0.094738695	0.128073229	16870.90203	16870.90203	62.8743174	0.21	0.01	0.02	0.01	9.85
2021	SC	Construction and Mining	27	Surfacing Equipment	175	85342.80605	1.028655292	0.049443183	0.071808093	85322.39515	0.798965006	0.037478304	0.054991813	5138.831479	5138.831479	21.12577065	0.40	0.02	0.03	0.02	16.60
2021	SC	Construction and Mining	27	Surfacing Equipment	250	181921.6421	1.700606812	0.051193577	0.094248308	181917.1658	1.619439563	0.049906479	0.092408711	7533.429538	7533.429538	31.68865597	0.45	0.01	0.03	0.01	24.15
2021	SC	Construction and Mining	27	Surfacing Equipment	500	577890.1955	3.088069115	0.11103943	0.203892373	577857.1597	3.044227616	0.11030437	0.202124767	14421.60646	14421.60646	52.31143208	0.43	0.02	0.03	0.01	40.07
2021	SC	Construction and Mining	27	Surfacing Equipment	750	530799.3934	2.716418792	0.102135474	0.171379399	530799.3934	2.555192356	0.098407634	0.165388556	7826.443089	7826.443089	26.15571604	0.69	0.03	0.04	0.02	67.82
2021	SC	Construction and Mining	27	Surfacing Equipment	1000	86258.67893	1.154943048	0.026510272	0.047627737	86258.67893	0.952572183	0.020036789	0.036510011	959.116711	959.116711	3.520961774	2.41	0.06	0.10	0.05	89.94
2021	SC	Construction and Mining	27	Surfacing Equipment	9999	30398.46663	0.362856665	0.008568968	0.0147895	30398.46663	0.362856665	0.008568968	0.0147895	244.6251398	244.6251398	1.005989078	2.97	0.07	0.12	0.06	124.27
2021	SC	Construction and Mining	28	Tractors/Loaders/Backhoes	50	4517904.243	54.41347763	3.528925053	8.734023934	4519725.977	52.57829331	3.165660316	7.772392631	799527.1184	799527.1184	1564.992788	0.14	0.01	0.02	0.01	5.65
2021	SC	Construction and Mining	28	Tractors/Loaders/Backhoes	120	72666348.87	715.6321419	45.53365593	60.89366512	72676342.09	649.224938	38.27758456	53.00179677	6456711.982	6456711.982	10626.13744	0.22	0.01	0.02	0.01	11.26
2021	SC	Construction and Mining	28	Tractors/Loaders/Backhoes	175	12571463.16	93.42739698	4.764100192	8.072724179	12572311.42	78.62677787	3.969075233	6.963983391	652125.237	652125.237	1188.740166	0.29	0.01	0.02	0.01	19.28
2021	SC	Construction and Mining	28	Tractors/Loaders/Backhoes	250	7315958.994	60.03474509	2.115975631	4.333948687	7314072.977	52.21196488	1.762771412	3.814315357	265661.3571	265661.3571	475.4960666	0.45	0.02	0.03	0.01	27.53
2021	SC	Construction and Mining	28	Tractors/Loaders/Backhoes	500	9789266.129	62.75065017	2.300156474	5.086234838	9780346.309	52.47770432	1.891549281	4.38049824	227221.9952	227221.9952	429.146106	0.55	0.02	0.04	0.02	43.04
2021	SC	Construction and Mining	28	Tractors/Loaders/Backhoes	750	1386717.533	12.3186878	0.454357628	0.897251423	1391261.109	11.64713693	0.440252756	0.864801946	18117.85667	18117.85667	29.99115099	1.36	0.05	0.10	0.05	76.79
2021	SC	Construction and Mining	28	Tractors/Loaders/Backhoes	1000	235042.2206	2.066514883	0.035349204	0.077948081	235042.2206	2.063187562	0.035249524	0.076962521	1975.887388	1975.887388	2.726468272	2.09	0.04	0.08	0.03	118.96
2021	SC	Construction and Mining	28	Tractors/Loaders/Backhoes	9999	3300008.816	35.11330235	0.753495112	1.612702062	3300008.816	33.84326258	0.692541956	1.491931517	12148.22109	12148.22109	20.17586521	5.78	0.12	0.27	0.11	271.65
2021	SC	Construction and Mining	29	Trenchers	50	1601058.827	19.54163723	1.414635056	3.065080347	1600419.084	19.1985592	1.348882186	2.878899503	195417.9772	195417.9772	513.2149619	0.20	0.01	0.03	0.01	8.19
2021	SC	Construction and Mining	29	Trenchers	120	1161554.244	18.72554845	1.39304329	1.713108018	1160287.903	17.67321376	1.28324364	1.590613565	76153.0898	76153.0898	237.9451187	0.49	0.04	0.04	0.03	15.24
2021	SC	Construction and Mining	29	Trenchers	175	236869.8619	3.454804012	0.179760027	0.269534307	236843.2557	3.067336134	0.15705419	0.241229023	9009.081527	9009.081527	31.4927363	0.77	0.04	0.06	0.04	26.29
2021	SC	Construction and Mining	29	Trenchers	250	464790.9859	6.129018798	0.24470315	0.418003005	464967.2837	6.066400316	0.23906135	0.409725841	11499.31315	11499.31315	37.32472451	1.07	0.04	0.07	0.04	40.43
2021	SC	Construction and Mining	29	Trenchers	500	782028.8205	6.185003525	0.24218861	0.44282721	782233.8483	5.869550491	0.236199411	0.430876404	11865.10313	11865.10313	33.82553158	1.04	0.04	0.07	0.04	65.93
2021	SC	Construction and Mining	29	Trenchers	750	351917.9541	0.50171123	0.009484828	0.057459864	351917.9541	0.50171123	0.009484828	0.057459864	3078.485313	3078.485313	6.998385845	0.33	0.01	0.04	0.01	114.32
2021	SC	Construction and Mining	29	Trenchers	1000	20885.08506	0.835998027	0.038723679	0.060324147	20885.08506	0.835998027	0.038723679	0.060324147	131.6848055	131.6848055	0.58319882	12.70	0.59	0.92	0.54	158.60
2021	SC	Construction and Mining	36	Sweepers/Scrubbers	50	1393725.777	18.65501684	1.616976986	3.966831516	1393725.777	18.2418902	1.548642583	3.789957419	210480.3854	210480.3854	301.2407064	0.18	0.02	0.04	0.01	6.62
2021	SC	Construction and Mining	36	Sweepers/Scrubbers	120	2154049.409	29.47279962	2.344333877	2.85386774	2154049.409	25.52167914	1.877090696	2.343522962	165449.6376	165449.6376	245.2579202	0.36	0.03	0.03	0.03	13.02
2021	SC	Construction and Mining	36	Sweepers/Scrubbers	175	537305.9657	9.091578977	0.450088881	0.728341073	537305.9657	5.969366638	0.301450356	0.512090309	20105.14599	20105.14599	28.25797777	0.90	0.04	0.07	0.04	26.72
2021	SC	Construction and Mining	36	Sweepers/Scrubbers	250	286362.4234	1.954712299	0.068503869	0.150307452	286362.4234	1.518459049	0.047489736	0.11721572	8412.860362	8412.860362	11.72972662	0.46	0.02	0.04	0.01	34.04
2021	SC	Construction and Mining	36	Sweepers/Scrubbers	500	79891.37078	1.306609939	0.05695091	0.087501079	79891.37078	1.306609939	0.05695091	0.087501079	1579.51849	1579.51849	2.132677567	1.65	0.07	0.11	0.07	50.58
2021	SC	Construction and Mining	36	Sweepers/Scrubbers	1000	55989.98547	0.716970447	0.020676875	0.035937623	55989.98547	0.716970447	0.020676875	0.035937623	394.8796226	394.8796226	0.533169392	3.63	0.10	0.18	0.10	141.79
2022	SC	Construction and Mining	11	Bore/Drill Rigs	50	134780.9637	1.566771769	0.09066836	0.195679676	134727.0233	1.544684334	0.086725207	0.188126531	16571.94812	16571.94812	46.56861691	0.19	0.01	0.02	0.01	8.13

**Table C.18 CARB Offroad 2011 output**  
Used to calculate NOx, PM, HC, and fuel consumption

CalendarYear	AirBasin	Equipment Class	Equipment TypeID	Equipment Type	HorsepowerBin	lb/yr	ton/yr	ton/yr	ton/yr	lb/yr	ton/yr	ton/yr	ton/yr	hr/yr	hr/yr	Emissions per Equipment (lb/hr)				lb/hr	
						BaseBSFC	BaseNOx	BasePM	BaseHC	ScenBSFC	ScenNOx	ScenPM	ScenHC	BaseActivity	ScenActivity	Population	NOx	PM	HC	PM2.5	BSFC per equipment
2022	SC	Construction and Mining	11	Bore/Drill Rigs	120	847200.2077	6.905334058	0.329957274	0.469658341	846305.7304	6.293659627	0.277932427	0.409958409	56920.21309	56920.21309	142.6470265	0.24	0.01	0.02	0.01	14.87
2022	SC	Construction and Mining	11	Bore/Drill Rigs	175	981460.66	4.229461599	0.193350977	0.368457026	981034.7003	3.753857453	0.165333566	0.329434047	35415.10209	35415.10209	111.7646806	0.24	0.01	0.02	0.01	27.70
2022	SC	Construction and Mining	11	Bore/Drill Rigs	250	1390436.7	5.924499414	0.19454432	0.459365097	1389968.828	4.889208071	0.156942734	0.39953986	36533.91578	36533.91578	111.2744846	0.32	0.01	0.03	0.01	38.05
2022	SC	Construction and Mining	11	Bore/Drill Rigs	500	1564252.508	5.886523323	0.190012966	0.467207621	1564798.88	4.916313919	0.167025708	0.422156926	24552.77444	24552.77444	77.94115883	0.48	0.02	0.04	0.01	63.73
2022	SC	Construction and Mining	11	Bore/Drill Rigs	750	2122771.781	5.118525206	0.182524122	0.487800775	2119278.347	4.86854539	0.176635228	0.472710978	18578.33841	18578.33841	38.72548143	0.55	0.02	0.05	0.02	114.07
2022	SC	Construction and Mining	11	Bore/Drill Rigs	1000	168023.9188	1.150516005	0.009241404	0.024513795	168023.9188	1.147602273	0.009154115	0.02365074	989.5932305	989.5932305	1.470587902	2.33	0.02	0.05	0.02	169.79
2022	SC	Construction and Mining	11	Bore/Drill Rigs	9999	568210.9529	7.37277731	0.186509407	0.280702957	568210.9529	7.37277731	0.186509407	0.280702957	1155.416961	1155.416961	1.470587902	12.76	0.32	0.49	0.30	491.78
2022	SC	Construction and Mining	12	Cranes	50	44773.4472	0.750731256	0.080409774	0.223589984	44773.4472	0.723125662	0.073932907	0.205460979	9500.560003	9500.560003	21.57077784	0.16	0.02	0.05	0.02	4.71
2022	SC	Construction and Mining	12	Cranes	120	1069145.933	22.52969781	1.652631169	2.191890592	1069033.329	16.60531585	1.115516797	1.540053947	114171.7918	114171.7918	260.08195	0.39	0.03	0.04	0.03	9.36
2022	SC	Construction and Mining	12	Cranes	175	2819104.461	51.4502792	2.825615953	4.169699395	2819042.883	38.88350219	2.073584193	3.178875407	179326.2956	179326.2956	390.122925	0.57	0.03	0.05	0.03	15.72
2022	SC	Construction and Mining	12	Cranes	250	4761754.732	83.70037882	3.880575013	6.171176521	4762512.89	50.55995776	2.099260698	3.724682017	207163.6347	207163.6347	438.1949442	0.81	0.04	0.06	0.03	22.99
2022	SC	Construction and Mining	12	Cranes	500	7298502.175	91.20830397	3.873709538	6.561755646	7298044.46	63.41343134	2.57044783	4.725431385	205306.9109	205306.9109	420.322014	0.89	0.04	0.06	0.03	35.55
2022	SC	Construction and Mining	12	Cranes	750	1920675.041	17.14948886	0.696216738	1.213015789	1920265.116	13.02579605	0.514052688	0.95786309	32127.61357	32127.61357	61.63079384	1.07	0.04	0.08	0.04	59.77
2022	SC	Construction and Mining	12	Cranes	1000	449984.4901	11.61792515	0.505410106	0.777051279	449984.4901	11.28982173	0.524149485	0.797857075	4567.123314	4567.123314	9.244619076	5.09	0.22	0.34	0.20	98.53
2022	SC	Construction and Mining	12	Cranes	9999	34666.11888	0.248478668	0.006485698	0.017324715	34666.11888	0.248478668	0.006485698	0.017324715	318.316151	318.316151	0.616307938	1.56	0.04	0.11	0.04	108.90
2022	SC	Construction and Mining	13	Crawler Tractors	50	136272.7086	2.257494466	0.256808985	0.751600409	136581.33	2.018364822	0.202159664	0.588689282	18672.29228	18672.29228	54.70053093	0.24	0.03	0.08	0.03	7.31
2022	SC	Construction and Mining	13	Crawler Tractors	120	6047452.519	106.6668937	8.977000061	10.72386125	6037039.96	91.72443774	7.334602442	8.918900797	437989.1514	437989.1514	941.3961373	0.49	0.04	0.05	0.04	13.78
2022	SC	Construction and Mining	13	Crawler Tractors	175	6579463.978	93.40837796	5.322515491	7.755850454	6576385.014	75.66336292	4.224586943	6.358879616	279736.8943	279736.8943	615.9279783	0.67	0.04	0.06	0.04	23.51
2022	SC	Construction and Mining	13	Crawler Tractors	250	6620214.074	84.97347568	3.309665959	5.746999678	6621283.96	74.30726137	2.804061141	5.028283144	207403.4835	207403.4835	450.1853695	0.82	0.03	0.06	0.03	31.92
2022	SC	Construction and Mining	13	Crawler Tractors	500	17735985.21	176.7359927	7.321654627	13.21062956	17751852.26	145.5989016	5.892871657	11.14799637	329455.977	329455.977	723.6880242	1.07	0.04	0.08	0.04	53.88
2022	SC	Construction and Mining	13	Crawler Tractors	750	6934900.437	60.25364904	2.324500178	4.404967742	6921914.44	44.11384418	1.647368493	3.393702608	77017.30404	77017.30404	148.2384388	1.56	0.06	0.11	0.06	89.87
2022	SC	Construction and Mining	13	Crawler Tractors	1000	912311.5762	16.37865312	0.447686468	0.813837916	907953.5147	16.1990636	0.444250123	0.806044021	6986.703964	6986.703964	13.12812742	4.69	0.13	0.23	0.12	129.95
2022	SC	Construction and Mining	13	Crawler Tractors	9999	484415.6691	8.948874385	0.236883512	0.422761409	484415.6691	8.948874385	0.236883512	0.422761409	2098.476612	2098.476612	3.282031856	8.53	0.23	0.40	0.21	230.84
2022	SC	Construction and Mining	14	Excavators	50	5460858.609	55.05680911	2.464933337	6.116787862	5462871.724	54.54688609	2.353448195	5.822421892	979801.6025	979801.6025	1339.743696	0.11	0.01	0.01	0.00	5.58
2022	SC	Construction and Mining	14	Excavators	120	7101835.463	59.49620184	3.309415829	4.89545666	7104122.436	56.1433851	2.962274697	4.480028149	625687.2548	625687.2548	969.0246051	0.19	0.01	0.02	0.01	11.35
2022	SC	Construction and Mining	14	Excavators	175	14947640.79	84.05155864	4.080303642	7.77567054	14945640.58	75.30835107	3.641117443	7.089675354	729962.5111	729962.5111	1231.160293	0.23	0.01	0.02	0.01	20.47
2022	SC	Construction and Mining	14	Excavators	250	18999325.63	82.89307361	2.725197279	7.442442139	18992100.34	79.07454558	2.482563669	6.996272355	620259.8779	620259.8779	1058.413972	0.27	0.01	0.02	0.01	30.62
2022	SC	Construction and Mining	14	Excavators	500	31484384.35	105.2059963	3.626833724	10.65499269	31483469.21	98.8251892	3.318524029	10.0488088	686918.4382	686918.4382	1076.511205	0.31	0.01	0.03	0.01	45.83
2022	SC	Construction and Mining	14	Excavators	750	2860567.71	12.52754654	0.457201571	1.149727184	2863561.467	11.13024622	0.408506072	1.072050661	35559.82484	35559.82484	54.84010216	0.70	0.03	0.06	0.02	80.53
2022	SC	Construction and Mining	14	Excavators	1000	318903.9258	2.258550772	0.025509298	0.074963767	318893.1459	3.432240467	0.065040946	0.135544181	2719.633635	2719.633635	4.387208173	1.66	0.02	0.06	0.02	117.26
2022	SC	Construction and Mining	14	Excavators	9999	624213.8695	4.340056218	0.042837823	0.126219705	624213.8695	4.335409781	0.042698626	0.124843418	2865.699004	2865.699004	3.838807151	3.03	0.03	0.09	0.03	217.82
2022	SC	Construction and Mining	15	Graders	50	36124.26357	0.632607801	0.078432893	0.225452605	36124.26357	0.553911759	0.061767601	0.180819031	5888.363701	5888.363701	17.0870483	0.21	0.03	0.08	0.02	6.13
2022	SC	Construction and Mining	15	Graders	120	971660.5195	23.5746734	1.909464705	2.475237102	971921.5055	18.66230373	1.446220695	1.931375935	71576.38975	71576.38975	181.8943852	0.66	0.05	0.07	0.05	13.58

**Table C.18 CARB Offroad 2011 output**  
Used to calculate NOx, PM, HC, and fuel consumption

CalendarYear	AirBasin	Equipment Class	EquipmentTypeID	Equipment Type	HorsepowerBin	lb/yr	ton/yr	ton/yr	ton/yr	lb/yr	ton/yr	ton/yr	ton/yr	hr/yr	hr/yr	Emissions per Equipment (lb/hr)					lb/hr
						BaseBSFC	BaseNOx	BasePM	BaseHC	ScenBSFC	ScenNOx	ScenPM	ScenHC	BaseActivity	ScenActivity	Population	NOx	PM	HC	PM2.5	BSFC per equipment
2022	SC	Construction and Mining	15	Graders	175	8962677.809	150.5328469	8.413889859	12.80928085	8984121.316	109.7930606	6.10284847	9.686030583	399345.7281	399345.7281	851.0452445	0.75	0.04	0.06	0.04	22.50
2022	SC	Construction and Mining	15	Graders	250	15649204.39	203.5514075	6.700880539	13.22057076	15622869.72	181.6063562	5.775584508	11.84668422	507345.2707	507345.2707	675.7652006	0.80	0.03	0.05	0.02	30.79
2022	SC	Construction and Mining	15	Graders	500	4475899.735	40.33847207	1.577056271	3.637676367	4475843.455	37.67762912	1.455097928	3.456503252	101812.4412	101812.4412	126.2236794	0.79	0.03	0.07	0.03	43.96
2022	SC	Construction and Mining	15	Graders	1000	43351.89906	0.311181407	0.002813866	0.010571303	43351.89906	0.311181407	0.002813866	0.010571303	363.0984184	363.0984184	0.551195107	1.71	0.02	0.06	0.01	119.39
2022	SC	Construction and Mining	15	Graders	9999	610701.9107	12.42040628	0.387558404	0.751796083	610701.9107	12.42040628	0.387558404	0.751796083	2046.848159	2046.848159	2.755975533	12.14	0.38	0.73	0.35	298.36
2022	SC	Construction and Mining	16	Off-Highway Tractors	50	2269236.131	28.39943683	2.099267832	5.310507718	2264974.002	26.16012832	1.58249108	3.92164196	338230.3327	338230.3327	513.1782767	0.17	0.01	0.03	0.01	6.70
2022	SC	Construction and Mining	16	Off-Highway Tractors	120	2883921.167	35.01422964	2.550828036	3.181004776	2883693.077	29.25052265	1.887495815	2.475542781	240466.4417	240466.4417	373.1222454	0.29	0.02	0.03	0.02	11.99
2022	SC	Construction and Mining	16	Off-Highway Tractors	175	2459942.119	17.36597665	0.847570674	1.491139946	2459726.174	16.51345833	0.791315841	1.409431779	97200.87189	97200.87189	141.6783019	0.36	0.02	0.03	0.02	25.31
2022	SC	Construction and Mining	16	Off-Highway Tractors	250	2064968.62	13.05242233	0.494337511	1.099812457	2065880.679	10.77077914	0.373407571	0.922396317	60563.08247	60563.08247	92.46942604	0.43	0.02	0.04	0.02	34.11
2022	SC	Construction and Mining	16	Off-Highway Tractors	500	5796355.93	25.1431428	0.954108509	2.396992469	5796191.397	17.4978664	0.618688849	1.907694061	109038.4925	109038.4925	158.982522	0.46	0.02	0.04	0.02	53.16
2022	SC	Construction and Mining	16	Off-Highway Tractors	750	1462782.737	7.131343639	0.270740059	0.673790138	1462567.287	6.297003078	0.239495327	0.620804795	15959.08832	15959.08832	23.25254573	0.89	0.03	0.08	0.03	91.64
2022	SC	Construction and Mining	16	Off-Highway Tractors	1000	41486.41026	1.529217688	0.077802907	0.106907223	41486.41026	0.302998098	0.008183602	0.017499418	259.5682889	259.5682889	0.540756877	11.78	0.60	0.82	0.55	159.83
2022	SC	Construction and Mining	16	Off-Highway Tractors	9999	336148.4693	4.712351989	0.13362277	0.301185066	341655.0465	3.84876437	0.102774607	0.226054163	1205.212944	1205.212944	2.16302751	7.82	0.22	0.50	0.20	283.48
2022	SC	Construction and Mining	17	Off-Highway Trucks	50	216966.7059	2.678162138	0.182896697	0.43737948	218450.7428	2.589189713	0.161933309	0.389916957	49137.15027	49137.15027	30.54124682	0.11	0.01	0.02	0.01	4.45
2022	SC	Construction and Mining	17	Off-Highway Trucks	120	265202.0087	3.204177854	0.234946712	0.329724374	265142.9035	2.732053418	0.165333228	0.272154312	22054.12169	22054.12169	17.14596313	0.29	0.02	0.03	0.02	12.02
2022	SC	Construction and Mining	17	Off-Highway Trucks	175	5139187.004	32.86190393	1.637619269	3.454209362	5135186.13	28.04262489	1.358107139	3.081546386	231512.138	231512.138	163.9582724	0.28	0.01	0.03	0.01	22.18
2022	SC	Construction and Mining	17	Off-Highway Trucks	250	10541317.41	77.34907329	3.17684438	7.310533526	10543626.46	51.50385021	2.027666872	5.643944279	358352.6046	358352.6046	280.7651462	0.43	0.02	0.04	0.02	29.42
2022	SC	Construction and Mining	17	Off-Highway Trucks	500	44645394.61	270.262385	10.02164232	25.75336236	44636639.99	198.6106227	7.222215911	21.60949237	850366.5798	850366.5798	623.6844088	0.64	0.02	0.06	0.02	52.49
2022	SC	Construction and Mining	17	Off-Highway Trucks	750	15952235.07	127.90117	4.932111006	11.46818533	15964954.96	108.313306	4.18650617	10.39376225	172956.7684	172956.7684	142.5258185	1.48	0.06	0.13	0.05	92.31
2022	SC	Construction and Mining	17	Off-Highway Trucks	1000	11082881.5	136.8407989	3.154652561	6.971159519	11104737.63	128.0800982	2.863251709	6.442855007	88251.7062	88251.7062	65.36898443	3.10	0.07	0.16	0.07	125.83
2022	SC	Construction and Mining	17	Off-Highway Trucks	9999	16077967.8	169.0039262	3.477436046	8.260265905	16067747.88	158.9299434	3.102873766	7.628123214	64108.78853	64108.78853	42.32909647	5.27	0.11	0.26	0.10	250.63
2022	SC	Construction and Mining	18	Other Construction Equipment	50	1222587.019	16.0720546	1.249610657	2.780786015	1224421.483	15.55396416	1.140971431	2.493421256	188505.7534	188505.7534	396.2974806	0.17	0.01	0.03	0.01	6.50
2022	SC	Construction and Mining	18	Other Construction Equipment	120	3833426.227	52.64177817	3.871753909	4.823058906	3837420.381	47.21238052	3.322261156	4.189136672	308443.749	308443.749	699.2543702	0.34	0.03	0.03	0.02	12.44
2022	SC	Construction and Mining	18	Other Construction Equipment	175	2084745.336	23.97681945	1.283940707	1.926293491	2083593.145	18.83686857	0.982851042	1.534193289	90092.97168	90092.97168	217.6169207	0.53	0.03	0.04	0.03	23.13
2022	SC	Construction and Mining	18	Other Construction Equipment	250	2676514.062	25.08558505	0.96659594	1.749714341	2675612.86	20.28810521	0.764168546	1.456272445	80346.08202	80346.08202	195.2151789	0.62	0.02	0.04	0.02	33.30
2022	SC	Construction and Mining	18	Other Construction Equipment	500	9133922.636	64.84861763	2.419062362	4.874268095	9139100.247	53.77646565	2.020933138	4.230763161	166593.1687	166593.1687	379.2294868	0.78	0.03	0.06	0.03	54.86
2022	SC	Construction and Mining	18	Other Construction Equipment	750	3570191.313	25.95665868	0.817747153	1.734798561	3564825.015	21.7073946	0.729274908	1.577068884	39005.21901	39005.21901	78.40609643	1.33	0.04	0.09	0.04	91.39
2022	SC	Construction and Mining	18	Other Construction Equipment	1000	417759.4706	3.736609231	0.070261511	0.13628889	417835.8922	3.272959402	0.054105907	0.108905484	3286.487584	3286.487584	6.938872474	2.27	0.04	0.08	0.04	127.14
2022	SC	Construction and Mining	18	Other Construction Equipment	9999	257967.5211	3.999288962	0.110779392	0.203957178	257520.5485	2.571990288	0.052202351	0.106003408	1539.962122	1539.962122	3.200248834	5.19	0.14	0.26	0.13	167.23

**Table C.18 CARB Offroad 2011 output**  
Used to calculate NOx, PM, HC, and fuel consumption

CalendarYear	AirBasin	Equipment Class	EquipmentTypeID	Equipment Type	HorsepowerBin	lb/yr	ton/yr	ton/yr	ton/yr	lb/yr	ton/yr	ton/yr	ton/yr	hr/yr	hr/yr	Emissions per Equipment (lb/hr)				lb/hr	
						BaseBSFC	BaseNOx	BasePM	BaseHC	ScenBSFC	ScenNOx	ScenPM	ScenHC	BaseActivity	ScenActivity	Population	NOx	PM	HC	PM2.5	BSFC per equipment
2022	SC	Construction and Mining	19	Pavers	50	149671.6748	1.918133188	0.160401491	0.441352339	149802.8378	1.782123139	0.132895055	0.36365464	22792.18727	22792.18727	64.23330359	0.17	0.01	0.04	0.01	6.57
2022	SC	Construction and Mining	19	Pavers	120	1451270.748	17.83522479	1.273363042	1.560527308	1451425.703	16.01607164	1.085191929	1.349362287	120105.7987	120105.7987	312.0667999	0.30	0.02	0.03	0.02	12.08
2022	SC	Construction and Mining	19	Pavers	175	1971699.346	14.08171214	0.67695874	1.139596406	1971547.819	12.88752192	0.612304887	1.049893879	81658.16586	81658.16586	210.8993468	0.34	0.02	0.03	0.02	24.14
2022	SC	Construction and Mining	19	Pavers	250	1326660.981	7.42203087	0.21685691	0.464203443	1325564.867	7.559051018	0.217676432	0.461764801	40753.5525	40753.5525	90.99718008	0.37	0.01	0.02	0.01	32.53
2022	SC	Construction and Mining	19	Pavers	500	499766.8265	2.753363714	0.095969741	0.189223585	499798.5728	2.752834559	0.095945109	0.188547809	10144.04929	10144.04929	22.48165626	0.54	0.02	0.04	0.02	49.27
2022	SC	Construction and Mining	19	Pavers	750	57938.50322	0.045075188	0.001530519	0.007526353	57938.50322	0.045075188	0.001530519	0.007526353	506.7263071	506.7263071	1.07055506	0.18	0.01	0.03	0.01	114.34
2022	SC	Construction and Mining	20	Paving Equipment	50	186472.7367	1.952442087	0.096970295	0.246718039	186512.259	1.94838845	0.095619898	0.239890777	37267.53353	37267.53353	79.09367459	0.10	0.01	0.01	0.00	5.00
2022	SC	Construction and Mining	20	Paving Equipment	120	847115.8695	8.275517867	0.511614792	0.705810248	847019.8966	7.608993675	0.433836277	0.619560932	73141.98967	73141.98967	161.3938495	0.23	0.01	0.02	0.01	11.58
2022	SC	Construction and Mining	20	Paving Equipment	175	798060.023	5.696259378	0.281955668	0.47475507	798050.6772	4.984403395	0.243149048	0.422512909	41384.97886	41384.97886	88.17875883	0.28	0.01	0.02	0.01	19.28
2022	SC	Construction and Mining	20	Paving Equipment	250	418549.5633	3.170607372	0.115621474	0.2194576	418470.1814	2.799868655	0.104302066	0.203022116	14885.36278	14885.36278	32.06500321	0.43	0.02	0.03	0.01	28.11
2022	SC	Construction and Mining	20	Paving Equipment	500	590295.6747	3.173393833	0.111295687	0.23742674	590173.5809	3.335571016	0.128618326	0.260692144	13456.54911	13456.54911	28.85850289	0.47	0.02	0.04	0.02	43.86
2022	SC	Construction and Mining	20	Paving Equipment	750	280430.1862	1.483742144	0.032370631	0.103652088	280460.2326	1.481859944	0.032272422	0.102037714	3548.837519	3548.837519	6.947417362	0.84	0.02	0.06	0.02	79.03
2022	SC	Construction and Mining	20	Paving Equipment	1000	54736.25317	0.384854112	0.006338731	0.013706127	54736.25317	0.384854112	0.006338731	0.013706127	498.2194727	498.2194727	1.06883344	1.54	0.03	0.06	0.02	109.86
2022	SC	Construction and Mining	21	Rollers	50	3073536.744	35.37068608	2.295177565	5.676467507	3073657.322	34.21891139	2.073288206	5.057872973	561797.6017	561797.6017	1622.800744	0.13	0.01	0.02	0.01	5.47
2022	SC	Construction and Mining	21	Rollers	120	4807202.816	52.10335395	3.222767292	4.316685316	4804783.876	46.27076481	2.666607501	3.684336845	400124.2386	400124.2386	1210.224284	0.26	0.02	0.02	0.01	12.01
2022	SC	Construction and Mining	21	Rollers	175	4966383.249	28.82746736	1.346743992	2.274978893	4967774.56	25.58167567	1.174428609	2.026689003	250978.0759	250978.0759	699.7296769	0.23	0.01	0.02	0.01	19.79
2022	SC	Construction and Mining	21	Rollers	250	784904.1137	5.628888173	0.190791235	0.383634987	784776.9595	5.196982116	0.180565322	0.362205229	26643.30452	26643.30452	85.81590377	0.42	0.01	0.03	0.01	29.45
2022	SC	Construction and Mining	21	Rollers	500	496903.0198	3.602904417	0.15020473	0.273226263	496073.3733	3.6173756	0.142670983	0.2643413	10602.48234	10602.48234	35.20652462	0.68	0.03	0.05	0.03	46.79
2022	SC	Construction and Mining	21	Rollers	750	24137.8653	0.084145585	0.003581157	0.007084492	24137.8653	0.051351248	0.000692516	0.005490334	336.2777064	336.2777064	1.100203894	0.50	0.02	0.04	0.02	71.78
2022	SC	Construction and Mining	22	Rough Terrain	50	156498.4394	1.64972673	0.089151413	0.245903384	156469.335	1.707694469	0.100366743	0.275479586	20166.88853	20166.88853	73.7068651	0.16	0.01	0.02	0.01	7.76
2022	SC	Construction and Mining	22	Rough Terrain	120	12610824.75	83.05518179	3.111762606	5.380372994	12612296.52	79.3139056	2.766058279	4.953529952	885526.7672	885526.7672	3157.957927	0.19	0.01	0.01	0.01	14.24
2022	SC	Construction and Mining	22	Rough Terrain	175	2317517.976	9.493473415	0.346987022	0.682154985	2317472.035	9.785849854	0.356340832	0.68846935	121309.5026	121309.5026	422.5436663	0.16	0.01	0.01	0.01	19.10
2022	SC	Construction and Mining	22	Rough Terrain	250	190758.516	0.423805036	0.010767094	0.036329065	190344.5157	0.923442513	0.021204849	0.055920146	6187.223024	6187.223024	24.78075637	0.14	0.00	0.01	0.00	30.76
2022	SC	Construction and Mining	22	Rough Terrain	500	80621.95668	0.116728672	0.002203749	0.013850958	80583.53549	0.136642825	0.002181665	0.01381207	1478.075052	1478.075052	5.718636085	0.16	0.00	0.02	0.00	54.52
2022	SC	Construction and Mining	22	Rough Terrain	750	12634.78178	0.009965785	0.000345999	0.001963879	12634.78178	0.050831606	0.00036	0.003424906	137.0236749	137.0236749	0.635404009	0.15	0.01	0.03	0.00	92.21
2022	SC	Construction and Mining	23	Rubber Tired Dozers	50	134949.4997	2.477443335	0.328343419	0.911768198	136453.9513	1.682123678	0.136921011	0.384881633	20397.21688	20397.21688	21.47756683	0.24	0.03	0.09	0.03	6.69
2022	SC	Construction and Mining	23	Rubber Tired Dozers	120	647820.4859	16.61400043	1.464333642	1.771307495	646049.854	11.87922103	0.958171712	1.223301275	53900.36973	53900.36973	63.90885739	0.62	0.05	0.07	0.05	11.99
2022	SC	Construction and Mining	23	Rubber Tired Dozers	175	538655.3799	13.77725339	0.792080384	1.14066605	539221.3957	9.369403379	0.526587022	0.800248747	24734.17085	24734.17085	33.00211488	1.11	0.06	0.09	0.06	21.80
2022	SC	Construction and Mining	23	Rubber Tired Dozers	250	562209.9054	11.05804069	0.537765807	0.848226445	561517.6784	8.465237497	0.401778762	0.665982423	18246.49271	18246.49271	25.66831157	1.21	0.06	0.09	0.05	30.77
2022	SC	Construction and Mining	23	Rubber Tired Dozers	500	6438104.215	117.524382	5.471860727	9.187596856	6436129.462	91.53340094	4.186919015	7.47049245	123407.0443	123407.0443	171.2966915	1.90	0.09	0.15	0.08	52.15
2022	SC	Construction and Mining	23	Rubber Tired Dozers	750	756867.7149	15.25766131	0.562819322	0.957417276	756867.7149	13.88937224	0.495044035	0.8623608	8913.305532	8913.305532	10.47686187	3.42	0.13	0.21	0.12	84.91
2022	SC	Construction and Mining	24	Rubber Tired Loaders	50	427239.2835	5.905856841	0.50014641	1.357173956	427421.7427	5.483107546	0.40917081	1.124825152	69443.82846	69443.82846	80.80847697	0.17	0.01	0.04	0.01	6.15
2022	SC	Construction and Mining	24	Rubber Tired Loaders	120	10402896.05	140.5052041	10.79465525	13.99150259	10404181.76	119.1653175	8.428158627	11.50202201	920403.3671	920403.3671	1004.64593	0.31	0.02	0.03	0.02	11.30



**Table C.18 CARB Offroad 2011 output**  
Used to calculate NOx, PM, HC, and fuel consumption

CalendarYear	AirBasin	Equipment Class	EquipmentTypeID	Equipment Type	HorsepowerBin	lb/yr	ton/yr	ton/yr	ton/yr	lb/yr	ton/yr	ton/yr	ton/yr	hr/yr	hr/yr	Emissions per Equipment (lb/hr)					lb/hr
						BaseBSFC	BaseNOx	BasePM	BaseHC	ScenBSFC	ScenNOx	ScenPM	ScenHC	BaseActivity	ScenActivity	Population	NOx	PM	HC	PM2.5	BSFC per equipment
2022	SC	Construction and Mining	24	Rubber Tired Loaders	175	24668037.09	242.1713912	13.35686495	22.36332686	24665199.66	186.9965092	10.08489596	18.09981716	1241381.89	1241381.89	1316.41377	0.39	0.02	0.04	0.02	19.87
2022	SC	Construction and Mining	24	Rubber Tired Loaders	250	33998675.72	291.0211655	10.01101933	22.22818968	34016974.18	240.8888225	8.079987696	19.17620191	1249903.732	1249903.732	1170.084906	0.47	0.02	0.04	0.01	27.22
2022	SC	Construction and Mining	24	Rubber Tired Loaders	500	44239991.96	376.7779009	14.25603487	31.49379397	44352948.3	292.2111195	10.91056444	26.27676145	1053625.337	1053625.337	1087.092416	0.72	0.03	0.06	0.02	42.10
2022	SC	Construction and Mining	24	Rubber Tired Loaders	750	7926936.565	66.08219547	2.494242409	5.530296274	7949842.33	50.96350291	1.943970628	4.676937434	101477.6894	101477.6894	96.0965672	1.30	0.05	0.11	0.05	78.34
2022	SC	Construction and Mining	24	Rubber Tired Loaders	1000	2279978.136	35.86193196	0.937692931	1.755830672	2291506.499	24.84935928	0.511693592	1.093178031	20588.27705	20588.27705	17.47210313	3.48	0.09	0.17	0.08	111.30
2022	SC	Construction and Mining	24	Rubber Tired Loaders	9999	907198.3106	12.74442324	0.304276612	0.621373891	907198.3106	11.3554938	0.248392664	0.522390477	4522.323245	4522.323245	3.822022559	5.64	0.13	0.27	0.12	200.60
2022	SC	Construction and Mining	25	Scrapers	50	9786.276848	0.168854547	0.022380781	0.066677669	9786.276848	0.168750038	0.022378903	0.066624753	1381.575086	1381.575086	3.777479155	0.24	0.03	0.10	0.03	7.08
2022	SC	Construction and Mining	25	Scrapers	120	446216.5986	8.622182403	0.665263524	0.755092801	446216.5986	8.448012697	0.646234478	0.736116186	29184.30976	29184.30976	54.50362781	0.59	0.05	0.05	0.04	15.29
2022	SC	Construction and Mining	25	Scrapers	175	4713157.661	69.2961825	3.779171186	5.718920963	4714663.893	53.51987063	2.842942385	4.497399364	158026.3983	158026.3983	350.2262817	0.88	0.05	0.07	0.04	29.83
2022	SC	Construction and Mining	25	Scrapers	250	5418369.506	93.55032943	4.30477519	6.976011819	5424616.965	60.13551768	2.622412148	4.624689184	137004.8437	137004.8437	339.973124	1.37	0.06	0.10	0.06	39.59
2022	SC	Construction and Mining	25	Scrapers	500	47491504.65	530.6544477	21.66211941	39.08450711	47519578.04	409.8323467	15.9984284	31.02585279	702095.0521	702095.0521	1494.262826	1.51	0.06	0.11	0.06	67.68
2022	SC	Construction and Mining	25	Scrapers	750	21680124.9	196.3598949	7.713845088	14.58949	21660001.45	161.3059075	5.861123558	12.06569534	216914.678	216914.678	425.7758648	1.81	0.07	0.13	0.07	99.85
2022	SC	Construction and Mining	25	Scrapers	1000	339704.0577	13.66420518	0.637075201	0.98969985	339704.0577	13.66420518	0.637075201	0.98969985	2019.778597	2019.778597	7.015318431	13.53	0.63	0.98	0.58	168.19
2022	SC	Construction and Mining	25	Scrapers	9999	1234745.667	19.14814115	0.587008173	1.00775659	1234745.667	18.79000031	0.571025033	0.966473828	3548.638423	3548.638423	7.015318431	10.79	0.33	0.57	0.30	347.95
2022	SC	Construction and Mining	26	Skid Steer Loaders	50	2324492.64	21.19409702	0.582857372	1.779366001	2324914.431	21.45951333	0.64385207	1.885592882	354063.0771	354063.0771	1124.245324	0.12	0.00	0.01	0.00	6.57
2022	SC	Construction and Mining	26	Skid Steer Loaders	120	12360995.45	78.83336148	2.804389218	4.893137314	12355084.85	81.17565299	3.016687863	5.029212263	1294159.193	1294159.193	3628.018251	0.12	0.00	0.01	0.00	9.55
2022	SC	Construction and Mining	26	Skid Steer Loaders	175	83567.57199	0.389599865	0.016103898	0.03075117	83426.57426	0.395261114	0.017920081	0.032400621	4067.386173	4067.386173	15.04939204	0.19	0.01	0.02	0.01	20.51
2022	SC	Construction and Mining	26	Skid Steer Loaders	250	63778.76379	0.176285207	0.005352311	0.014255397	63723.97075	0.260203464	0.00790352	0.017105574	2404.687477	2404.687477	8.360773355	0.15	0.00	0.01	0.00	26.50
2022	SC	Construction and Mining	26	Skid Steer Loaders	500	17625.7444	0.013843084	0.000477339	0.002598979	17625.7444	0.032055411	0.000494276	0.003549512	483.7417956	483.7417956	1.672154671	0.06	0.00	0.01	0.00	36.44
2022	SC	Construction and Mining	26	Skid Steer Loaders	750	18592.83742	0.136693837	0.005943611	0.008193493	18592.83742	0.136693837	0.005943611	0.008193493	259.3977744	259.3977744	0.55738489	1.05	0.05	0.06	0.04	71.68
2022	SC	Construction and Mining	26	Skid Steer Loaders	1000	30340.17325	0.208120898	0.001679857	0.004536532	30340.17325	0.425516773	0.014171999	0.023874161	224.3440212	224.3440212	1.114769781	1.86	0.01	0.04	0.01	135.24
2022	SC	Construction and Mining	27	Surfacing Equipment	50	21547.86164	0.229329723	0.010012937	0.023461799	21548.54748	0.22302218	0.008805832	0.020160931	4810.18806	4810.18806	19.72086932	0.10	0.00	0.01	0.00	4.48
2022	SC	Construction and Mining	27	Surfacing Equipment	120	169146.3798	1.665580372	0.092619282	0.125754228	168955.9752	1.643642711	0.088372411	0.122517419	17160.96774	17160.96774	63.20791449	0.19	0.01	0.01	0.01	9.85
2022	SC	Construction and Mining	27	Surfacing Equipment	175	86802.84988	0.942899046	0.046400422	0.068906044	86781.46272	0.708520871	0.034141837	0.051712866	5227.184713	5227.184713	21.23785927	0.36	0.02	0.03	0.02	16.60
2022	SC	Construction and Mining	27	Surfacing Equipment	250	185107.4818	1.510054868	0.04534884	0.087486038	185102.6416	1.467594849	0.046892654	0.089087141	7662.953706	7662.953706	31.8567889	0.39	0.01	0.02	0.01	24.16
2022	SC	Construction and Mining	27	Surfacing Equipment	500	586326.8207	2.894058484	0.106952891	0.201839196	586267.7988	2.751160525	0.10148029	0.19312233	14669.56081	14669.56081	52.58898486	0.39	0.01	0.03	0.01	39.96
2022	SC	Construction and Mining	27	Surfacing Equipment	750	539915.9928	2.369444352	0.08893645	0.160662339	539915.9928	2.205143651	0.085125688	0.154606551	7961.005113	7961.005113	26.29449243	0.60	0.02	0.04	0.02	67.82
2022	SC	Construction and Mining	27	Surfacing Equipment	1000	87727.57709	1.176371732	0.027061477	0.048833154	87727.57709	0.866322695	0.017118157	0.031852777	975.6070482	975.6070482	3.539643212	2.41	0.06	0.10	0.05	89.92
2022	SC	Construction and Mining	27	Surfacing Equipment	9999	30921.11519	0.211195009	0.002969426	0.006407658	30921.11519	0.210701574	0.002954643	0.006261501	248.831042	248.831042	1.011326632	1.70	0.02	0.05	0.02	124.27
2022	SC	Construction and Mining	28	Tractors/Loaders/Backhoes	50	4593410.579	52.29569146	3.005896356	7.864930375	4591544.096	50.99967287	2.755213816	7.194245343	813273.5913	813273.5913	1573.29629	0.13	0.01	0.02	0.01	5.65
2022	SC	Construction and Mining	28	Tractors/Loaders/Backhoes	120	74009176.57	638.7858651	37.5214911	54.12059334	74009140.14	583.6938276	31.39216571	47.4173811	6567723.871	6567723.871	10682.51735	0.19	0.01	0.02	0.01	11.27
2022	SC	Construction and Mining	28	Tractors/Loaders/Backhoes	175	12807831.22	78.20885141	3.995054258	7.185071271	12795907.46	67.97635545	3.458228816	6.408467978	663337.3919	663337.3919	1195.047356	0.24	0.01	0.02	0.01	19.29
2022	SC	Construction and Mining	28	Tractors/Loaders/Backhoes	250	7434054.334	48.42407692	1.759173949	3.818136867	7432741.684	43.54427423	1.502448249	3.463989953	270228.9403	270228.9403	478.0189426	0.36	0.01	0.03	0.01	27.51



**Table C.18 CARB Offroad 2011 output**  
Used to calculate NOx, PM, HC, and fuel consumption

CalendarYear	AirBasin	Equipment Class	Equipment TypeID	Equipment Type	HorsepowerBin	lb/yr	ton/yr	ton/yr	ton/yr	lb/yr	ton/yr	ton/yr	ton/yr	hr/yr	hr/yr	Population	Emissions per Equipment (lb/hr)				lb/hr
						BaseBSFC	BaseNOx	BasePM	BaseHC	ScenBSFC	ScenNOx	ScenPM	ScenHC	BaseActivity	ScenActivity		NOx	PM	HC	PM2.5	BSFC per equipment
2022	SC	Construction and Mining	28	Tractors/Loaders/Backhoes	500	9967727.278	53.79949881	1.990736412	4.690411038	9947522.025	43.18915812	1.591475327	3.981859111	231128.6807	231128.6807	431.4230594	0.47	0.02	0.04	0.02	43.04
2022	SC	Construction and Mining	28	Tractors/Loaders/Backhoes	750	1416188.212	10.08063226	0.385740427	0.809000572	1415716.257	10.5527134	0.405850512	0.825785573	18429.36158	18429.36158	30.15027734	1.09	0.04	0.09	0.04	76.82
2022	SC	Construction and Mining	28	Tractors/Loaders/Backhoes	1000	239020.8069	2.085573112	0.035686233	0.074831104	239020.8069	2.082354946	0.035589824	0.073877875	2009.859321	2009.859321	2.740934304	2.08	0.04	0.07	0.03	118.92
2022	SC	Construction and Mining	28	Tractors/Loaders/Backhoes	9999	3356746.706	34.16497314	0.703636763	1.563586949	3356746.706	32.23424431	0.615034547	1.387067446	12357.08854	12357.08854	20.28291385	5.53	0.11	0.25	0.10	271.65
2022	SC	Construction and Mining	29	Trenchers	50	1628577.211	19.11900836	1.290375954	2.844218877	1627964.164	18.69570686	1.206152682	2.614534145	198777.8481	198777.8481	515.937966	0.19	0.01	0.03	0.01	8.19
2022	SC	Construction and Mining	29	Trenchers	120	1181764.996	18.53041005	1.358821334	1.687545045	1180334.239	17.29935813	1.225742003	1.539204641	77462.40921	77462.40921	239.2076024	0.48	0.04	0.04	0.03	15.24
2022	SC	Construction and Mining	29	Trenchers	175	240923.4783	3.236118576	0.166823331	0.253923234	240915.0878	2.996619857	0.154430807	0.238685973	9163.976954	9163.976954	31.65982973	0.71	0.04	0.06	0.03	26.29
2022	SC	Construction and Mining	29	Trenchers	250	472787.4892	5.527179395	0.22796736	0.395140212	472958.9896	5.452579024	0.227067395	0.391692044	11697.02376	11697.02376	37.52276116	0.95	0.04	0.07	0.04	40.43
2022	SC	Construction and Mining	29	Trenchers	500	795492.9239	5.621652896	0.230541345	0.432180358	795486.1659	5.302259731	0.224512636	0.419713816	12069.10286	12069.10286	34.0050023	0.93	0.04	0.07	0.04	65.91
2022	SC	Construction and Mining	29	Trenchers	750	359301.7148	0.323715426	0.009582003	0.050485113	359301.7148	0.323715426	0.009582003	0.050485113	3131.414493	3131.414493	7.035517718	0.21	0.01	0.03	0.01	114.74
2022	SC	Construction and Mining	29	Trenchers	1000	21244.16763	0.852346455	0.039604283	0.061614358	21244.16763	0.852346455	0.039604283	0.061614358	133.9488959	133.9488959	0.586293143	12.73	0.59	0.92	0.54	158.60
2022	SC	Construction and Mining	36	Sweepers/Scrubbers	50	1417688.458	17.66626229	1.358464568	3.392993855	1417688.458	17.18202052	1.280110126	3.188075583	214099.2281	214099.2281	302.8390223	0.17	0.01	0.03	0.01	6.62
2022	SC	Construction and Mining	36	Sweepers/Scrubbers	120	2191084.527	26.33331291	1.953179009	2.487688299	2191084.527	22.75134403	1.52060885	2.016780117	168294.2553	168294.2553	246.559204	0.31	0.02	0.03	0.02	13.02
2022	SC	Construction and Mining	36	Sweepers/Scrubbers	175	546544.0037	7.88559453	0.377623423	0.638717383	546544.0037	4.917615713	0.236859334	0.435000495	20450.81887	20450.81887	28.40790829	0.77	0.04	0.06	0.03	26.72
2022	SC	Construction and Mining	36	Sweepers/Scrubbers	250	291285.9253	1.454226757	0.043931489	0.115316195	291285.9253	1.409832051	0.043824985	0.110641892	8557.504807	8557.504807	11.79196193	0.34	0.01	0.03	0.01	34.04
2022	SC	Construction and Mining	36	Sweepers/Scrubbers	500	81264.96341	1.330320584	0.058104107	0.090041195	81264.96341	1.330320584	0.058104107	0.090041195	1606.675553	1606.675553	2.143993078	1.66	0.07	0.11	0.07	50.58
2022	SC	Construction and Mining	36	Sweepers/Scrubbers	1000	56952.63552	0.385903732	0.003010496	0.007103535	56952.63552	0.385903732	0.003010496	0.007103535	401.6688882	401.6688882	0.53599827	1.92	0.01	0.04	0.01	141.79
2023	SC	Construction and Mining	11	Bore/Drill Rigs	50	137463.7195	1.56427951	0.086764161	0.191318119	137413.152	1.541226394	0.082716678	0.183397975	16835.14422	16835.14422	46.76970201	0.19	0.01	0.02	0.01	8.16
2023	SC	Construction and Mining	11	Bore/Drill Rigs	120	859374.5497	6.597407464	0.301978605	0.452155827	857787.6699	6.214211778	0.267673002	0.408051581	57824.22135	57824.22135	143.262982	0.23	0.01	0.02	0.01	14.83
2023	SC	Construction and Mining	11	Bore/Drill Rigs	175	1000971.607	4.077054246	0.187893718	0.367383665	1001364.151	3.190163452	0.141444719	0.306445037	35977.56563	35977.56563	112.2472848	0.23	0.01	0.02	0.01	27.83
2023	SC	Construction and Mining	11	Bore/Drill Rigs	250	1416866.538	5.284187096	0.171414222	0.432367961	1414892.099	4.469705779	0.14471083	0.389629671	37114.14835	37114.14835	111.7549722	0.28	0.01	0.02	0.01	38.12
2023	SC	Construction and Mining	11	Bore/Drill Rigs	500	1591184.965	5.432319272	0.173231806	0.453322114	1578927.441	4.330484889	0.145802986	0.402902149	24942.72222	24942.72222	78.27771179	0.44	0.01	0.04	0.01	63.30
2023	SC	Construction and Mining	11	Bore/Drill Rigs	750	2160781.103	4.978687633	0.178048181	0.499517396	2162317.437	4.584775272	0.168717511	0.479988721	18873.40005	18873.40005	38.89269957	0.53	0.02	0.05	0.02	114.57
2023	SC	Construction and Mining	11	Bore/Drill Rigs	1000	170367.1888	1.160489705	0.009188398	0.023057286	170367.1888	1.157808603	0.009108078	0.022263136	1005.309975	1005.309975	1.476937958	2.31	0.02	0.05	0.02	169.47
2023	SC	Construction and Mining	11	Bore/Drill Rigs	9999	577235.2936	7.49899408	0.190238705	0.287975298	577235.2936	7.49899408	0.190238705	0.287975298	1173.767322	1173.767322	1.476937958	12.78	0.32	0.49	0.30	491.78
2023	SC	Construction and Mining	12	Cranes	50	45484.54022	0.765560759	0.082319277	0.229210544	45484.54022	0.737524585	0.075666507	0.210624661	9651.448136	9651.448136	21.6639213	0.16	0.02	0.05	0.02	4.71
2023	SC	Construction and Mining	12	Cranes	120	1085975.068	21.29579147	1.550939616	2.073623644	1085771.742	15.97030993	1.057182799	1.49385657	115985.0711	115985.0711	261.204994	0.37	0.03	0.04	0.02	9.36
2023	SC	Construction and Mining	12	Cranes	175	2863715.76	47.73456566	2.623274723	3.908460861	2863853.311	36.12098378	1.913507963	2.992508601	182174.3603	182174.3603	391.807491	0.52	0.03	0.04	0.03	15.72
2023	SC	Construction and Mining	12	Cranes	250	4837995.278	79.31103783	3.669827146	5.911808595	4838055.08	46.83640991	1.955905774	3.56502509	210453.8128	210453.8128	440.087087	0.75	0.03	0.06	0.03	22.99
2023	SC	Construction and Mining	12	Cranes	500	7412491.723	85.73594897	3.653848127	6.313249866	7415731.383	55.88969716	2.260576324	4.347386737	208567.6004	208567.6004	422.1369808	0.82	0.04	0.06	0.03	35.56
2023	SC	Construction and Mining	12	Cranes	750	1950493.609	16.13509396	0.66404605	1.18510529	1949831.024	12.18447491	0.494380507	0.947445206	32637.86514	32637.86514	61.89691801	0.99	0.04	0.07	0.04	59.74
2023	SC	Construction and Mining	12	Cranes	1000	457131.1551	10.77195728	0.44537985	0.692303444	457131.1551	10.24777754	0.453899559	0.700095322	4639.658482	4639.658482	9.284537701	4.64	0.19	0.30	0.18	98.53
2023	SC	Construction and Mining	12	Cranes	9999	35216.68705	0.253711222	0.006685034	0.018413924	35216.68705	0.253711222	0.006685034	0.018413924	323.3716561	323.3716561	0.61896918	1.57	0.04	0.11	0.04	108.90

**Table C.18 CARB Offroad 2011 output**  
Used to calculate NOx, PM, HC, and fuel consumption

CalendarYear	AirBasin	Equipment Class	Equipment TypeID	Equipment Type	HorsepowerBin	lb/yr	ton/yr	ton/yr	ton/yr	lb/yr	ton/yr	ton/yr	ton/yr	hr/yr	hr/yr	Emissions per Equipment (lb/hr)					lb/hr
						BaseBSFC	BaseNOx	BasePM	BaseHC	ScenBSFC	ScenNOx	ScenPM	ScenHC	BaseActivity	ScenActivity	Population	NOx	PM	HC	PM2.5	BSFC per equipment
2023	SC	Construction and Mining	13	Crawler Tractors	50	138721.8362	2.252568188	0.248494966	0.727963643	138753.4929	2.029652576	0.200561008	0.589898366	18968.8461	18968.8461	54.93672995	0.24	0.03	0.08	0.02	7.31
2023	SC	Construction and Mining	13	Crawler Tractors	120	6144573.916	103.2019222	8.608300746	10.38549464	6134667.727	86.98958893	6.810175809	8.422578303	444945.3061	444945.3061	945.4611225	0.46	0.04	0.05	0.04	13.79
2023	SC	Construction and Mining	13	Crawler Tractors	175	6685184.78	88.08935211	5.028051711	7.436220907	6683849.697	66.8907889	3.720205484	5.762348528	284179.6827	284179.6827	618.5875793	0.62	0.04	0.05	0.03	23.52
2023	SC	Construction and Mining	13	Crawler Tractors	250	6723642.584	77.3250444	3.082212545	5.456413873	6719702.858	64.38929617	2.4970757	4.612224545	210697.4708	210697.4708	452.1292875	0.73	0.03	0.05	0.03	31.89
2023	SC	Construction and Mining	13	Crawler Tractors	500	18006518.42	163.7542376	6.755782863	12.61800064	18041439.21	133.4671118	5.480407739	10.71481275	334688.4051	334688.4051	726.8129373	0.98	0.04	0.08	0.04	53.91
2023	SC	Construction and Mining	13	Crawler Tractors	750	7036848.051	55.09033335	2.086805128	4.146119764	7026699.388	39.35676471	1.46379795	3.199269005	78240.4948	78240.4948	148.8785382	1.41	0.05	0.11	0.05	89.81
2023	SC	Construction and Mining	13	Crawler Tractors	1000	928590.1109	15.87141782	0.422803765	0.77329242	928183.2938	13.25201013	0.328900813	0.616005722	7097.666972	7097.666972	13.18481519	4.47	0.12	0.22	0.11	130.77
2023	SC	Construction and Mining	13	Crawler Tractors	9999	492109.171	8.678316299	0.221324823	0.39776967	492109.171	8.678316299	0.221324823	0.39776967	2131.804671	2131.804671	3.296203797	8.14	0.21	0.37	0.19	230.84
2023	SC	Construction and Mining	14	Excavators	50	5550955.929	53.95567615	2.10389303	5.621638702	5549440.656	53.81344638	2.087799134	5.571149798	995362.8362	995362.8362	1345.528761	0.11	0.00	0.01	0.00	5.58
2023	SC	Construction and Mining	14	Excavators	120	7211447.156	54.78179995	2.820550121	4.491584525	7209722.306	52.09342888	2.543540317	4.160959508	635624.4355	635624.4355	973.2088912	0.17	0.01	0.01	0.01	11.34
2023	SC	Construction and Mining	14	Excavators	175	15188843.54	73.83386521	3.607776607	7.277353532	15185751.49	66.67309744	3.263599501	6.713319181	741555.7941	741555.7941	1236.476492	0.20	0.01	0.02	0.01	20.48
2023	SC	Construction and Mining	14	Excavators	250	19313936.14	71.91770368	2.366954797	7.093481833	19300756.68	70.08850714	2.244499887	6.799834169	630110.8609	630110.8609	1062.984244	0.23	0.01	0.02	0.01	30.63
2023	SC	Construction and Mining	14	Excavators	500	31995517.86	91.59332325	3.169411328	10.29402789	31995656.58	86.22428943	2.916627838	9.732930052	697828.0942	697828.0942	1081.159623	0.26	0.01	0.03	0.01	45.85
2023	SC	Construction and Mining	14	Excavators	750	2906278.965	11.47334737	0.423902518	1.121389628	2905280.217	10.18337802	0.380024196	1.045203424	36124.58687	36124.58687	55.07690386	0.64	0.02	0.06	0.02	80.42
2023	SC	Construction and Mining	14	Excavators	1000	323980.8001	2.311176709	0.026495856	0.081396905	323968.766	2.292323998	0.023303881	0.073025954	2762.826925	2762.826925	4.406152309	1.67	0.02	0.06	0.02	117.26
2023	SC	Construction and Mining	14	Excavators	9999	634127.6499	4.436390084	0.044429148	0.137015974	634127.6499	4.431864712	0.044293577	0.135675548	2911.212108	2911.212108	3.85538327	3.05	0.03	0.09	0.03	217.82
2023	SC	Construction and Mining	15	Graders	50	36706.27932	0.615676757	0.073293549	0.210307124	36772.07292	0.543302094	0.057951876	0.16980143	5981.882841	5981.882841	17.16083084	0.21	0.02	0.07	0.02	6.15
2023	SC	Construction and Mining	15	Graders	120	984172.1923	22.73699077	1.824846035	2.3878434	986633.9028	17.11061197	1.298865795	1.771332969	72713.16777	72713.16777	182.6798122	0.63	0.05	0.07	0.05	13.57
2023	SC	Construction and Mining	15	Graders	175	9102721.615	142.7789224	7.979799439	12.31227563	9124833.744	95.93403834	5.281731689	8.711784772	405688.147	405688.147	854.7200911	0.70	0.04	0.06	0.04	22.49
2023	SC	Construction and Mining	15	Graders	250	15877015.74	193.0247292	6.347193603	12.8180015	15860504.52	163.2765032	5.290038297	11.12039436	515402.9411	515402.9411	678.6831811	0.75	0.02	0.05	0.02	30.77
2023	SC	Construction and Mining	15	Graders	500	4538341.548	38.67216246	1.5075319	3.601546514	4538285.104	36.94555371	1.435274837	3.484133782	103429.429	103429.429	126.7687182	0.75	0.03	0.07	0.03	43.88
2023	SC	Construction and Mining	15	Graders	1000	44040.41502	0.319046997	0.002946134	0.011605115	44040.41502	0.319046997	0.002946134	0.011605115	368.8651566	368.8651566	0.553575189	1.73	0.02	0.06	0.01	119.39
2023	SC	Construction and Mining	15	Graders	9999	620401.0938	12.72340299	0.398565175	0.775480983	620401.0938	12.72340299	0.398565175	0.775480983	2079.356253	2079.356253	2.767875943	12.24	0.38	0.75	0.35	298.36
2023	SC	Construction and Mining	16	Off-Highway Tractors	50	2302639.836	27.56137195	1.876460873	4.890808589	2297632.946	24.83447052	1.264492505	3.378492763	343602.1154	343602.1154	515.3942005	0.16	0.01	0.03	0.01	6.69
2023	SC	Construction and Mining	16	Off-Highway Tractors	120	2932017.716	32.7194799	2.282440784	2.959634569	2934752.113	27.05290029	1.635431686	2.284681892	244285.5358	244285.5358	374.7334018	0.27	0.02	0.02	0.02	12.01
2023	SC	Construction and Mining	16	Off-Highway Tractors	175	2499413.895	15.46405196	0.765517583	1.418393201	2499769.628	13.37371226	0.639739519	1.244716113	98744.61858	98744.61858	142.2900743	0.31	0.02	0.03	0.01	25.32
2023	SC	Construction and Mining	16	Off-Highway Tractors	250	2098269.64	11.51658111	0.437745451	1.047851058	2097415.602	9.420056861	0.334639826	0.89282413	61524.94687	61524.94687	92.86871263	0.37	0.01	0.03	0.01	34.09
2023	SC	Construction and Mining	16	Off-Highway Tractors	500	5892657.249	21.56422338	0.812167047	2.25494322	5889857.857	16.39514711	0.568839599	1.916042474	110770.2446	110770.2446	159.6690147	0.39	0.01	0.04	0.01	53.17
2023	SC	Construction and Mining	16	Off-Highway Tractors	750	1485998.717	6.951015427	0.264486572	0.683143474	1485773.902	5.752396518	0.226765464	0.619467889	16212.55096	16212.55096	23.35295113	0.86	0.03	0.08	0.03	91.64
2023	SC	Construction and Mining	16	Off-Highway Tractors	1000	42145.29847	1.553504762	0.079038575	0.108605126	42145.29847	0.309988776	0.008476729	0.018786603	263.690759	263.690759	0.543091887	11.78	0.60	0.82	0.55	159.83
2023	SC	Construction and Mining	16	Off-Highway Tractors	9999	341989.6785	4.8167984	0.136890179	0.312656585	347354.1772	3.924611884	0.105514244	0.237376851	1224.354166	1224.354166	2.172367547	7.87	0.22	0.51	0.21	283.70
2023	SC	Construction and Mining	17	Off-Highway Trucks	50	220559.0624	2.632060976	0.166920329	0.431855853	221990.7511	2.54089271	0.144944208	0.382691013	49917.54773	49917.54773	30.67312512	0.11	0.01	0.02	0.01	4.45
2023	SC	Construction and Mining	17	Off-Highway Trucks	120	269508.6015	3.14113981	0.224828063	0.3239201	269452.9534	2.658362194	0.155720451	0.266527985	22404.38581	22404.38581	17.22000007	0.28	0.02	0.03	0.02	12.03

**Table C.18 CARB Offroad 2011 output**  
Used to calculate NOx, PM, HC, and fuel consumption

CalendarYear	AirBasin	Equipment Class	Equipment TypeID	Equipment Type	HorsepowerBin	lb/yr	ton/yr	ton/yr	ton/yr	lb/yr	ton/yr	ton/yr	ton/yr	hr/yr	hr/yr	Emissions per Equipment (lb/hr)					lb/hr
						BaseBSFC	BaseNOx	BasePM	BaseHC	ScenBSFC	ScenNOx	ScenPM	ScenHC	BaseActivity	ScenActivity	Population	NOx	PM	HC	PM2.5	BSFC per equipment
2023	SC	Construction and Mining	17	Off-Highway Trucks	175	5223226.955	29.11972521	1.410553224	3.271090827	5217968.452	26.47215944	1.269437568	3.065226552	235189.0196	235189.0196	164.6662506	0.25	0.01	0.03	0.01	22.19
2023	SC	Construction and Mining	17	Off-Highway Trucks	250	10706461.15	68.45350228	2.813062727	6.85061042	10707234.1	47.07592706	1.907570999	5.529678996	364043.9697	364043.9697	281.9775011	0.38	0.02	0.04	0.01	29.41
2023	SC	Construction and Mining	17	Off-Highway Trucks	500	45411406.99	242.4335479	8.885772899	24.49414802	45377582.86	179.3543747	6.485275362	20.93295313	863872.1232	863872.1232	626.3775024	0.56	0.02	0.06	0.02	52.53
2023	SC	Construction and Mining	17	Off-Highway Trucks	750	16211502.61	119.4492076	4.516882523	11.17906286	16211300.71	105.8379849	4.094348515	10.53608962	175703.6722	175703.6722	143.1412506	1.36	0.05	0.13	0.05	92.27
2023	SC	Construction and Mining	17	Off-Highway Trucks	1000	11267422.37	130.9396573	2.915606561	6.647405656	11293372.55	120.001352	2.502414897	5.97970584	89653.32202	89653.32202	65.65125025	2.92	0.07	0.15	0.06	125.97
2023	SC	Construction and Mining	17	Off-Highway Trucks	9999	16343708.03	159.8216746	2.997371637	7.513108704	16333101.63	152.4806068	2.743631016	7.085600359	65126.96592	65126.96592	42.51187516	4.91	0.09	0.23	0.08	250.79
2023	SC	Construction and Mining	18	Other Construction Equipment	50	1242272.24	15.85129777	1.186535112	2.6908618	1244235.502	15.3120463	1.071492826	2.385205385	191499.6065	191499.6065	398.0087086	0.17	0.01	0.03	0.01	6.50
2023	SC	Construction and Mining	18	Other Construction Equipment	120	3892650.554	49.65385526	3.558387793	4.524142191	3895660.641	44.3539553	3.029158508	3.923944663	313342.4604	313342.4604	702.2737779	0.32	0.02	0.03	0.02	12.43
2023	SC	Construction and Mining	18	Other Construction Equipment	175	2117470.587	23.01665968	1.23454711	1.882924384	2116438.653	17.24338185	0.897666214	1.444358074	91523.83053	91523.83053	218.5565991	0.50	0.03	0.04	0.02	23.12
2023	SC	Construction and Mining	18	Other Construction Equipment	250	2719226.459	23.90593188	0.937205108	1.725234587	2717903.931	18.28087307	0.685192202	1.363623627	81622.14052	81622.14052	196.0581256	0.59	0.02	0.04	0.02	33.30
2023	SC	Construction and Mining	18	Other Construction Equipment	500	9286652.469	58.68244418	2.183773658	4.597711816	9287884.38	50.11772754	1.902668913	4.122627399	169239.0056	169239.0056	380.8670145	0.69	0.03	0.05	0.02	54.88
2023	SC	Construction and Mining	18	Other Construction Equipment	750	3631960.7	24.24699317	0.774768942	1.699521308	3625121.827	19.60582484	0.646172569	1.485548706	39624.70088	39624.70088	78.74465702	1.22	0.04	0.09	0.04	91.49
2023	SC	Construction and Mining	18	Other Construction Equipment	1000	424689.8502	3.809417966	0.071908773	0.142224524	424770.2867	3.337557688	0.055379594	0.114739581	3338.683662	3338.683662	6.963813206	2.28	0.04	0.09	0.04	127.23
2023	SC	Construction and Mining	18	Other Construction Equipment	9999	261979.174	4.09408416	0.113955253	0.211427459	261595.6938	2.623693025	0.053620317	0.111034392	1564.419839	1564.419839	3.214067633	5.23	0.15	0.27	0.13	167.22
2023	SC	Construction and Mining	19	Pavers	50	152044.0488	1.860821222	0.143445018	0.399110713	152171.3667	1.754700992	0.12224703	0.340783185	23154.17336	23154.17336	64.5106655	0.16	0.01	0.03	0.01	6.57
2023	SC	Construction and Mining	19	Pavers	120	1475122.321	16.90503145	1.181829886	1.478271519	1474158.975	15.23577512	1.005621185	1.283274629	122013.322	122013.322	313.4143165	0.28	0.02	0.02	0.02	12.08
2023	SC	Construction and Mining	19	Pavers	175	2002181.676	12.72152066	0.602957103	1.060997361	2002681.441	11.74425408	0.552428632	0.989441954	82955.06291	82955.06291	211.8100184	0.31	0.01	0.03	0.01	24.14
2023	SC	Construction and Mining	19	Pavers	250	1348733.025	6.284398782	0.185879852	0.4309901	1347282.677	6.509948156	0.190052398	0.433072322	41400.80145	41400.80145	91.39010946	0.30	0.01	0.02	0.01	32.54
2023	SC	Construction and Mining	19	Pavers	500	507702.9409	2.736440521	0.095248084	0.194430303	507735.946	2.735902203	0.095223607	0.193757143	10305.15733	10305.15733	22.57873292	0.53	0.02	0.04	0.02	49.27
2023	SC	Construction and Mining	19	Pavers	750	58858.68399	0.045914227	0.001565895	0.007937716	58858.68399	0.045914227	0.001565895	0.007937716	514.7741471	514.7741471	1.075177758	0.18	0.01	0.03	0.01	114.34
2023	SC	Construction and Mining	20	Paving Equipment	50	189630.7383	1.903070959	0.081845698	0.215547535	189639.784	1.947520315	0.089298528	0.230781121	37859.41744	37859.41744	79.43520416	0.10	0.00	0.01	0.00	5.01
2023	SC	Construction and Mining	20	Paving Equipment	120	860016.5911	7.572790908	0.431247151	0.630457925	860435.0366	7.311065277	0.392918641	0.592867113	74303.63259	74303.63259	162.0907544	0.20	0.01	0.02	0.01	11.58
2023	SC	Construction and Mining	20	Paving Equipment	175	810732.3045	5.387505135	0.266012986	0.46386437	810722.5836	4.670944028	0.227146217	0.41113846	42042.25613	42042.25613	88.55951815	0.26	0.01	0.02	0.01	19.28
2023	SC	Construction and Mining	20	Paving Equipment	250	424924.1755	2.834392428	0.107217734	0.209520852	425116.3177	2.406243097	0.089521425	0.184593744	15121.77249	15121.77249	32.20346115	0.37	0.01	0.03	0.01	28.11
2023	SC	Construction and Mining	20	Paving Equipment	500	599669.3019	3.236229028	0.114433124	0.249888988	599622.9944	2.831955415	0.104256811	0.232532203	13670.26636	13670.26636	28.98311503	0.47	0.02	0.04	0.02	43.86
2023	SC	Construction and Mining	20	Paving Equipment	750	283916.316	1.102452027	0.032123272	0.09225307	283868.4685	1.097436662	0.031989136	0.089885633	3605.200246	3605.200246	6.977416581	0.61	0.02	0.05	0.02	78.74
2023	SC	Construction and Mining	20	Paving Equipment	1000	55605.57572	0.393020076	0.006541841	0.014684248	55605.57572	0.393020076	0.006541841	0.014684248	506.132207	506.132207	1.073448705	1.55	0.03	0.06	0.02	109.86
2023	SC	Construction and Mining	21	Rollers	50	3123127.701	34.33786234	2.041644777	5.294961473	3123486.903	33.02221194	1.781408401	4.598066778	570720.0853	570720.0853	1629.808061	0.12	0.01	0.02	0.01	5.47
2023	SC	Construction and Mining	21	Rollers	120	4883685.722	49.09283651	2.925608963	4.02922617	4881167.512	43.85228145	2.412704502	3.459928952	406479.0218	406479.0218	1215.45008	0.24	0.01	0.02	0.01	12.01

**Table C.18 CARB Offroad 2011 output**  
Used to calculate NOx, PM, HC, and fuel consumption

CalendarYear	AirBasin	Equipment Class	Equipment TypeID	Equipment Type	HorsepowerBin	lb/yr	ton/yr	ton/yr	ton/yr	lb/yr	ton/yr	ton/yr	ton/yr	hr/yr	hr/yr	Emissions per Equipment (lb/hr)					lb/hr
						BaseBSFC	BaseNOx	BasePM	BaseHC	ScenBSFC	ScenNOx	ScenPM	ScenHC	BaseActivity	ScenActivity	Population	NOx	PM	HC	PM2.5	BSFC per equipment
2023	SC	Construction and Mining	21	Rollers	175	5046285.095	25.30119615	1.168767602	2.08996555	5046541.122	22.4890774	1.025794691	1.87833758	254964.116	254964.116	702.7511369	0.20	0.01	0.02	0.01	19.79
2023	SC	Construction and Mining	21	Rollers	250	797311.5299	5.271517972	0.177289439	0.37354861	797245.6771	5.186707384	0.182195423	0.371115536	27066.45416	27066.45416	86.18646019	0.39	0.01	0.03	0.01	29.46
2023	SC	Construction and Mining	21	Rollers	500	504179.1612	3.356456541	0.140195763	0.262343422	503237.7671	3.416192681	0.138094394	0.260634461	10770.87123	10770.87123	35.35854777	0.62	0.03	0.05	0.02	46.72
2023	SC	Construction and Mining	21	Rollers	750	24521.22349	0.085779406	0.003679117	0.007458591	24521.22349	0.052363398	0.000710646	0.005808322	341.6184774	341.6184774	1.104954618	0.50	0.02	0.04	0.02	71.78
2023	SC	Construction and Mining	22	Rough Terrain	50	158898.9839	1.569483307	0.071023075	0.201538488	158890.0061	1.654144211	0.087396428	0.244916812	20487.17956	20487.17956	74.02513421	0.15	0.01	0.02	0.01	7.76
2023	SC	Construction and Mining	22	Rough Terrain	120	12812430.75	79.74081879	2.777575049	5.157062003	12814485.56	76.1690926	2.446609526	4.75768905	899590.7256	899590.7256	3171.594112	0.18	0.01	0.01	0.01	14.24
2023	SC	Construction and Mining	22	Rough Terrain	175	2354082.009	8.47910308	0.301820097	0.645349445	2354000.792	8.61937408	0.307509094	0.650766616	123236.1431	123236.1431	424.3682263	0.14	0.00	0.01	0.00	19.10
2023	SC	Construction and Mining	22	Rough Terrain	250	193790.1105	0.415051139	0.01100349	0.03742263	193464.8019	0.855202915	0.019968917	0.055404457	6285.488656	6285.488656	24.88776064	0.13	0.00	0.01	0.00	30.78
2023	SC	Construction and Mining	22	Rough Terrain	500	81902.29961	0.118676884	0.002241837	0.014201162	81862.34547	0.138930374	0.002219804	0.014191725	1501.549878	1501.549878	5.743329379	0.16	0.00	0.02	0.00	54.52
2023	SC	Construction and Mining	22	Rough Terrain	750	12835.4477	0.010157365	0.000354487	0.002073985	12835.4477	0.051775065	0.000368339	0.003587433	139.1998883	139.1998883	0.638147709	0.15	0.01	0.03	0.00	92.21
2023	SC	Construction and Mining	23	Rubber Tired Dozers	50	137193.7136	2.519291726	0.333881865	0.927367221	137791.8946	1.364799389	0.053284488	0.164070098	20721.16599	20721.16599	21.5703078	0.24	0.03	0.09	0.03	6.65
2023	SC	Construction and Mining	23	Rubber Tired Dozers	120	658195.5833	16.49726318	1.44573337	1.753720928	656259.2321	11.53950402	0.919089901	1.187770685	54756.41676	54756.41676	64.18481833	0.60	0.05	0.06	0.05	11.99
2023	SC	Construction and Mining	23	Rubber Tired Dozers	175	547194.0678	13.75249974	0.793322506	1.143085143	547772.2614	9.270028613	0.517618237	0.796752915	25126.99958	25126.99958	33.1446193	1.09	0.06	0.09	0.06	21.80
2023	SC	Construction and Mining	23	Rubber Tired Dozers	250	571137.1229	11.23512488	0.546387105	0.864452221	570411.8182	6.969937934	0.313844404	0.553359716	18536.28396	18536.28396	25.77914834	1.21	0.06	0.09	0.05	30.77
2023	SC	Construction and Mining	23	Rubber Tired Dozers	500	6539782.03	114.1440287	5.3284123	9.044821759	6540492.001	85.26241097	3.897234826	7.138533991	125366.9981	125366.9981	172.0363573	1.82	0.09	0.14	0.08	52.17
2023	SC	Construction and Mining	23	Rubber Tired Dozers	750	768869.4986	14.10781478	0.502870238	0.876095763	768869.4986	12.29260756	0.45175504	0.805017411	9054.866875	9054.866875	10.52210136	3.12	0.11	0.19	0.10	84.91
2023	SC	Construction and Mining	24	Rubber Tired Loaders	50	433564.6637	5.618189013	0.420278937	1.165844991	433806.8609	5.303845652	0.356111144	1.017316048	70546.7371	70546.7371	81.15741112	0.16	0.01	0.03	0.01	6.15
2023	SC	Construction and Mining	24	Rubber Tired Loaders	120	10563394.53	132.5698771	9.872498188	13.22082652	10570888.24	112.8155178	7.660825903	10.93720126	935021.2366	935021.2366	1008.98403	0.28	0.02	0.03	0.02	11.31
2023	SC	Construction and Mining	24	Rubber Tired Loaders	175	25032922.96	216.4781599	11.8332626	20.6625731	25042713.91	165.6568455	8.868864669	16.78605909	1261097.548	1261097.548	1322.098096	0.34	0.02	0.03	0.02	19.86
2023	SC	Construction and Mining	24	Rubber Tired Loaders	250	34537989.35	260.5700124	8.930350852	20.82454098	34551346.1	214.7574784	7.191369883	18.08501772	1269754.735	1269754.735	1175.137379	0.41	0.01	0.03	0.01	27.21
2023	SC	Construction and Mining	24	Rubber Tired Loaders	500	44926037.87	342.6127026	12.84230371	29.79400622	45089819.02	254.6895053	9.475307391	24.49039366	1070359.041	1070359.041	1091.786524	0.64	0.02	0.06	0.02	42.13
2023	SC	Construction and Mining	24	Rubber Tired Loaders	750	8058429.827	65.46214239	2.480933962	5.59467588	8088915.79	47.57817488	1.839002731	4.621026768	103089.3606	103089.3606	96.51151593	1.27	0.05	0.11	0.04	78.47
2023	SC	Construction and Mining	24	Rubber Tired Loaders	1000	2316583.058	34.79964319	0.883055733	1.690162098	2325170.488	24.62537351	0.495796146	1.112001234	20915.26058	20915.26058	17.54754835	3.33	0.08	0.16	0.08	111.17
2023	SC	Construction and Mining	24	Rubber Tired Loaders	9999	921603.4933	12.97899723	0.310131674	0.643542256	921603.4933	11.5739567	0.253538363	0.544748574	4594.146896	4594.146896	3.838526202	5.65	0.14	0.28	0.12	200.60
2023	SC	Construction and Mining	25	Scrapers	50	9941.702743	0.172085695	0.022907956	0.068397284	9941.702743	0.171982159	0.022906095	0.068344861	1403.517296	1403.517296	3.793790457	0.25	0.03	0.10	0.03	7.08
2023	SC	Construction and Mining	25	Scrapers	120	453439.3507	8.737637873	0.67776018	0.771848299	452911.0562	8.011259495	0.608717462	0.692048308	29647.8157	29647.8157	54.7389766	0.59	0.05	0.05	0.04	15.28
2023	SC	Construction and Mining	25	Scrapers	175	4788161.553	64.86974028	3.539018115	5.429370551	4788944.785	49.35080236	2.608454909	4.235773324	160536.1775	160536.1775	351.7385724	0.81	0.04	0.07	0.04	29.83
2023	SC	Construction and Mining	25	Scrapers	250	5507618.965	85.59549629	3.926323785	6.522393785	5514189.021	54.67617924	2.398545549	4.367460507	139180.7581	139180.7581	341.4411412	1.23	0.06	0.09	0.05	39.62
2023	SC	Construction and Mining	25	Scrapers	500	48240003.79	483.9985875	19.70204576	36.9323962	48268864.19	385.6123384	15.11971012	30.26924675	713245.7434	713245.7434	1500.715111	1.36	0.06	0.10	0.05	67.67
2023	SC	Construction and Mining	25	Scrapers	750	22027450.67	176.517056	6.907576889	13.66845118	22004776.81	157.9433807	5.770205558	12.11861717	220359.7224	220359.7224	427.6143816	1.60	0.06	0.12	0.06	99.86
2023	SC	Construction and Mining	25	Scrapers	1000	345099.2461	11.0162745	0.501233123	0.78990162	345099.2461	13.88122043	0.647193245	1.005418288	2051.856772	2051.856772	7.04561085	10.74	0.49	0.77	0.45	168.19
2023	SC	Construction and Mining	25	Scrapers	9999	1254355.929	17.21231479	0.468969216	0.851376118	1254355.929	16.84455304	0.453501265	0.806595588	3604.997988	3604.997988	7.04561085	9.55	0.26	0.47	0.24	347.95
2023	SC	Construction and Mining	26	Skid Steer Loaders	50	2362236.294	21.07880065	0.516731311	1.698897149	2362512.926	21.40663589	0.592434659	1.854701957	359686.3158	359686.3158	1129.099859	0.12	0.00	0.01	0.00	6.57

**Table C.18 CARB Offroad 2011 output**  
Used to calculate NOx, PM, HC, and fuel consumption

CalendarYear	AirBasin	Equipment Class	Equipment TypeID	Equipment Type	HorsepowerBin	lb/yr	ton/yr	ton/yr	ton/yr	lb/yr	ton/yr	ton/yr	ton/yr	hr/yr	hr/yr	Emissions per Equipment (lb/hr)				lb/hr	
						BaseBSFC	BaseNOx	BasePM	BaseHC	ScenBSFC	ScenNOx	ScenPM	ScenHC	BaseActivity	ScenActivity	Population	NOx	PM	HC	PM2.5	BSFC per equipment
2023	SC	Construction and Mining	26	Skid Steer Loaders	120	12558994.43	75.37048417	2.454630592	4.705368831	12557257.08	76.78899584	2.597779356	4.776920617	1314713.062	1314713.062	3643.684176	0.11	0.00	0.01	0.00	9.55
2023	SC	Construction and Mining	26	Skid Steer Loaders	175	84901.34527	0.398717674	0.016635242	0.032182654	84865.59085	0.317195167	0.013328573	0.026958225	4131.984503	4131.984503	15.1143759	0.19	0.01	0.02	0.01	20.54
2023	SC	Construction and Mining	26	Skid Steer Loaders	250	64827.87641	0.181599092	0.005524401	0.015061121	64765.53835	0.266739117	0.0081339	0.017952764	2442.878784	2442.878784	8.396875501	0.15	0.00	0.01	0.00	26.51
2023	SC	Construction and Mining	26	Skid Steer Loaders	500	17905.67691	0.014126235	0.000490609	0.002790242	17905.67691	0.014073436	0.000485864	0.002665128	491.424595	491.424595	1.6793751	0.06	0.00	0.01	0.00	36.44
2023	SC	Construction and Mining	26	Skid Steer Loaders	750	18888.12933	0.139109617	0.006074063	0.008469793	18888.12933	0.139109617	0.006074063	0.008469793	263.5175364	263.5175364	0.5597917	1.06	0.05	0.06	0.04	71.68
2023	SC	Construction and Mining	26	Skid Steer Loaders	1000	30822.03665	0.212268143	0.001731757	0.004857943	30822.03665	0.210908625	0.002860695	0.005398138	227.9070586	227.9070586	1.1195834	1.86	0.02	0.04	0.01	135.24
2023	SC	Construction and Mining	27	Surfacing Equipment	50	21893.87075	0.227290997	0.00900721	0.020892015	21894.58647	0.227312795	0.009006089	0.020911802	4886.583588	4886.583588	19.8060248	0.09	0.00	0.01	0.00	4.48
2023	SC	Construction and Mining	27	Surfacing Equipment	120	172439.0892	1.560037703	0.080635764	0.113349873	171941.4206	1.571287739	0.080482965	0.114635758	17433.51866	17433.51866	63.48084873	0.18	0.01	0.01	0.01	9.86
2023	SC	Construction and Mining	27	Surfacing Equipment	175	88270.14222	0.733872297	0.03612132	0.055122258	88326.63454	0.654169326	0.031721002	0.04941595	5310.202993	5310.202993	21.32956517	0.28	0.01	0.02	0.01	16.63
2023	SC	Construction and Mining	27	Surfacing Equipment	250	188051.4453	1.438179273	0.044047036	0.086768062	188046.2104	1.398406097	0.045690739	0.088489132	7784.65693	7784.65693	31.99434776	0.37	0.01	0.02	0.01	24.16
2023	SC	Construction and Mining	27	Surfacing Equipment	500	595451.1524	2.793759972	0.10541189	0.203946589	595388.7534	2.648162898	0.099816976	0.195012827	14902.54314	14902.54314	52.81606615	0.37	0.01	0.03	0.01	39.95
2023	SC	Construction and Mining	27	Surfacing Equipment	750	550858.3735	1.729578151	0.064082637	0.134314027	550876.9108	1.786520219	0.066608112	0.137208105	8087.441997	8087.441997	26.40803307	0.43	0.02	0.03	0.01	68.12
2023	SC	Construction and Mining	27	Surfacing Equipment	1000	89105.45674	1.196829817	0.027589311	0.050084133	89105.45674	0.881502618	0.01744383	0.03293749	991.1016639	991.1016639	3.554927529	2.42	0.06	0.10	0.05	89.91
2023	SC	Construction and Mining	27	Surfacing Equipment	9999	31412.20512	0.215267823	0.003048501	0.006800108	31412.20512	0.214780364	0.003033898	0.006655722	252.7829828	252.7829828	1.01569358	1.70	0.02	0.05	0.02	124.27
2023	SC	Construction and Mining	28	Tractors/Loaders/Backhoes	50	4663235.507	51.2170792	2.688395186	7.43197078	4658437.411	49.5823227	2.372217497	6.593963215	826190.0229	826190.0229	1580.089845	0.12	0.01	0.02	0.01	5.64
2023	SC	Construction and Mining	28	Tractors/Loaders/Backhoes	120	75249491.36	600.0921447	33.19472791	51.188315	75268801.63	543.4364738	26.82813043	44.26651848	6672032.627	6672032.627	10728.64488	0.18	0.01	0.02	0.01	11.28
2023	SC	Construction and Mining	28	Tractors/Loaders/Backhoes	175	13031133.42	69.76700106	3.527363431	6.742856943	13027491.78	59.92371708	3.014846641	5.99728655	673872.533	673872.533	1200.207617	0.21	0.01	0.02	0.01	19.33
2023	SC	Construction and Mining	28	Tractors/Loaders/Backhoes	250	7544202.517	42.41905264	1.566937416	3.588910326	7544816.954	36.15542159	1.311734475	3.181899439	274520.7232	274520.7232	480.083047	0.31	0.01	0.03	0.01	27.48
2023	SC	Construction and Mining	28	Tractors/Loaders/Backhoes	500	10128963.94	47.454107	1.762903321	4.443517651	10110009.76	38.07784385	1.442008206	3.834050644	234799.4722	234799.4722	433.285961	0.40	0.02	0.04	0.01	43.06
2023	SC	Construction and Mining	28	Tractors/Loaders/Backhoes	750	1438857.504	9.622266206	0.379810832	0.808926078	1438332.884	10.56915261	0.412972421	0.845718243	18722.05717	18722.05717	30.28046741	1.03	0.04	0.09	0.04	76.83
2023	SC	Construction and Mining	28	Tractors/Loaders/Backhoes	1000	242738.1622	2.126968075	0.036704695	0.078951096	242738.1622	2.123867802	0.036611818	0.078032788	2041.779958	2041.779958	2.752769765	2.08	0.04	0.08	0.03	118.89
2023	SC	Construction and Mining	28	Tractors/Loaders/Backhoes	9999	3410058.642	33.65303595	0.672702748	1.553463955	3410058.642	32.3883192	0.611308537	1.431100833	12553.34413	12553.34413	20.37049626	5.36	0.11	0.25	0.10	271.65
2023	SC	Construction and Mining	29	Trenchers	50	1654355.332	18.05501531	1.066448014	2.601149025	1654037.739	17.61334931	0.978627724	2.359364648	201934.8429	201934.8429	518.1658062	0.18	0.01	0.03	0.01	8.19
2023	SC	Construction and Mining	29	Trenchers	120	1198728.74	18.04206615	1.302413293	1.638733004	1199998.791	16.81226119	1.166329878	1.489850864	78692.66915	78692.66915	240.2405102	0.46	0.03	0.04	0.03	15.25
2023	SC	Construction and Mining	29	Trenchers	175	244749.7635	3.202407495	0.164405898	0.255216182	244741.0138	2.713270329	0.137597582	0.220242479	9309.519467	9309.519467	31.79653811	0.69	0.04	0.05	0.03	26.29
2023	SC	Construction and Mining	29	Trenchers	250	480301.821	5.354749193	0.229133036	0.395827816	480467.7104	5.371805524	0.222947267	0.389642847	11882.79619	11882.79619	37.68478591	0.90	0.04	0.07	0.04	40.43
2023	SC	Construction and Mining	29	Trenchers	500	809346.898	5.612904763	0.230771265	0.440261367	809885.3674	4.881924002	0.205812183	0.39949418	12260.78466	12260.78466	34.15183723	0.92	0.04	0.07	0.03	66.05
2023	SC	Construction and Mining	29	Trenchers	750	365148.0538	0.330379078	0.009849998	0.05432173	365148.0538	0.330379078	0.009849998	0.05432173	3181.147696	3181.147696	7.065897358	0.21	0.01	0.03	0.01	114.79
2023	SC	Construction and Mining	29	Trenchers	1000	21581.56804	0.86788971	0.040451509	0.062849979	21581.56804	0.86788971	0.040451509	0.062849979	136.0762756	136.0762756	0.58882478	12.76	0.59	0.92	0.55	158.60
2023	SC	Construction and Mining	36	Sweepers/Scrubbers	50	1440204.222	16.9002804	1.135136146	2.853936537	1440204.222	16.04332876	0.965749906	2.438809364	217499.5574	217499.5574	304.146693	0.16	0.01	0.03	0.01	6.62
2023	SC	Construction and Mining	36	Sweepers/Scrubbers	120	2225883.387	24.70277364	1.753451691	2.327100459	2225883.387	21.86912275	1.394831322	1.928751569	170967.1089	170967.1089	247.6238563	0.29	0.02	0.03	0.02	13.02
2023	SC	Construction and Mining	36	Sweepers/Scrubbers	175	555224.2293	7.512671075	0.358820266	0.621659092	555224.2293	4.340313904	0.209432376	0.401815614	20775.61929	20775.61929	28.53057474	0.72	0.03	0.06	0.03	26.72
2023	SC	Construction and Mining	36	Sweepers/Scrubbers	250	295912.1357	1.482510226	0.044992201	0.121768231	295912.1357	1.437077496	0.044884006	0.116898312	8693.415314	8693.415314	11.84288008	0.34	0.01	0.03	0.01	34.04

**Table C.18 CARB Offroad 2011 output**  
Used to calculate NOx, PM, HC, and fuel consumption

CalendarYear	AirBasin	Equipment Class	Equipment TypeID	Equipment Type	HorsepowerBin	lb/yr	ton/yr	ton/yr	ton/yr	lb/yr	ton/yr	ton/yr	ton/yr	hr/yr	hr/yr	Emissions per Equipment (lb/hr)					lb/hr
						BaseBSFC	BaseNOx	BasePM	BaseHC	ScenBSFC	ScenNOx	ScenPM	ScenHC	BaseActivity	ScenActivity	Population	NOx	PM	HC	PM2.5	BSFC per equipment
2023	SC	Construction and Mining	36	Sweepers/Scrubbers	500	82555.61561	1.352714323	0.059203708	0.092523368	82555.61561	0.589793107	0.020119409	0.041360088	1632.192814	1632.192814	2.153250924	1.66	0.07	0.11	0.07	50.58
2023	SC	Construction and Mining	36	Sweepers/Scrubbers	1000	57857.15871	0.392032665	0.003058309	0.007216353	57857.15871	0.392032665	0.003058309	0.007216353	408.0482036	408.0482036	0.538312731	1.92	0.01	0.04	0.01	141.79
2024	SC	Construction and Mining	11	Bore/Drill Rigs	50	138944.2607	1.522224524	0.078967349	0.186576144	138867.9005	1.545456497	0.081418583	0.186963263	17081.4267	17081.4267	46.92736495	0.18	0.01	0.02	0.01	8.13
2024	SC	Construction and Mining	11	Bore/Drill Rigs	120	873603.9317	5.929927068	0.246421961	0.40702964	870324.236	5.929951563	0.241990714	0.392076665	58670.13585	58670.13585	143.7459284	0.20	0.01	0.01	0.01	14.83
2024	SC	Construction and Mining	11	Bore/Drill Rigs	175	1015605.642	3.239723373	0.14582243	0.314845154	1014525.479	3.089106353	0.139241283	0.309038267	36503.8839	36503.8839	112.6256759	0.18	0.01	0.02	0.01	27.79
2024	SC	Construction and Mining	11	Bore/Drill Rigs	250	1443029.545	5.09502069	0.16731904	0.430732271	1438664.568	4.226959374	0.139292887	0.386854676	37657.09377	37657.09377	112.1317036	0.27	0.01	0.02	0.01	38.20
2024	SC	Construction and Mining	11	Bore/Drill Rigs	500	1616134.498	5.171232785	0.176236905	0.461886788	1603540.952	4.212208695	0.143179103	0.415225517	25307.61102	25307.61102	78.54158976	0.41	0.01	0.04	0.01	63.36
2024	SC	Construction and Mining	11	Bore/Drill Rigs	750	2194817.621	4.108019492	0.152064839	0.4687737	2198549.828	4.358113172	0.166716204	0.47885678	19149.50031	19149.50031	39.02380875	0.43	0.02	0.05	0.01	114.81
2024	SC	Construction and Mining	11	Bore/Drill Rigs	1000	172825.0806	1.182687965	0.009484404	0.025005969	172825.0806	1.180250627	0.009411387	0.024284023	1020.016724	1020.016724	1.481916788	2.32	0.02	0.05	0.02	169.43
2024	SC	Construction and Mining	11	Bore/Drill Rigs	9999	585679.7083	7.617952961	0.193800093	0.295043488	585679.7083	7.617952961	0.193800093	0.295043488	1190.938445	1190.938445	1.481916788	12.79	0.33	0.50	0.30	491.78
2024	SC	Construction and Mining	12	Cranes	50	46149.93667	0.75975611	0.079746979	0.221262422	46149.93667	0.731314258	0.072922716	0.202231447	9792.639832	9792.639832	21.73695143	0.16	0.02	0.05	0.01	4.71
2024	SC	Construction and Mining	12	Cranes	120	1101549.297	20.53418182	1.485483338	1.997891117	1101688.645	15.35384599	1.001954286	1.440179434	117681.8246	117681.8246	262.0855287	0.35	0.03	0.03	0.02	9.36
2024	SC	Construction and Mining	12	Cranes	175	2905923.641	45.49963748	2.529240673	3.785584683	2905998.104	32.1445842	1.70304252	2.735478262	184839.4015	184839.4015	393.1282931	0.49	0.03	0.04	0.03	15.72
2024	SC	Construction and Mining	12	Cranes	250	4908569.303	75.96483502	3.524053777	5.729573865	4908726.76	43.64523432	1.815965571	3.414770386	213532.556	213532.556	441.570642	0.71	0.03	0.05	0.03	22.99
2024	SC	Construction and Mining	12	Cranes	500	7518576.379	81.40238273	3.488872025	6.155387144	7520591.001	53.8252478	2.175604565	4.302947754	211618.7501	211618.7501	423.5600251	0.77	0.03	0.06	0.03	35.54
2024	SC	Construction and Mining	12	Cranes	750	1978552.892	14.42598405	0.601468835	1.118330114	1978691.086	11.33212861	0.474797192	0.940432256	33115.32671	33115.32671	62.10557552	0.87	0.04	0.07	0.03	59.75
2024	SC	Construction and Mining	12	Cranes	1000	463818.5581	9.73148571	0.37891647	0.600779453	463472.2807	10.00581523	0.448250399	0.692072391	4707.532364	4707.532364	9.315836329	4.13	0.16	0.26	0.15	98.45
2024	SC	Construction and Mining	12	Cranes	9999	35731.87438	0.258702803	0.006878696	0.019493443	35731.87438	0.258702803	0.006878696	0.019493443	328.1022822	328.1022822	0.621055755	1.58	0.04	0.12	0.04	108.90
2024	SC	Construction and Mining	13	Crawler Tractors	50	140561.2271	2.181720557	0.23626828	0.72307448	140594.3526	1.92402542	0.180191749	0.561236956	19246.34264	19246.34264	55.12192434	0.23	0.02	0.08	0.02	7.30
2024	SC	Construction and Mining	13	Crawler Tractors	120	6231303.308	99.96066846	8.228379142	10.05266736	6225414.677	81.71655079	6.215396438	7.862166805	451454.4415	451454.4415	948.6483179	0.44	0.04	0.04	0.03	13.79
2024	SC	Construction and Mining	13	Crawler Tractors	175	6779700.128	84.29638504	4.840635345	7.241686648	6782327.235	61.97987381	3.468540385	5.485952231	288336.9667	288336.9667	620.6728681	0.58	0.03	0.05	0.03	23.52
2024	SC	Construction and Mining	13	Crawler Tractors	250	6823967.213	73.74334457	2.93807713	5.324290466	6821415.203	60.53171507	2.349686166	4.46803311	213779.7786	213779.7786	453.6534373	0.69	0.03	0.05	0.03	31.91
2024	SC	Construction and Mining	13	Crawler Tractors	500	18258626.31	154.4618188	6.415039419	12.31125328	18282696.89	122.7187227	5.062000922	10.29578613	339584.5847	339584.5847	729.263059	0.91	0.04	0.07	0.03	53.84
2024	SC	Construction and Mining	13	Crawler Tractors	750	7131670.509	51.2556656	1.954167921	4.016628937	7125767.28	37.79143548	1.411327698	3.198212988	79385.08036	79385.08036	149.380415	1.29	0.05	0.10	0.05	89.76
2024	SC	Construction and Mining	13	Crawler Tractors	1000	943195.0051	15.82851582	0.419761526	0.773827116	943708.9169	13.21969882	0.323577709	0.612905505	7201.499229	7201.499229	13.22926184	4.40	0.12	0.21	0.11	131.04
2024	SC	Construction and Mining	13	Crawler Tractors	9999	499308.2698	7.987213557	0.19634768	0.362285198	499308.2698	8.853905137	0.227262727	0.40918739	2162.990987	2162.990987	3.30731546	7.39	0.18	0.33	0.17	230.84
2024	SC	Construction and Mining	14	Excavators	50	5638165.836	53.21048942	1.789763825	5.243830637	5636522.635	53.3030528	1.8163458	5.229636397	1009924.067	1009924.067	1350.064604	0.11	0.00	0.01	0.00	5.58
2024	SC	Construction and Mining	14	Excavators	120	7319292.017	52.01678222	2.500627614	4.262134175	7318749.697	49.90607168	2.272243839	3.986255609	644923.0289	644923.0289	976.4896256	0.16	0.01	0.01	0.01	11.35
2024	SC	Construction and Mining	14	Excavators	175	15414601.05	65.24064529	3.198237286	6.844334846	15412826.19	61.28065185	3.018388949	6.507197622	752404.0646	752404.0646	1240.644714	0.17	0.01	0.02	0.01	20.48
2024	SC	Construction and Mining	14	Excavators	250	19602326.71	65.00700474	2.153978126	6.927388745	19592581.5	65.15482256	2.103587019	6.749569038	639328.7958	639328.7958	1066.567616	0.20	0.01	0.02	0.01	30.65
2024	SC	Construction and Mining	14	Excavators	500	32498762.59	82.10292039	2.904674899	10.07269823	32451401.44	81.43045457	2.811869981	9.804707606	708036.6692	708036.6692	1084.804264	0.23	0.01	0.03	0.01	45.83
2024	SC	Construction and Mining	14	Excavators	750	2946932.468	10.17140952	0.371142849	1.070979782	2947589.327	9.851007862	0.362305407	1.04668366	36653.05593	36653.05593	55.26257078	0.56	0.02	0.06	0.02	80.42
2024	SC	Construction and Mining	14	Excavators	1000	328733.8179	2.361156232	0.027443	0.087638563	328720.3374	2.342904978	0.024191417	0.079259259	2803.244509	2803.244509	4.421005662	1.68	0.02	0.06	0.02	117.26

**Table C.18 CARB Offroad 2011 output**  
Used to calculate NOx, PM, HC, and fuel consumption

CalendarYear	AirBasin	Equipment Class	Equipment TypeID	Equipment Type	HorsepowerBin	lb/yr	ton/yr	ton/yr	ton/yr	lb/yr	ton/yr	ton/yr	ton/yr	hr/yr	hr/yr	Emissions per Equipment (lb/hr)					lb/hr
						BaseBSFC	BaseNOx	BasePM	BaseHC	ScenBSFC	ScenNOx	ScenPM	ScenHC	BaseActivity	ScenActivity	Population	NOx	PM	HC	PM2.5	BSFC per equipment
2024	SC	Construction and Mining	14	Excavators	9999	643404.3467	4.475267977	0.037474532	0.11450365	643404.3467	4.470874114	0.037342901	0.113202177	2953.800429	2953.800429	3.868379954	3.03	0.03	0.08	0.02	217.82
2024	SC	Construction and Mining	15	Graders	50	37227.54291	0.6144222	0.071896148	0.206573209	37292.72554	0.538380688	0.055721079	0.163739372	6069.392215	6069.392215	17.21868084	0.20	0.02	0.07	0.02	6.14
2024	SC	Construction and Mining	15	Graders	120	998236.7141	22.84214756	1.825777389	2.402716482	1002208.41	16.43491285	1.233891921	1.706266425	73776.89369	73776.89369	183.2956347	0.62	0.05	0.07	0.05	13.58
2024	SC	Construction and Mining	15	Graders	175	9239123.501	134.2839383	7.504717811	11.78195368	9258973.464	87.85394542	4.849832718	8.249822475	411622.9867	411622.9867	857.601394	0.65	0.04	0.06	0.03	22.49
2024	SC	Construction and Mining	15	Graders	250	16094178.57	174.0525266	5.722670752	11.8836855	16083798.16	147.9582732	4.798149471	10.4337254	522942.806	522942.806	680.9710551	0.67	0.02	0.05	0.02	30.76
2024	SC	Construction and Mining	15	Graders	500	4597260.817	35.80763154	1.404448993	3.486402971	4597204.715	33.70483676	1.320732237	3.351874906	104942.5052	104942.5052	127.1960617	0.68	0.03	0.07	0.02	43.81
2024	SC	Construction and Mining	15	Graders	1000	44684.68527	0.326553023	0.003074274	0.012615706	44684.68527	0.326553023	0.003074274	0.012615706	374.2613102	374.2613102	0.555441317	1.75	0.02	0.07	0.02	119.39
2024	SC	Construction and Mining	15	Graders	9999	629476.9839	11.65082115	0.339862775	0.664279264	629476.9839	11.65082115	0.339862775	0.664279264	2109.775298	2109.775298	2.77206587	11.04	0.32	0.63	0.30	298.36
2024	SC	Construction and Mining	16	Off-Highway Tractors	50	2335685.507	26.9814793	1.699735974	4.53058113	2330655.105	24.33395371	1.102978929	3.108184193	348628.6943	348628.6943	517.1316194	0.15	0.01	0.03	0.01	6.69
2024	SC	Construction and Mining	16	Off-Highway Tractors	120	2979612.1	31.33420937	2.118828233	2.851786505	2979461.013	26.15442155	1.512081069	2.212167158	247859.2056	247859.2056	375.9966463	0.25	0.02	0.02	0.02	12.02
2024	SC	Construction and Mining	16	Off-Highway Tractors	175	2536833.381	12.45394439	0.606069632	1.239281382	2536879.491	11.37235993	0.543518194	1.147141388	100189.1604	100189.1604	142.7697411	0.25	0.01	0.02	0.01	25.32
2024	SC	Construction and Mining	16	Off-Highway Tractors	250	2128655.154	10.42023453	0.395942853	1.012943579	2127395.528	8.826318539	0.314914751	0.894331216	62424.99953	62424.99953	93.18177757	0.33	0.01	0.03	0.01	34.08
2024	SC	Construction and Mining	16	Off-Highway Tractors	500	5978921.492	20.77487876	0.785646048	2.288617566	5978109.54	15.42982122	0.536424355	1.950831471	112390.7101	112390.7101	160.2072667	0.37	0.01	0.04	0.01	53.19
2024	SC	Construction and Mining	16	Off-Highway Tractors	750	1507720.339	6.451937044	0.252560306	0.693612054	1507485.873	5.592364676	0.218568241	0.631260958	16449.72548	16449.72548	23.43167506	0.78	0.03	0.08	0.03	91.64
2024	SC	Construction and Mining	16	Off-Highway Tractors	1000	42761.84493	1.57623109	0.080194835	0.110193918	42761.84493	0.31668199	0.008762385	0.020061386	267.5483092	267.5483092	0.544922676	11.78	0.60	0.82	0.55	159.83
2024	SC	Construction and Mining	16	Off-Highway Tractors	9999	347526.3276	4.917842786	0.140062106	0.323920218	352728.7866	3.996302863	0.108144221	0.248526304	1242.265327	1242.265327	2.179690703	7.92	0.23	0.52	0.21	283.94
2024	SC	Construction and Mining	17	Off-Highway Trucks	50	223949.9178	2.635437658	0.159043048	0.437021861	225827.3359	2.472360659	0.118997022	0.336115574	50647.79495	50647.79495	30.77652571	0.10	0.01	0.02	0.01	4.46
2024	SC	Construction and Mining	17	Off-Highway Trucks	120	273513.6636	3.197952974	0.229122009	0.332133559	273461.8483	2.705852081	0.158559234	0.274933024	22732.1411	22732.1411	17.27804952	0.28	0.02	0.03	0.02	12.03
2024	SC	Construction and Mining	17	Off-Highway Trucks	175	5300900.877	25.43954455	1.208179958	3.086355852	5293988.131	23.85205256	1.116501344	2.95315355	238629.6159	238629.6159	165.2213486	0.21	0.01	0.03	0.01	22.18
2024	SC	Construction and Mining	17	Off-Highway Trucks	250	10854349.82	64.42729216	2.628472242	6.681402594	10856146.81	44.47397469	1.778961702	5.478333358	369369.5939	369369.5939	282.9280609	0.35	0.01	0.04	0.01	29.39
2024	SC	Construction and Mining	17	Off-Highway Trucks	500	46050877.47	216.7297896	7.909757544	23.61525864	46058031.57	169.735082	6.111287264	20.95065931	876509.7677	876509.7677	628.4890514	0.49	0.02	0.05	0.02	52.55
2024	SC	Construction and Mining	17	Off-Highway Trucks	750	16470275.17	113.2343983	4.290605253	11.03792231	16450986.37	102.6285973	3.89811984	10.53122722	178274.0532	178274.0532	143.6237867	1.27	0.05	0.12	0.04	92.28
2024	SC	Construction and Mining	17	Off-Highway Trucks	1000	11437950.14	126.3906145	2.690071416	6.425633721	11464388.04	118.1665	2.385261399	5.927559669	90964.86661	90964.86661	65.8725638	2.78	0.06	0.14	0.05	126.03
2024	SC	Construction and Mining	17	Off-Highway Trucks	9999	16584157.57	162.1646556	3.019507235	7.918015469	16577838.5	153.1778531	2.694962756	7.352594549	66079.71277	66079.71277	42.65518476	4.91	0.09	0.24	0.08	250.88
2024	SC	Construction and Mining	18	Other Construction Equipment	50	1260106.788	15.86530239	1.164138838	2.673633498	1262128.542	15.25104587	1.03083497	2.312974406	194301.0674	194301.0674	399.3504153	0.16	0.01	0.03	0.01	6.50
2024	SC	Construction and Mining	18	Other Construction Equipment	120	3951488.445	47.58549239	3.345725634	4.330563686	3953784.63	42.52840713	2.812649001	3.74570632	317926.3687	317926.3687	704.6411769	0.30	0.02	0.03	0.02	12.44
2024	SC	Construction and Mining	18	Other Construction Equipment	175	2147961.836	21.40187122	1.140065565	1.780264858	2147338.84	16.34134317	0.843171238	1.396090772	92862.73891	92862.73891	219.293364	0.46	0.02	0.04	0.02	23.12
2024	SC	Construction and Mining	18	Other Construction Equipment	250	2760102.772	22.20783655	0.867629454	1.650967185	2759941.424	17.28971488	0.654631742	1.344208776	82816.19641	82816.19641	196.7190471	0.54	0.02	0.04	0.02	33.33
2024	SC	Construction and Mining	18	Other Construction Equipment	500	9426088.366	55.82282156	2.086381741	4.5405118	9429676.653	47.05347854	1.806193736	4.057789823	171714.8146	171714.8146	382.1509357	0.65	0.02	0.05	0.02	54.91
2024	SC	Construction and Mining	18	Other Construction Equipment	750	3686760.06	20.40606823	0.680941107	1.552234741	3679096.524	17.22942808	0.591543765	1.396973204	40204.37335	40204.37335	79.01010908	1.02	0.03	0.08	0.03	91.51



**Table C.18 CARB Offroad 2011 output**  
Used to calculate NOx, PM, HC, and fuel consumption

CalendarYear	AirBasin	Equipment Class	Equipment TypeID	Equipment Type	HorsepowerBin	lb/yr	ton/yr	ton/yr	ton/yr	lb/yr	ton/yr	ton/yr	ton/yr	hr/yr	hr/yr	Emissions per Equipment (lb/hr)					lb/hr
						BaseBSFC	BaseNOx	BasePM	BaseHC	ScenBSFC	ScenNOx	ScenPM	ScenHC	BaseActivity	ScenActivity	Population	NOx	PM	HC	PM2.5	BSFC per equipment
2024	SC	Construction and Mining	18	Other Construction Equipment	1000	431015.865	3.881997017	0.073656619	0.149492224	431100.4929	3.402303417	0.056764826	0.121923746	3387.525494	3387.525494	6.987288558	2.29	0.04	0.09	0.04	127.26
2024	SC	Construction and Mining	18	Other Construction Equipment	9999	265717.2497	4.187120752	0.117105183	0.21884193	265405.8711	2.672780194	0.054986539	0.115934743	1587.305844	1587.305844	3.224902411	5.28	0.15	0.28	0.14	167.21
2024	SC	Construction and Mining	19	Pavers	50	154273.6474	1.846705672	0.135473358	0.380099929	154396.6114	1.746399731	0.115966632	0.326337792	23492.89735	23492.89735	64.72813408	0.16	0.01	0.03	0.01	6.57
2024	SC	Construction and Mining	19	Pavers	120	1497063.26	16.16173567	1.103962623	1.410566757	1496177.586	14.78413927	0.959303723	1.257256102	123798.2633	123798.2633	314.4708514	0.26	0.02	0.02	0.02	12.09
2024	SC	Construction and Mining	19	Pavers	175	2031677.646	11.82492349	0.55392668	1.017670133	2031732.562	11.02408049	0.514777432	0.960396327	84168.61821	84168.61821	212.5240402	0.28	0.01	0.02	0.01	24.14
2024	SC	Construction and Mining	19	Pavers	250	1369896.115	4.497852108	0.143677947	0.368428169	1368817.489	5.508697527	0.169078757	0.404167767	42006.45661	42006.45661	91.69818995	0.21	0.01	0.02	0.01	32.59
2024	SC	Construction and Mining	19	Pavers	500	514719.6882	2.244392499	0.075419083	0.173551	516454.088	2.42634051	0.084145474	0.184812838	10455.91219	10455.91219	22.65484693	0.43	0.01	0.03	0.01	49.39
2024	SC	Construction and Mining	19	Pavers	750	59719.73171	0.046853025	0.001612809	0.0086868	59719.73171	0.046853025	0.001612809	0.0086868	522.3048134	522.3048134	1.078802235	0.18	0.01	0.03	0.01	114.34
2024	SC	Construction and Mining	20	Paving Equipment	50	192383.7606	1.937668615	0.083918328	0.226060137	192393.265	1.95969127	0.085881643	0.226264552	38413.26545	38413.26545	79.70298409	0.10	0.00	0.01	0.00	5.01
2024	SC	Construction and Mining	20	Paving Equipment	120	872446.8465	7.369674665	0.407947649	0.618062565	872557.4048	6.989015516	0.35409702	0.566484646	75390.62552	75390.62552	162.6371702	0.20	0.01	0.02	0.01	11.57
2024	SC	Construction and Mining	20	Paving Equipment	175	822665.4637	5.28655277	0.259601904	0.466150394	822579.8797	4.423503505	0.213625196	0.402584007	42657.29518	42657.29518	88.85805658	0.25	0.01	0.02	0.01	19.28
2024	SC	Construction and Mining	20	Paving Equipment	250	431498.2199	2.389404337	0.092336288	0.191501313	431374.9648	1.678190318	0.062108574	0.148172357	15342.98993	15342.98993	32.31202058	0.31	0.01	0.02	0.01	28.12
2024	SC	Construction and Mining	20	Paving Equipment	500	608670.8782	2.848800933	0.10135456	0.238737886	608063.0884	2.764020457	0.103351886	0.238749833	13870.24962	13870.24962	29.08081852	0.41	0.01	0.03	0.01	43.84
2024	SC	Construction and Mining	20	Paving Equipment	750	288064.5453	0.758854768	0.02342883	0.082880468	288015.2795	1.11760426	0.032837188	0.094255783	3657.940967	3657.940967	7.000937792	0.41	0.01	0.05	0.01	78.74
2024	SC	Construction and Mining	20	Paving Equipment	1000	56419.0335	0.400816209	0.006739596	0.015656771	56419.0335	0.400816209	0.006739596	0.015656771	513.5364497	513.5364497	1.077067353	1.56	0.03	0.06	0.02	109.86
2024	SC	Construction and Mining	21	Rollers	50	3169484.619	33.92920258	1.886406136	5.038273854	3169752.48	32.67978912	1.644720994	4.381820032	579069.1886	579069.1886	1635.302223	0.12	0.01	0.02	0.01	5.47
2024	SC	Construction and Mining	21	Rollers	120	4954697.821	47.29083667	2.747950594	3.897764969	4953315.939	42.12289264	2.229244678	3.327679909	412425.4313	412425.4313	1219.547421	0.23	0.01	0.02	0.01	12.01
2024	SC	Construction and Mining	21	Rollers	175	5120582.196	22.36819585	1.030514965	1.953001281	5121200.774	20.37174394	0.930788222	1.797230832	258694.0035	258694.0035	705.1201451	0.17	0.01	0.02	0.01	19.80
2024	SC	Construction and Mining	21	Rollers	250	808939.5686	4.885836142	0.168722351	0.367184632	808901.0173	4.787925956	0.168618457	0.359201507	27462.41117	27462.41117	86.47699893	0.36	0.01	0.03	0.01	29.45
2024	SC	Construction and Mining	21	Rollers	500	509951.1635	3.259388674	0.136907793	0.262127382	510169.7703	3.354296975	0.136361494	0.262544565	10928.43905	10928.43905	35.47774315	0.60	0.03	0.05	0.02	46.68
2024	SC	Construction and Mining	21	Rollers	750	24879.94615	0.087327702	0.003773465	0.007825975	24879.94615	0.05332375	0.000728094	0.006121462	346.6160375	346.6160375	1.108679473	0.50	0.02	0.05	0.02	71.78
2024	SC	Construction and Mining	22	Rough Terrain	50	161245.4363	1.563601635	0.065617931	0.189646261	161251.6075	1.591252808	0.072097007	0.205128788	20786.88792	20786.88792	74.27467653	0.15	0.01	0.02	0.01	7.76
2024	SC	Construction and Mining	22	Rough Terrain	120	12996335.07	77.96472183	2.587934241	5.064077446	12999330.46	74.56876849	2.271027581	4.673304578	912750.9	912750.9	3182.28571	0.17	0.01	0.01	0.01	14.24
2024	SC	Construction and Mining	22	Rough Terrain	175	2388102.871	7.421483932	0.273675231	0.608806727	2387996.598	7.497276296	0.276983941	0.610672113	125038.9731	125038.9731	425.7987922	0.12	0.00	0.01	0.00	19.10
2024	SC	Construction and Mining	22	Rough Terrain	250	196643.6472	0.422736931	0.011277266	0.039293494	196325.8546	0.871324274	0.020510968	0.057857869	6377.4395	6377.4395	24.97165849	0.13	0.00	0.01	0.00	30.78
2024	SC	Construction and Mining	22	Rough Terrain	500	83100.34599	0.099535669	0.002272374	0.013800618	83058.82604	0.120105483	0.002250423	0.013820871	1523.516154	1523.516154	5.762690421	0.13	0.00	0.02	0.00	54.52
2024	SC	Construction and Mining	22	Rough Terrain	750	13023.21835	0.01033891	0.000362634	0.002182411	13023.21835	0.052666719	0.000376313	0.003746523	141.236253	141.236253	0.640298936	0.15	0.01	0.03	0.00	92.21
2024	SC	Construction and Mining	23	Rubber Tired Dozers	50	139308.9812	2.558829322	0.33911337	0.94213301	139801.225	1.373583835	0.047935627	0.156373812	21024.29735	21024.29735	21.64302235	0.24	0.03	0.09	0.03	6.65
2024	SC	Construction and Mining	23	Rubber Tired Dozers	120	667869.8824	15.8893017	1.386360856	1.688524275	665884.4194	11.06783397	0.871005571	1.148129195	55557.45213	55557.45213	64.40118846	0.57	0.05	0.06	0.05	11.99
2024	SC	Construction and Mining	23	Rubber Tired Dozers	175	555181.4787	13.7854083	0.793069847	1.1481906	555332.7151	8.338146095	0.464626346	0.731675374	25494.58417	25494.58417	33.25635142	1.08	0.06	0.09	0.06	21.78
2024	SC	Construction and Mining	23	Rubber Tired Dozers	250	579502.4134	11.40193877	0.554566071	0.88259468	578742.6193	7.072413362	0.318673002	0.569981134	18807.45253	18807.45253	25.8660511	1.21	0.06	0.09	0.05	30.77
2024	SC	Construction and Mining	23	Rubber Tired Dozers	500	6632337.815	111.7425114	5.225195291	8.939282917	6635148.44	79.09391201	3.577759836	6.755627792	127201.0005	127201.0005	172.6163002	1.76	0.08	0.14	0.08	52.16



**Table C.18 CARB Offroad 2011 output**  
Used to calculate NOx, PM, HC, and fuel consumption

CalendarYear	AirBasin	Equipment Class	Equipment TypeID	Equipment Type	HorsepowerBin	lb/yr	ton/yr	ton/yr	ton/yr	lb/yr	ton/yr	ton/yr	ton/yr	hr/yr	hr/yr	Emissions per Equipment (lb/hr)					lb/hr
						BaseBSFC	BaseNOx	BasePM	BaseHC	ScenBSFC	ScenNOx	ScenPM	ScenHC	BaseActivity	ScenActivity	Population	NOx	PM	HC	PM2.5	BSFC per equipment
2024	SC	Construction and Mining	23	Rubber Tired Dozers	750	780097.0756	14.31270107	0.510283886	0.891394572	780097.0756	12.47204761	0.45852055	0.821903237	9187.331143	9187.331143	10.55757188	3.12	0.11	0.19	0.10	84.91
2024	SC	Construction and Mining	24	Rubber Tired Loaders	50	439831.6379	5.614744166	0.400950715	1.1320515	440090.8117	5.317604813	0.340671122	0.992327638	71578.77015	71578.77015	81.43099669	0.16	0.01	0.03	0.01	6.15
2024	SC	Construction and Mining	24	Rubber Tired Loaders	120	10721499.27	126.6337904	9.208009119	12.74782355	10731278.56	108.831217	7.186150426	10.70328949	948699.7263	948699.7263	1012.385364	0.27	0.02	0.03	0.02	11.31
2024	SC	Construction and Mining	24	Rubber Tired Loaders	175	25392465.97	198.1908246	10.82393774	19.65452486	25392682.24	144.1823123	7.690483092	15.56062763	1279546.231	1279546.231	1326.554953	0.31	0.02	0.03	0.02	19.85
2024	SC	Construction and Mining	24	Rubber Tired Loaders	250	35040085.86	234.0732708	8.038969023	19.83919875	35054077.65	191.0647674	6.392734008	17.22929937	1288330.064	1288330.064	1179.098824	0.36	0.01	0.03	0.01	27.21
2024	SC	Construction and Mining	24	Rubber Tired Loaders	500	45643972.29	307.6920319	11.5314394	28.26823895	45754066.01	235.6194852	8.741501888	23.96155745	1086017.397	1086017.397	1095.466989	0.57	0.02	0.05	0.02	42.13
2024	SC	Construction and Mining	24	Rubber Tired Loaders	750	8208925.949	56.77897686	2.098152352	5.124458081	8212730.647	47.1264232	1.80635704	4.670046951	104597.4619	104597.4619	96.83686093	1.09	0.04	0.10	0.04	78.52
2024	SC	Construction and Mining	24	Rubber Tired Loaders	1000	2351444.899	34.16099912	0.852388163	1.66567941	2359396.131	25.09653395	0.505912675	1.174245646	21221.23136	21221.23136	17.60670199	3.22	0.08	0.16	0.07	111.18
2024	SC	Construction and Mining	24	Rubber Tired Loaders	9999	935082.4468	13.2366891	0.316540148	0.66544203	935082.4468	11.81686139	0.259291704	0.566913536	4661.354986	4661.354986	3.85146606	5.68	0.14	0.29	0.12	200.60
2024	SC	Construction and Mining	25	Scrapers	50	10087.14059	0.175134695	0.023408421	0.070035154	10087.14059	0.175032316	0.023406581	0.069983317	1424.049447	1424.049447	3.806579509	0.25	0.03	0.10	0.03	7.08
2024	SC	Construction and Mining	25	Scrapers	120	459305.9119	8.605018127	0.665293692	0.759376846	459223.9643	7.597252068	0.559022363	0.640647661	30081.53563	30081.53563	54.92350435	0.57	0.04	0.05	0.04	15.27
2024	SC	Construction and Mining	25	Scrapers	175	4858388.917	62.02660988	3.383143082	5.272750466	4860297.427	45.42666488	2.395915973	3.997786007	162884.6722	162884.6722	352.9243002	0.76	0.04	0.06	0.04	29.84
2024	SC	Construction and Mining	25	Scrapers	250	5588063.462	79.9963604	3.64001489	6.186104673	5592383.006	50.91454064	2.249431869	4.208378644	141216.843	141216.843	342.5921558	1.13	0.05	0.09	0.05	39.60
2024	SC	Construction and Mining	25	Scrapers	500	48933083.77	446.5469246	18.16169295	35.34268518	48940653.07	363.4939532	14.36709466	29.66990022	723679.8642	723679.8642	1505.774094	1.23	0.05	0.10	0.05	67.63
2024	SC	Construction and Mining	25	Scrapers	750	22361633.1	164.9767562	6.547145336	13.38781672	22333024.09	146.8648808	5.423280709	11.81302809	223583.3799	223583.3799	429.0558904	1.48	0.06	0.12	0.05	99.89
2024	SC	Construction and Mining	25	Scrapers	1000	350147.7266	11.2530261	0.512496808	0.80843755	350147.7266	14.08428975	0.656661079	1.020126621	2081.873525	2081.873525	7.069361946	10.81	0.49	0.78	0.45	168.19
2024	SC	Construction and Mining	25	Scrapers	9999	1272705.988	15.34826642	0.355037029	0.701130466	1272705.988	15.00213962	0.341810475	0.655642797	3657.735751	3657.735751	7.069361946	8.39	0.19	0.38	0.18	347.95
2024	SC	Construction and Mining	26	Skid Steer Loaders	50	2398304.203	21.09683479	0.470979274	1.649601038	2398789.622	21.55840932	0.571514243	1.861053561	364948.1916	364948.1916	1132.906109	0.12	0.00	0.01	0.00	6.57
2024	SC	Construction and Mining	26	Skid Steer Loaders	120	12749092.32	72.14676148	2.179603739	4.505715825	12746106.42	74.46755693	2.393779894	4.640528358	1333946.089	1333946.089	3655.967212	0.11	0.00	0.01	0.00	9.56
2024	SC	Construction and Mining	26	Skid Steer Loaders	175	86151.19362	0.404989627	0.017017258	0.033356223	86110.99984	0.322676969	0.013658017	0.02808055	4192.431587	4192.431587	15.1653272	0.19	0.01	0.02	0.01	20.54
2024	SC	Construction and Mining	26	Skid Steer Loaders	250	65802.66656	0.143004547	0.003752548	0.013627801	65746.30372	0.273233468	0.008364337	0.018777161	2478.615825	2478.615825	8.425181776	0.12	0.00	0.01	0.00	26.53
2024	SC	Construction and Mining	26	Skid Steer Loaders	500	18167.62029	0.014392844	0.000503174	0.002973131	18167.62029	0.014342613	0.00049866	0.002854103	498.6136791	498.6136791	1.685036355	0.06	0.00	0.01	0.00	36.44
2024	SC	Construction and Mining	26	Skid Steer Loaders	750	19164.44507	0.141393048	0.006199503	0.008742006	19164.44507	0.141393048	0.006199503	0.008742006	267.3725525	267.3725525	0.561678785	1.06	0.05	0.07	0.04	71.68
2024	SC	Construction and Mining	26	Skid Steer Loaders	1000	31272.93434	0.216168953	0.001780923	0.005164647	31272.93434	0.214791951	0.002887255	0.005702462	231.2411266	231.2411266	1.12335757	1.87	0.02	0.04	0.01	135.24
2024	SC	Construction and Mining	27	Surfacing Equipment	50	22218.31754	0.222438251	0.007367973	0.017949306	22219.06407	0.218670724	0.006820809	0.016180664	4958.069754	4958.069754	19.87279188	0.09	0.00	0.01	0.00	4.48
2024	SC	Construction and Mining	27	Surfacing Equipment	120	174684.2092	1.556696124	0.080043468	0.113972888	174791.6398	1.502881217	0.074227521	0.108171512	17688.5548	17688.5548	63.69484576	0.18	0.01	0.01	0.01	9.88
2024	SC	Construction and Mining	27	Surfacing Equipment	175	89640.82728	0.719171292	0.035628274	0.05515243	89630.70893	0.666054935	0.03247985	0.050933315	5387.886316	5387.886316	21.40146817	0.27	0.01	0.02	0.01	16.64
2024	SC	Construction and Mining	27	Surfacing Equipment	250	190856.9825	1.222937745	0.039412234	0.080970042	190851.3187	1.268427758	0.040262517	0.082384937	7898.539209	7898.539209	32.10220226	0.31	0.01	0.02	0.01	24.16
2024	SC	Construction and Mining	27	Surfacing Equipment	500	604535.0047	2.669828733	0.100669281	0.199963959	603941.4061	2.690784095	0.101771167	0.201293013	15120.55347	15120.55347	52.99411167	0.35	0.01	0.03	0.01	39.94
2024	SC	Construction and Mining	27	Surfacing Equipment	750	559570.6	1.58799419	0.057827805	0.13069087	559570.6	1.58799419	0.057827805	0.13069087	8205.75374	8205.75374	26.49705583	0.39	0.01	0.03	0.01	68.19
2024	SC	Construction and Mining	27	Surfacing Equipment	1000	90944.55066	1.134439483	0.024712541	0.046406831	90944.55066	0.81413833	0.014374254	0.029110264	1005.600558	1005.600558	3.566911362	2.26	0.05	0.09	0.05	90.44
2024	SC	Construction and Mining	27	Surfacing Equipment	9999	31871.73642	0.219123805	0.003124439	0.007185125	31871.73642	0.218643231	0.003110042	0.007042778	256.4809624	256.4809624	1.019117532	1.71	0.02	0.06	0.02	124.27
2024	SC	Construction and Mining	28	Tractors/Loaders/Backhoes	50	4733494.538	50.68438515	2.465329415	7.171231363	4727096.196	49.14859488	2.163700073	6.355065097	838276.4134	838276.4134	1585.416405	0.12	0.01	0.02	0.01	5.64

**Table C.18 CARB Offroad 2011 output**  
Used to calculate NOx, PM, HC, and fuel consumption

CalendarYear	AirBasin	Equipment Class	EquipmentTypeID	Equipment Type	HorsepowerBin	lb/yr	ton/yr	ton/yr	ton/yr	lb/yr	ton/yr	ton/yr	ton/yr	hr/yr	hr/yr	Emissions per Equipment (lb/hr)					lb/hr
						BaseBSFC	BaseNOx	BasePM	BaseHC	ScenBSFC	ScenNOx	ScenPM	ScenHC	BaseActivity	ScenActivity	Population	NOx	PM	HC	PM2.5	BSFC per equipment
2024	SC	Construction and Mining	28	Tractors/Loaders/Backhoes	120	76395655.88	570.3697904	29.54104757	48.88754475	76418090.75	519.9943569	23.86439444	42.7083699	6769638.25	6769638.25	10764.81166	0.17	0.01	0.01	0.01	11.29
2024	SC	Construction and Mining	28	Tractors/Loaders/Backhoes	175	13224183.1	63.73872249	3.198400975	6.485573096	13234479.16	55.02326503	2.736782603	5.813661767	683730.6605	683730.6605	1204.253576	0.19	0.01	0.02	0.01	19.36
2024	SC	Construction and Mining	28	Tractors/Loaders/Backhoes	250	7662929.215	39.65702202	1.473576364	3.536386721	7657838.942	34.45344826	1.25898536	3.199981336	278536.7056	278536.7056	481.7014302	0.28	0.01	0.03	0.01	27.49
2024	SC	Construction and Mining	28	Tractors/Loaders/Backhoes	500	10279762.29	41.72672031	1.565403515	4.236428093	10271430.93	36.03669624	1.374215125	3.849507639	238234.3698	238234.3698	434.746589	0.35	0.01	0.04	0.01	43.11
2024	SC	Construction and Mining	28	Tractors/Loaders/Backhoes	750	1460117.963	9.253499396	0.360494603	0.793194822	1459256.979	9.823143702	0.378719001	0.80923018	18995.94342	18995.94342	30.38254434	0.97	0.04	0.08	0.03	76.82
2024	SC	Construction and Mining	28	Tractors/Loaders/Backhoes	1000	246187.4969	2.170303316	0.037792524	0.084295488	246187.4969	2.167329165	0.037703425	0.083414536	2071.649297	2071.649297	2.762049485	2.10	0.04	0.08	0.03	118.84
2024	SC	Construction and Mining	28	Tractors/Loaders/Backhoes	9999	3459944.623	34.12123595	0.678834412	1.606915029	3459944.623	32.80668315	0.615335927	1.483320903	12736.98787	12736.98787	20.43916619	5.36	0.11	0.25	0.10	271.65
2024	SC	Construction and Mining	29	Trenchers	50	1678628.361	17.7314098	0.971342937	2.470823932	1678000.006	17.30863362	0.887253235	2.240812476	204888.9616	204888.9616	519.9125683	0.17	0.01	0.02	0.01	8.19
2024	SC	Construction and Mining	29	Trenchers	120	1215965.971	17.91058127	1.28558963	1.628662516	1217405.503	16.66896735	1.153219604	1.482555705	79843.8696	79843.8696	241.0503726	0.45	0.03	0.04	0.03	15.25
2024	SC	Construction and Mining	29	Trenchers	175	248330.1518	3.162612097	0.161514171	0.255916607	248321.0325	2.760421378	0.140528133	0.226142673	9445.709065	9445.709065	31.90372578	0.67	0.03	0.05	0.03	26.29
2024	SC	Construction and Mining	29	Trenchers	250	487333.982	5.447563133	0.233784376	0.405221208	487493.4247	5.080384745	0.212173501	0.375605714	12056.63043	12056.63043	37.81182315	0.90	0.04	0.07	0.04	40.43
2024	SC	Construction and Mining	29	Trenchers	500	818936.7076	5.707358464	0.235530084	0.452062221	818913.5764	4.591850648	0.19744758	0.391220754	12440.14852	12440.14852	34.26696473	0.92	0.04	0.07	0.03	65.83
2024	SC	Construction and Mining	29	Trenchers	750	370495.8818	0.33695038	0.010135353	0.058897042	370495.8818	0.33695038	0.010135353	0.058897042	3227.684924	3227.684924	7.089716841	0.21	0.01	0.04	0.01	114.79
2024	SC	Construction and Mining	29	Trenchers	1000	21897.28627	0.880793166	0.041065798	0.063795944	21897.28627	0.880793166	0.041065798	0.063795944	138.0669448	138.0669448	0.590809737	12.76	0.59	0.92	0.55	158.60
2024	SC	Construction and Mining	36	Sweepers/Scrubbers	50	1461273.069	16.75706223	1.067320662	2.743886724	1461273.069	16.08655625	0.940728892	2.431730277	220681.3734	220681.3734	305.1719863	0.15	0.01	0.02	0.01	6.62
2024	SC	Construction and Mining	36	Sweepers/Scrubbers	120	2258445.987	22.40463597	1.469178069	2.085164456	2258445.987	20.92676852	1.273077771	1.853250115	173468.1984	173468.1984	248.4586083	0.26	0.02	0.02	0.02	13.02
2024	SC	Construction and Mining	36	Sweepers/Scrubbers	175	563346.6426	6.613999542	0.308937998	0.565770382	563346.6426	3.804098224	0.180947318	0.371434043	21079.54725	21079.54725	28.6267527	0.63	0.03	0.05	0.03	26.72
2024	SC	Construction and Mining	36	Sweepers/Scrubbers	250	300241.0546	1.507512249	0.045870714	0.12808029	300241.0546	1.461077063	0.045760936	0.123015975	8820.591882	8820.591882	11.88280301	0.34	0.01	0.03	0.01	34.04
2024	SC	Construction and Mining	36	Sweepers/Scrubbers	500	83763.32736	0.60015626	0.020633643	0.044101284	83763.32736	0.599855619	0.020606623	0.043388878	1656.070275	1656.070275	2.160509637	0.72	0.02	0.05	0.02	50.58
2024	SC	Construction and Mining	36	Sweepers/Scrubbers	1000	58703.55504	0.401057334	0.003201598	0.008296309	58703.55504	0.401057334	0.003201598	0.008296309	414.0175687	414.0175687	0.540127409	1.94	0.02	0.04	0.01	141.79
2025	SC	Construction and Mining	11	Bore/Drill Rigs	50	139077.6712	1.475465061	0.071762698	0.181709173	138975.0274	1.471077086	0.071428861	0.180551264	16999.79466	16999.79466	46.50452068	0.17	0.01	0.02	0.01	8.18
2025	SC	Construction and Mining	11	Bore/Drill Rigs	120	865538.3583	5.186394812	0.175580547	0.340460505	863576.053	5.228696439	0.179364955	0.340083844	58389.75161	58389.75161	142.4506896	0.18	0.01	0.01	0.01	14.79
2025	SC	Construction and Mining	11	Bore/Drill Rigs	175	1009213.179	2.764284425	0.122763299	0.289463344	1008246.774	2.653861558	0.115829006	0.281096105	36329.43205	36329.43205	111.6108496	0.15	0.01	0.02	0.01	27.75
2025	SC	Construction and Mining	11	Bore/Drill Rigs	250	1434036.96	4.348720035	0.142613535	0.395971597	1431612.585	4.128027646	0.135512875	0.382796666	37477.13074	37477.13074	111.1213284	0.23	0.01	0.02	0.01	38.20
2025	SC	Construction and Mining	11	Bore/Drill Rigs	500	1610682.264	4.073500541	0.139534561	0.414110466	1605531.068	4.009177614	0.137090198	0.409193398	25186.66609	25186.66609	77.83388197	0.32	0.01	0.03	0.01	63.75
2025	SC	Construction and Mining	11	Bore/Drill Rigs	750	2189172.927	3.938704462	0.147232035	0.457582026	2192712.39	3.852076694	0.146216075	0.45095621	19057.98496	19057.98496	38.67218035	0.41	0.02	0.05	0.01	115.05
2025	SC	Construction and Mining	11	Bore/Drill Rigs	1000	171995.7631	1.18510732	0.009681389	0.027283615	171995.7631	1.182963265	0.009617158	0.02664854	1015.14207	1015.14207	1.468563811	2.33	0.02	0.05	0.02	169.43
2025	SC	Construction and Mining	11	Bore/Drill Rigs	9999	582880.7483	7.590758158	0.193648577	0.29647521	582880.7483	7.590758158	0.193648577	0.29647521	1185.246957	1185.246957	1.468563811	12.81	0.33	0.50	0.30	491.78
2025	SC	Construction and Mining	12	Cranes	50	45929.3864	0.684435743	0.062958961	0.171876491	45929.3864	0.708663711	0.068243256	0.188204059	9745.840863	9745.840863	21.5410882	0.14	0.01	0.04	0.01	4.71
2025	SC	Construction and Mining	12	Cranes	120	1095856.029	18.68827726	1.332737815	1.808166139	1095560.56	13.68074028	0.86136314	1.266780376	117119.4239	117119.4239	259.7239777	0.32	0.02	0.03	0.02	9.35
2025	SC	Construction and Mining	12	Cranes	175	2892800.062	39.99669523	2.206720247	3.375224935	2892792.508	27.30384945	1.436985265	2.386029555	183956.0551	183956.0551	389.5859666	0.43	0.02	0.04	0.02	15.73
2025	SC	Construction and Mining	12	Cranes	250	4885545.326	61.21924818	2.78247847	4.729728079	4885433.177	39.26751668	1.66915156	3.204415817	212512.0852	212512.0852	437.5918203	0.58	0.03	0.04	0.02	22.99
2025	SC	Construction and Mining	12	Cranes	500	7482764.944	69.12142492	2.959311623	5.468846285	7483075.477	48.42768835	1.976229442	4.05756623	210607.4253	210607.4253	419.7434901	0.66	0.03	0.05	0.03	35.53

**Table C.18 CARB Offroad 2011 output**  
Used to calculate NOx, PM, HC, and fuel consumption

CalendarYear	AirBasin	Equipment Class	Equipment TypeID	Equipment Type	HorsepowerBin	lb/yr	ton/yr	ton/yr	ton/yr	lb/yr	ton/yr	ton/yr	ton/yr	hr/yr	hr/yr	Emissions per Equipment (lb/hr)				lb/hr	
						BaseBSFC	BaseNOx	BasePM	BaseHC	ScenBSFC	ScenNOx	ScenPM	ScenHC	BaseActivity	ScenActivity	Population	NOx	PM	HC	PM2.5	BSFC per equipment
2025	SC	Construction and Mining	12	Cranes	750	1968921.896	12.93368399	0.52956946	1.020685984	1969004.538	9.721643142	0.402092806	0.842376276	32957.06875	32957.06875	61.54596629	0.78	0.03	0.06	0.03	59.74
2025	SC	Construction and Mining	12	Cranes	1000	461601.9719	8.496987879	0.304650752	0.497319291	461279.0923	8.755943273	0.368632066	0.580481493	4685.035094	4685.035094	9.231894943	3.63	0.13	0.21	0.12	98.46
2025	SC	Construction and Mining	12	Cranes	9999	35561.11196	0.258715486	0.006939368	0.020190804	35561.11196	0.258715486	0.006939368	0.020190804	326.5342833	326.5342833	0.615459663	1.58	0.04	0.12	0.04	108.90
2025	SC	Construction and Mining	13	Crawler Tractors	50	140068.1532	2.162187411	0.233121161	0.720291668	140102.1654	1.899606756	0.17554799	0.554602969	19154.36448	19154.36448	54.62524207	0.23	0.02	0.08	0.02	7.31
2025	SC	Construction and Mining	13	Crawler Tractors	120	6194133.234	88.46784308	6.930128693	8.756343404	6194354.792	73.06864453	5.252619816	6.921056402	449296.9433	449296.9433	940.1004161	0.39	0.03	0.04	0.03	13.79
2025	SC	Construction and Mining	13	Crawler Tractors	175	6743252.519	74.33414089	4.248123986	6.536052928	6746526.302	54.51563093	3.042224918	4.991224657	286959.006	286959.006	615.0802257	0.52	0.03	0.05	0.03	23.51
2025	SC	Construction and Mining	13	Crawler Tractors	250	6785813.241	61.78917543	2.485454151	4.677173439	6785393.028	50.21402288	1.959833096	3.91854814	212758.1263	212758.1263	449.5657423	0.58	0.02	0.04	0.02	31.89
2025	SC	Construction and Mining	13	Crawler Tractors	500	18196646.81	124.9164681	5.233726987	10.67292846	18194643.51	104.4974898	4.381163262	9.353229971	337961.712	337961.712	722.6919526	0.74	0.03	0.06	0.03	53.84
2025	SC	Construction and Mining	13	Crawler Tractors	750	7092458.509	41.16617638	1.546975677	3.454022863	7093596.071	32.88318986	1.207048747	2.938100787	79005.69953	79005.69953	148.034406	1.04	0.04	0.09	0.04	89.79
2025	SC	Construction and Mining	13	Crawler Tractors	1000	938314.5866	14.62363961	0.375891682	0.703158058	940871.5447	12.89991897	0.312756326	0.6017065	7167.083306	7167.083306	13.1100581	4.08	0.10	0.20	0.10	131.28
2025	SC	Construction and Mining	13	Crawler Tractors	9999	496922.0785	5.370818024	0.098091172	0.195910563	496922.0785	5.282744686	0.095070617	0.184708242	2152.654066	2152.654066	3.277514524	4.99	0.09	0.18	0.08	230.84
2025	SC	Construction and Mining	14	Excavators	50	5602300.182	51.28328396	1.446645634	4.805603286	5607433.944	52.21394077	1.624103378	5.039846545	1005097.646	1005097.646	1337.899696	0.10	0.00	0.01	0.00	5.58
2025	SC	Construction and Mining	14	Excavators	120	7280427.009	47.094025	1.998153358	3.836135899	7273694.235	46.01391803	1.884099812	3.663934522	641840.9455	641840.9455	967.6908566	0.15	0.01	0.01	0.01	11.33
2025	SC	Construction and Mining	14	Excavators	175	15336573.17	52.24773326	2.487354182	5.97480623	15341391.83	53.11009908	2.603776648	6.00420721	748808.3299	748808.3299	1229.465746	0.14	0.01	0.02	0.01	20.49
2025	SC	Construction and Mining	14	Excavators	250	19505861.42	52.59779257	1.78379982	6.314822642	19503835.76	56.30144316	1.849435708	6.322756505	636273.4472	636273.4472	1056.957189	0.17	0.01	0.02	0.01	30.65
2025	SC	Construction and Mining	14	Excavators	500	32342754.26	65.76045887	2.375288353	9.249631641	323360238.1	70.81616652	2.505509682	9.27756235	704652.966	704652.966	1075.029514	0.19	0.01	0.03	0.01	45.89
2025	SC	Construction and Mining	14	Excavators	750	2931558.772	8.388600704	0.310338198	0.986163504	2932915.745	9.103146242	0.3370979	1.018805256	36477.89119	36477.89119	54.7646212	0.46	0.02	0.05	0.02	80.40
2025	SC	Construction and Mining	14	Excavators	1000	327177.6893	2.338748853	0.027047915	0.084162911	327162.8009	2.321447202	0.023801402	0.075946053	2789.84782	2789.84782	4.381169696	1.68	0.02	0.06	0.02	117.27
2025	SC	Construction and Mining	14	Excavators	9999	640329.5211	4.451740618	0.037231329	0.113322541	640329.5211	4.44756452	0.037106222	0.11208557	2939.684234	2939.684234	3.833523484	3.03	0.03	0.08	0.02	217.82
2025	SC	Construction and Mining	15	Graders	50	37031.83957	0.612255744	0.071631027	0.206335942	37095.03496	0.537428506	0.055576357	0.164203468	6040.386625	6040.386625	17.06352999	0.20	0.02	0.07	0.02	6.14
2025	SC	Construction and Mining	15	Graders	120	989402.5593	20.95366591	1.646921484	2.198706262	994223.2883	15.27244237	1.117437812	1.586646135	73424.31434	73424.31434	181.6440289	0.57	0.04	0.06	0.04	13.54
2025	SC	Construction and Mining	15	Graders	175	9205096.991	116.0813985	6.442635957	10.44859431	9214951.385	75.74164913	4.153279071	7.419362212	409655.8428	409655.8428	849.8738807	0.57	0.03	0.05	0.03	22.49
2025	SC	Construction and Mining	15	Graders	250	16017102.49	141.7158382	4.727997706	10.28784213	16000239.69	122.4823064	3.941985461	9.109955524	520443.6654	520443.6654	674.8350892	0.54	0.02	0.04	0.02	30.74
2025	SC	Construction and Mining	15	Graders	500	4579849.889	31.56018518	1.230320879	3.219679004	4579971.753	31.24205902	1.213602923	3.187220253	104440.9856	104440.9856	126.0499473	0.60	0.02	0.06	0.02	43.85
2025	SC	Construction and Mining	15	Graders	1000	44471.13741	0.327690634	0.003140414	0.013354632	44471.13741	0.327690634	0.003140414	0.013354632	372.4727176	372.4727176	0.550436451	1.76	0.02	0.07	0.02	119.39
2025	SC	Construction and Mining	15	Graders	9999	626468.7171	7.732739726	0.178675909	0.374725262	626468.7171	7.482737189	0.16872477	0.344816844	2099.692694	2099.692694	2.752182256	7.37	0.17	0.36	0.16	298.36
2025	SC	Construction and Mining	16	Off-Highway Tractors	50	2322470.051	24.9334238	1.297070826	3.578050128	2319086.954	23.11554918	0.878502328	2.681862398	346962.5997	346962.5997	512.4719471	0.14	0.01	0.02	0.01	6.68
2025	SC	Construction and Mining	16	Off-Highway Tractors	120	2961292.803	27.67457731	1.727209944	2.494653776	2968645.531	23.89474772	1.270299359	2.012167922	246674.6879	246674.6879	372.6086865	0.22	0.01	0.02	0.01	12.03
2025	SC	Construction and Mining	16	Off-Highway Tractors	175	2526588.528	10.34958359	0.502167139	1.12332501	2525850.575	10.20412804	0.489273383	1.095773791	99710.35696	99710.35696	141.4832983	0.21	0.01	0.02	0.01	25.33
2025	SC	Construction and Mining	16	Off-Highway Tractors	250	2119837.718	8.255997551	0.298710019	0.883828045	2118000.726	7.119016503	0.255418028	0.814317554	62126.67082	62126.67082	92.34215274	0.27	0.01	0.03	0.01	34.09
2025	SC	Construction and Mining	16	Off-Highway Tractors	500	5954439.001	16.85744229	0.627477109	2.062327145	5954793.734	12.90799778	0.44103357	1.822084963	111853.5955	111853.5955	158.7637012	0.30	0.01	0.04	0.01	53.24
2025	SC	Construction and Mining	16	Off-Highway Tractors	750	1500496.85	4.709334391	0.200791965	0.623014765	1500256.818	5.039524864	0.203067641	0.623198838	16371.11233	16371.11233	23.22054133	0.58	0.02	0.08	0.02	91.64
2025	SC	Construction and Mining	16	Off-Highway Tractors	1000	42557.48632	0.296536337	0.002494397	0.007728721	42557.48632	0.317264914	0.008877515	0.020936731	266.2696974	266.2696974	0.540012589	2.23	0.02	0.06	0.02	159.83

**Table C.18 CARB Offroad 2011 output**  
Used to calculate NOx, PM, HC, and fuel consumption

CalendarYear	AirBasin	Equipment Class	Equipment TypeID	Equipment Type	HorsepowerBin	lb/yr	ton/yr	ton/yr	ton/yr	lb/yr	ton/yr	ton/yr	ton/yr	hr/yr	hr/yr	Emissions per Equipment (lb/hr)					lb/hr
						BaseBSFC	BaseNOx	BasePM	BaseHC	ScenBSFC	ScenNOx	ScenPM	ScenHC	BaseActivity	ScenActivity	Population	NOx	PM	HC	PM2.5	BSFC per equipment
2025	SC	Construction and Mining	16	Off-Highway Tractors	9999	346422.0132	4.92537178	0.140565557	0.328937632	334116.0239	2.916673933	0.061670535	0.165879357	1236.328548	1236.328548	2.160050356	7.97	0.23	0.53	0.21	270.25
2025	SC	Construction and Mining	17	Off-Highway Trucks	50	224640.201	2.535523489	0.131327701	0.386788827	224611.0395	2.453971169	0.1132142	0.343054399	50405.74944	50405.74944	30.49921038	0.10	0.01	0.02	0.00	4.46
2025	SC	Construction and Mining	17	Off-Highway Trucks	120	272273.8283	2.742831597	0.176219461	0.273093984	272227.0822	2.354151361	0.132349069	0.234448498	22623.50433	22623.50433	17.12236372	0.24	0.02	0.02	0.01	12.03
2025	SC	Construction and Mining	17	Off-Highway Trucks	175	5271161.54	20.51117707	0.974419716	2.748581857	5265771.933	21.21305735	1.028995808	2.804882868	237489.2063	237489.2063	163.7326031	0.17	0.01	0.02	0.01	22.17
2025	SC	Construction and Mining	17	Off-Highway Trucks	250	10805891.98	53.75204997	2.189188634	6.071217128	10804567.16	36.86265862	1.409482384	4.989126682	367604.3787	367604.3787	280.378706	0.29	0.01	0.03	0.01	29.39
2025	SC	Construction and Mining	17	Off-Highway Trucks	500	45795941.92	174.9079984	6.444957342	21.99435602	45813754.73	145.48369	5.199590679	20.03489548	872320.9326	872320.9326	622.8259805	0.40	0.01	0.05	0.01	52.52
2025	SC	Construction and Mining	17	Off-Highway Trucks	750	16455103.38	94.34431405	3.515028216	9.905549781	16457869.13	85.76026655	3.23374736	9.526226494	177422.0826	177422.0826	142.3296485	1.06	0.04	0.11	0.04	92.76
2025	SC	Construction and Mining	17	Off-Highway Trucks	1000	11391910.08	110.9940431	2.062744665	5.584887722	11416169.96	107.2056719	1.937072992	5.288096719	90530.14604	90530.14604	65.2790117	2.45	0.05	0.12	0.04	126.10
2025	SC	Construction and Mining	17	Off-Highway Trucks	9999	16518187.44	142.3385608	2.170639769	6.495272597	16509788.87	141.8760358	2.19695837	6.503378181	65763.9182	65763.9182	42.27083544	4.33	0.07	0.20	0.06	251.05
2025	SC	Construction and Mining	18	Other Construction Equipment	50	1253069.84	14.88789297	0.993501209	2.364347057	1255489.565	14.49020363	0.901333316	2.105802244	193372.5037	193372.5037	395.7520237	0.15	0.01	0.02	0.01	6.49
2025	SC	Construction and Mining	18	Other Construction Equipment	120	3938041.036	42.44343216	2.81982221	3.791649512	3940080.913	38.43118851	2.398231475	3.332708863	316407.0004	316407.0004	698.2919287	0.27	0.02	0.02	0.02	12.45
2025	SC	Construction and Mining	18	Other Construction Equipment	175	2138975.452	17.8425944	0.955030978	1.550058653	2138435.292	13.98672498	0.723303913	1.2519081	92418.94842	92418.94842	217.3173966	0.39	0.02	0.03	0.02	23.14
2025	SC	Construction and Mining	18	Other Construction Equipment	250	2747460.51	18.23467906	0.733539846	1.468586575	2748768.016	15.74167631	0.611689202	1.294021293	82420.41828	82420.41828	194.9464881	0.44	0.02	0.04	0.02	33.35
2025	SC	Construction and Mining	18	Other Construction Equipment	500	9376353.611	48.07948982	1.826632154	4.171906892	9380912.011	43.35166643	1.659980114	3.886877617	170894.1905	170894.1905	378.707522	0.56	0.02	0.05	0.02	54.89
2025	SC	Construction and Mining	18	Other Construction Equipment	750	3655447.16	16.1266472	0.54812876	1.345584688	3657261.685	14.93395889	0.523712361	1.291007777	40012.23688	40012.23688	78.29817965	0.81	0.03	0.07	0.03	91.40
2025	SC	Construction and Mining	18	Other Construction Equipment	1000	429080.7762	3.879344453	0.073935004	0.153660527	429168.1773	3.400947492	0.057001725	0.126521369	3371.33653	3371.33653	6.924328813	2.30	0.04	0.09	0.04	127.30
2025	SC	Construction and Mining	18	Other Construction Equipment	9999	263769.9306	3.019062843	0.065839768	0.13446957	264118.8508	2.24931528	0.037004931	0.087350645	1579.720119	1579.720119	3.195844067	3.82	0.08	0.17	0.08	167.19
2025	SC	Construction and Mining	19	Pavers	50	153690.8845	1.776218022	0.122764692	0.352665542	153657.831	1.708297373	0.109414429	0.313852978	23380.62493	23380.62493	64.14489399	0.15	0.01	0.03	0.01	6.57
2025	SC	Construction and Mining	19	Pavers	120	1488141.054	14.40124526	0.922835683	1.238851011	1487990.48	13.77414807	0.855280404	1.164457609	123206.6321	123206.6321	311.6372766	0.23	0.01	0.02	0.01	12.08
2025	SC	Construction and Mining	19	Pavers	175	2021880.371	9.892584292	0.457390699	0.896297121	2021272.444	9.97143959	0.466953499	0.904765476	83766.37687	83766.37687	210.6090686	0.24	0.01	0.02	0.01	24.13
2025	SC	Construction and Mining	19	Pavers	250	1364110.669	3.834316734	0.123381904	0.347344367	1362986.832	4.224044217	0.137726798	0.360824082	41805.708	41805.708	90.87193315	0.18	0.01	0.02	0.01	32.60
2025	SC	Construction and Mining	19	Pavers	500	512633.0464	1.773262878	0.061140113	0.15001139	512568.0331	1.768198178	0.060882729	0.148012194	10405.94344	10405.94344	22.4507129	0.34	0.01	0.03	0.01	49.26
2025	SC	Construction and Mining	19	Pavers	750	59434.33146	0.046889197	0.001628476	0.009261581	59434.33146	0.046889197	0.001628476	0.009261581	519.8087217	519.8087217	1.069081566	0.18	0.01	0.04	0.01	114.34
2025	SC	Construction and Mining	20	Paving Equipment	50	191442.1585	1.884956712	0.072950431	0.205724993	191451.7672	1.889593581	0.073709822	0.205040953	38229.68868	38229.68868	78.98481143	0.10	0.00	0.01	0.00	5.01
2025	SC	Construction and Mining	20	Paving Equipment	120	868955.7506	6.457575168	0.323992783	0.528036928	868844.5844	6.495546992	0.306638883	0.519322285	75030.33416	75030.33416	161.1717098	0.17	0.01	0.01	0.01	11.58
2025	SC	Construction and Mining	20	Paving Equipment	175	818423.1341	4.047464944	0.195501862	0.376566289	818340.9774	3.721414062	0.184049454	0.357017601	42453.43621	42453.43621	88.05739112	0.19	0.01	0.02	0.01	19.28
2025	SC	Construction and Mining	20	Paving Equipment	250	429476.0791	1.80639011	0.068233859	0.160261302	429333.1694	1.430216702	0.055976323	0.141934511	15269.66587	15269.66587	32.0208695	0.24	0.01	0.02	0.01	28.12
2025	SC	Construction and Mining	20	Paving Equipment	500	605974.9613	2.303053187	0.086162593	0.210683131	605220.7611	2.07119315	0.075912977	0.199646849	13803.96378	13803.96378	28.81878255	0.33	0.01	0.03	0.01	43.84
2025	SC	Construction and Mining	20	Paving Equipment	750	286658.6229	0.451083123	0.00868626	0.063330409	286606.1938	0.446528778	0.008564506	0.060242969	3640.459688	3640.459688	6.937855058	0.25	0.00	0.03	0.00	78.73

**Table C.18 CARB Offroad 2011 output**  
Used to calculate NOx, PM, HC, and fuel consumption

CalendarYear	AirBasin	Equipment Class	EquipmentTypeID	Equipment Type	HorsepowerBin	lb/yr	ton/yr	ton/yr	ton/yr	lb/yr	ton/yr	ton/yr	ton/yr	hr/yr	hr/yr	Emissions per Equipment (lb/hr)				lb/hr	
						BaseBSFC	BaseNOx	BasePM	BaseHC	ScenBSFC	ScenNOx	ScenPM	ScenHC	BaseActivity	ScenActivity	Population	NOx	PM	HC	PM2.5	BSFC per equipment
2025	SC	Construction and Mining	20	Paving Equipment	1000	56149.40727	0.400900595	0.006807082	0.016322241	56149.40727	0.400900595	0.006807082	0.016322241	511.082262	511.082262	1.067362317	1.57	0.03	0.06	0.02	109.86
2025	SC	Construction and Mining	21	Rollers	50	3154967.356	32.13382347	1.560795518	4.397758606	3155708.246	31.37084854	1.420101298	3.998516273	576301.8203	576301.8203	1620.56715	0.11	0.01	0.02	0.00	5.48
2025	SC	Construction and Mining	21	Rollers	120	4930426.214	42.72002787	2.296356806	3.441056525	4928019.031	39.68569605	1.996034102	3.112821196	410454.4525	410454.4525	1208.558552	0.21	0.01	0.02	0.01	12.01
2025	SC	Construction and Mining	21	Rollers	175	5096648.902	17.02365894	0.757914367	1.623773131	5096269.645	16.85421645	0.756494437	1.603174769	257457.7064	257457.7064	698.7665812	0.13	0.01	0.01	0.01	19.79
2025	SC	Construction and Mining	21	Rollers	250	805225.6859	4.110345014	0.152525987	0.343417844	805323.093	4.296833076	0.158015703	0.344452525	27331.16847	27331.16847	85.69778825	0.30	0.01	0.03	0.01	29.47
2025	SC	Construction and Mining	21	Rollers	500	507356.4675	3.023318743	0.130686891	0.25461889	507384.3582	3.313944946	0.136289416	0.263389033	10876.2121	10876.2121	35.15806698	0.56	0.02	0.05	0.02	46.65
2025	SC	Construction and Mining	21	Rollers	750	24761.04503	0.087194078	0.003794609	0.00803851	24761.04503	0.053257197	0.000731449	0.006313319	344.9595615	344.9595615	1.098689593	0.51	0.02	0.05	0.02	71.78
2025	SC	Construction and Mining	22	Rough Terrain	50	160536.9811	1.487193688	0.049708702	0.151239249	160512.6338	1.507032633	0.055445705	0.163258993	20687.5475	20687.5475	73.60541625	0.14	0.00	0.01	0.00	7.76
2025	SC	Construction and Mining	22	Rough Terrain	120	12934660.68	72.79334367	2.190954108	4.665365131	12936482.12	70.59091054	1.982652192	4.403665442	908388.8687	908388.8687	3153.611369	0.16	0.00	0.01	0.00	14.24
2025	SC	Construction and Mining	22	Rough Terrain	175	2376260.463	5.276003939	0.198945185	0.504895432	2376281.384	5.61883878	0.213673315	0.51542049	124441.4126	124441.4126	421.9620845	0.08	0.00	0.01	0.00	19.10
2025	SC	Construction and Mining	22	Rough Terrain	250	195417.1692	0.364496448	0.011288034	0.036966474	195418.1676	0.872291512	0.020762934	0.059293251	6346.961754	6346.961754	24.74664857	0.11	0.00	0.01	0.00	30.79
2025	SC	Construction and Mining	22	Rough Terrain	500	82703.0919	0.099247201	0.002279032	0.014223944	82660.74556	0.119735193	0.002257587	0.014273106	1516.235279	1516.235279	5.710765054	0.13	0.00	0.02	0.00	54.52
2025	SC	Construction and Mining	22	Rough Terrain	750	12960.98046	0.010321462	0.000363774	0.002247717	12960.98046	0.052544725	0.000377012	0.003831628	140.5612858	140.5612858	0.63452945	0.15	0.01	0.03	0.00	92.21
2025	SC	Construction and Mining	23	Rubber Tired Dozers	50	138757.2731	2.549427066	0.337858464	0.938894059	139126.4276	1.382859377	0.047807796	0.163934351	20923.82235	20923.82235	21.44800548	0.24	0.03	0.09	0.03	6.65
2025	SC	Construction and Mining	23	Rubber Tired Dozers	120	665322.9814	15.34635873	1.334039256	1.63262988	662728.1236	10.33032042	0.804872001	1.079060888	55291.94339	55291.94339	63.82089435	0.56	0.05	0.06	0.04	11.99
2025	SC	Construction and Mining	23	Rubber Tired Dozers	175	552840.1431	11.67261045	0.661176911	0.977181304	553365.316	6.998299877	0.381384392	0.630509447	25372.7457	25372.7457	32.95669134	0.92	0.05	0.08	0.05	21.81
2025	SC	Construction and Mining	23	Rubber Tired Dozers	250	576743.8048	10.72319369	0.524340117	0.840105969	575962.2604	6.548318559	0.286510447	0.528901344	18717.57182	18717.57182	25.63298216	1.15	0.06	0.09	0.05	30.77
2025	SC	Construction and Mining	23	Rubber Tired Dozers	500	6602015.796	103.2759218	4.827795353	8.420603423	6599276.11	65.80863052	2.941749811	5.92095077	126593.1077	126593.1077	171.0609217	1.63	0.08	0.13	0.07	52.13
2025	SC	Construction and Mining	23	Rubber Tired Dozers	750	776347.5341	14.24262463	0.507897652	0.889550116	776347.5341	12.41184823	0.456478808	0.822951453	9143.424941	9143.424941	10.4624417	3.12	0.11	0.19	0.10	84.91
2025	SC	Construction and Mining	24	Rubber Tired Loaders	50	437445.416	5.430869236	0.367551412	1.089852483	437718.325	5.151167584	0.306384452	0.940052263	71236.69562	71236.69562	80.69725359	0.15	0.01	0.03	0.01	6.14
2025	SC	Construction and Mining	24	Rubber Tired Loaders	120	10675003.77	112.1755261	7.564932221	11.23112167	10682047.86	96.35135432	5.803255537	9.433777207	944165.8958	944165.8958	1003.263153	0.24	0.02	0.02	0.01	11.31
2025	SC	Construction and Mining	24	Rubber Tired Loaders	175	25281984.15	160.7795058	8.726181695	17.09446446	25276849.47	121.1409329	6.396488693	14.08248762	1273431.287	1273431.287	1314.601881	0.25	0.01	0.03	0.01	19.85
2025	SC	Construction and Mining	24	Rubber Tired Loaders	250	34879188.88	180.2791634	6.280598551	17.32569061	34892760.93	151.8352564	5.100464814	15.43321148	1282173.142	1282173.142	1168.474422	0.28	0.01	0.03	0.01	27.21
2025	SC	Construction and Mining	24	Rubber Tired Loaders	500	45515069.49	246.6431554	9.253332543	25.08252729	45596649.92	197.4210063	7.236439003	21.99001751	1080827.326	1080827.326	1085.596161	0.46	0.02	0.05	0.02	42.19
2025	SC	Construction and Mining	24	Rubber Tired Loaders	750	8167409.66	47.23338026	1.725868334	4.582085478	8176765.588	41.23499855	1.594662665	4.372421962	104097.5912	104097.5912	95.96430156	0.91	0.03	0.09	0.03	78.55
2025	SC	Construction and Mining	24	Rubber Tired Loaders	1000	2336927.468	30.87437765	0.713093635	1.445358257	2348669.966	21.76914252	0.366789639	0.96379687	21119.81522	21119.81522	17.44805483	2.92	0.07	0.14	0.06	111.21
2025	SC	Construction and Mining	24	Rubber Tired Loaders	9999	930610.1927	11.80849747	0.259319182	0.570171792	930610.1927	11.83068133	0.259983762	0.576742709	4639.078397	4639.078397	3.816761994	5.09	0.11	0.25	0.10	200.60
2025	SC	Construction and Mining	25	Scrapers	50	10038.93421	0.174660443	0.023398717	0.070110129	10038.93421	0.174561211	0.023396933	0.070059885	1417.243923	1417.243923	3.772279899	0.25	0.03	0.10	0.03	7.08
2025	SC	Construction and Mining	25	Scrapers	120	456794.2967	8.474430179	0.657875933	0.75548536	456709.3205	7.386927968	0.543390613	0.628307614	29937.77614	29937.77614	54.42860997	0.57	0.04	0.05	0.04	15.26
2025	SC	Construction and Mining	25	Scrapers	175	4837994.866	51.11639416	2.747312938	4.462064097	4838470.879	37.68497827	1.958509148	3.434266519	162106.2473	162106.2473	349.7442363	0.63	0.03	0.06	0.03	29.85
2025	SC	Construction and Mining	25	Scrapers	250	5561848.746	65.46418007	2.88065429	5.222085774	5566768.598	47.13153686	2.107992682	4.045990528	140541.9685	140541.9685	339.5051909	0.93	0.04	0.07	0.04	39.61
2025	SC	Construction and Mining	25	Scrapers	500	48673536.59	351.9456002	14.0866318	29.83759723	48675240.59	299.4757808	11.7878228	26.09905901	720221.4023	720221.4023	1492.206149	0.98	0.04	0.08	0.04	67.58
2025	SC	Construction and Mining	25	Scrapers	750	22284047.73	115.1419442	4.531895964	10.61898104	22258632.99	114.5001336	4.287600491	10.14464328	222514.8762	222514.8762	425.1898343	1.03	0.04	0.10	0.04	100.03

**Table C.18 CARB Offroad 2011 output**  
Used to calculate NOx, PM, HC, and fuel consumption

CalendarYear	AirBasin	Equipment Class	Equipment TypeID	Equipment Type	HorsepowerBin	lb/yr	ton/yr	ton/yr	ton/yr	lb/yr	ton/yr	ton/yr	ton/yr	hr/yr	hr/yr	Emissions per Equipment (lb/hr)					lb/hr
						BaseBSFC	BaseNOx	BasePM	BaseHC	ScenBSFC	ScenNOx	ScenPM	ScenHC	BaseActivity	ScenActivity	Population	NOx	PM	HC	PM2.5	BSFC per equipment
2025	SC	Construction and Mining	25	Scrapers	1000	348474.3727	11.27541602	0.514000817	0.81148192	348474.3727	14.01698102	0.6535229	1.015251442	2071.924263	2071.924263	7.005662669	10.88	0.50	0.78	0.46	168.19
2025	SC	Construction and Mining	25	Scrapers	9999	1266623.733	15.31211861	0.356155532	0.713389633	1266623.733	14.96235024	0.342660706	0.668263164	3640.255453	3640.255453	7.005662669	8.41	0.20	0.39	0.18	347.95
2025	SC	Construction and Mining	26	Skid Steer Loaders	50	2387767.515	20.72714008	0.43479604	1.597179629	2387598.805	21.22332711	0.538168546	1.808971511	363204.1063	363204.1063	1122.697932	0.11	0.00	0.01	0.00	6.57
2025	SC	Construction and Mining	26	Skid Steer Loaders	120	12680109	67.61409209	1.851819994	4.180429102	12679356.24	71.02868186	2.155328252	4.394263912	1327571.169	1327571.169	3623.02471	0.10	0.00	0.01	0.00	9.55
2025	SC	Construction and Mining	26	Skid Steer Loaders	175	85748.76883	0.284864844	0.009982817	0.024152909	85703.98894	0.25923545	0.009989586	0.023200679	4172.395981	4172.395981	15.02867832	0.14	0.00	0.01	0.00	20.54
2025	SC	Construction and Mining	26	Skid Steer Loaders	250	65527.60699	0.147061171	0.003862223	0.014185874	65469.247	0.274678262	0.008441314	0.019225181	2466.770534	2466.770534	8.349265733	0.12	0.00	0.01	0.00	26.54
2025	SC	Construction and Mining	26	Skid Steer Loaders	500	18080.79734	0.014379483	0.000505751	0.003090253	18080.79734	0.014332816	0.000501557	0.00297967	496.2308072	496.2308072	1.669853147	0.06	0.00	0.01	0.00	36.44
2025	SC	Construction and Mining	26	Skid Steer Loaders	750	19072.8583	0.140964531	0.006206284	0.008847828	19072.8583	0.140964531	0.006206284	0.008847828	266.0947806	266.0947806	0.556617716	1.06	0.05	0.07	0.04	71.68
2025	SC	Construction and Mining	26	Skid Steer Loaders	1000	31123.48116	0.215869276	0.001794383	0.005357198	31123.48116	0.21450163	0.002847684	0.005870985	230.1360266	230.1360266	1.113235431	1.88	0.02	0.05	0.01	135.24
2025	SC	Construction and Mining	27	Surfacing Equipment	50	22116.63562	0.206295097	0.004402983	0.012114275	22117.4	0.209187046	0.004770501	0.011342275	4934.375168	4934.375168	19.69372586	0.08	0.00	0.00	0.00	4.48
2025	SC	Construction and Mining	27	Surfacing Equipment	120	173907.199	1.440600776	0.070099911	0.106821691	174463.1305	1.379633097	0.064467293	0.099599283	17604.0213	17604.0213	63.12091622	0.16	0.01	0.01	0.01	9.91
2025	SC	Construction and Mining	27	Surfacing Equipment	175	89390.97686	0.5547596	0.026373246	0.042958764	89385.21885	0.537755996	0.025341826	0.041563548	5362.137639	5362.137639	21.20862785	0.21	0.01	0.02	0.01	16.67
2025	SC	Construction and Mining	27	Surfacing Equipment	250	190018.173	1.015904927	0.034285156	0.072761777	189944.8115	0.986326583	0.030999421	0.069000696	7860.792136	7860.792136	31.81294178	0.26	0.01	0.02	0.01	24.16
2025	SC	Construction and Mining	27	Surfacing Equipment	500	601175.3759	2.144172781	0.081458996	0.177393655	601094.2531	2.404461406	0.092414287	0.191511405	15048.29243	15048.29243	52.51666023	0.28	0.01	0.02	0.01	39.94
2025	SC	Construction and Mining	27	Surfacing Equipment	750	554572.1475	1.132587866	0.041806538	0.113052765	554032.3667	1.282199048	0.044494565	0.117652579	8166.53849	8166.53849	26.25830115	0.28	0.01	0.03	0.01	67.84
2025	SC	Construction and Mining	27	Surfacing Equipment	1000	90537.12005	0.909970842	0.01751977	0.0345281	90537.12005	0.812314014	0.014361157	0.029441997	1000.794799	1000.794799	3.534771308	1.82	0.04	0.07	0.03	90.47
2025	SC	Construction and Mining	27	Surfacing Equipment	9999	31719.42158	0.21875785	0.003139663	0.007425606	31719.42158	0.218293521	0.003125753	0.007288071	255.2552414	255.2552414	1.00993466	1.71	0.02	0.06	0.02	124.27
2025	SC	Construction and Mining	28	Tractors/Loaders/Backhoes	50	4704524.014	48.82854885	2.164883698	6.689811887	4704055.629	47.53440812	1.882284017	5.900787074	834270.2953	834270.2953	1571.130833	0.12	0.01	0.02	0.00	5.64
2025	SC	Construction and Mining	28	Tractors/Loaders/Backhoes	120	76080608.22	511.1031069	23.20896973	43.32949145	76125753.41	477.0746166	19.3307061	39.0195419	6737286.188	6737286.188	10667.81412	0.15	0.01	0.01	0.01	11.30
2025	SC	Construction and Mining	28	Tractors/Loaders/Backhoes	175	13179758.89	52.15451563	2.587877785	5.725059162	13169153.33	46.96078168	2.325775453	5.321600495	680463.1156	680463.1156	1193.402514	0.15	0.01	0.02	0.01	19.35
2025	SC	Construction and Mining	28	Tractors/Loaders/Backhoes	250	7637687.848	28.4966468	1.141893439	3.014829876	7632325.365	28.38950305	1.087802773	2.928181455	277205.5803	277205.5803	477.3610056	0.21	0.01	0.02	0.01	27.53
2025	SC	Construction and Mining	28	Tractors/Loaders/Backhoes	500	10251755.18	32.05246775	1.18608843	3.730275105	10240309.99	32.24286741	1.21324783	3.679792693	237095.8491	237095.8491	430.8292562	0.27	0.01	0.03	0.01	43.19
2025	SC	Construction and Mining	28	Tractors/Loaders/Backhoes	750	1452629.867	6.037219169	0.24797853	0.631300184	1451703.11	7.275095771	0.297214503	0.683176817	18905.16192	18905.16192	30.10877902	0.64	0.03	0.07	0.02	76.79
2025	SC	Construction and Mining	28	Tractors/Loaders/Backhoes	1000	244877.8497	2.151296052	0.037516194	0.082028345	244877.8497	2.148506772	0.037432633	0.081202153	2061.748897	2061.748897	2.737161729	2.09	0.04	0.08	0.03	118.77
2025	SC	Construction and Mining	28	Tractors/Loaders/Backhoes	9999	3443409.568	28.89987685	0.464164451	1.245258771	3443409.568	31.05798512	0.542481064	1.373574552	12676.11787	12676.11787	20.2549968	4.56	0.07	0.20	0.07	271.65
2025	SC	Construction and Mining	29	Trenchers	50	1671160.425	16.88900501	0.824598089	2.267621234	1670420.223	16.42916424	0.732172337	2.012420024	203909.7984	203909.7984	515.2278379	0.17	0.01	0.02	0.01	8.19
2025	SC	Construction and Mining	29	Trenchers	120	1210549.921	16.37131482	1.132276722	1.473856464	1212272.9	15.45455516	1.029299354	1.362670927	79462.29621	79462.29621	238.8783612	0.41	0.03	0.04	0.03	15.26
2025	SC	Construction and Mining	29	Trenchers	175	247143.3066	3.003226644	0.153268467	0.245919734	247133.9771	2.658765782	0.134231716	0.221686944	9400.568076	9400.568076	31.61625369	0.64	0.03	0.05	0.03	26.29
2025	SC	Construction and Mining	29	Trenchers	250	485440.3501	4.949655192	0.220298746	0.386466828	485236.7812	4.812742763	0.20907542	0.368002813	11999.01186	11999.01186	37.47111549	0.83	0.04	0.06	0.03	40.44
2025	SC	Construction and Mining	29	Trenchers	500	815795.511	5.327844477	0.218610216	0.429624624	815771.9308	4.489790047	0.193403368	0.388102319	12380.69712	12380.69712	33.95819841	0.86	0.04	0.07	0.03	65.89
2025	SC	Construction and Mining	29	Trenchers	750	368731.5998	0.336348066	0.010163057	0.060677033	368731.5998	0.336348066	0.010163057	0.060677033	3212.259837	3212.259837	7.025834154	0.21	0.01	0.04	0.01	114.79
2025	SC	Construction and Mining	29	Trenchers	1000	21792.63927	0.876583861	0.040869544	0.063491063	21792.63927	0.876583861	0.040869544	0.063491063	137.4071236	137.4071236	0.585486179	12.76	0.59	0.92	0.55	158.60
2025	SC	Construction and Mining	36	Sweepers/Scrubbers	50	1454289.653	15.6192779	0.841920602	2.275136763	1454289.653	15.13390753	0.751363883	2.018851539	219626.7383	219626.7383	302.4222	0.14	0.01	0.02	0.01	6.62

**Table C.18 CARB Offroad 2011 output**  
Used to calculate NOx, PM, HC, and fuel consumption

CalendarYear	AirBasin	Equipment Class	Equipment TypeID	Equipment Type	HorsepowerBin	lb/yr	ton/yr	ton/yr	ton/yr	lb/yr	ton/yr	ton/yr	ton/yr	hr/yr	hr/yr	Emissions per Equipment (lb/hr)					lb/hr
						BaseBSFC	BaseNOx	BasePM	BaseHC	ScenBSFC	ScenNOx	ScenPM	ScenHC	BaseActivity	ScenActivity	Population	NOx	PM	HC	PM2.5	BSFC per equipment
2025	SC	Construction and Mining	36	Sweepers/Scrubbers	120	2247652.887	19.42044567	1.156287316	1.799507231	2247652.887	18.93709096	1.073330304	1.683877432	172639.1949	172639.1949	246.2198442	0.22	0.01	0.02	0.01	13.02
2025	SC	Construction and Mining	36	Sweepers/Scrubbers	175	560654.4123	6.594561209	0.308256291	0.572555492	560654.4123	2.752298179	0.121253432	0.296187521	20978.80822	20978.80822	28.36880814	0.63	0.03	0.05	0.03	26.72
2025	SC	Construction and Mining	36	Sweepers/Scrubbers	250	298806.2043	0.882991959	0.029967986	0.107194441	298806.2043	1.456175503	0.045693482	0.126560784	8778.438325	8778.438325	11.77573168	0.20	0.01	0.02	0.01	34.04
2025	SC	Construction and Mining	36	Sweepers/Scrubbers	500	83363.02291	0.597930908	0.020611421	0.044838891	83363.02291	0.597631703	0.02058453	0.044129891	1648.155925	1648.155925	2.141042124	0.73	0.03	0.05	0.02	50.58
2025	SC	Construction and Mining	36	Sweepers/Scrubbers	1000	58423.0111	0.402414559	0.003284376	0.009226391	58423.0111	0.402414559	0.003284376	0.009226391	412.0389812	412.0389812	0.535260531	1.95	0.02	0.04	0.01	141.79
2026	SC	Construction and Mining	11	Bore/Drill Rigs	50	139202.5049	1.461549867	0.068518029	0.178817852	139049.8012	1.461914627	0.069478098	0.180751224	16911.58947	16911.58947	46.06839989	0.17	0.01	0.02	0.01	8.22
2026	SC	Construction and Mining	11	Bore/Drill Rigs	120	860712.6056	4.953218004	0.153984054	0.321736824	859558.6863	4.98090442	0.15589749	0.3178917	58086.79037	58086.79037	141.1147828	0.17	0.01	0.01	0.00	14.80
2026	SC	Construction and Mining	11	Bore/Drill Rigs	175	1006184.364	2.408363103	0.107166093	0.272020853	1004728.044	2.52268071	0.110036849	0.276603513	36140.93305	36140.93305	110.5641597	0.13	0.01	0.02	0.01	27.80
2026	SC	Construction and Mining	11	Bore/Drill Rigs	250	1425748.485	4.051777134	0.136322445	0.391375461	1425058.081	4.178166653	0.137065506	0.392112229	37282.67678	37282.67678	110.0792292	0.22	0.01	0.02	0.01	38.22
2026	SC	Construction and Mining	11	Bore/Drill Rigs	500	1590016.247	3.522114463	0.121211936	0.388025572	1599778.54	3.797168761	0.13050424	0.398088708	25055.98248	25055.98248	77.1039535	0.28	0.01	0.03	0.01	63.85
2026	SC	Construction and Mining	11	Bore/Drill Rigs	750	2183352.066	3.444878531	0.129905956	0.44035118	2180625.176	3.555141932	0.133087317	0.440403162	18959.10064	18959.10064	38.30951149	0.36	0.01	0.05	0.01	115.02
2026	SC	Construction and Mining	11	Bore/Drill Rigs	1000	171099.2359	1.18611687	0.009846229	0.029270182	171099.2359	1.184264113	0.009790724	0.028721391	1009.8749	1009.8749	1.454791575	2.35	0.02	0.06	0.02	169.43
2026	SC	Construction and Mining	11	Bore/Drill Rigs	9999	579856.4115	7.560536284	0.193414445	0.297763907	579856.4115	7.560536284	0.193414445	0.297763907	1179.097181	1179.097181	1.454791575	12.82	0.33	0.51	0.30	491.78
2026	SC	Construction and Mining	12	Cranes	50	45661.24598	0.651518448	0.057826318	0.160097381	45661.24598	0.633715288	0.053720975	0.14813983	9695.273563	9695.273563	21.33907523	0.13	0.01	0.03	0.01	4.71
2026	SC	Construction and Mining	12	Cranes	120	1090117.482	17.5319797	1.229968183	1.691506296	1089657.686	12.94046473	0.798925813	1.200242375	116511.7377	116511.7377	257.2882785	0.30	0.02	0.03	0.02	9.35
2026	SC	Construction and Mining	12	Cranes	175	2877651.958	35.47684671	1.943103091	3.04314488	2877918.272	23.80451418	1.236243856	2.135967192	183001.5801	183001.5801	385.9324177	0.39	0.02	0.03	0.02	15.73
2026	SC	Construction and Mining	12	Cranes	250	4860199.71	53.84447018	2.449299375	4.275527047	4860128.696	34.87621136	1.45826144	2.926446169	211409.4443	211409.4443	433.4880711	0.51	0.02	0.04	0.02	22.99
2026	SC	Construction and Mining	12	Cranes	500	7442419.155	62.66714868	2.672095891	5.123329789	7443331.72	46.16552441	1.890257666	3.99060224	209514.667	209514.667	415.8071231	0.60	0.03	0.05	0.02	35.53
2026	SC	Construction and Mining	12	Cranes	750	1959490.066	11.81802673	0.498235682	0.987428284	1959564.005	9.194757563	0.383857835	0.827576531	32786.0676	32786.0676	60.96878637	0.72	0.03	0.06	0.03	59.77
2026	SC	Construction and Mining	12	Cranes	1000	458907.7203	8.034810359	0.288889404	0.474817741	458907.7203	7.548536358	0.291794989	0.473056689	4660.726306	4660.726306	9.145317956	3.45	0.12	0.20	0.11	98.46
2026	SC	Construction and Mining	12	Cranes	9999	35376.59946	0.2585909	0.006994568	0.020856792	35376.59946	0.2585909	0.006994568	0.020856792	324.8400265	324.8400265	0.609687864	1.59	0.04	0.13	0.04	108.90
2026	SC	Construction and Mining	13	Crawler Tractors	50	139351.1093	2.154682952	0.232320521	0.718853753	139497.3548	1.817557141	0.157996312	0.509320733	19054.98009	19054.98009	54.11296492	0.23	0.02	0.08	0.02	7.32
2026	SC	Construction and Mining	13	Crawler Tractors	120	6161109.86	83.70721906	6.438487328	8.287570159	6164654.565	68.03756371	4.705618496	6.40677092	446965.7198	446965.7198	931.2841262	0.37	0.03	0.04	0.03	13.79
2026	SC	Construction and Mining	13	Crawler Tractors	175	6704263.63	66.0911595	3.767072278	5.947645766	6712281.51	49.11518041	2.72683736	4.62454929	285470.0896	285470.0896	609.311985	0.46	0.03	0.04	0.02	23.51
2026	SC	Construction and Mining	13	Crawler Tractors	250	6756019.481	55.71780641	2.25168042	4.373790369	6750219.193	46.2265784	1.824330507	3.754202353	211654.2088	211654.2088	445.3497013	0.53	0.02	0.04	0.02	31.89
2026	SC	Construction and Mining	13	Crawler Tractors	500	18128189.43	113.6916983	4.805591368	10.15266009	18099104.16	95.5047094	4.050539455	8.981206907	336208.1628	336208.1628	715.9145258	0.68	0.03	0.06	0.03	53.83
2026	SC	Construction and Mining	13	Crawler Tractors	750	7059694.411	36.11618054	1.345138303	3.195347339	7060347.642	28.32975982	1.04021131	2.730709502	78595.77031	78595.77031	146.6461349	0.92	0.03	0.08	0.03	89.83
2026	SC	Construction and Mining	13	Crawler Tractors	1000	927595.8817	13.59273382	0.338976325	0.644378805	936137.809	12.85999546	0.312415277	0.607440728	7129.896155	7129.896155	12.98711158	3.81	0.10	0.18	0.09	131.30
2026	SC	Construction and Mining	13	Crawler Tractors	9999	494343.747	5.325194642	0.097090934	0.198499742	494343.747	5.236360006	0.094028762	0.187449049	2141.484798	2141.484798	3.246777895	4.97	0.09	0.19	0.08	230.84
2026	SC	Construction and Mining	14	Excavators	50	5573068.475	50.27536421	1.27868995	4.626346288	5578426.629	51.35808005	1.488850798	4.906023221	999882.5934	999882.5934	1325.352832	0.10	0.00	0.01	0.00	5.58
2026	SC	Construction and Mining	14	Excavators	120	7235585.512	44.08786134	1.687628651	3.598359276	7241259.632	43.48459568	1.600821123	3.451428873	638510.6876	638510.6876	958.6158227	0.14	0.01	0.01	0.00	11.34
2026	SC	Construction and Mining	14	Excavators	175	15259031.98	44.89374585	2.121908287	5.53198444	15262497.44	45.79806019	2.192234029	5.523411995	744923.0607	744923.0607	1217.935779	0.12	0.01	0.01	0.01	20.49
2026	SC	Construction and Mining	14	Excavators	250	19408965.16	46.16902714	1.601623898	6.029380292	19410343.07	52.01105673	1.743527856	6.165069953	632972.0769	632972.0769	1047.045013	0.15	0.01	0.02	0.00	30.67



**Table C.18 CARB Offroad 2011 output**  
Used to calculate NOx, PM, HC, and fuel consumption

CalendarYear	AirBasin	Equipment Class	Equipment TypeID	Equipment Type	HorsepowerBin	lb/yr	ton/yr	ton/yr	ton/yr	lb/yr	ton/yr	ton/yr	ton/yr	hr/yr	hr/yr	Population	Emissions per Equipment (lb/hr)				lb/hr
						BaseBSFC	BaseNOx	BasePM	BaseHC	ScenBSFC	ScenNOx	ScenPM	ScenHC	BaseActivity	ScenActivity		NOx	PM	HC	PM2.5	BSFC per equipment
2026	SC	Construction and Mining	14	Excavators	500	32178551.43	59.7115022	2.182709354	9.030923146	32177735.97	67.03103121	2.378809067	9.197073728	700996.8015	700996.8015	1064.947855	0.17	0.01	0.03	0.01	45.90
2026	SC	Construction and Mining	14	Excavators	750	2916214.606	8.055094871	0.294612931	0.980270186	2917479.354	8.225186613	0.3038733	0.986925728	36288.62189	36288.62189	54.25103694	0.44	0.02	0.05	0.01	80.40
2026	SC	Construction and Mining	14	Excavators	1000	324359.3873	2.305205817	0.02650041	0.079739706	325480.0941	2.322696556	0.024105933	0.079580867	2775.372407	2775.372407	4.340082955	1.66	0.02	0.06	0.02	117.27
2026	SC	Construction and Mining	14	Excavators	9999	637007.1054	4.458627198	0.037936432	0.121616157	637007.1054	4.454668513	0.037817839	0.120443585	2924.43138	2924.43138	3.797572586	3.05	0.03	0.08	0.02	217.82
2026	SC	Construction and Mining	15	Graders	50	36819.37825	0.575576592	0.062710946	0.182105675	36880.45758	0.501986745	0.046787925	0.140683708	6009.045457	6009.045457	16.90350769	0.19	0.02	0.06	0.02	6.14
2026	SC	Construction and Mining	15	Graders	120	983956.6802	19.99168872	1.547171798	2.098131313	988764.4907	14.28274693	1.015235325	1.485563769	73043.34472	73043.34472	179.9405658	0.55	0.04	0.06	0.04	13.54
2026	SC	Construction and Mining	15	Graders	175	9157669.609	102.8969876	5.663087053	9.490032634	9170139.014	66.30859517	3.627020959	6.788169517	407530.3012	407530.3012	841.903738	0.50	0.03	0.05	0.03	22.50
2026	SC	Construction and Mining	15	Graders	250	15928451.72	123.6625389	4.168523513	9.407539975	15924126.32	103.8695795	3.376862461	8.256378324	517743.2898	517743.2898	668.5064655	0.48	0.02	0.04	0.01	30.76
2026	SC	Construction and Mining	15	Graders	500	4568697.767	27.73784897	1.078074025	2.971187341	4568260.792	26.59709633	1.039871385	2.901902626	103899.0827	103899.0827	124.8678471	0.53	0.02	0.06	0.02	43.97
2026	SC	Construction and Mining	15	Graders	1000	44240.39433	0.328548351	0.003200751	0.014043018	44240.39433	0.328548351	0.003200751	0.014043018	370.5401045	370.5401045	0.545274442	1.77	0.02	0.08	0.02	119.39
2026	SC	Construction and Mining	15	Graders	9999	623218.2196	7.776874539	0.180833971	0.385816729	623218.2196	7.519327688	0.170532654	0.356016502	2088.798222	2088.798222	2.726372208	7.45	0.17	0.37	0.16	298.36
2026	SC	Construction and Mining	16	Off-Highway Tractors	50	2311097.009	24.28786074	1.181949217	3.373299278	2306625.925	22.57560888	0.784269193	2.52986315	345162.3485	345162.3485	507.6659698	0.14	0.01	0.02	0.01	6.68
2026	SC	Construction and Mining	16	Off-Highway Tractors	120	2947113.049	25.30415391	1.445918207	2.247535297	2951856.517	21.78341067	1.052955841	1.843907047	245394.7909	245394.7909	369.1143511	0.21	0.01	0.02	0.01	12.03
2026	SC	Construction and Mining	16	Off-Highway Tractors	175	2513131.487	9.110436248	0.425468543	1.052256251	2511757.839	8.992376655	0.417346215	1.028091126	99192.9995	99192.9995	140.1564637	0.18	0.01	0.02	0.01	25.32
2026	SC	Construction and Mining	16	Off-Highway Tractors	250	2108769.144	6.981697322	0.257653874	0.818406163	2107527.055	6.241847499	0.223554097	0.771320169	61804.32019	61804.32019	91.47616526	0.23	0.01	0.03	0.01	34.10
2026	SC	Construction and Mining	16	Off-Highway Tractors	500	5930577.978	15.52218618	0.590589202	2.033270348	5927027.958	12.58226477	0.434515185	1.84948234	111273.2316	111273.2316	157.2748105	0.28	0.01	0.04	0.01	53.27
2026	SC	Construction and Mining	16	Off-Highway Tractors	750	1492721.501	4.45995896	0.188394882	0.616344499	1492446.419	5.024558235	0.203180303	0.638116925	16286.16913	16286.16913	23.0027784	0.55	0.02	0.08	0.02	91.64
2026	SC	Construction and Mining	16	Off-Highway Tractors	1000	42336.67242	0.297494709	0.002556259	0.008428232	42336.67242	0.317652781	0.00898379	0.021770446	264.8881296	264.8881296	0.534948335	2.25	0.02	0.06	0.02	159.83
2026	SC	Construction and Mining	16	Off-Highway Tractors	9999	345205.3208	4.931346713	0.141013785	0.333674047	332220.4584	2.918190542	0.062353693	0.172141046	1229.91373	1229.91373	2.139793339	8.02	0.23	0.54	0.21	270.12
2026	SC	Construction and Mining	17	Off-Highway Trucks	50	223381.4321	2.344399235	0.097249433	0.33651542	223303.4266	2.262952173	0.079504363	0.293168064	50144.21401	50144.21401	30.21318788	0.09	0.00	0.01	0.00	4.45
2026	SC	Construction and Mining	17	Off-Highway Trucks	120	270793.7798	2.265340561	0.132729521	0.220322029	270892.363	2.142886632	0.117148986	0.210370776	22506.11995	22506.11995	16.96178968	0.20	0.01	0.02	0.01	12.04
2026	SC	Construction and Mining	17	Off-Highway Trucks	175	5239762.488	17.75027203	0.869729708	2.583318651	5239840.684	17.66496307	0.854417051	2.569694565	236256.9691	236256.9691	162.1971139	0.15	0.01	0.02	0.01	22.18
2026	SC	Construction and Mining	17	Off-Highway Trucks	250	10750271.47	46.68939654	1.890897572	5.723143417	10749337.96	34.24307343	1.310610654	4.901878608	365697.0255	365697.0255	277.7493061	0.26	0.01	0.03	0.01	29.39
2026	SC	Construction and Mining	17	Off-Highway Trucks	500	45577089.55	153.3768996	5.637507278	21.18661957	45610185.55	133.7658163	4.741131442	19.69946478	867794.8055	867794.8055	616.9850998	0.35	0.01	0.05	0.01	52.56
2026	SC	Construction and Mining	17	Off-Highway Trucks	750	16376155.64	88.23051355	3.251097192	9.695661503	16376735.33	85.00799714	3.214659079	9.65863343	176501.5098	176501.5098	140.9948768	1.00	0.04	0.11	0.03	92.79
2026	SC	Construction and Mining	17	Off-Highway Trucks	1000	11337894.61	108.9623155	1.978610507	5.606354623	11358977.38	104.7307848	1.827103091	5.261325533	90060.42105	90060.42105	64.66682317	2.42	0.04	0.12	0.04	126.13
2026	SC	Construction and Mining	17	Off-Highway Trucks	9999	16436915.28	138.6911957	2.025476045	6.461112959	16428622.93	139.453909	2.09692456	6.528627974	65422.69534	65422.69534	41.87441828	4.24	0.06	0.20	0.06	251.12
2026	SC	Construction and Mining	18	Other Construction Equipment	50	1245311.898	14.16761331	0.874844021	2.175897374	1248265.588	13.71649156	0.774529207	1.89033848	192369.1705	192369.1705	392.0406493	0.15	0.01	0.02	0.01	6.49
2026	SC	Construction and Mining	18	Other Construction Equipment	120	3914628.417	39.56305928	2.561141786	3.532315116	3916202.198	36.18460306	2.198327872	3.145241015	314765.2901	314765.2901	691.7433261	0.25	0.02	0.02	0.01	12.44
2026	SC	Construction and Mining	18	Other Construction Equipment	175	2129072.069	15.93466536	0.86217306	1.444934361	2128815.297	12.38281286	0.635191643	1.156924292	91939.42319	91939.42319	215.2793875	0.35	0.02	0.03	0.02	23.15
2026	SC	Construction and Mining	18	Other Construction Equipment	250	2732196.359	15.99176086	0.656942259	1.366216683	2733625.359	14.69548224	0.581091372	1.260444153	81992.77145	81992.77145	193.1182741	0.39	0.02	0.03	0.01	33.34



**Table C.18 CARB Offroad 2011 output**  
Used to calculate NOx, PM, HC, and fuel consumption

CalendarYear	AirBasin	Equipment Class	Equipment TypeID	Equipment Type	HorsepowerBin	lb/yr	ton/yr	ton/yr	ton/yr	lb/yr	ton/yr	ton/yr	ton/yr	hr/yr	hr/yr	Population	Emissions per Equipment (lb/hr)				lb/hr
						BaseBSFC	BaseNOx	BasePM	BaseHC	ScenBSFC	ScenNOx	ScenPM	ScenHC	BaseActivity	ScenActivity		NOx	PM	HC	PM2.5	BSFC per equipment
2026	SC	Construction and Mining	18	Other Construction Equipment	500	9339796.836	42.64624483	1.636829511	3.909850629	9322675.428	39.40583855	1.497108073	3.690818167	170007.4884	170007.4884	375.1559915	0.50	0.02	0.05	0.02	54.84
2026	SC	Construction and Mining	18	Other Construction Equipment	750	3636261.566	13.65961953	0.471650179	1.259623173	3637080.797	13.6337646	0.489906432	1.261723229	39804.62927	39804.62927	77.56389698	0.69	0.02	0.06	0.02	91.37
2026	SC	Construction and Mining	18	Other Construction Equipment	1000	425037.0398	3.727103555	0.06392869	0.137735802	425734.8138	3.370512652	0.052945466	0.121435384	3353.844003	3353.844003	6.85939225	2.22	0.04	0.08	0.04	126.94
2026	SC	Construction and Mining	18	Other Construction Equipment	9999	262449.31	3.018702167	0.066162391	0.136339965	262727.5171	2.245110234	0.037153129	0.089225545	1571.523578	1571.523578	3.165873346	3.84	0.08	0.17	0.08	167.18
2026	SC	Construction and Mining	19	Pavers	50	152893.3678	1.69606325	0.106439753	0.316797021	152859.6	1.66829856	0.10272325	0.299674292	23259.31215	23259.31215	63.54334125	0.15	0.01	0.03	0.01	6.57
2026	SC	Construction and Mining	19	Pavers	120	1480546.39	13.66995413	0.839955372	1.160717536	1480119.26	12.91691052	0.759288547	1.073380613	122567.3618	122567.3618	308.7147329	0.22	0.01	0.02	0.01	12.08
2026	SC	Construction and Mining	19	Pavers	175	2011997.329	8.186641353	0.370696507	0.788260566	2011227.605	8.753415172	0.415023871	0.833521179	83331.74639	83331.74639	208.6339704	0.20	0.01	0.02	0.01	24.14
2026	SC	Construction and Mining	19	Pavers	250	1356972.774	3.141106474	0.104289425	0.328760082	1356464.838	3.982260476	0.129120546	0.358128768	41588.79478	41588.79478	90.01973344	0.15	0.01	0.02	0.00	32.62
2026	SC	Construction and Mining	19	Pavers	500	512224.3359	1.446717418	0.052924786	0.135746426	510123.112	1.530234168	0.056919347	0.13943768	10351.95113	10351.95113	22.24016944	0.28	0.01	0.03	0.01	49.28
2026	SC	Construction and Mining	19	Pavers	750	59125.9503	0.046898912	0.001642765	0.009813051	59125.9503	0.046898912	0.001642765	0.009813051	517.1116406	517.1116406	1.059055688	0.18	0.01	0.04	0.01	114.34
2026	SC	Construction and Mining	20	Paving Equipment	50	190294.1457	1.855851755	0.068153442	0.197488476	190297.3713	1.850830096	0.066582287	0.190333372	38031.33	38031.33	78.24408951	0.10	0.00	0.01	0.00	5.00
2026	SC	Construction and Mining	20	Paving Equipment	120	864380.11	6.332322312	0.315787109	0.522544989	864670.2651	6.183326498	0.281202655	0.494870543	74641.03154	74641.03154	159.6602367	0.17	0.01	0.01	0.01	11.58
2026	SC	Construction and Mining	20	Paving Equipment	175	814542.5353	3.251315883	0.151479823	0.321156288	814390.5064	3.204968715	0.152755671	0.317734582	42233.16218	42233.16218	87.23158627	0.15	0.01	0.02	0.01	19.28
2026	SC	Construction and Mining	20	Paving Equipment	250	427250.8978	1.703364841	0.063455359	0.157319479	427247.2483	1.326138938	0.053433682	0.141618592	15190.43764	15190.43764	31.72057683	0.22	0.01	0.02	0.01	28.13
2026	SC	Construction and Mining	20	Paving Equipment	500	602566.429	2.232986961	0.083443279	0.211833894	602910.5966	1.889043462	0.075906788	0.197591726	13732.34049	13732.34049	28.54851914	0.33	0.01	0.03	0.01	43.90
2026	SC	Construction and Mining	20	Paving Equipment	750	284762.392	0.384821317	0.008650209	0.060976787	284709.4469	0.380633579	0.008531909	0.057996259	3621.570788	3621.570788	6.872791646	0.21	0.00	0.03	0.00	78.61
2026	SC	Construction and Mining	20	Paving Equipment	1000	55858.07028	0.400773228	0.006869077	0.016960283	55858.07028	0.400773228	0.006869077	0.016960283	508.430459	508.430459	1.057352561	1.58	0.03	0.07	0.02	109.86
2026	SC	Construction and Mining	21	Rollers	50	3138208.72	31.22740754	1.406784977	4.109656202	3139382.373	30.66346139	1.306549781	3.803922843	573311.6189	573311.6189	1605.369422	0.11	0.00	0.01	0.00	5.48
2026	SC	Construction and Mining	21	Rollers	120	4906849.318	40.0465689	2.044192905	3.205799272	4904705.959	37.79291151	1.796677914	2.936877178	408324.7673	408324.7673	1197.224654	0.20	0.01	0.02	0.01	12.01
2026	SC	Construction and Mining	21	Rollers	175	5070562.678	14.38798719	0.622025894	1.470741815	5070420.041	15.25294459	0.678285786	1.520022154	256121.8606	256121.8606	692.2135272	0.11	0.00	0.01	0.00	19.80
2026	SC	Construction and Mining	21	Rollers	250	801106.2189	3.748106541	0.142843963	0.331946651	801140.2153	4.124996679	0.153311743	0.340729646	27189.35788	27189.35788	84.89411183	0.28	0.01	0.02	0.01	29.47
2026	SC	Construction and Mining	21	Rollers	500	504509.4467	2.902590104	0.126504416	0.249662171	505357.7487	3.197040414	0.133454862	0.261200035	10819.77975	10819.77975	34.82835357	0.54	0.02	0.05	0.02	46.71
2026	SC	Construction and Mining	21	Rollers	750	24632.56979	0.08701564	0.003812746	0.008238372	24632.56979	0.053163082	0.00073427	0.00649459	343.1697033	343.1697033	1.088386049	0.51	0.02	0.05	0.02	71.78
2026	SC	Construction and Mining	22	Rough Terrain	50	159809.9382	1.419485615	0.037727247	0.126682565	159784.9125	1.457426763	0.0472035	0.148481638	20580.20803	20580.20803	72.91514245	0.14	0.00	0.01	0.00	7.76
2026	SC	Construction and Mining	22	Rough Terrain	120	12867157.52	69.86916843	1.99442066	4.461365823	12869058.81	67.7415575	1.795629807	4.214957491	903675.5994	903675.5994	3124.036707	0.15	0.00	0.01	0.00	14.24
2026	SC	Construction and Mining	22	Rough Terrain	175	2363758.472	4.352967714	0.177201633	0.471720576	2363784.472	4.846407613	0.196945115	0.487884595	123795.7355	123795.7355	418.0049115	0.07	0.00	0.01	0.00	19.09
2026	SC	Construction and Mining	22	Rough Terrain	250	194409.5338	0.364851098	0.011366992	0.037888481	194663.3588	0.831280409	0.019220264	0.058237699	6314.029888	6314.029888	24.51457376	0.12	0.00	0.01	0.00	30.83
2026	SC	Construction and Mining	22	Rough Terrain	500	82273.84923	0.098924749	0.002285907	0.014669252	82230.65159	0.119319267	0.002264971	0.01474633	1508.368136	1508.368136	5.657209328	0.13	0.00	0.02	0.00	54.52
2026	SC	Construction and Mining	22	Rough Terrain	750	12893.73108	0.010298874	0.000364669	0.002309433	12893.73108	0.052397249	0.000377467	0.003911149	139.8319691	139.8319691	0.628578814	0.15	0.01	0.03	0.00	92.21
2026	SC	Construction and Mining	23	Rubber Tired Dozers	50	138878.1131	2.466631291	0.318652708	0.885253474	138397.6026	1.391084472	0.047645821	0.171180381	20815.25695	20815.25695	21.24686544	0.24	0.03	0.09	0.03	6.65
2026	SC	Construction and Mining	23	Rubber Tired Dozers	120	662009.9702	14.7600488	1.258537731	1.558899464	659510.309	9.221542634	0.682746364	0.95502837	55005.05544	55005.05544	63.22238009	0.54	0.05	0.06	0.04	11.99

**Table C.18 CARB Offroad 2011 output**  
Used to calculate NOx, PM, HC, and fuel consumption

CalendarYear	AirBasin	Equipment Class	EquipmentTypeID	Equipment Type	HorsepowerBin	lb/yr	ton/yr	ton/yr	ton/yr	lb/yr	ton/yr	ton/yr	ton/yr	hr/yr	hr/yr	Emissions per Equipment (lb/hr)					lb/hr
						BaseBSFC	BaseNOx	BasePM	BaseHC	ScenBSFC	ScenNOx	ScenPM	ScenHC	BaseActivity	ScenActivity	Population	NOx	PM	HC	PM2.5	BSFC per equipment
2026	SC	Construction and Mining	23	Rubber Tired Dozers	175	550571.846	11.09260461	0.62937833	0.939932834	550529.0282	5.922654299	0.32499261	0.559956174	25241.0966	25241.0966	32.64762251	0.88	0.05	0.07	0.05	21.81
2026	SC	Construction and Mining	23	Rubber Tired Dozers	250	573762.9678	10.3668748	0.512941506	0.824515643	572958.4482	5.886719466	0.257584054	0.493192466	18620.45377	18620.45377	25.39259528	1.11	0.06	0.09	0.05	30.77
2026	SC	Construction and Mining	23	Rubber Tired Dozers	500	6556190.664	97.38275741	4.57111692	8.081528041	6552112.209	61.27910887	2.760498268	5.689135492	125936.2663	125936.2663	169.4567073	1.55	0.07	0.13	0.07	52.03
2026	SC	Construction and Mining	23	Rubber Tired Dozers	750	773920.0812	11.95974279	0.412181067	0.770747393	772296.612	12.34663253	0.45425238	0.823523404	9095.983338	9095.983338	10.36432461	2.63	0.09	0.17	0.08	84.91
2026	SC	Construction and Mining	24	Rubber Tired Loaders	50	435619.9259	5.076664832	0.300306048	0.965598985	435625.78	4.869178985	0.252437878	0.846186198	70867.07668	70867.07668	79.94047233	0.14	0.01	0.03	0.01	6.15
2026	SC	Construction and Mining	24	Rubber Tired Loaders	120	10630400.05	102.230512	6.615918799	10.3491124	10635956.67	88.63768177	5.01429827	8.75188744	939266.9938	939266.9938	993.8545208	0.22	0.01	0.02	0.01	11.32
2026	SC	Construction and Mining	24	Rubber Tired Loaders	175	25165573.49	134.8106457	7.222475559	15.40114068	25149037.72	104.9879683	5.448526384	13.14256741	1266823.957	1266823.957	1302.273505	0.21	0.01	0.02	0.01	19.85
2026	SC	Construction and Mining	24	Rubber Tired Loaders	250	34699692.66	151.1976736	5.28194684	16.0502251	34698429.74	130.4479876	4.431971528	14.67969724	1275520.454	1275520.454	1157.516434	0.24	0.01	0.03	0.01	27.20
2026	SC	Construction and Mining	24	Rubber Tired Loaders	500	45343538.22	208.881162	7.835673413	23.24550389	45357054.02	179.5038573	6.543918258	21.19670225	1075219.342	1075219.342	1075.415408	0.39	0.01	0.04	0.01	42.18
2026	SC	Construction and Mining	24	Rubber Tired Loaders	750	8120952.822	40.36221741	1.462366027	4.237097829	8143294.225	37.58997566	1.421970992	4.178421963	103557.4702	103557.4702	95.06434547	0.78	0.03	0.08	0.03	78.64
2026	SC	Construction and Mining	24	Rubber Tired Loaders	1000	2333089.777	29.44175843	0.657615029	1.390283627	2336751.416	21.80731764	0.368832902	1.009534684	21010.23288	21010.23288	17.28442645	2.80	0.06	0.13	0.06	111.22
2026	SC	Construction and Mining	24	Rubber Tired Loaders	9999	925868.8421	11.57223475	0.252526612	0.506148967	925868.8421	11.58806357	0.253000809	0.510837502	4615.008061	4615.008061	3.780968286	5.02	0.11	0.22	0.10	200.62
2026	SC	Construction and Mining	25	Scrapers	50	9986.846163	0.174081774	0.023367235	0.070110802	9986.846163	0.173985703	0.023365508	0.070062158	1409.890407	1409.890407	3.736903345	0.25	0.03	0.10	0.03	7.08
2026	SC	Construction and Mining	25	Scrapers	120	454450.6377	8.191347963	0.632767662	0.732537139	454358.3856	6.720949642	0.485285131	0.563662383	29782.4409	29782.4409	53.91817683	0.55	0.04	0.05	0.04	15.26
2026	SC	Construction and Mining	25	Scrapers	175	4813364.636	45.19070432	2.402921347	4.03294863	4814277.875	34.56345298	1.793607308	3.228939262	161265.1424	161265.1424	346.4643244	0.56	0.03	0.05	0.03	29.85
2026	SC	Construction and Mining	25	Scrapers	250	5537104.76	56.81823386	2.509193495	4.739579807	5539244.769	43.03705532	1.927859222	3.835120626	139812.752	139812.752	336.321301	0.81	0.04	0.07	0.03	39.62
2026	SC	Construction and Mining	25	Scrapers	500	48440610.56	315.5413684	12.71820779	28.1434672	48412017.57	273.6032978	10.78845769	24.91974608	716484.4594	716484.4594	1478.212195	0.88	0.04	0.08	0.03	67.57
2026	SC	Construction and Mining	25	Scrapers	750	22176179.35	104.2342659	4.133245869	10.20672097	22152307.66	101.6416218	3.883237534	9.63701749	221360.3348	221360.3348	421.2023913	0.94	0.04	0.09	0.03	100.07
2026	SC	Construction and Mining	25	Scrapers	1000	346666.2775	11.29365148	0.5153092	0.814108983	346666.2775	13.94425246	0.650132029	1.009983705	2061.173871	2061.173871	6.939963355	10.96	0.50	0.79	0.46	168.19
2026	SC	Construction and Mining	25	Scrapers	9999	1260051.726	15.26376459	0.356784742	0.72440171	1260051.726	14.9102215	0.343015338	0.679632822	3621.367612	3621.367612	6.939963355	8.43	0.20	0.40	0.18	347.95
2026	SC	Construction and Mining	26	Skid Steer Loaders	50	2372888.352	20.30080231	0.393230484	1.516891355	2373024.183	20.88127494	0.510300143	1.75061831	361319.5844	361319.5844	1112.169237	0.11	0.00	0.01	0.00	6.57
2026	SC	Construction and Mining	26	Skid Steer Loaders	120	12608006.79	64.65652914	1.623914197	3.967590329	12610168.94	68.54230633	1.95819451	4.201735388	1320682.929	1320682.929	3589.047876	0.10	0.00	0.01	0.00	9.55
2026	SC	Construction and Mining	26	Skid Steer Loaders	175	85315.07843	0.283310477	0.01001838	0.024308018	85264.58311	0.258269579	0.010027762	0.023377452	4150.747074	4150.747074	14.88773892	0.14	0.00	0.01	0.00	20.54
2026	SC	Construction and Mining	26	Skid Steer Loaders	250	65232.29004	0.151516955	0.003980924	0.014720752	65157.37675	0.231741862	0.006484282	0.017315872	2453.971441	2453.971441	8.270966069	0.12	0.00	0.01	0.00	26.55
2026	SC	Construction and Mining	26	Skid Steer Loaders	500	17986.98326	0.014355787	0.000507702	0.003194865	17986.98326	0.014312667	0.000503827	0.003092687	493.6560625	493.6560625	1.654193214	0.06	0.00	0.01	0.00	36.44
2026	SC	Construction and Mining	26	Skid Steer Loaders	750	18973.89681	0.140479039	0.006210301	0.008948753	18973.89681	0.140479039	0.006210301	0.008948753	264.7141205	264.7141205	0.551397738	1.06	0.05	0.07	0.04	71.68
2026	SC	Construction and Mining	26	Skid Steer Loaders	1000	30961.99377	0.21542083	0.001805193	0.005528336	30961.99377	0.214063522	0.002794827	0.006005301	228.9419421	228.9419421	1.102795476	1.88	0.02	0.05	0.01	135.24
2026	SC	Construction and Mining	27	Surfacing Equipment	50	21947.15747	0.198459263	0.003141957	0.010252953	21947.94043	0.204535087	0.004226649	0.01127175	4908.772654	4908.772654	19.50903751	0.08	0.00	0.00	0.00	4.47
2026	SC	Construction and Mining	27	Surfacing Equipment	120	173082.4624	1.439688762	0.070584727	0.108010646	173623.4105	1.378085113	0.064865609	0.1007245	17512.68102	17512.68102	62.52896638	0.16	0.01	0.01	0.01	9.91
2026	SC	Construction and Mining	27	Surfacing Equipment	175	88756.76375	0.434160054	0.019481479	0.03599819	88916.60489	0.390687012	0.017054398	0.032583417	5334.315635	5334.315635	21.0097327	0.16	0.01	0.01	0.01	16.67
2026	SC	Construction and Mining	27	Surfacing Equipment	250	189033.0483	0.897030088	0.03235325	0.06870635	189036.8917	0.919306404	0.030882251	0.066843165	7820.005606	7820.005606	31.51459905	0.23	0.01	0.02	0.01	24.17
2026	SC	Construction and Mining	27	Surfacing Equipment	500	600041.6574	1.911307257	0.07380837	0.16940358	600540.358	2.010736911	0.076943929	0.171813112	14970.21281	14970.21281	52.02410003	0.26	0.01	0.02	0.01	40.12
2026	SC	Construction and Mining	27	Surfacing Equipment	750	552500.3011	0.986054564	0.035456948	0.108322351	552501.5577	0.985787118	0.035439078	0.107955176	8124.165564	8124.165564	26.01205001	0.24	0.01	0.03	0.01	68.01

**Table C.18 CARB Offroad 2011 output**  
Used to calculate NOx, PM, HC, and fuel consumption

CalendarYear	AirBasin	Equipment Class	Equipment TypeID	Equipment Type	HorsepowerBin	lb/yr	ton/yr	ton/yr	ton/yr	lb/yr	ton/yr	ton/yr	ton/yr	hr/yr	hr/yr	Emissions per Equipment (lb/hr)				lb/hr	
						BaseBSFC	BaseNOx	BasePM	BaseHC	ScenBSFC	ScenNOx	ScenPM	ScenHC	BaseActivity	ScenActivity	Population	NOx	PM	HC	PM2.5	BSFC per equipment
2026	SC	Construction and Mining	27	Surfacing Equipment	1000	90070.38774	0.809254595	0.014318299	0.029535104	90070.38774	0.810405776	0.014352786	0.029876087	995.6020719	995.6020719	3.501622117	1.63	0.03	0.06	0.03	90.47
2026	SC	Construction and Mining	27	Surfacing Equipment	9999	31554.84209	0.21827842	0.003152341	0.007651165	31554.84209	0.217830377	0.003138919	0.007518454	253.9308233	253.9308233	1.000463462	1.72	0.02	0.06	0.02	124.27
2026	SC	Construction and Mining	28	Tractors/Loaders/Backhoes	50	4676797.611	47.3662236	1.945190007	6.365550329	4679512.129	46.49478996	1.741103913	5.755350766	829941.5979	829941.5979	1556.396721	0.11	0.00	0.02	0.00	5.64
2026	SC	Construction and Mining	28	Tractors/Loaders/Backhoes	120	75717671.18	482.7176998	20.25726461	41.17164981	75781841.07	450.7700649	16.5114546	37.06222953	6702329.084	6702329.084	10567.77104	0.14	0.01	0.01	0.01	11.31
2026	SC	Construction and Mining	28	Tractors/Loaders/Backhoes	175	13113839.67	45.80854293	2.248455706	5.380069331	13109953.59	42.45345481	2.081395439	5.088983531	676932.4626	676932.4626	1182.21075	0.14	0.01	0.02	0.01	19.37
2026	SC	Construction and Mining	28	Tractors/Loaders/Backhoes	250	7597497.115	25.30090501	1.03509805	2.892857302	7603050.791	25.61879572	1.014439541	2.833217795	275767.2706	275767.2706	472.8842998	0.18	0.01	0.02	0.01	27.57
2026	SC	Construction and Mining	28	Tractors/Loaders/Backhoes	500	10211180.95	28.51419591	1.065612575	3.600894532	10196823.18	29.31546366	1.113468988	3.616163064	235865.6528	235865.6528	426.7889265	0.24	0.01	0.03	0.01	43.23
2026	SC	Construction and Mining	28	Tractors/Loaders/Backhoes	750	1441360.297	3.272365278	0.130737293	0.446006173	1443908.524	6.161374058	0.258593504	0.631713756	18807.07054	18807.07054	29.82641799	0.35	0.01	0.05	0.01	76.77
2026	SC	Construction and Mining	28	Tractors/Loaders/Backhoes	1000	247922.674	1.81599111	0.0193735	0.052757497	243425.2898	2.143594025	0.037568282	0.08352198	2051.0513	2051.0513	2.711492545	1.77	0.02	0.05	0.02	118.68
2026	SC	Construction and Mining	28	Tractors/Loaders/Backhoes	9999	3425543.083	27.62407232	0.412708874	1.171343302	3425543.083	28.02577165	0.422798189	1.153182159	12610.34653	12610.34653	20.06504483	4.38	0.07	0.19	0.06	271.65
2026	SC	Construction and Mining	29	Trenchers	50	1663113.552	16.17584525	0.695791804	2.064753937	1662737.347	15.85717674	0.631892895	1.873893161	202851.7914	202851.7914	510.3960159	0.16	0.01	0.02	0.01	8.20
2026	SC	Construction and Mining	29	Trenchers	120	1204456.389	15.10297581	1.017681381	1.367624355	1205305.164	14.77645004	0.95180022	1.285996892	79049.99789	79049.99789	236.6381528	0.38	0.03	0.03	0.02	15.25
2026	SC	Construction and Mining	29	Trenchers	175	245860.8969	2.976255208	0.153386536	0.24629199	245851.3487	2.63237202	0.134274733	0.222073894	9351.79226	9351.79226	31.31975552	0.64	0.03	0.05	0.03	26.29
2026	SC	Construction and Mining	29	Trenchers	250	483177.8985	4.48989402	0.200508923	0.359301732	483117.8391	4.329803262	0.195739531	0.348218846	11936.75375	11936.75375	37.11971024	0.75	0.03	0.06	0.03	40.47
2026	SC	Construction and Mining	29	Trenchers	500	812006.707	5.050168078	0.21289428	0.416939083	811982.6648	4.436016658	0.193402893	0.384615397	12316.4586	12316.4586	33.63973741	0.82	0.03	0.07	0.03	65.93
2026	SC	Construction and Mining	29	Trenchers	750	366794.7971	0.334981368	0.010131712	0.06099486	366794.7971	0.334981368	0.010131712	0.06099486	3195.592695	3195.592695	6.959945671	0.21	0.01	0.04	0.01	114.78
2026	SC	Construction and Mining	29	Trenchers	1000	21679.56592	0.872035615	0.040657488	0.063161633	21679.56592	0.872035615	0.040657488	0.063161633	136.6941726	136.6941726	0.579995473	12.76	0.59	0.92	0.55	158.60
2026	SC	Construction and Mining	36	Sweepers/Scrubbers	50	1446743.921	15.05095522	0.714331289	2.024166254	1446743.921	14.70331122	0.668176584	1.889244494	218487.1824	218487.1824	299.5860755	0.14	0.01	0.02	0.01	6.62
2026	SC	Construction and Mining	36	Sweepers/Scrubbers	120	2235990.709	17.86414638	0.9608352	1.634422887	2235990.709	17.38200371	0.911630516	1.554694066	171743.4387	171743.4387	243.9107871	0.21	0.01	0.02	0.01	13.02
2026	SC	Construction and Mining	36	Sweepers/Scrubbers	175	557745.3991	5.029326244	0.221730361	0.466094418	557745.3991	2.746444618	0.121279362	0.30433029	20869.95751	20869.95751	28.10276461	0.48	0.02	0.04	0.02	26.72
2026	SC	Construction and Mining	36	Sweepers/Scrubbers	250	297255.8175	0.700542797	0.024706082	0.101472253	297255.8175	1.270221025	0.040332295	0.12014976	8732.890493	8732.890493	11.66529852	0.16	0.01	0.02	0.01	34.04
2026	SC	Construction and Mining	36	Sweepers/Scrubbers	500	82930.48527	0.595145337	0.020532953	0.045357067	82930.48527	0.594847685	0.020506202	0.044651745	1639.604298	1639.604298	2.120963366	0.73	0.03	0.06	0.02	50.58
2026	SC	Construction and Mining	36	Sweepers/Scrubbers	1000	58119.87728	0.403583479	0.003364904	0.010143218	58119.87728	0.403583479	0.003364904	0.010143218	409.9010745	409.9010745	0.530240842	1.97	0.02	0.05	0.02	141.79
2011	SC	Construction and Mining	12	Cranes	50	28476.98278	0.485292922	0.049948008	0.144345369	28476.98278	0.485292922	0.049948008	0.144345369	6040.02545	6040.02545	15.94926293	0.16	0.02	0.05	0.02	4.71
2011	SC	Construction and Mining	12	Cranes	120	679769.0818	22.38303111	1.66099633	2.248404184	679769.0818	22.38303111	1.66099633	2.248404184	72585.25056	72585.25056	192.3025416	0.62	0.05	0.06	0.04	9.37
2011	SC	Construction and Mining	12	Cranes	175	1793392.147	48.00837144	2.568730873	3.684322473	1793392.147	48.00837144	2.568730873	3.684322473	114007.531	114007.531	288.4538124	0.84	0.05	0.06	0.04	15.73
2011	SC	Construction and Mining	12	Cranes	250	3028472.197	75.33101292	3.440724554	5.161212011	3028472.197	75.33101292	3.440724554	5.161212011	131705.2496	131705.2496	323.997884	1.14	0.05	0.08	0.05	22.99
2011	SC	Construction and Mining	12	Cranes	500	4636826.162	95.43787453	3.942841796	5.938496843	4636826.162	95.43787453	3.942841796	5.938496843	130524.8287	130524.8287	310.7827805	1.46	0.06	0.09	0.06	35.52
2011	SC	Construction and Mining	12	Cranes	750	1223285.128	16.48199934	0.554998641	0.811726404	1223285.128	16.48199934	0.554998641	0.811726404	20425.28057	20425.28057	45.56932265	1.61	0.05	0.08	0.05	59.89
2011	SC	Construction and Mining	12	Cranes	1000	286140.7671	10.00586973	0.495180981	0.739388577	286140.7671	10.00586973	0.495180981	0.739388577	2903.570005	2903.570005	6.835398397	6.89	0.34	0.51	0.31	98.55
2011	SC	Construction and Mining	12	Cranes	9999	22039.14719	0.426435581	0.010153997	0.01805077	22039.14719	0.426435581	0.010153997	0.01805077	202.3709816	202.3709816	0.455693226	4.21	0.10	0.18	0.09	108.90
2011	SC	Industrial	31	Forklifts	50	1400374.673	23.67745549	2.700096553	7.272732316	1400374.673	23.67745549	2.700096553	7.272732316	402112.8204	402112.8204	639.0132462	0.12	0.01	0.04	0.01	3.48
2011	SC	Industrial	31	Forklifts	120	16870854.26	378.4325894	31.29391263	36.0614079	16870854.26	378.4325894	31.29391263	36.0614079	2779709.564	2779709.564	4266.601666	0.27	0.02	0.03	0.02	6.07

**Table C.18 CARB Offroad 2011 output**  
Used to calculate NOx, PM, HC, and fuel consumption

CalendarYear	AirBasin	Equipment Class	Equipment Type	HorsepowerBin	lb/yr	ton/yr	ton/yr	ton/yr	lb/yr	ton/yr	ton/yr	ton/yr	hr/yr	hr/yr	Emissions per Equipment (lb/hr)					lb/hr	
					BaseBSFC	BaseNOx	BasePM	BaseHC	ScenBSFC	ScenNOx	ScenPM	ScenHC	BaseActivity	ScenActivity	Population	NOx	PM	HC	PM2.5	BSFC per equipment	
2011	SC	Industrial	Forklifts	31	175	5327138.013	114.2502706	6.165105491	8.436920104	5327138.013	114.2502706	6.165105491	8.436920104	511082.1403	511082.1403	791.6370712	0.45	0.02	0.03	0.02	10.42
2011	SC	Industrial	Forklifts	31	250	1125472.284	27.56070608	1.284282885	1.918545679	1125472.284	27.56070608	1.284282885	1.918545679	73100.65788	73100.65788	113.543676	0.75	0.04	0.05	0.03	15.40
2011	SC	Industrial	Forklifts	31	500	329058.3845	7.723143967	0.362222835	0.538501033	329058.3845	7.723143967	0.362222835	0.538501033	12935.26332	12935.26332	20.59629471	1.19	0.06	0.08	0.05	25.44
2011	SC	Industrial	Forklifts	31	1000	23221.54042	1.089476933	0.060844452	0.08973	23221.54042	1.089476933	0.060844452	0.08973	357.7224791	357.7224791	0.528110121	6.09	0.34	0.50	0.31	64.91
2011	SC	Industrial	Other General Industrial Equipment	32	50	3011617.457	46.21162791	4.5630426	10.48613136	3011617.457	46.21162791	4.5630426	10.48613136	613788.8212	613788.8212	852.4733017	0.15	0.01	0.03	0.01	4.91
2011	SC	Industrial	Other General Industrial Equipment	32	120	2435695.126	53.26287225	4.473173944	5.135372646	2435695.126	53.26287225	4.473173944	5.135372646	266527.0263	266527.0263	374.1540354	0.40	0.03	0.04	0.03	9.14
2011	SC	Industrial	Other General Industrial Equipment	32	175	1122807.896	22.02243296	1.187510031	1.613281176	1122807.896	22.02243296	1.187510031	1.613281176	60055.01506	60055.01506	82.21112389	0.73	0.04	0.05	0.04	18.70
2011	SC	Industrial	Other General Industrial Equipment	32	250	1024387.888	22.40601501	0.961815381	1.447337241	1024387.888	22.40601501	0.961815381	1.447337241	38977.24108	38977.24108	55.58593036	1.15	0.05	0.07	0.05	26.28
2011	SC	Industrial	Other General Industrial Equipment	32	500	3166091.138	51.53030383	1.962203889	3.080442154	3166091.138	51.53030383	1.962203889	3.080442154	71044.96151	71044.96151	97.15860096	1.45	0.06	0.09	0.05	44.56
2011	SC	Industrial	Other General Industrial Equipment	32	750	1145224.884	16.21718208	0.560247549	0.888925542	1145224.884	16.21718208	0.560247549	0.888925542	15392.1205	15392.1205	21.48699829	2.11	0.07	0.12	0.07	74.40
2011	SC	Industrial	Other General Industrial Equipment	32	1000	117049.0999	2.169652717	0.053747612	0.09270351	117049.0999	2.169652717	0.053747612	0.09270351	1054.663132	1054.663132	1.401325975	4.11	0.10	0.18	0.09	110.98
2011	SC	Industrial	Other General Industrial Equipment	32	9999	88172.57993	1.121761388	0.027065094	0.036674013	88172.57993	1.121761388	0.027065094	0.036674013	351.5543772	351.5543772	0.467108658	6.38	0.15	0.21	0.14	250.81
2016	SC	Construction and Mining	Cranes	12	50	36519.98433	0.615987908	0.062627902	0.181842369	36519.98433	0.610755791	0.060994538	0.175969809	7746.908784	7746.908784	18.9744103	0.16	0.02	0.05	0.01	4.71
2016	SC	Construction and Mining	Cranes	12	120	870934.9133	26.8137943	1.994468174	2.687170447	871122.8688	25.2656231	1.86571149	2.50755348	93097.50758	93097.50758	228.7771756	0.58	0.04	0.06	0.04	9.36
2016	SC	Construction and Mining	Cranes	12	175	2299086.164	56.35934245	3.07025906	4.407788149	2299085.648	54.16464594	2.934261079	4.22019892	146225.5334	146225.5334	343.1657635	0.77	0.04	0.06	0.04	15.72
2016	SC	Construction and Mining	Cranes	12	250	3883420.3	91.41541421	4.224520552	6.436918286	3883521.436	85.9204572	3.898279723	5.992796586	168924.5456	168924.5456	385.4515921	1.08	0.05	0.08	0.05	22.99
2016	SC	Construction and Mining	Cranes	12	500	5949420.069	106.3839437	4.444238936	6.930704791	5948657.309	100.9375775	4.166851762	6.541571742	167410.5433	167410.5433	369.7299379	1.27	0.05	0.08	0.05	35.53
2016	SC	Construction and Mining	Cranes	12	750	1567724.532	20.35640627	0.721297633	1.139524745	1567724.532	20.35640627	0.721297633	1.139524745	26197.37065	26197.37065	54.21260086	1.55	0.06	0.09	0.05	59.84
2016	SC	Construction and Mining	Cranes	12	1000	367010.4724	12.91426401	0.640695143	0.959036049	367010.4724	12.91426401	0.640695143	0.959036049	3724.105496	3724.105496	8.131890129	6.94	0.34	0.52	0.32	98.55
2016	SC	Construction and Mining	Cranes	12	9999	28267.30854	0.196003712	0.004793506	0.009943449	28267.30854	0.196003712	0.004793506	0.009943449	259.5600876	259.5600876	0.542126009	1.51	0.04	0.08	0.03	108.90
2016	SC	Industrial	Forklifts	31	50	1749947.773	27.71530427	2.968820842	7.934498639	1749947.773	26.73467477	2.75346484	7.272298208	502491.5459	502491.5459	740.6767234	0.11	0.01	0.03	0.01	3.48
2016	SC	Industrial	Forklifts	31	120	21082296.34	411.8366805	34.51072333	39.88023215	21082296.34	394.4250428	32.9814168	37.87188282	3473603.639	3473603.639	4945.39442	0.24	0.02	0.02	0.02	6.07
2016	SC	Industrial	Forklifts	31	175	6656942.23	122.9551424	6.806879299	9.587495814	6656942.23	113.4501839	6.199047546	8.755192387	638662.6881	638662.6881	917.5821556	0.39	0.02	0.03	0.02	10.42
2016	SC	Industrial	Forklifts	31	250	1406421.977	30.70425727	1.418087448	2.197001846	1406421.977	26.76498539	1.179001989	1.878212677	91348.64824	91348.64824	131.6078475	0.67	0.03	0.05	0.03	15.40
2016	SC	Industrial	Forklifts	31	500	411200.658	7.565797674	0.350325344	0.549590243	411200.658	4.975852177	0.213792942	0.358684124	16164.27065	16164.27065	23.87305141	0.94	0.04	0.07	0.04	25.44
2016	SC	Industrial	Forklifts	31	1000	29018.29326	1.361441169	0.076032947	0.112129144	29018.29326	1.361441169	0.076032947	0.112129144	447.0201207	447.0201207	0.612129523	6.09	0.34	0.50	0.31	64.91
2016	SC	Industrial	Other General Industrial Equipment	32	50	3763402.296	55.06896457	5.185842656	12.04949214	3763402.296	54.83278002	5.136287938	11.90490164	767007.8594	767007.8594	988.0970944	0.14	0.01	0.03	0.01	4.91
2016	SC	Industrial	Other General Industrial Equipment	32	120	3043713.473	58.41163726	4.930446756	5.659642024	3043713.473	56.41515269	4.754381754	5.429135411	333059.7053	333059.7053	433.6798754	0.35	0.03	0.03	0.03	9.14
2016	SC	Industrial	Other General Industrial Equipment	32	175	1403092.483	22.91836033	1.275483016	1.786427608	1403092.483	21.31102364	1.162639	1.638004224	75046.44425	75046.44425	95.29045951	0.61	0.03	0.05	0.03	18.70
2016	SC	Industrial	Other General Industrial Equipment	32	250	1280104.059	21.40101343	0.86483748	1.432899047	1280104.059	20.73924196	0.833405496	1.384798321	48707.06213	48707.06213	64.42934478	0.88	0.04	0.06	0.03	26.28
2016	SC	Industrial	Other General Industrial Equipment	32	500	3956436.974	51.28126877	1.994326217	3.506874946	3956436.974	49.22107118	1.884875638	3.352689938	88779.79196	88779.79196	112.6159976	1.16	0.04	0.08	0.04	44.56

**Table C.18 CARB Offroad 2011 output**  
Used to calculate NOx, PM, HC, and fuel consumption

CalendarYear	AirBasin	Equipment Class	Equipment TypeID	Equipment Type	HorsepowerBin	lb/yr	ton/yr	ton/yr	ton/yr	lb/yr	ton/yr	ton/yr	ton/yr	hr/yr	hr/yr	Emissions per Equipment (lb/hr)					lb/hr
						BaseBSFC	BaseNOx	BasePM	BaseHC	ScenBSFC	ScenNOx	ScenPM	ScenHC	BaseActivity	ScenActivity	Population	NOx	PM	HC	PM2.5	BSFC per equipment
2016	SC	Industrial	32	Other General Industrial Equipment	750	1431105.384	13.97241998	0.468616388	0.91593068	1431105.384	13.29412875	0.430416452	0.860353239	19234.42882	19234.42882	24.90546101	1.45	0.05	0.10	0.04	74.40
2016	SC	Industrial	32	Other General Industrial Equipment	1000	146267.8635	2.085128065	0.049195725	0.087970427	146267.8635	2.085128065	0.049195725	0.087970427	1317.936859	1317.936859	1.624269196	3.16	0.07	0.13	0.07	110.98
2016	SC	Industrial	32	Other General Industrial Equipment	9999	110182.948	1.471619647	0.039694262	0.067373194	110182.948	1.471619647	0.039694262	0.067373194	439.3122863	439.3122863	0.541423065	6.70	0.18	0.31	0.17	250.81
2021	SC	Construction and Mining	12	Cranes	50	44018.97883	0.735095888	0.078367724	0.217548839	44018.97883	0.724719314	0.076053608	0.210597689	9339.975433	9339.975433	21.45693215	0.16	0.02	0.05	0.02	4.71
2021	SC	Construction and Mining	12	Cranes	120	1050570.607	24.82774343	1.830426621	2.443619218	1050726.276	18.16962224	1.262659196	1.706827301	112241.9868	112241.9868	258.7092962	0.44	0.03	0.04	0.03	9.36
2021	SC	Construction and Mining	12	Cranes	175	2771723.242	56.57981364	3.107822452	4.542280266	2771143.312	42.32961962	2.258764509	3.410598215	176295.2073	176295.2073	388.0639443	0.64	0.04	0.05	0.03	15.72
2021	SC	Construction and Mining	12	Cranes	250	4681278.133	90.85568462	4.20601755	6.623405218	4681246.502	57.60571843	2.338793414	4.053675955	203662.0218	203662.0218	435.8822503	0.89	0.04	0.07	0.04	22.99
2021	SC	Construction and Mining	12	Cranes	500	7177144.162	99.55302293	4.193250112	6.957856502	7178861.713	74.16577686	2.983995344	5.258780808	201836.6815	201836.6815	418.1036493	0.99	0.04	0.07	0.04	35.57
2021	SC	Construction and Mining	12	Cranes	750	1888170.559	18.48317749	0.727218034	1.239163321	1888104.407	15.51667014	0.607377753	1.071233681	31584.572	31584.572	61.30552043	1.17	0.05	0.08	0.04	59.78
2021	SC	Construction and Mining	12	Cranes	1000	442378.5631	11.39626346	0.495174816	0.759702239	442378.5631	12.33100847	0.594516424	0.896054556	4489.926861	4489.926861	9.195828065	5.08	0.22	0.34	0.20	98.53
2021	SC	Construction and Mining	12	Cranes	9999	34080.16986	0.243010174	0.006281065	0.016229003	34080.16986	0.243010174	0.006281065	0.016229003	312.9357668	312.9357668	0.613055204	1.55	0.04	0.10	0.04	108.90
2021	SC	Industrial	31	Forklifts	50	2099520.872	27.28630248	2.158999497	5.712018213	2099520.872	25.60642162	1.800311798	4.691380875	602870.2714	602870.2714	833.5004809	0.09	0.01	0.02	0.01	3.48
2021	SC	Industrial	31	Forklifts	120	25293738.41	327.4051683	24.75520053	30.85364979	25293738.41	285.6613282	20.27668914	25.89407539	4167497.713	4167497.713	5565.165608	0.16	0.01	0.01	0.01	6.07
2021	SC	Industrial	31	Forklifts	175	7986746.447	88.54708172	4.785757804	7.525920113	7986746.447	70.05626462	3.783113103	6.112119982	766243.2358	766243.2358	1032.576216	0.23	0.01	0.02	0.01	10.42
2021	SC	Industrial	31	Forklifts	250	1687371.67	20.50159304	0.878737353	1.582478174	1687371.67	13.05056675	0.501284771	1.039528402	109596.6386	109596.6386	148.1013251	0.37	0.02	0.03	0.01	15.40
2021	SC	Industrial	31	Forklifts	500	493342.9315	4.98151563	0.204960491	0.403868667	493342.9315	3.400824409	0.138554904	0.309569142	19393.27799	19393.27799	26.86489153	0.51	0.02	0.04	0.02	25.44
2021	SC	Industrial	31	Forklifts	1000	34815.04609	1.633405406	0.091221442	0.134528288	34815.04609	0.246256811	0.00215051	0.007409419	536.3177624	536.3177624	0.688843373	6.09	0.34	0.50	0.31	64.91
2021	SC	Industrial	32	Other General Industrial Equipment	50	4515187.135	54.73569507	3.696851048	8.917337876	4515187.135	53.84184212	3.515531224	8.360103051	920226.8977	920226.8977	1111.928291	0.12	0.01	0.02	0.01	4.91
2021	SC	Industrial	32	Other General Industrial Equipment	120	3651731.82	46.17196399	3.381291536	4.314207586	3651731.82	40.9549609	2.81864737	3.675108557	399592.3843	399592.3843	488.0298966	0.23	0.02	0.02	0.02	9.14
2021	SC	Industrial	32	Other General Industrial Equipment	175	1683377.069	14.93939648	0.796182563	1.313099685	1683377.069	11.87419488	0.611761482	1.06222925	90037.87343	90037.87343	107.2325366	0.33	0.02	0.03	0.02	18.70
2021	SC	Industrial	32	Other General Industrial Equipment	250	1535820.23	14.14385909	0.544142592	1.100926529	1535820.23	9.635220843	0.320467088	0.774749048	58436.88318	58436.88318	72.50381734	0.48	0.02	0.04	0.02	26.28
2021	SC	Industrial	32	Other General Industrial Equipment	500	4746782.811	34.16082768	1.359385187	2.954330696	4746782.811	25.56217914	0.913117253	2.298613197	106514.6224	106514.6224	126.7293614	0.64	0.03	0.06	0.02	44.56
2021	SC	Industrial	32	Other General Industrial Equipment	750	1716985.885	7.791591937	0.300912932	0.736623815	1716985.885	7.130157198	0.279557809	0.705385106	23076.73715	23076.73715	28.0266857	0.68	0.03	0.06	0.02	74.40
2021	SC	Industrial	32	Other General Industrial Equipment	1000	175486.6272	2.569851143	0.063065708	0.120287472	175486.6272	2.569851143	0.063065708	0.120287472	1581.210586	1581.210586	1.827827328	3.25	0.08	0.15	0.07	110.98
2021	SC	Industrial	32	Other General Industrial Equipment	9999	132193.3162	0.914274702	0.007543403	0.021982581	132193.3162	0.914274702	0.007543403	0.021982581	527.0701954	527.0701954	0.609275776	3.47	0.03	0.08	0.03	250.81
2024	SC	Construction and Mining	12	Cranes	50	46149.93667	0.75975611	0.079746979	0.221262422	46149.93667	0.731314258	0.072922716	0.202231447	9792.639832	9792.639832	21.73695143	0.16	0.02	0.05	0.01	4.71
2024	SC	Construction and Mining	12	Cranes	120	1101549.297	20.53418182	1.485483338	1.997891117	1101688.645	15.35384599	1.001954286	1.440179434	117681.8246	117681.8246	262.0855287	0.35	0.03	0.03	0.02	9.36
2024	SC	Construction and Mining	12	Cranes	175	2905923.641	45.49963748	2.529240673	3.785584683	2905998.104	32.1445842	1.70304252	2.735478262	184839.4015	184839.4015	393.1282931	0.49	0.03	0.04	0.03	15.72
2024	SC	Construction and Mining	12	Cranes	250	4908569.303	75.96483502	3.524053777	5.729573865	4908726.76	43.64523432	1.815965571	3.414770386	213532.556	213532.556	441.570642	0.71	0.03	0.05	0.03	22.99
2024	SC	Construction and Mining	12	Cranes	500	7518576.379	81.40238273	3.488872025	6.155387144	7520591.001	53.8252478	2.175604565	4.302947754	211618.7501	211618.7501	423.5600251	0.77	0.03	0.06	0.03	35.54

**Table C.18 CARB Offroad 2011 output**  
Used to calculate NOx, PM, HC, and fuel consumption

CalendarYear	AirBasin	Equipment Class	Equipment TypeID	Equipment Type	HorsepowerBin	lb/yr	ton/yr	ton/yr	ton/yr	lb/yr	ton/yr	ton/yr	ton/yr	hr/yr	hr/yr	Population	Emissions per Equipment (lb/hr)				lb/hr
						BaseBSFC	BaseNOx	BasePM	BaseHC	ScenBSFC	ScenNOx	ScenPM	ScenHC	BaseActivity	ScenActivity		NOx	PM	HC	PM2.5	BSFC per equipment
2024	SC	Construction and Mining	12	Cranes	750	1978552.892	14.42598405	0.601468835	1.118330114	1978691.086	11.33212861	0.474797192	0.940432256	33115.32671	33115.32671	62.10557552	0.87	0.04	0.07	0.03	59.75
2024	SC	Construction and Mining	12	Cranes	1000	463818.5581	9.73148571	0.37891647	0.600779453	463472.2807	10.00581523	0.448250399	0.692072391	4707.532364	4707.532364	9.315836329	4.13	0.16	0.26	0.15	98.45
2024	SC	Construction and Mining	12	Cranes	9999	35731.87438	0.258702803	0.006878696	0.019493443	35731.87438	0.258702803	0.006878696	0.019493443	328.1022822	328.1022822	0.621055755	1.58	0.04	0.12	0.04	108.90
2024	SC	Industrial	31	Forklifts	50	2309264.732	26.94648052	1.65690984	4.605763177	2309264.732	25.16925019	1.264740265	3.564756958	663097.5067	663097.5067	885.8013553	0.08	0.00	0.01	0.00	3.48
2024	SC	Industrial	31	Forklifts	120	27820603.65	270.1301966	17.5353143	24.97570801	27820603.65	235.4303742	13.59609804	20.74416163	4583834.158	4583834.158	5914.371198	0.12	0.01	0.01	0.01	6.07
2024	SC	Industrial	31	Forklifts	175	8784628.978	66.86108609	3.467151172	6.230986404	8784628.978	49.10524192	2.520369953	4.886260306	842791.5645	842791.5645	1097.368786	0.16	0.01	0.01	0.01	10.42
2024	SC	Industrial	31	Forklifts	250	1855941.485	14.13684142	0.577366702	1.246985857	1855941.485	9.035835956	0.34125706	0.898184656	120545.4328	120545.4328	157.3944557	0.23	0.01	0.02	0.01	15.40
2024	SC	Industrial	31	Forklifts	500	542628.2956	3.674683412	0.140889612	0.347530698	542628.2956	2.799514341	0.106010473	0.2920001	21330.68239	21330.68239	28.5506222	0.34	0.01	0.03	0.01	25.44
2024	SC	Industrial	31	Forklifts	1000	38293.09779	0.277625474	0.002568085	0.010154148	38293.09779	0.277625474	0.002568085	0.010154148	589.8963473	589.8963473	0.732067236	0.94	0.01	0.03	0.01	64.91
2024	SC	Industrial	32	Other General Industrial Equipment	50	4966258.039	52.30600121	2.328042626	6.319919378	4966258.039	51.64094358	2.213275661	6.038200399	1012158.321	1012158.321	1181.700083	0.10	0.00	0.01	0.00	4.91
2024	SC	Industrial	32	Other General Industrial Equipment	120	4016542.828	36.88174331	2.190842277	3.339573813	4016542.828	32.80943826	1.767707096	2.875575882	439511.9917	439511.9917	518.6530227	0.17	0.01	0.02	0.01	9.14
2024	SC	Industrial	32	Other General Industrial Equipment	175	1851547.821	9.577549023	0.480180932	0.98564311	1851547.821	8.054722077	0.404703344	0.87624318	99032.73095	99032.73095	113.9612135	0.19	0.01	0.02	0.01	18.70
2024	SC	Industrial	32	Other General Industrial Equipment	250	1689249.932	9.027104188	0.367825867	0.920620934	1689249.932	6.675183692	0.231399395	0.722447231	64274.7758	64274.7758	77.05332047	0.28	0.01	0.03	0.01	26.28
2024	SC	Industrial	32	Other General Industrial Equipment	500	5220990.312	24.12405949	0.954738657	2.529644143	5220990.312	18.04556715	0.618439669	2.038205419	117155.5207	117155.5207	134.6814341	0.41	0.02	0.04	0.01	44.56
2024	SC	Industrial	32	Other General Industrial Equipment	750	1888514.185	6.3726991	0.277674915	0.752464018	1888514.185	3.550587921	0.128513233	0.538104411	25382.12215	25382.12215	29.78531716	0.50	0.02	0.06	0.02	74.40
2024	SC	Industrial	32	Other General Industrial Equipment	1000	193017.8854	2.305787443	0.046600423	0.09586387	193017.8854	2.302147222	0.04649137	0.094785627	1739.174823	1739.174823	1.942520684	2.65	0.05	0.11	0.05	110.98
2024	SC	Industrial	32	Other General Industrial Equipment	9999	145399.537	1.034162249	0.009152313	0.032635464	145399.537	1.034162249	0.009152313	0.032635464	579.7249409	579.7249409	0.647506895	3.57	0.03	0.11	0.03	250.81

**Table C.19 CARB Offroad 2007 output**

used to calculate CO and SOx because Offroad2011 does not calculate CO and SOx

CY	Season	AvgDays	Code	Equipment	Fuel	MaxHP	Class	C/R	Pre	Hand	Port	County	Air Basin	Air Dist.	Population	Activity	hr/day for	gal/day	ROG	CO	NOx	CO2	SO2	PM	N2O	CH4	CO	SOx
																	total population	for total population										
2013	Annual	Mon-Sun	2.27E+09	Pavers	D	25	Constructi	U	P	NHH	NP	Total	Total	Total	1.88E+01	4.24E+01	3.60E+01	5.22E-04	1.69E-03	3.18E-03	3.95E-01	5.01E-06	1.59E-04	0.00E+00	4.71E-05	7.98E-02	2.37E-04	
2013	Annual	Mon-Sun	2.27E+09	Pavers	D	50	Constructi	U	P	NHH	NP	Total	Total	Total	1.09E+03	2.50E+03	3.28E+03	1.71E-01	4.49E-01	3.68E-01	3.50E+01	4.52E-04	3.85E-02	0.00E+00	1.54E-02	3.59E-01	3.62E-04	
2013	Annual	Mon-Sun	2.27E+09	Pavers	D	120	Constructi	U	P	NHH	NP	Total	Total	Total	1.29E+03	2.95E+03	9.36E+03	2.04E-01	7.45E-01	1.23E+00	1.02E+02	1.20E-03	1.07E-01	0.00E+00	1.84E-02	5.05E-01	8.11E-04	
2013	Annual	Mon-Sun	2.27E+09	Pavers	D	175	Constructi	U	P	NHH	NP	Total	Total	Total	8.02E+02	1.83E+03	1.07E+04	1.63E-01	7.12E-01	1.26E+00	1.17E+02	1.32E-03	7.04E-02	0.00E+00	1.47E-02	7.78E-01	1.44E-03	
2013	Annual	Mon-Sun	2.27E+09	Pavers	D	250	Constructi	U	N	NHH	NP	Total	Total	Total	9.66E+01	2.21E+02	1.95E+03	2.28E-02	6.71E-02	2.15E-01	2.14E+01	2.41E-04	8.33E-03	0.00E+00	2.06E-03	6.07E-01	2.19E-03	
2013	Annual	Mon-Sun	2.27E+09	Pavers	D	500	Constructi	U	N	NHH	NP	Total	Total	Total	9.91E+01	2.26E+02	2.40E+03	2.57E-02	1.05E-01	2.39E-01	2.64E+01	2.59E-04	9.25E-03	0.00E+00	2.32E-03	9.25E-01	2.29E-03	
2013	Annual	Mon-Sun	2.27E+09	Plate Comp	D	15	Constructi	U	P	NHH	NP	Total	Total	Total	4.04E+02	6.65E+02	1.31E+02	1.67E-03	8.74E-03	1.04E-02	1.43E+00	2.23E-05	4.09E-04	0.00E+00	1.50E-04	2.63E-02	6.71E-05	
2013	Annual	Mon-Sun	2.27E+09	Rollers	D	15	Constructi	U	P	NHH	NP	Total	Total	Total	7.59E+02	1.45E+03	4.17E+02	5.32E-03	2.79E-02	3.33E-02	4.57E+00	7.11E-05	1.29E-03	0.00E+00	4.80E-04	3.86E-02	9.83E-05	
2013	Annual	Mon-Sun	2.27E+09	Rollers	D	25	Constructi	U	P	NHH	NP	Total	Total	Total	3.17E+02	6.05E+02	3.67E+02	4.88E-03	1.66E-02	3.09E-02	4.03E+00	5.12E-05	1.24E-03	0.00E+00	4.40E-04	5.49E-02	1.69E-04	
2013	Annual	Mon-Sun	2.27E+09	Rollers	D	50	Constructi	U	P	NHH	NP	Total	Total	Total	9.87E+02	1.90E+03	2.30E+03	9.72E-02	2.76E-01	2.45E-01	2.47E+01	3.19E-04	2.32E-02	0.00E+00	8.77E-03	2.91E-01	3.36E-04	
2013	Annual	Mon-Sun	2.27E+09	Rollers	D	120	Constructi	U	P	NHH	NP	Total	Total	Total	5.30E+03	1.02E+04	2.75E+04	5.02E-01	2.07E+00	3.19E+00	3.01E+02	3.53E-03	2.72E-01	0.00E+00	4.53E-02	4.06E-01	6.91E-04	
2013	Annual	Mon-Sun	2.27E+09	Rollers	D	175	Constructi	U	P	NHH	NP	Total	Total	Total	2.13E+03	4.10E+03	2.02E+04	2.55E-01	1.27E+00	2.07E+00	2.22E+02	2.49E-03	1.13E-01	0.00E+00	2.31E-02	6.19E-01	1.22E-03	
2013	Annual	Mon-Sun	2.27E+09	Rollers	D	250	Constructi	U	N	NHH	NP	Total	Total	Total	3.02E+02	5.82E+02	4.04E+03	3.67E-02	1.13E-01	3.81E-01	4.45E+01	5.01E-04	1.31E-02	0.00E+00	3.31E-03	3.88E-01	1.72E-03	
2013	Annual	Mon-Sun	2.27E+09	Rollers	D	500	Constructi	U	N	NHH	NP	Total	Total	Total	2.12E+02	4.08E+02	4.05E+03	3.37E-02	1.29E-01	3.43E-01	4.46E+01	4.38E-04	1.21E-02	0.00E+00	3.04E-03	6.31E-01	2.15E-03	
2013	Annual	Mon-Sun	2.27E+09	Scrapers	D	120	Constructi	U	P	NHH	NP	Total	Total	Total	4.89E+01	1.49E+02	6.43E+02	1.40E-02	5.18E-02	8.30E-02	7.00E+00	8.21E-05	7.33E-03	0.00E+00	1.26E-03	6.94E-01	1.10E-03	
2013	Annual	Mon-Sun	2.27E+09	Scrapers	D	175	Constructi	U	P	NHH	NP	Total	Total	Total	4.48E+02	1.37E+03	9.24E+03	1.41E-01	6.21E-01	1.06E+00	1.01E+02	1.14E-03	6.03E-02	0.00E+00	1.27E-02	9.10E-01	1.66E-03	
2013	Annual	Mon-Sun	2.27E+09	Scrapers	D	250	Constructi	U	N	NHH	NP	Total	Total	Total	4.37E+02	1.33E+03	1.27E+04	1.50E-01	4.26E-01	1.36E+00	1.39E+02	1.57E-03	5.26E-02	0.00E+00	1.35E-02	6.40E-01	2.35E-03	
2013	Annual	Mon-Sun	2.27E+09	Scrapers	D	500	Constructi	U	N	NHH	NP	Total	Total	Total	1.20E+03	3.66E+03	5.35E+04	5.83E-01	2.22E+00	5.18E+00	5.88E+02	5.78E-03	2.01E-01	0.00E+00	5.26E-02	1.21E+00	3.15E-03	
2013	Annual	Mon-Sun	2.27E+09	Scrapers	D	750	Constructi	U	N	NHH	NP	Total	Total	Total	1.97E+02	6.02E+02	1.52E+04	1.66E-01	6.28E-01	1.50E+00	1.67E+02	1.68E-03	5.76E-02	0.00E+00	1.50E-02	2.09E+00	5.58E-03	
2013	Annual	Mon-Sun	2.27E+09	Paving Eq	D	25	Constructi	U	P	NHH	NP	Total	Total	Total	3.26E+01	7.41E+01	4.26E+01	5.66E-04	1.93E-03	3.59E-03	4.68E-01	5.93E-06	1.44E-04	0.00E+00	5.10E-05	5.19E-02	1.60E-04	
2013	Annual	Mon-Sun	2.27E+09	Paving Eq	D	50	Constructi	U	P	NHH	NP	Total	Total	Total	2.76E+01	6.33E+01	7.09E+01	3.69E-03	9.64E-03	7.95E-03	7.56E-01	9.78E-06	8.31E-04	0.00E+00	3.33E-04	3.05E-01	3.09E-04	
2013	Annual	Mon-Sun	2.27E+09	Paving Eq	D	120	Constructi	U	P	NHH	NP	Total	Total	Total	3.98E+02	9.12E+02	2.28E+03	4.95E-02	1.80E-01	2.99E-01	2.48E+01	2.91E-04	2.61E-02	0.00E+00	4.47E-03	3.95E-01	6.39E-04	
2013	Annual	Mon-Sun	2.27E+09	Paving Eq	D	175	Constructi	U	P	NHH	NP	Total	Total	Total	1.87E+02	4.29E+02	1.98E+03	2.97E-02	1.30E-01	2.32E-01	2.16E+01	2.43E-04	1.29E-02	0.00E+00	2.68E-03	6.07E-01	1.14E-03	
2013	Annual	Mon-Sun	2.27E+09	Paving Eq	D	250	Constructi	U	N	NHH	NP	Total	Total	Total	5.27E+01	1.21E+02	6.71E+02	7.71E-03	2.27E-02	7.37E-02	7.38E+00	8.30E-05	2.82E-03	0.00E+00	6.96E-04	3.76E-01	1.37E-03	
2013	Annual	Mon-Sun	2.27E+09	Surfacing ID	P	50	Constructi	U	P	NHH	NP	Total	Total	Total	2.51E+01	3.11E+01	2.04E+01	7.42E-04	2.18E-03	2.11E-03	2.19E-01	2.84E-06	1.85E-04	0.00E+00	6.69E-05	1.40E-01	1.82E-04	
2013	Annual	Mon-Sun	2.27E+09	Surfacing ID	P	120	Constructi	U	P	NHH	NP	Total	Total	Total	5.02E+00	6.23E+00	1.82E+01	3.02E-04	1.31E-03	2.03E-03	1.98E-01	2.33E-06	1.61E-04	0.00E+00	2.72E-05	4.21E-01	7.47E-04	
2013	Annual	Mon-Sun	2.27E+09	Surfacing ID	P	175	Constructi	U	P	NHH	NP	Total	Total	Total	3.76E+00	4.67E+00	1.83E+01	2.09E-04	1.10E-03	1.81E-03	2.00E-01	2.25E-06	9.14E-05	0.00E+00	1.88E-05	4.73E-01	9.64E-04	
2013	Annual	Mon-Sun	2.27E+09	Surfacing ID	P	250	Constructi	U	N	NHH	NP	Total	Total	Total	7.53E+00	9.34E+00	5.71E+01	4.78E-04	1.57E-03	5.22E-03	6.29E-01	7.08E-06	1.75E-04	0.00E+00	4.32E-05	3.37E-01	1.52E-03	
2013	Annual	Mon-Sun	2.27E+09	Surfacing ID	P	500	Constructi	U	N	NHH	NP	Total	Total	Total	6.27E+01	7.79E+01	7.81E+02	5.96E-03	2.50E-02	6.46E-02	8.60E+00	8.44E-05	2.20E-03	0.00E+00	5.38E-04	6.41E-01	2.17E-03	
2013	Annual	Mon-Sun	2.27E+09	Surfacing ID	P	750	Constructi	U	N	NHH	NP	Total	Total	Total	3.77E+01	4.68E+01	7.36E+02	5.71E-03	2.35E-02	6.23E-02	8.11E+00	8.16E-05	2.10E-03	0.00E+00	5.15E-04	1.01E+00	3.49E-03	
2013	Annual	Mon-Sun	2.27E+09	Signal Boa	D	15	Constructi	U	P	NHH	NP	Total	Total	Total	3.53E+03	7.26E+03	2.04E+03	2.61E-02	1.37E-01	1.63E-01	2.24E+01	3.48E-04	6.37E-03	0.00E+00	2.35E-03	3.76E-02	9.59E-05	
2013	Annual	Mon-Sun	2.27E+09	Signal Boa	D	50	Constructi	U	P	NHH	NP	Total	Total	Total	1.76E+01	2.58E+01	4.31E+01	1.48E-03	4.45E-03	4.60E-03	4.66E-01	6.02E-06	3.81E-04	0.00E+00	1.34E-04	3.45E-01	4.67E-04	
2013	Annual	Mon-Sun	2.27E+09	Signal Boa	D	120	Constructi	U	P	NHH	NP	Total	Total	Total	2.87E+02	4.21E+02	1.55E+03	2.48E-02	1.10E-01	1.44E-01	1.98E+01	1.98E-04	1.36E-02	0.00E+00	2.23E-03	5.21E-01	9.40E-04	
2013	Annual	Mon-Sun	2.27E+09	Signal Boa	D	175	Constructi	U	P	NHH	NP	Total	Total	Total	1.78E+02	2.61E+02	1.84E+03	2.00E-02	1.09E-01	1.74E-01	2.02E+01	2.27E-04	8.95E-03	0.00E+00	1.81E-03	8.33E-01	1.74E-03	
2013	Annual	Mon-Sun	2.27E+09	Signal Boa	D	250	Constructi	U	N	NHH	NP	Total	Total	Total	3.76E+01	5.52E+01	6.38E+02	4.50E-03	1.48E-02	5.51E-02	7.04E+00	7.92E-05	1.60E-03	0.00E+00	4.06E-04	5.35E-01	2.87E-03	
2013	Annual	Mon-Sun	2.27E+09	Trenchers	D	15	Constructi	U	P	NHH	NP	Total	Total	Total	9.41E+01	1.59E+02	6.16E+01	7.85E-04	4.12E-03	4.91E-03	6.74E-01	1.05E-05	1.92E-04	0.00E+00	7.08E-05	5.16E-02	1.32E-04	
2013	Annual	Mon-Sun	2.27E+09	Trenchers	D	25	Constructi	U	P	NHH	NP	Total	Total	Total	9.91E+01	1.68E+02	2.52E+02	3.33E-03	1.14E-02	2.11E-02	2.76E+00	3.50E-05	8.17E-04	0.00E+00	3.01E-04	1.35E-01	4.17E-04	
2013	Annual	Mon-Sun	2.27E+09	Trenchers	D	50	Constructi	U	P	NHH	NP	Total	Total	Total	3.77E+03	6.53E+03	1.00E+04	5.11E-01	1.33E+00	1.12E+00	1.07E+02	1.39E-03	1.15E-01	0.00E+00	4.61E-02	4.08E-01	4.25E-04	
2013	Annual	Mon-Sun	2.27E+09	Trenchers	D	120	Constructi	U	P	NHH	NP	Total	Total	Total	5.11E+03	8.84E+03	2.63E+04	5.66E-01	2.07E+00	3.47E+00	2.87E+02	3.36E-03	2.95E-01	0.00E+00	5.11E-02	4.68E-01	7.61E-04	
2013	Annual	Mon-Sun	2.27E+09	Trenchers	D	175	Constructi	U	P	NHH	NP	Total	Total	Total	5.60E+02	9.68E+02	6.36E+03	9.45E-02	4.17E-01	7.50E-01	6.96E+01	7.83E-04	4.10E-02	0.00E+00	8.53E-03	8.62E-01	1.62E-03	
2013	Annual	Mon-Sun	2.27E+09	Trenchers	D	250	Constructi	U	N	NHH	NP	Total	Total	Total	5.02E+01	8.68E+01	8.79E+02	1.02E-02	3.07E-02	9.75E-02	9.67E+00	1.09E-04	3.82E-03	0.00E+00	9.21E-04	7.08E-01	2.51E-03	
2013	Annual	Mon-Sun	2.27E+09	Trenchers	D	500	Constructi	U	N	NHH	NP	Total	Total	Total	6.40E+01	1.11E+02	1.57E+03	1.65E-02	7.19E-02	1.57E-01	1.72E+01	1.69E-04	6.11E-03	0.00E+00	1.49E-03	1.30E+00	3.05E-03	
2013	Annual	Mon-Sun	2.27E+09	Trenchers	D	750	Constructi	U	N	NHH	NP	Total	Total	Total	7.54E+00	1.30E+01	3.48E+02	3.69E-03	1.60E-02	3.56E-02	3.82E+00	3.85E-05	1.37E-03	0.00E+00	3.33E-04	2.45E+00		

**Table C.19 CARB Offroad 2007 output**

used to calculate CO and SOx because Offroad2011 does not calculate CO and SOx

CY	Season	AvgDays	Code	Equipme nt	Fuel	MaxH P	Class	C/R	Pre	Hand	Port	County	Air Basin	Air Dist.	Populatio n	Activity	hr/day for	gal/day	ton/day	ton/day	ton/day	ton/day	ton/day	ton/day	ton/day	ton/day	ton/day	ton/day	ton/day	ton/day	ton/day	ton/day	ton/day	ton/day	ton/day	lb/hr/equi pment	lb/hr/equi pment
																	n	for total populatio n																			
2013	Annual	Mon-Sun	2.27E+09	Excavators D		500	Constructi	U	N	NHH	NP	Total	Total	Total	2.69E+03	1.05E+04	1.11E+05	9.08E-01	2.76E+00	7.73E+00	1.22E+03	1.20E-02	2.70E-01	0.00E+00	8.19E-02	5.27E-01	2.29E-03										
2013	Annual	Mon-Sun	2.27E+09	Excavators D		750	Constructi	U	N	NHH	NP	Total	Total	Total	5.91E+01	2.30E+02	4.04E+03	3.33E-02	1.01E-01	2.90E-01	4.46E+01	4.48E-04	1.00E-02	0.00E+00	3.00E-03	8.73E-01	3.89E-03										
2013	Annual	Mon-Sun	2.27E+09	Concrete/Id		25	Constructi	U	P	NHH	NP	Total	Total	Total	5.02E+00	8.15E+00	6.11E+00	8.09E-05	2.76E-04	5.12E-04	6.71E-02	8.51E-07	1.98E-05	0.00E+00	7.30E-06	6.78E-02	2.09E-04										
2013	Annual	Mon-Sun	2.27E+09	Concrete/Id		50	Constructi	U	P	NHH	NP	Total	Total	Total	4.39E+01	6.98E+01	9.76E+01	3.33E-03	1.02E-02	9.97E-03	1.05E+00	1.36E-05	8.60E-04	0.00E+00	3.01E-04	2.92E-01	3.90E-04										
2013	Annual	Mon-Sun	2.27E+09	Concrete/Id		120	Constructi	U	P	NHH	NP	Total	Total	Total	7.65E+01	1.22E+02	4.13E+02	6.47E-03	2.94E-02	4.35E-02	4.51E+00	5.29E-05	3.58E-03	0.00E+00	5.84E-04	4.83E-01	8.69E-04										
2013	Annual	Mon-Sun	2.27E+09	Concrete/Id		175	Constructi	U	P	NHH	NP	Total	Total	Total	2.51E+00	3.99E+00	2.91E+01	3.13E-04	1.73E-03	2.71E-03	3.19E-01	3.59E-06	1.41E-04	0.00E+00	2.82E-05	8.69E-01	1.80E-03										
2013	Annual	Mon-Sun	2.27E+09	Cement an D		15	Constructi	U	P	NHH	NP	Total	Total	Total	6.41E+02	5.27E+02	1.52E+02	1.96E-03	1.02E-02	1.24E-02	1.66E+00	2.59E-05	5.62E-04	0.00E+00	1.77E-04	3.86E-02	9.83E-05										
2013	Annual	Mon-Sun	2.27E+09	Cement an D		25	Constructi	U	P	NHH	NP	Total	Total	Total	5.77E+01	4.75E+01	3.80E+01	6.41E-04	1.93E-03	3.58E-03	4.16E-01	5.28E-06	1.97E-04	0.00E+00	5.79E-05	8.12E-02	2.23E-04										
2013	Annual	Mon-Sun	2.27E+09	Cranes D		50	Constructi	U	P	NHH	P	Total	Total	Total	4.27E+01	1.50E+02	1.62E+02	7.59E-03	2.16E-02	1.79E-02	1.74E+00	2.24E-05	1.79E-03	0.00E+00	6.85E-04	2.89E-01	2.99E-04										
2013	Annual	Mon-Sun	2.27E+09	Cranes D		120	Constructi	U	P	NHH	P	Total	Total	Total	4.68E+02	1.64E+03	3.78E+03	7.54E-02	2.97E-01	4.52E-01	4.12E+01	4.83E-04	4.05E-02	0.00E+00	6.81E-03	3.61E-01	5.88E-04										
2013	Annual	Mon-Sun	2.27E+09	Cranes D		175	Constructi	U	P	NHH	P	Total	Total	Total	4.68E+02	1.64E+03	6.03E+03	8.47E-02	3.96E-01	6.38E-01	6.60E+01	7.42E-04	3.65E-02	0.00E+00	7.64E-03	4.82E-01	9.03E-04										
2013	Annual	Mon-Sun	2.27E+09	Cranes D		250	Constructi	U	N	NHH	P	Total	Total	Total	9.07E+02	3.19E+03	1.62E+04	1.66E-01	4.69E-01	1.58E+00	1.78E+02	2.01E-03	5.58E-02	0.00E+00	1.49E-02	2.95E-01	1.26E-03										
2013	Annual	Mon-Sun	2.27E+09	Cranes D		500	Constructi	U	N	NHH	P	Total	Total	Total	3.32E+02	1.17E+03	9.54E+03	9.05E-02	3.09E-01	8.30E-01	1.05E+02	1.03E-03	3.02E-02	0.00E+00	8.16E-03	5.29E-01	1.77E-03										
2013	Annual	Mon-Sun	2.27E+09	Cranes D		750	Constructi	U	N	NHH	P	Total	Total	Total	2.45E+02	8.60E+02	1.18E+04	1.13E-01	3.83E-01	1.06E+00	1.30E+02	1.31E-03	3.80E-02	0.00E+00	1.02E-02	8.89E-01	3.04E-03										
2013	Annual	Mon-Sun	2.27E+09	Cranes D		9999	Constructi	U	N	NHH	P	Total	Total	Total	3.08E+02	1.08E+03	4.76E+04	5.12E-01	1.80E+00	5.59E+00	5.24E+02	5.27E-03	1.72E-01	0.00E+00	4.62E-02	3.33E+00	9.75E-03										
2013	Annual	Mon-Sun	2.27E+09	Graders D		50	Constructi	U	P	NHH	NP	Total	Total	Total	1.76E+01	4.58E+01	5.87E+01	2.47E-03	7.46E-03	6.34E-03	6.30E-01	8.14E-06	5.99E-04	0.00E+00	2.23E-04	3.26E-01	3.56E-04										
2013	Annual	Mon-Sun	2.27E+09	Graders D		120	Constructi	U	P	NHH	NP	Total	Total	Total	1.17E+03	3.05E+03	1.05E+04	1.91E-01	8.10E-01	1.18E+00	1.14E+02	1.34E-03	1.03E-01	0.00E+00	1.73E-02	5.30E-01	8.79E-04										
2013	Annual	Mon-Sun	2.27E+09	Graders D		175	Constructi	U	P	NHH	NP	Total	Total	Total	4.00E+03	1.04E+04	5.90E+04	7.65E-01	3.83E+00	5.84E+00	6.46E+02	7.27E-03	3.29E-01	0.00E+00	6.90E-02	7.34E-01	1.39E-03										
2013	Annual	Mon-Sun	2.27E+09	Graders D		250	Constructi	U	N	NHH	NP	Total	Total	Total	2.48E+03	6.47E+03	5.05E+04	4.83E-01	1.40E+00	4.59E+00	5.57E+02	6.26E-03	1.60E-01	0.00E+00	4.35E-02	4.33E-01	1.93E-03										
2013	Annual	Mon-Sun	2.27E+09	Graders D		500	Constructi	U	N	NHH	NP	Total	Total	Total	7.03E+01	1.83E+02	1.90E+03	1.70E-02	5.75E-02	1.54E-01	2.10E+01	2.06E-04	5.56E-03	0.00E+00	1.53E-03	6.28E-01	2.25E-03										
2013	Annual	Mon-Sun	2.27E+09	Graders D		750	Constructi	U	N	NHH	NP	Total	Total	Total	3.77E+00	9.83E+00	2.16E+02	1.94E-03	6.53E-03	1.80E-02	2.38E+00	2.40E-05	6.41E-04	0.00E+00	1.75E-04	1.33E+00	4.88E-03										
2013	Annual	Mon-Sun	2.27E+09	Off-Highw D		175	Constructi	U	P	NHH	NP	Total	Total	Total	8.15E+01	4.45E+02	2.54E+03	3.20E-02	1.68E-01	2.29E-01	2.78E+01	3.13E-04	1.34E-02	0.00E+00	2.89E-03	7.77E-01	1.41E-03										
2013	Annual	Mon-Sun	2.27E+09	Off-Highw D		250	Constructi	U	N	NHH	NP	Total	Total	Total	6.02E+02	3.28E+03	2.48E+04	2.30E-01	6.30E-01	2.03E+00	2.73E+02	3.07E-03	6.77E-02	0.00E+00	2.07E-02	3.83E-01	1.87E-03										
2013	Annual	Mon-Sun	2.27E+09	Off-Highw D		500	Constructi	U	N	NHH	NP	Total	Total	Total	8.48E+02	4.63E+03	5.71E+04	5.01E-01	1.47E+00	6.43E+00	6.29E+02	6.18E-03	1.46E-01	0.00E+00	4.52E-02	6.36E-01	2.67E-03										
2013	Annual	Mon-Sun	2.27E+09	Off-Highw D		750	Constructi	U	N	NHH	NP	Total	Total	Total	7.90E+02	4.31E+03	8.63E+04	7.62E-01	2.22E+00	4.13E+00	9.51E+02	9.56E-03	2.25E-01	0.00E+00	6.88E-02	1.03E+00	4.44E-03										
2013	Annual	Mon-Sun	2.27E+09	Off-Highw D		1000	Constructi	U	N	NHH	NP	Total	Total	Total	3.71E+02	2.02E+03	5.72E+04	5.53E-01	1.69E+00	6.03E+00	6.30E+02	6.34E-03	1.81E-01	0.00E+00	4.99E-02	1.67E+00	6.28E-03										
2013	Annual	Mon-Sun	2.27E+09	Crushing/PD		50	Constructi	U	P	NHH	P	Total	Total	Total	2.01E+02	5.26E+02	1.08E+03	4.57E-02	1.32E-01	1.14E-01	1.16E+01	1.49E-04	1.11E-02	0.00E+00	4.13E-03	5.00E-01	5.69E-04										
2013	Annual	Mon-Sun	2.27E+09	Crushing/PD		120	Constructi	U	P	NHH	P	Total	Total	Total	5.66E+02	1.48E+03	5.64E+03	1.04E-01	4.27E-01	6.33E-01	6.15E+01	7.22E-04	5.77E-02	0.00E+00	9.74E-03	5.76E-01	9.74E-04										
2013	Annual	Mon-Sun	2.27E+09	Crushing/PD		175	Constructi	U	P	NHH	P	Total	Total	Total	2.40E+02	6.27E+02	4.79E+03	6.09E-02	3.01E-01	4.78E-01	5.24E+01	5.90E-04	2.71E-02	0.00E+00	5.49E-03	9.61E-01	1.88E-03										
2013	Annual	Mon-Sun	2.27E+09	Crushing/PD		250	Constructi	U	N	NHH	P	Total	Total	Total	2.38E+01	6.24E+01	6.91E+02	5.76E-03	1.69E-02	6.30E-02	7.62E+00	8.58E-05	1.93E-03	0.00E+00	5.20E-04	5.42E-01	2.75E-03										
2013	Annual	Mon-Sun	2.27E+09	Crushing/PD		500	Constructi	U	N	NHH	P	Total	Total	Total	1.34E+02	3.52E+02	5.95E+03	4.58E-02	1.49E-01	4.70E-01	6.56E+01	6.44E-04	1.55E-02	0.00E+00	4.13E-03	8.47E-01	3.66E-03										
2013	Annual	Mon-Sun	2.27E+09	Crushing/PD		750	Constructi	U	N	NHH	P	Total	Total	Total	6.28E+00	1.65E+01	4.39E+02	3.40E-03	1.08E-02	3.65E-02	4.84E+00	4.87E-05	1.16E-03	0.00E+00	3.07E-04	1.32E+00	5.92E-03										
2013	Annual	Mon-Sun	2.27E+09	Crushing/PD		9999	Constructi	U	N	NHH	P	Total	Total	Total	6.28E+00	1.65E+01	9.76E+02	9.26E-03	3.02E-02	1.09E-01	1.07E+01	1.08E-04	3.19E-03	0.00E+00	8.36E-04	3.68E+00	1.31E-02										
2013	Annual	Mon-Sun	2.27E+09	Rough Ter D		50	Constructi	U	P	NHH	NP	Total	Total	Total	1.39E+02	4.33E+02	6.80E+02	2.55E-02	8.16E-02	7.17E-02	7.32E+00	9.46E-05	6.49E-03	0.00E+00	2.30E-03	3.77E-01	4.37E-04										
2013	Annual	Mon-Sun	2.27E+09	Rough Ter D		120	Constructi	U	P	NHH	NP	Total	Total	Total	6.67E+03	2.07E+04	5.92E+04	9.89E-01	4.48E+00	6.20E+00	6.46E+02	7.58E-03	5.48E-01	0.00E+00	8.92E-02	4.32E-01	7.32E-04										
2013	Annual	Mon-Sun	2.27E+09	Rough Ter D		175	Constructi	U	P	NHH	NP	Total	Total	Total	8.54E+02	2.65E+03	1.51E+04	1.79E-01	9.62E-01	1.39E+00	1.66E+02	1.86E-03	7.85E-02	0.00E+00	1.62E-02	7.25E-01	1.40E-03										
2013	Annual	Mon-Sun	2.27E+09	Rough Ter D		250	Constructi	U	N	NHH	NP	Total	Total	Total	4.77E+01	1.48E+02	1.15E+03	9.57E-03	2.81E-02	9.58E-02	1.26E+01	1.42E-04	3.08E-03	0.00E+00	8.64E-04	3.79E-01	1.92E-03										
2013	Annual	Mon-Sun	2.27E+09	Rough Ter D		500	Constructi	U	N	NHH	NP	Total	Total	Total	3.14E+01	9.74E+01	1.13E+03	8.88E-03	2.78E-02	8.32E-02	1.25E+01	1.23E-04	2.84E-03	0.00E+00	8.01E-04	5.71E-01	2.52E-03										
2013	Annual	Mon-Sun	2.27E+09	Rubber Tir D		25	Constructi	U	P	NHH	NP	Total	Total	Total	1.76E+01	4.61E+01	3.55E+01	4.70E-04	1.60E-03	2.97E-03	3.90E-01	4.95E-06	1.15E-04	0.00E+00	4.24E-05	6.96E-02	2.15E-04										
2013	Annual	Mon-Sun	2.27E+09	Rubber Tir D		50	Constructi	U	P	NHH	NP	Total	Total	Total	3.41E+02	9.12E+02	1.32E+03	5.47E-02	1.66E-01	1.42E-01	1.42E+01	1.84E-04	1.33E-02	0.00E+00	4.93E-03	3.64E-01	6.02E-04										
2013	Annual	Mon-Sun	2.27E+09	Rubber Tir D		120	Constructi	U	P	NHH	NP	Total	Total	Total	9.28E+03	2.48E+04	6.69E+04	1.20E+00	5.15E+00	7.45E+00	7.30E+02	8.56E-03	6.51E-01	0.00E+00	1.09E-01	4.15E-01	4.90E-04										
2013	Annual	Mon-Sun	2.27E+09	Rubber Tir D		175	Constructi	U	P	NHH	NP	Total	Total	Total	5.23E+03	1.40E+04	6.78E+04	8.65E-01	4.38E+00	6.64E+00	7.34E+02	8.35E-03	3.74E-01	0.00E+00	7.80E-02	6.27E-01	1.20E-03										
2013	Annual	Mon-Sun	2.27E+09	Rubber Tir D		250	Constructi	U	N	NHH	NP	Total	Total	Total	5.20E+03	1.39E+04	9.39E+04	8.74E-01	2.56E+00	8.42E+00	1.03E+03	1.16E-02	2.90E-01</														



**Table C.19 CARB Offroad 2007 output**

used to calculate CO and SOx because Offroad2011 does not calculate CO and SOx

CY	Season	AvgDays	Code	Equipment	Fuel	MaxHP	Class	C/R	Pre	Hand	Port	County	Air Basin	Air Dist.	Population	Activity	hr/day for	gal/day	ton/day	ton/day	ton/day	ton/day	ton/day	ton/day	ton/day	ton/day	ton/day	ton/day	ton/day	ton/day	ton/day	ton/day	ton/day	ton/day	ton/day	ton/day	ton/day	lb/hr/equi	lb/hr/equi
																	total population	for total population																					
2013	Annual	Mon-Sun	2.27E+09	Tractors/L/D		750	Constructi	U	N	NHH	NP	Total	Total	Total	7.60E+02	2.02E+03	4.72E+04	3.48E-01	1.12E+00	3.22E+00	5.21E+02	5.86E-03	1.08E-01	0.00E+00	3.14E-02	1.12E+00	5.82E-03												
2013	Annual	Mon-Sun	2.27E+09	Crawler Tr D		50	Constructi	U	P	NHH	NP	Total	Total	Total	1.76E+01	5.04E+01	5.87E+01	2.96E-03	8.17E-03	6.62E-03	6.27E-01	8.10E-06	6.80E-04	0.00E+00	2.67E-04	3.24E-01	3.21E-04												
2013	Annual	Mon-Sun	2.27E+09	Crawler Tr D		120	Constructi	U	P	NHH	NP	Total	Total	Total	9.96E+03	2.86E+04	8.63E+04	1.85E+00	6.94E+00	1.10E+01	9.40E+02	1.10E-02	9.68E-01	0.00E+00	1.67E-01	4.85E-01	7.71E-04												
2013	Annual	Mon-Sun	2.27E+09	Crawler Tr D		175	Constructi	U	P	NHH	NP	Total	Total	Total	3.37E+03	9.68E+03	5.36E+04	8.09E-01	3.60E+00	6.06E+00	5.86E+02	6.59E-03	3.45E-01	0.00E+00	7.30E-02	7.44E-01	1.36E-03												
2013	Annual	Mon-Sun	2.27E+09	Crawler Tr D		250	Constructi	U	N	NHH	NP	Total	Total	Total	2.90E+03	8.32E+03	6.27E+04	7.33E-01	2.08E+00	6.63E+00	6.90E+02	7.77E-03	2.55E-01	0.00E+00	6.61E-02	5.00E-01	1.87E-03												
2013	Annual	Mon-Sun	2.27E+09	Crawler Tr D		500	Constructi	U	N	NHH	NP	Total	Total	Total	1.99E+03	5.70E+03	6.71E+04	7.24E-01	2.71E+00	6.38E+00	7.38E+02	7.24E-03	2.47E-01	0.00E+00	6.53E-02	9.50E-01	2.54E-03												
2013	Annual	Mon-Sun	2.27E+09	Crawler Tr D		750	Constructi	U	N	NHH	NP	Total	Total	Total	1.01E+02	2.89E+02	6.09E+03	6.60E-02	2.45E-01	5.91E-01	6.70E+01	6.74E-04	2.27E-02	0.00E+00	5.95E-03	1.70E+00	4.67E-03												
2013	Annual	Mon-Sun	2.27E+09	Crawler Tr D		1000	Constructi	U	N	NHH	NP	Total	Total	Total	1.01E+02	2.88E+02	8.63E+03	9.94E-02	3.89E-01	1.06E+00	9.48E+01	9.53E-04	3.40E-02	0.00E+00	8.97E-03	2.70E+00	6.61E-03												
2013	Annual	Mon-Sun	2.27E+09	Skid Steer D		25	Constructi	U	P	NHH	NP	Total	Total	Total	2.41E+03	5.51E+03	3.46E+03	5.55E-02	1.71E-01	3.21E-01	3.80E+01	4.82E-04	1.73E-02	0.00E+00	5.01E-03	6.20E-02	1.75E-04												
2013	Annual	Mon-Sun	2.27E+09	Skid Steer D		50	Constructi	U	P	NHH	NP	Total	Total	Total	2.18E+04	5.09E+04	5.97E+04	1.31E+00	5.75E+00	5.79E+00	6.48E+02	8.38E-03	3.99E-01	0.00E+00	1.19E-01	2.26E-01	3.30E-04												
2013	Annual	Mon-Sun	2.27E+09	Skid Steer D		120	Constructi	U	P	NHH	NP	Total	Total	Total	1.14E+04	2.67E+04	5.20E+04	5.71E-01	3.66E+00	4.35E+00	5.69E+02	6.68E-03	3.26E-01	0.00E+00	5.15E-02	2.75E-01	5.01E-04												
2013	Annual	Mon-Sun	2.27E+09	Off-High D		120	Constructi	U	P	NHH	NP	Total	Total	Total	1.25E+00	3.84E+00	1.65E+01	4.05E-04	1.38E-03	2.37E-03	1.80E-01	2.11E-06	2.07E-04	0.00E+00	3.66E-05	7.18E-01	1.10E-03												
2013	Annual	Mon-Sun	2.27E+09	Off-High D		175	Constructi	U	P	NHH	NP	Total	Total	Total	1.53E+03	4.70E+03	2.80E+04	4.80E-01	1.96E+00	3.60E+00	3.06E+02	3.44E-03	2.04E-01	0.00E+00	4.33E-02	8.33E-01	1.47E-03												
2013	Annual	Mon-Sun	2.27E+09	Off-High D		250	Constructi	U	N	NHH	NP	Total	Total	Total	1.45E+03	4.44E+03	2.63E+04	3.64E-01	1.04E+00	3.21E+00	2.89E+02	3.25E-03	1.33E-01	0.00E+00	3.28E-02	4.69E-01	1.47E-03												
2013	Annual	Mon-Sun	2.27E+09	Off-High D		750	Constructi	U	N	NHH	NP	Total	Total	Total	6.31E+02	1.93E+03	5.00E+04	6.31E-01	2.79E+00	5.60E+00	5.48E+02	5.51E-03	2.27E-01	0.00E+00	5.70E-02	2.89E+00	5.71E-03												
2013	Annual	Mon-Sun	2.27E+09	Off-High D		1000	Constructi	U	N	NHH	NP	Total	Total	Total	6.66E+01	2.04E+02	7.56E+03	1.00E-01	4.59E-01	1.02E+00	8.29E+01	8.33E-04	3.50E-02	0.00E+00	9.02E-03	4.51E+00	8.18E-03												
2013	Annual	Mon-Sun	2.27E+09	Dumpers/TD		25	Constructi	U	P	NHH	NP	Total	Total	Total	3.01E+01	5.47E+01	1.90E+01	2.64E-04	8.74E-04	1.64E-03	2.08E-01	2.64E-06	7.91E-05	0.00E+00	2.38E-05	3.20E-02	9.67E-05												
2013	Annual	Mon-Sun	2.27E+09	Other Cons D		15	Constructi	U	P	NHH	NP	Total	Total	Total	4.15E+02	7.86E+02	3.62E+02	4.62E-03	2.42E-02	2.89E-02	3.97E+00	6.17E-05	1.12E-03	0.00E+00	4.17E-04	6.17E-02	1.57E-04												
2013	Annual	Mon-Sun	2.27E+09	Other Cons D		25	Constructi	U	P	NHH	NP	Total	Total	Total	7.03E+01	1.33E+02	7.99E+01	1.06E-03	3.61E-03	6.73E-03	8.78E-01	1.11E-05	2.69E-04	0.00E+00	9.58E-05	5.44E-02	1.68E-04												
2013	Annual	Mon-Sun	2.27E+09	Other Cons D		50	Constructi	U	P	NHH	NP	Total	Total	Total	1.08E+02	2.08E+02	2.68E+02	7.82E-03	2.75E-02	2.68E-02	2.91E+00	3.76E-05	2.13E-03	0.00E+00	7.05E-04	2.65E-01	3.62E-04												
2013	Annual	Mon-Sun	2.27E+09	Other Cons D		120	Constructi	U	P	NHH	NP	Total	Total	Total	1.78E+02	3.43E+02	1.27E+03	1.72E-02	9.04E-02	1.20E-01	1.39E+01	1.63E-04	9.72E-03	0.00E+00	1.56E-03	5.27E-01	9.48E-04												
2013	Annual	Mon-Sun	2.27E+09	Other Cons D		175	Constructi	U	P	NHH	NP	Total	Total	Total	2.46E+02	4.74E+02	2.30E+03	2.21E-02	1.39E-01	1.90E-01	2.52E+01	2.84E-04	9.93E-03	0.00E+00	2.00E-03	5.87E-01	1.20E-03												
2013	Annual	Mon-Sun	2.27E+09	Other Cons D		500	Constructi	U	N	NHH	NP	Total	Total	Total	5.71E+02	1.10E+03	1.26E+04	7.97E-02	2.87E-01	8.34E-01	1.40E+02	1.37E-03	2.70E-02	0.00E+00	7.19E-03	5.23E-01	2.49E-03												
2014	Annual	Mon-Sun	2.27E+09	Pavers D		25	Constructi	U	P	NHH	NP	Total	Total	Total	1.91E+01	4.30E+01	3.65E+01	5.14E-04	1.69E-03	3.16E-03	4.01E-01	5.09E-06	1.51E-04	0.00E+00	4.63E-05	7.88E-02	2.37E-04												
2014	Annual	Mon-Sun	2.27E+09	Pavers D		50	Constructi	U	P	NHH	NP	Total	Total	Total	1.11E+03	2.54E+03	3.32E+03	1.62E-01	4.44E-01	3.63E-01	3.55E+01	4.59E-04	3.67E-02	0.00E+00	1.47E-02	3.50E-01	3.62E-04												
2014	Annual	Mon-Sun	2.27E+09	Pavers D		120	Constructi	U	P	NHH	NP	Total	Total	Total	1.31E+03	2.99E+03	9.49E+03	1.96E-01	7.49E-01	1.19E+00	1.03E+02	1.21E-03	1.02E-01	0.00E+00	1.77E-02	5.01E-01	8.11E-04												
2014	Annual	Mon-Sun	2.27E+09	Pavers D		175	Constructi	U	P	NHH	NP	Total	Total	Total	8.14E+02	1.86E+03	1.09E+04	1.57E-01	7.19E-01	1.21E+00	1.19E+02	1.34E-03	6.69E-02	0.00E+00	1.42E-02	7.74E-01	1.44E-03												
2014	Annual	Mon-Sun	2.27E+09	Pavers D		250	Constructi	U	N	NHH	NP	Total	Total	Total	9.81E+01	2.24E+02	1.98E+03	2.20E-02	6.52E-02	2.02E-01	2.18E+01	2.45E-04	7.79E-03	0.00E+00	1.98E-03	5.82E-01	2.19E-03												
2014	Annual	Mon-Sun	2.27E+09	Pavers D		500	Constructi	U	N	NHH	NP	Total	Total	Total	1.01E+02	2.30E+02	2.44E+03	2.49E-02	9.93E-02	2.24E-01	2.68E+01	2.63E-04	8.68E-03	0.00E+00	2.24E-03	8.64E-01	2.29E-03												
2014	Annual	Mon-Sun	2.27E+09	Plate Com D		15	Constructi	U	P	NHH	NP	Total	Total	Total	4.10E+02	6.75E+02	1.33E+02	1.69E-03	8.88E-03	1.06E-02	1.45E+00	2.26E-05	4.13E-04	0.00E+00	1.53E-04	2.63E-02	6.71E-05												
2014	Annual	Mon-Sun	2.27E+09	Rollers D		15	Constructi	U	P	NHH	NP	Total	Total	Total	7.71E+02	1.47E+03	4.24E+02	5.40E-03	2.83E-02	3.38E-02	4.64E+00	7.22E-05	1.32E-03	0.00E+00	4.87E-04	3.86E-02	9.83E-05												
2014	Annual	Mon-Sun	2.27E+09	Rollers D		25	Constructi	U	P	NHH	NP	Total	Total	Total	3.22E+02	1.14E+02	3.73E+02	4.94E-03	1.69E-02	3.13E-02	4.09E+00	5.20E-05	1.22E-03	0.00E+00	4.46E-04	5.49E-02	1.69E-04												
2014	Annual	Mon-Sun	2.27E+09	Rollers D		50	Constructi	U	P	NHH	NP	Total	Total	Total	1.00E+03	6.93E+03	2.33E+03	1.92E-02	2.73E-01	2.40E+01	3.24E-04	2.18E-02	0.00E+00	8.26E-03	2.83E-01	3.63E-04													
2014	Annual	Mon-Sun	2.27E+09	Rollers D		120	Constructi	U	P	NHH	NP	Total	Total	Total	5.38E+03	1.04E+04	2.80E+04	4.77E-01	2.08E+00	3.06E+00	3.05E+02	3.58E-03	2.55E-01	0.00E+00	4.30E-02	4.03E-01	6.91E-04												
2014	Annual	Mon-Sun	2.27E+09	Rollers D		175	Constructi	U	P	NHH	NP	Total	Total	Total	2.16E+03	4.16E+03	2.05E+04	2.45E-01	1.29E+00	1.98E+00	2.25E+02	2.53E-03	1.06E-01	0.00E+00	2.21E-02	6.18E-01	1.22E-03												
2014	Annual	Mon-Sun	2.27E+09	Rollers D		250	Constructi	U	N	NHH	NP	Total	Total	Total	3.07E+02	5.91E+02	4.10E+03	3.48E-02	1.10E-01	3.54E-01	4.52E+01	5.08E-04	1.20E-02	0.00E+00	3.14E-03	3.71E-01	1.72E-03												
2014	Annual	Mon-Sun	2.27E+09	Rollers D		500	Constructi	U	N	NHH	NP	Total	Total	Total	2.15E+02	4.14E+02	4.11E+03	3.22E-02	1.23E-01	3.17E-01	4.53E+01	4.45E-04	1.11E-02	0.00E+00	2.90E-03	5.92E-01	2.15E-03												
2014	Annual	Mon-Sun	2.27E+09	Scrapers D		120	Constructi	U	P	NHH	NP	Total	Total	Total	4.97E+01	1.51E+02	6.52E+02	1.34E-02	5.20E-02	7.99E-02	7.10E+00	8.33E-05	6.91E-03	0.00E+00	1.21E-03	6.88E-01	1.10E-03												
2014	Annual	Mon-Sun	2.27E+09	Scrapers D		175	Constructi	U	P	NHH	NP	Total	Total	Total	4.55E+02	1.39E+03	9.37E+03	1.37E-01	6.28E-01	1.02E+00	1.03E+02	1.15E-03	5.70E-02	0.00E+00	1.23E-02	9.06E-01	1.66E-03												
2014	Annual	Mon-Sun	2.27E+09	Scrapers D		250	Constructi	U	N	NHH	NP	Total	Total	Total	4.43E+02	1.35E+03	1.28E+04	1.44E-01	4.15E-01	1.28E+00	1.41E+02	1.59E-03	4.90E-02	0.00E+00	1.30E-02	6.14E-01	2.35E-03												
2014	Annual	Mon-Sun	2.27E+09	Scrapers D		500	Constructi	U	N	NHH	NP	Total	Total	Total	1.22E+03	3.72E+03	5.43E+04	5.63E-01	2.11E+00	4.86E+00	5.97E+02	5.86E-03	1.88E-01	0.00E+00	5.08E-02	1.13E+00	3.15E-03												
2014	Annual	Mon-Sun	2.27E+09	Scrapers D		750	Constructi	U	N	NHH	NP	Total	Total	Total	2.00E+02	6.10E+02	1.54E+04	1.60E-01	5.98E-01	1.41E+00	1.69E+02	1.70E-03	5.39E-02	0.00E+00	1.45E-02	1.96E+00	5.58E-03												
2014	Annual	Mon-Sun	2.27E+09	Paving Eq D		25	Constructi	U	P	NHH	NP	Total	Total	Total	3.31E+01	7.53E+01	4.33E+01	5.74E-04	1.96E-03	3.63E-03	4.75E-01	6.03E-06	1.42E-04	0.00E+00															

**Table C.19 CARB Offroad 2007 output**

used to calculate CO and SOx because Offroad2011 does not calculate CO and SOx

CY	Season	AvgDays	Code	Equipme nt	Fuel	MaxH P	Class	C/R	Pre	Hand	Port	County	Air Basin	Air Dist.	Populatio n	Activity	Consump tion	hr/day for gal/day total populatio for total n n		ROG Exhaust	CO Exhaust	NOx Exhaust	CO2 Exhaust	SO2 Exhaust	PM Exhaust	N2O Exhaust	CH4 Exhaust	lb/hr/equi pment	lb/hr/equi pment
																		ton/day	ton/day										
2014	Annual	Mon-Sun	2.27E+09	Signal Boa D		250	Constructi	U	N	NHH	NP	Total	Total	Total	3.82E+01	5.61E+01	6.48E+02	4.26E-03	1.46E-02	5.06E-02	7.15E+00	8.05E-05	1.47E-03	0.00E+00	3.84E-04	5.21E-01	2.87E-03		
2014	Annual	Mon-Sun	2.27E+09	Trenchers D		15	Constructi	U	P	NHH	NP	Total	Total	Total	9.56E+01	1.62E+02	6.26E+01	7.97E-04	4.18E-03	4.99E-03	6.85E-01	1.07E-05	1.95E-04	0.00E+00	7.19E-05	5.16E-02	1.32E-04		
2014	Annual	Mon-Sun	2.27E+09	Trenchers D		25	Constructi	U	P	NHH	NP	Total	Total	Total	1.01E+02	1.71E+02	2.55E+02	3.38E-03	1.15E-02	2.14E-02	2.80E+00	3.56E-05	8.12E-04	0.00E+00	3.05E-04	1.35E-01	4.17E-04		
2014	Annual	Mon-Sun	2.27E+09	Trenchers D		50	Constructi	U	P	NHH	NP	Total	Total	Total	3.83E+03	6.62E+03	1.02E+04	4.89E-01	1.32E+00	1.10E+00	1.09E+02	1.41E-03	1.10E-01	0.00E+00	4.41E-02	3.99E-01	4.25E-04		
2014	Annual	Mon-Sun	2.27E+09	Trenchers D		120	Constructi	U	P	NHH	NP	Total	Total	Total	5.19E+03	8.97E+03	2.67E+04	5.43E-01	2.08E+00	3.36E+00	2.91E+02	3.41E-03	2.82E-01	0.00E+00	4.90E-02	4.64E-01	7.61E-04		
2014	Annual	Mon-Sun	2.27E+09	Trenchers D		175	Constructi	U	P	NHH	NP	Total	Total	Total	5.68E+02	9.82E+02	6.45E+03	9.15E-02	4.21E-01	7.25E-01	7.06E+01	7.94E-04	3.91E-02	0.00E+00	8.25E-03	8.57E-01	1.62E-03		
2014	Annual	Mon-Sun	2.27E+09	Trenchers D		250	Constructi	U	N	NHH	NP	Total	Total	Total	5.10E+01	8.81E+01	8.91E+02	9.79E-03	2.99E-02	9.21E-02	9.81E+00	1.10E-04	3.58E-03	0.00E+00	8.83E-04	6.78E-01	2.51E-03		
2014	Annual	Mon-Sun	2.27E+09	Trenchers D		500	Constructi	U	N	NHH	NP	Total	Total	Total	6.50E+01	1.12E+02	1.59E+03	1.59E-02	6.80E-02	1.48E-01	1.75E+01	1.71E-04	5.74E-03	0.00E+00	1.43E-03	1.21E+00	3.05E-03		
2014	Annual	Mon-Sun	2.27E+09	Trenchers D		750	Constructi	U	N	NHH	NP	Total	Total	Total	7.66E+00	1.32E+01	3.53E+02	3.56E-03	1.51E-02	3.36E-02	3.88E+00	3.90E-05	1.29E-03	0.00E+00	3.21E-04	2.28E+00	5.90E-03		
2014	Annual	Mon-Sun	2.27E+09	Bore/Drill D		15	Constructi	U	P	NHH	P	Total	Total	Total	1.27E+01	2.83E+01	1.34E+01	1.70E-04	8.94E-04	1.07E-03	1.46E-01	2.28E-06	4.16E-05	0.00E+00	1.54E-05	6.31E-02	1.61E-04		
2014	Annual	Mon-Sun	2.27E+09	Bore/Drill D		25	Constructi	U	P	NHH	P	Total	Total	Total	3.82E+01	8.50E+01	6.18E+01	8.20E-04	2.80E-03	5.19E-03	6.79E-01	8.61E-06	2.02E-04	0.00E+00	7.40E-05	6.58E-02	2.03E-04		
2014	Annual	Mon-Sun	2.27E+09	Bore/Drill D		50	Constructi	U	P	NHH	P	Total	Total	Total	1.67E+02	3.85E+02	5.46E+02	4.91E-03	4.34E-02	4.61E-02	5.98E+00	7.72E-05	1.84E-03	0.00E+00	4.43E-04	2.25E-01	4.01E-04		
2014	Annual	Mon-Sun	2.27E+09	Bore/Drill D		120	Constructi	U	P	NHH	P	Total	Total	Total	5.12E+02	1.18E+03	4.15E+03	2.41E-02	2.77E-01	2.51E-01	4.56E+01	5.34E-04	1.20E-02	0.00E+00	2.18E-03	4.68E-01	9.04E-04		
2014	Annual	Mon-Sun	2.27E+09	Bore/Drill D		175	Constructi	U	P	NHH	P	Total	Total	Total	1.18E+02	2.74E+02	1.75E+03	9.17E-03	1.03E-01	8.92E-02	1.93E+01	2.17E-04	3.37E-03	0.00E+00	8.28E-04	7.53E-01	1.59E-03		
2014	Annual	Mon-Sun	2.27E+09	Bore/Drill D		250	Constructi	U	N	NHH	P	Total	Total	Total	1.02E+02	2.35E+02	2.00E+03	8.66E-03	4.03E-02	7.22E-02	2.21E+01	2.49E-04	2.11E-03	0.00E+00	7.81E-04	3.42E-01	2.11E-03		
2014	Annual	Mon-Sun	2.27E+09	Bore/Drill D		500	Constructi	U	N	NHH	P	Total	Total	Total	2.27E+02	5.24E+02	7.37E+03	3.15E-02	1.44E-01	2.49E-01	8.14E+01	7.99E-04	7.69E-03	0.00E+00	2.85E-03	5.51E-01	3.05E-03		
2014	Annual	Mon-Sun	2.27E+09	Bore/Drill D		750	Constructi	U	N	NHH	P	Total	Total	Total	1.19E+02	2.74E+02	7.62E+03	3.27E-02	1.49E-01	2.60E-01	8.42E+01	8.47E-04	7.98E-03	0.00E+00	2.95E-03	1.09E+00	6.18E-03		
2014	Annual	Mon-Sun	2.27E+09	Bore/Drill D		1000	Constructi	U	N	NHH	P	Total	Total	Total	1.99E+02	4.59E+02	1.93E+04	8.93E-02	3.81E-01	1.24E+00	2.13E+02	2.14E-03	3.24E-02	0.00E+00	8.06E-03	1.66E+00	9.33E-03		
2014	Annual	Mon-Sun	2.27E+09	Excavators D		25	Constructi	U	P	NHH	NP	Total	Total	Total	4.71E+01	1.80E+02	1.35E+02	1.79E-03	6.10E-03	1.13E-02	1.48E+00	1.88E-05	4.21E-04	0.00E+00	1.61E-04	6.76E-02	2.08E-04		
2014	Annual	Mon-Sun	2.27E+09	Excavators D		50	Constructi	U	P	NHH	NP	Total	Total	Total	1.77E+03	6.92E+03	8.01E+03	2.52E-01	9.53E-01	8.14E-01	8.65E+01	1.12E-03	6.53E-02	0.00E+00	2.27E-02	2.75E-01	3.23E-04		
2014	Annual	Mon-Sun	2.27E+09	Excavators D		120	Constructi	U	P	NHH	NP	Total	Total	Total	4.82E+03	1.88E+04	6.33E+04	9.36E-01	4.82E+00	5.94E+00	6.91E+02	8.11E-03	4.87E-01	0.00E+00	8.45E-02	5.13E-01	8.63E-04		
2014	Annual	Mon-Sun	2.27E+09	Excavators D		175	Constructi	U	P	NHH	NP	Total	Total	Total	9.30E+03	3.62E+04	1.85E+05	2.05E+00	1.21E+01	1.51E+01	2.03E+03	2.29E-02	8.28E-01	0.00E+00	1.85E-01	6.65E-01	1.26E-03		
2014	Annual	Mon-Sun	2.27E+09	Excavators D		250	Constructi	U	N	NHH	NP	Total	Total	Total	3.78E+03	1.47E+04	1.06E+05	8.69E-01	2.56E+00	7.44E+00	1.17E+03	1.31E-02	2.46E-01	0.00E+00	7.84E-02	3.48E-01	1.78E-03		
2014	Annual	Mon-Sun	2.27E+09	Excavators D		500	Constructi	U	N	NHH	NP	Total	Total	Total	2.73E+03	1.06E+04	1.13E+05	8.80E-01	2.71E+00	6.97E+00	1.24E+03	1.22E-02	2.46E-01	0.00E+00	7.94E-02	5.10E-01	2.29E-03		
2014	Annual	Mon-Sun	2.27E+09	Excavators D		750	Constructi	U	N	NHH	NP	Total	Total	Total	6.00E+01	2.34E+02	4.10E+03	3.22E-02	9.87E-02	2.62E-01	4.52E+01	4.55E-04	9.12E-03	0.00E+00	2.91E-03	8.45E-01	3.89E-03		
2014	Annual	Mon-Sun	2.27E+09	Concrete/Id		25	Constructi	U	P	NHH	NP	Total	Total	Total	5.10E+00	8.27E+00	6.20E+00	8.22E-05	2.80E-04	5.19E-04	6.81E-02	8.64E-07	1.97E-05	0.00E+00	7.41E-06	6.78E-02	2.09E-04		
2014	Annual	Mon-Sun	2.27E+09	Concrete/Id		50	Constructi	U	P	NHH	NP	Total	Total	Total	4.46E+01	7.09E+01	9.89E+01	3.06E-03	1.00E-02	9.74E-03	1.07E+00	1.38E-05	7.99E-04	0.00E+00	2.76E-04	2.82E-01	3.90E-04		
2014	Annual	Mon-Sun	2.27E+09	Concrete/Id		120	Constructi	U	P	NHH	NP	Total	Total	Total	7.77E+01	1.24E+02	4.19E+02	6.04E-03	2.96E-02	4.16E-02	4.58E+00	5.37E-05	3.32E-03	0.00E+00	5.45E-04	4.79E-01	8.69E-04		
2014	Annual	Mon-Sun	2.27E+09	Concrete/Id		175	Constructi	U	P	NHH	NP	Total	Total	Total	2.55E+00	4.05E+00	2.96E+01	2.95E-04	1.76E-03	2.59E-03	3.24E-01	3.65E-06	1.31E-04	0.00E+00	2.66E-05	8.68E-01	1.80E-03		
2014	Annual	Mon-Sun	2.27E+09	Cement an D		15	Constructi	U	P	NHH	NP	Total	Total	Total	6.51E+02	5.36E+02	1.54E+02	1.98E-03	1.03E-02	1.25E-02	1.69E+00	2.63E-05	5.27E-04	0.00E+00	1.79E-04	3.86E-02	9.83E-05		
2014	Annual	Mon-Sun	2.27E+09	Cement an D		25	Constructi	U	P	NHH	NP	Total	Total	Total	5.86E+01	4.82E+01	3.86E+01	6.23E-04	1.91E-03	3.57E-03	4.23E-01	5.37E-06	1.88E-04	0.00E+00	5.63E-05	7.94E-02	2.23E-04		
2014	Annual	Mon-Sun	2.27E+09	Cranes D		50	Constructi	U	P	NHH	P	Total	Total	Total	4.33E+01	1.52E+02	1.64E+02	7.08E-03	2.13E-02	1.76E-02	1.76E+00	2.28E-05	1.68E-03	0.00E+00	6.39E-04	2.81E-01	2.99E-04		
2014	Annual	Mon-Sun	2.27E+09	Cranes D		120	Constructi	U	P	NHH	P	Total	Total	Total	4.75E+02	1.67E+03	3.83E+03	7.16E-02	2.99E-01	4.33E-01	4.18E+01	4.90E-04	3.78E-02	0.00E+00	6.46E-03	3.58E-01	5.88E-04		
2014	Annual	Mon-Sun	2.27E+09	Cranes D		175	Constructi	U	P	NHH	P	Total	Total	Total	4.75E+02	1.67E+03	6.12E+03	8.15E-02	4.01E-01	6.09E-01	6.70E+01	7.54E-04	3.43E-02	0.00E+00	7.35E-03	4.80E-01	9.03E-04		
2014	Annual	Mon-Sun	2.27E+09	Cranes D		250	Constructi	U	N	NHH	P	Total	Total	Total	9.21E+02	3.23E+03	1.64E+04	1.58E-01	4.55E-01	1.47E+00	1.81E+02	2.04E-03	5.12E-02	0.00E+00	1.43E-02	2.81E-01	1.26E-03		
2014	Annual	Mon-Sun	2.27E+09	Cranes D		500	Constructi	U	N	NHH	P	Total	Total	Total	3.38E+02	1.19E+03	6.68E+03	8.69E-02	2.93E-01	7.69E-01	1.07E+02	1.05E-03	2.78E-02	0.00E+00	7.84E-03	4.94E-01	1.77E-03		
2014	Annual	Mon-Sun	2.27E+09	Cranes D		750	Constructi	U	N	NHH	P	Total	Total	Total	2.49E+02	8.74E+02	1.20E+04	1.08E-01	3.63E-01	9.79E-01	1.32E+02	1.33E-03	3.50E-02	0.00E+00	9.78E-03	8.31E-01	3.04E-03		
2014	Annual	Mon-Sun	2.27E+09	Cranes D		9999	Constructi	U	N	NHH	P	Total	Total	Total	3.13E+02	1.10E+03	4.83E+04	5.00E-01	1.70E+00	5.37E+00	5.32E+02	5.35E-03	1.64E-01	0.00E+00	4.51E-02	3.10E+00	9.75E-03		
2014	Annual	Mon-Sun	2.27E+09	Graders D		50	Constructi	U	P	NHH	NP	Total	Total	Total	1.78E+01	4.65E+01	9.95E+01	2.29E-03	7.36E-03	6.19E-03	6.39E-01	8.27E-06	5.55E-04	0.00E+00	2.06E-04	3.17E-01	3.56E-04		
2014	Annual	Mon-Sun	2.27E+09	Graders D		120	Constructi	U	P	NHH	NP	Total	Total	Total	1.19E+03	3.10E+03	1.06E+04	1.81E-01	8.16E-01	1.13E+00	1.16E+02	1.36E-03	9.51E-02	0.00E+00	1.63E-02	5.26E-01	8.79E-04		
2014	Annual	Mon-Sun	2.27E+09	Graders D		175	Constructi	U	P	NHH	NP	Total	Total	Total	4.07E+03	1.06E+04	5.99E+04	7.34E-01	3.88E+00	5.56E+00	6.56E+02	7.38E-03	3.06E-01	0.00E+00	6.62E-02	7.32E-01	1.39E-03		
2014	Annual	Mon-Sun	2.27E+09	Graders D		250	Constructi	U	N	NHH	NP	Total	Total	Total	2.52E+03	6.57E+03	5.13E+04	4.62E-01	1.37E+00	4.22E+00	5.65E+02	6.36E-03	1.46E-01	0.00E+00	4.17E-02	4.17E-01	1.93E-03		
2014	Annual	Mon-Sun	2.27E+09	Graders D		500	Constructi	U	N	NHH	NP	Total	Total	Total	7.13E+01	1.86E+02	1.93E+03	1.63E-02	5.56E-02	1.42E-01	2.13E+01	2.09E-04	5.11E-03	0					

**Table C.19 CARB Offroad 2007 output**

used to calculate CO and SOx because Offroad2011 does not calculate CO and SOx

CY	Season	AvgDays	Code	Equipme nt	Fuel	MaxH P	Class	C/R	Pre	Hand	Port	County	Air Basin	Air Dist.	Populatio n	Activity	Consump tion	hr/day for gal/day total populatio for total n populatio		ROG Exhaust	CO Exhaust	NOX Exhaust	CO2 Exhaust	SO2 Exhaust	PM Exhaust	N2O Exhaust	CH4 Exhaust	lb/hr/equi pment	lb/hr/equi pment
																		ton/day	ton/day										
2014	Annual	Mon-Sun	2.27E+09	Rough Ter D		120	Constructi U	P	NHH	NP	Total	Total	Total	6.77E+03	2.10E+04	6.01E+04	9.21E-01	4.51E+00	5.90E+00	6.56E+02	7.70E-03	4.98E-01	0.00E+00	8.31E-02	4.29E-01	7.32E-04			
2014	Annual	Mon-Sun	2.27E+09	Rough Ter D		175	Constructi U	P	NHH	NP	Total	Total	Total	8.68E+02	2.69E+03	1.53E+04	1.70E-01	9.75E-01	1.31E+00	1.68E+02	1.89E-03	7.18E-02	0.00E+00	1.54E-02	7.24E-01	1.40E-03			
2014	Annual	Mon-Sun	2.27E+09	Rough Ter D		250	Constructi U	N	NHH	NP	Total	Total	Total	4.84E+01	1.50E+02	1.16E+03	9.24E-03	2.79E-02	8.74E-02	1.28E+01	1.44E-04	2.82E-03	0.00E+00	8.34E-04	3.71E-01	1.92E-03			
2014	Annual	Mon-Sun	2.27E+09	Rough Ter D		500	Constructi U	N	NHH	NP	Total	Total	Total	3.19E+01	9.89E+01	1.15E+03	8.62E-03	2.72E-02	7.56E-02	1.27E+01	1.24E-04	2.61E-03	0.00E+00	7.78E-04	5.50E-01	2.52E-03			
2014	Annual	Mon-Sun	2.27E+09	Rubber Tir D		25	Constructi U	P	NHH	NP	Total	Total	Total	1.78E+01	4.68E+01	3.61E+01	4.78E-04	1.63E-03	3.02E-03	3.96E-01	5.02E-06	1.15E-04	0.00E+00	4.31E-05	6.96E-02	2.15E-04			
2014	Annual	Mon-Sun	2.27E+09	Rubber Tir D		50	Constructi U	P	NHH	NP	Total	Total	Total	3.47E+02	9.26E+02	1.34E+03	5.06E-02	1.64E-01	1.39E-01	1.44E+01	1.86E-04	1.23E-02	0.00E+00	4.56E-03	3.53E-01	4.02E-04			
2014	Annual	Mon-Sun	2.27E+09	Rubber Tir D		120	Constructi U	P	NHH	NP	Total	Total	Total	9.42E+03	2.52E+04	6.79E+04	1.13E+00	5.18E+00	7.12E+00	7.41E+02	8.70E-03	6.00E-01	0.00E+00	1.02E-01	4.12E-01	6.90E-04			
2014	Annual	Mon-Sun	2.27E+09	Rubber Tir D		175	Constructi U	P	NHH	NP	Total	Total	Total	5.31E+03	1.42E+04	6.88E+04	8.29E-01	4.44E+00	6.32E+00	7.54E+02	8.48E-03	3.47E-01	0.00E+00	7.48E-02	6.26E-01	1.20E-03			
2014	Annual	Mon-Sun	2.27E+09	Rubber Tir D		250	Constructi U	N	NHH	NP	Total	Total	Total	5.28E+03	1.41E+04	9.53E+04	8.36E-01	2.51E+00	7.73E+00	1.05E+03	1.18E-02	2.65E-01	0.00E+00	7.55E-02	3.55E-01	1.67E-03			
2014	Annual	Mon-Sun	2.27E+09	Rubber Tir D		500	Constructi U	N	NHH	NP	Total	Total	Total	2.20E+03	5.88E+03	6.31E+04	5.19E-01	1.79E+00	4.55E+00	6.96E+02	6.83E-03	1.62E-01	0.00E+00	4.69E-02	6.08E-01	2.32E-03			
2014	Annual	Mon-Sun	2.27E+09	Rubber Tir D		750	Constructi U	N	NHH	NP	Total	Total	Total	1.54E+02	4.13E+02	9.08E+03	7.52E-02	2.57E-01	6.73E-01	1.00E+02	1.01E-03	2.37E-02	0.00E+00	6.78E-03	1.25E+00	4.88E-03			
2014	Annual	Mon-Sun	2.27E+09	Rubber Tir D		1000	Constructi U	N	NHH	NP	Total	Total	Total	1.66E+01	4.43E+01	1.19E+03	1.09E-02	3.84E-02	1.24E-01	1.31E+01	1.32E-04	3.73E-03	0.00E+00	9.84E-04	1.74E+00	5.97E-03			
2014	Annual	Mon-Sun	2.27E+09	Rubber Tir D		175	Constructi U	P	NHH	NP	Total	Total	Total	1.27E+01	5.68E+01	3.36E+02	5.77E-03	2.38E-02	4.22E-02	3.67E+00	4.13E-05	2.39E-03	0.00E+00	5.21E-04	8.38E-01	1.46E-03			
2014	Annual	Mon-Sun	2.27E+09	Rubber Tir D		250	Constructi U	N	NHH	NP	Total	Total	Total	3.12E+02	1.39E+03	1.16E+04	1.61E-01	4.56E-01	1.36E+00	1.28E+02	1.44E-03	5.71E-02	0.00E+00	1.46E-02	6.55E-01	2.06E-03			
2014	Annual	Mon-Sun	2.27E+09	Rubber Tir D		500	Constructi U	N	NHH	NP	Total	Total	Total	4.80E+02	2.14E+03	2.58E+04	3.29E-01	1.42E+00	2.74E+00	2.83E+02	2.78E-03	1.13E-01	0.00E+00	2.96E-02	1.33E+00	2.60E-03			
2014	Annual	Mon-Sun	2.27E+09	Rubber Tir D		750	Constructi U	N	NHH	NP	Total	Total	Total	1.70E+02	5.75E+02	1.38E+04	1.75E-01	7.57E-01	1.48E+00	1.51E+02	1.52E-03	6.07E-02	0.00E+00	1.58E-02	2.00E+00	4.01E-03			
2014	Annual	Mon-Sun	2.27E+09	Rubber Tir D		1000	Constructi U	N	NHH	NP	Total	Total	Total	1.15E+01	5.12E+01	1.38E+03	1.84E-02	8.24E-02	1.82E-01	1.51E+01	1.52E-04	6.29E-03	0.00E+00	1.66E-03	3.22E+00	5.95E-03			
2014	Annual	Mon-Sun	2.27E+09	Tractors/Ld		25	Constructi U	P	NHH	NP	Total	Total	Total	3.59E+02	9.28E+02	6.70E+02	8.95E-03	3.03E-02	5.69E-02	7.35E+00	9.33E-05	2.43E-03	0.00E+00	8.08E-04	6.53E-02	2.01E-04			
2014	Annual	Mon-Sun	2.27E+09	Tractors/Ld		50	Constructi U	P	NHH	NP	Total	Total	Total	2.15E+03	5.69E+03	7.97E+03	2.25E-01	8.82E-01	7.85E-01	8.62E+01	1.11E-03	6.00E-02	0.00E+00	2.03E-02	3.10E-01	3.92E-04			
2014	Annual	Mon-Sun	2.27E+09	Tractors/Ld		120	Constructi U	P	NHH	NP	Total	Total	Total	2.87E+04	7.61E+04	1.80E+05	2.41E+00	1.33E+01	1.62E+01	1.97E+03	2.31E-02	1.28E+00	0.00E+00	2.17E-01	3.50E-01	6.06E-04			
2014	Annual	Mon-Sun	2.27E+09	Tractors/Ld		175	Constructi U	P	NHH	NP	Total	Total	Total	2.14E+03	5.68E+03	2.62E+04	2.62E-01	1.66E+00	2.03E+00	2.87E+02	3.23E-03	1.08E-01	0.00E+00	2.36E-02	5.85E-01	1.14E-03			
2014	Annual	Mon-Sun	2.27E+09	Tractors/Ld		250	Constructi U	N	NHH	NP	Total	Total	Total	6.93E+02	1.84E+03	1.43E+04	1.05E-01	3.31E-01	9.44E-01	1.57E+02	1.77E-03	3.03E-02	0.00E+00	9.45E-03	3.60E-01	1.93E-03			
2014	Annual	Mon-Sun	2.27E+09	Tractors/Ld		500	Constructi U	N	NHH	NP	Total	Total	Total	1.12E+03	2.96E+03	4.62E+04	3.24E-01	1.07E+00	2.70E+00	5.10E+02	5.74E-03	9.28E-02	0.00E+00	2.92E-02	7.24E-01	3.88E-03			
2014	Annual	Mon-Sun	2.27E+09	Tractors/Ld		750	Constructi U	N	NHH	NP	Total	Total	Total	7.72E+02	2.04E+03	4.79E+04	3.37E-01	1.11E+00	2.88E+00	5.28E+02	5.94E-03	9.77E-02	0.00E+00	3.04E-02	1.09E+00	5.82E-03			
2014	Annual	Mon-Sun	2.27E+09	Crawler Tr D		50	Constructi U	P	NHH	NP	Total	Total	Total	1.78E+01	5.11E+01	5.94E+01	2.79E-03	8.08E-03	6.50E-03	6.35E-01	8.21E-06	6.41E-04	0.00E+00	2.52E-04	3.16E-01	3.21E-04			
2014	Annual	Mon-Sun	2.27E+09	Crawler Tr D		120	Constructi U	P	NHH	NP	Total	Total	Total	1.01E+04	2.90E+04	8.75E+04	1.76E+00	6.97E+00	1.05E+01	9.53E+02	1.12E-02	9.09E-01	0.00E+00	1.59E-01	4.81E-01	7.71E-04			
2014	Annual	Mon-Sun	2.27E+09	Crawler Tr D		175	Constructi U	P	NHH	NP	Total	Total	Total	3.42E+03	9.81E+03	5.43E+04	7.82E-01	3.63E+00	5.81E+00	5.94E+02	6.68E-03	3.25E-01	0.00E+00	7.05E-02	7.41E-01	1.36E-03			
2014	Annual	Mon-Sun	2.27E+09	Crawler Tr D		250	Constructi U	N	NHH	NP	Total	Total	Total	2.94E+03	8.43E+03	6.36E+04	7.04E-01	2.02E+00	6.19E+00	7.00E+02	7.88E-03	2.37E-01	0.00E+00	6.35E-02	4.79E-01	1.87E-03			
2014	Annual	Mon-Sun	2.27E+09	Crawler Tr D		500	Constructi U	N	NHH	NP	Total	Total	Total	2.02E+03	5.78E+03	6.80E+04	6.99E-01	2.56E+00	5.96E+00	7.48E+02	7.35E-03	2.30E-01	0.00E+00	6.30E-02	8.88E-01	2.54E-03			
2014	Annual	Mon-Sun	2.27E+09	Crawler Tr D		750	Constructi U	N	NHH	NP	Total	Total	Total	1.02E+02	2.93E+02	6.17E+03	6.37E-02	2.33E-01	5.52E-01	6.79E+01	6.83E-04	2.11E-02	0.00E+00	5.74E-03	1.59E+00	4.67E-03			
2014	Annual	Mon-Sun	2.27E+09	Crawler Tr D		1000	Constructi U	N	NHH	NP	Total	Total	Total	1.02E+02	2.92E+02	6.17E+03	9.63E-02	3.69E-01	1.02E+00	9.61E+01	9.66E-04	3.25E-02	0.00E+00	8.69E-03	2.52E+00	6.61E-03			
2014	Annual	Mon-Sun	2.27E+09	Skid Steer D		25	Constructi U	P	NHH	NP	Total	Total	Total	2.45E+03	5.59E+03	3.52E+03	5.45E-02	1.71E-01	3.20E-01	3.86E+01	4.89E-04	1.66E-02	0.00E+00	4.91E-03	6.10E-02	1.75E-04			
2014	Annual	Mon-Sun	2.27E+09	Skid Steer D		50	Constructi U	P	NHH	NP	Total	Total	Total	2.22E+04	5.17E+04	6.05E+04	1.14E+00	5.67E+00	5.58E+00	6.59E+02	8.51E-03	3.47E-01	0.00E+00	1.03E-01	2.19E-01	3.30E-04			
2014	Annual	Mon-Sun	2.27E+09	Skid Steer D		120	Constructi U	P	NHH	NP	Total	Total	Total	1.16E+04	2.71E+04	5.28E+04	5.13E-01	3.69E+00	4.08E+00	5.78E+02	6.78E-03	2.78E-01	0.00E+00	4.63E-02	2.72E-01	5.01E-04			
2014	Annual	Mon-Sun	2.27E+09	Off-Highw D		120	Constructi U	P	NHH	NP	Total	Total	Total	1.27E+00	3.90E+00	1.68E+01	3.91E-04	1.39E-03	2.30E-03	1.82E-01	2.14E-06	1.97E-04	0.00E+00	3.53E-05	7.11E-01	1.10E-03			
2014	Annual	Mon-Sun	2.27E+09	Off-Highw D		175	Constructi U	P	NHH	NP	Total	Total	Total	1.56E+03	4.76E+03	2.84E+04	4.66E-01	1.97E+00	3.48E+00	3.10E+02	3.49E-03	1.95E-01	0.00E+00	1.42E-02	8.26E-01	1.47E-03			
2014	Annual	Mon-Sun	2.27E+09	Off-Highw D		250	Constructi U	N	NHH	NP	Total	Total	Total	1.47E+03	4.50E+03	2.67E+04	3.52E-01	1.01E+00	3.04E+00	2.93E+02	3.30E-03	1.26E-01	0.00E+00	3.17E-02	4.49E-01	1.47E-03			
2014	Annual	Mon-Sun	2.27E+09	Off-Highw D		750	Constructi U	N	NHH	NP	Total	Total	Total	6.41E+02	1.96E+03	5.07E+04	6.13E-01	2.64E+00	5.32E+00	5.56E+02	5.59E-03	2.15E-01	0.00E+00	5.53E-02	2.70E+00	5.71E-03			
2014	Annual	Mon-Sun	2.27E+09	Off-Highw D		1000	Constructi U	N	NHH	NP	Total	Total	Total	6.76E+01	2.07E+02	7.67E+03	9.73E-02	4.35E-01	9.93E-01	8.41E+01	8.45E-04	3.37E-02	0.00E+00	8.78E-03	4.21E+00	8.18E-03			
2014	Annual	Mon-Sun	2.27E+09	Dumpers/TD		25	Constructi U	P	NHH	NP	Total	Total	Total	3.06E+01	5.55E+01	1.93E+01	2.62E-04	8.79E-04	1.65E-03	2.11E-01	2.68E-06	7.47E-05	0.00E+00	2.37E-05	3.17E-02	9.67E-05			
2014	Annual	Mon-Sun	2.27E+09	Other Cons:D		15	Constructi U	P	NHH	NP	Total	Total	Total	4.22E+02	7.98E+02	3.68E+02	4.69E-03	2.46E-02	2.94E-02	4.03E+00	6.27E-05	1.14E-03	0.00E+00	4.23E-04	6.14E-02	1.57E-04			
2014	Annual	Mon-Sun	2.27E+09	Other Cons:D		25	Constructi U	P	NHH	NP	Total	Total	Total	7.13E+01	1.35E+02	8.12E+01	1.08E-03	3.67E-03	6.81E-03	8.91E-01	1.13E-05	2.66E-04	0.00E+00	9.71E-05	5.44E-02	1.68E-04			
2014	Annual	Mon-Sun	2.27E+09	Other Cons:D		50	Constructi U	P	NHH	NP	Total	Total	Total	1.10E+02	2.11E+02	2.72E+02	7.06E-03	2.71E-02	2.60E-02	2.95E+00	3.81E-05	1.93E-03	0.00E+00	6.37E-04	2.57E-01	3.62E-04			
2014	Annual	Mon-Sun	2.27E+09	Other Cons:D		120	Constructi U	P	NHH	NP	Total	Total	Total	1.81E+02	3.48E+02	1.28E+03	1.5												

**Table C.19 CARB Offroad 2007 output**

used to calculate CO and SOx because Offroad2011 does not calculate CO and SOx

CY	Season	AvgDays	Code	Equipme nt	Fuel	MaxH P	Class	C/R	Pre	Hand	Port	County	Air Basin	Air Dist.	Populatio n	Activity	hr/day for	gal/day	ton/day	ton/day	ton/day	ton/day	ton/day	ton/day	ton/day	ton/day	ton/day	ton/day	ton/day	ton/day	ton/day	ton/day	lb/hr/equi pment	lb/hr/equi pment
																	total populatio n	for total populatio n																
2015	Annual	Mon-Sun	2.27E+09	Rollers	D	175	Constructi	U	P	NHH	NP	Total	Total	Total	2.20E+03	4.23E+03	2.08E+04	2.33E-01	1.30E+00	1.84E+00	2.28E+02	2.57E-03	9.93E-02	0.00E+00	2.10E-02	6.16E-01	1.22E-03							
2015	Annual	Mon-Sun	2.27E+09	Rollers	D	250	Constructi	U	N	NHH	NP	Total	Total	Total	3.12E+02	6.00E+02	4.16E+03	3.31E-02	1.07E-01	3.28E-01	4.59E+01	5.16E-04	1.10E-02	0.00E+00	2.99E-03	3.57E-01	1.72E-03							
2015	Annual	Mon-Sun	2.27E+09	Rollers	D	500	Constructi	U	N	NHH	NP	Total	Total	Total	2.19E+02	4.20E+02	4.17E+03	3.08E-02	1.18E-01	2.93E-01	4.60E+01	4.52E-04	1.02E-02	0.00E+00	2.78E-03	5.59E-01	2.15E-03							
2015	Annual	Mon-Sun	2.27E+09	Scrapers	D	120	Constructi	U	P	NHH	NP	Total	Total	Total	5.05E+01	1.54E+02	6.61E+02	1.28E-02	5.24E-02	7.61E-02	7.21E+00	8.45E-05	6.49E-03	0.00E+00	1.15E-03	6.82E-01	1.10E-03							
2015	Annual	Mon-Sun	2.27E+09	Scrapers	D	175	Constructi	U	P	NHH	NP	Total	Total	Total	4.62E+02	1.41E+03	9.50E+03	1.31E-01	6.34E-01	9.59E-01	1.04E+02	1.17E-03	5.38E-02	0.00E+00	1.19E-02	9.02E-01	1.66E-03							
2015	Annual	Mon-Sun	2.27E+09	Scrapers	D	250	Constructi	U	N	NHH	NP	Total	Total	Total	4.50E+02	1.37E+03	1.30E+04	1.38E-01	4.04E-01	1.20E+00	1.43E+02	1.61E-03	4.55E-02	0.00E+00	1.25E-02	5.90E-01	2.35E-03							
2015	Annual	Mon-Sun	2.27E+09	Scrapers	D	500	Constructi	U	N	NHH	NP	Total	Total	Total	1.24E+03	3.77E+03	5.50E+04	5.43E-01	2.01E+00	4.54E+00	6.06E+02	5.95E-03	1.75E-01	0.00E+00	4.90E-02	1.07E+00	3.15E-03							
2015	Annual	Mon-Sun	2.27E+09	Scrapers	D	750	Constructi	U	N	NHH	NP	Total	Total	Total	2.03E+02	6.19E+02	1.56E+04	1.55E-01	5.71E-01	1.32E+00	1.72E+02	1.73E-03	5.02E-02	0.00E+00	1.40E-02	1.84E+00	5.58E-03							
2015	Annual	Mon-Sun	2.27E+09	Paving Eq	D	25	Constructi	U	P	NHH	NP	Total	Total	Total	3.36E+01	7.65E+01	4.39E+01	5.82E-04	1.99E-03	3.68E-03	4.82E-01	6.12E-06	1.41E-04	0.00E+00	5.25E-05	5.19E-02	1.60E-04							
2015	Annual	Mon-Sun	2.27E+09	Paving Eq	D	50	Constructi	U	P	NHH	NP	Total	Total	Total	2.85E+01	6.52E+01	7.28E+01	3.33E-03	9.45E-03	7.71E-03	7.80E-01	1.01E-05	7.54E-04	0.00E+00	3.01E-04	2.90E-01	6.39E-04							
2015	Annual	Mon-Sun	2.27E+09	Paving Eq	D	120	Constructi	U	P	NHH	NP	Total	Total	Total	4.10E+02	9.40E+02	2.35E+03	4.55E-02	1.83E-01	2.76E-01	2.56E+01	3.00E-04	2.36E-02	0.00E+00	4.10E-03	3.89E-01	3.09E-04							
2015	Annual	Mon-Sun	2.27E+09	Paving Eq	D	175	Constructi	U	P	NHH	NP	Total	Total	Total	1.93E+02	4.42E+02	2.04E+03	2.77E-02	1.33E-01	2.11E-01	2.23E+01	2.51E-04	1.17E-02	0.00E+00	2.50E-03	6.02E-01	1.14E-03							
2015	Annual	Mon-Sun	2.27E+09	Paving Eq	D	250	Constructi	U	N	NHH	NP	Total	Total	Total	5.43E+01	1.25E+02	6.91E+02	7.09E-03	2.14E-02	6.53E-02	7.61E+00	8.56E-05	2.45E-03	0.00E+00	6.40E-04	3.44E-01	1.37E-03							
2015	Annual	Mon-Sun	2.27E+09	Surfacing ID	D	50	Constructi	U	P	NHH	NP	Total	Total	Total	2.59E+01	3.21E+01	2.09E+01	6.54E-04	2.14E-03	2.03E-03	2.26E-01	2.92E-06	1.62E-04	0.00E+00	5.90E-05	1.33E-01	1.82E-04							
2015	Annual	Mon-Sun	2.27E+09	Surfacing ID	D	120	Constructi	U	P	NHH	NP	Total	Total	Total	5.17E+00	6.42E+00	1.87E+01	2.69E-04	1.33E-03	1.85E-03	2.05E-01	2.40E-06	1.41E-04	0.00E+00	2.43E-05	4.15E-01	7.47E-04							
2015	Annual	Mon-Sun	2.27E+09	Surfacing ID	D	175	Constructi	U	P	NHH	NP	Total	Total	Total	3.88E+00	4.82E+00	1.88E+01	1.89E-04	1.13E-03	1.61E-03	2.06E-01	2.32E-06	8.05E-05	0.00E+00	1.71E-05	4.70E-01	9.64E-04							
2015	Annual	Mon-Sun	2.27E+09	Surfacing ID	D	250	Constructi	U	N	NHH	NP	Total	Total	Total	7.76E+00	9.63E+00	5.88E+01	4.29E-04	1.50E-03	4.49E-03	6.49E-01	7.30E-06	1.49E-04	0.00E+00	3.87E-05	3.11E-01	1.52E-03							
2015	Annual	Mon-Sun	2.27E+09	Surfacing ID	D	500	Constructi	U	N	NHH	NP	Total	Total	Total	6.47E+01	8.03E+01	8.04E+02	5.38E-03	2.31E-02	5.54E-02	8.87E+00	8.71E-05	1.88E-03	0.00E+00	4.86E-04	5.75E-01	2.17E-03							
2015	Annual	Mon-Sun	2.27E+09	Surfacing ID	D	750	Constructi	U	N	NHH	NP	Total	Total	Total	3.89E+01	4.82E+01	7.58E+02	5.15E-03	2.18E-02	5.35E-02	8.36E+00	8.41E-05	1.79E-03	0.00E+00	4.64E-04	9.02E-01	3.49E-03							
2015	Annual	Mon-Sun	2.27E+09	Signal Boa	D	15	Constructi	U	P	NHH	NP	Total	Total	Total	3.64E+03	7.49E+03	2.11E+03	2.69E-02	1.41E-01	1.68E-01	2.31E+01	3.59E-04	6.58E-03	0.00E+00	2.42E-03	3.76E-02	9.59E-05							
2015	Annual	Mon-Sun	2.27E+09	Signal Boa	D	50	Constructi	U	P	NHH	NP	Total	Total	Total	1.81E+01	2.66E+01	4.43E+01	1.24E-03	4.28E-03	4.18E-03	4.80E-01	6.21E-06	3.23E-04	0.00E+00	1.11E-04	3.22E-01	4.67E-04							
2015	Annual	Mon-Sun	2.27E+09	Signal Boa	D	120	Constructi	U	P	NHH	NP	Total	Total	Total	2.96E+02	4.35E+02	1.59E+03	2.11E+02	1.17E-01	1.47E-01	1.74E+01	2.04E-04	1.14E-02	0.00E+00	1.90E-03	5.11E-01	9.40E-04							
2015	Annual	Mon-Sun	2.27E+09	Signal Boa	D	175	Constructi	U	P	NHH	NP	Total	Total	Total	1.84E+02	2.69E+02	1.90E+03	1.74E-02	1.12E-01	1.51E-01	2.08E+01	2.34E-04	7.52E-03	0.00E+00	1.57E-03	8.29E-01	1.74E-03							
2015	Annual	Mon-Sun	2.27E+09	Signal Boa	D	250	Constructi	U	N	NHH	NP	Total	Total	Total	3.88E+01	5.69E+01	6.57E+02	4.03E-03	1.45E-02	4.62E-02	7.26E+00	8.17E-05	1.35E-03	0.00E+00	3.63E-04	5.09E-01	2.87E-03							
2015	Annual	Mon-Sun	2.27E+09	Trenchers	D	15	Constructi	U	P	NHH	NP	Total	Total	Total	9.70E+01	1.64E+02	6.35E+01	8.09E-04	4.25E-03	5.07E-01	1.08E-05	1.98E-04	0.00E+00	7.30E-05	5.16E-02	1.32E-04								
2015	Annual	Mon-Sun	2.27E+09	Trenchers	D	25	Constructi	U	P	NHH	NP	Total	Total	Total	1.02E+02	1.73E+02	2.59E+02	3.44E-03	1.17E-02	2.17E-02	2.85E+00	3.61E-05	8.16E-04	0.00E+00	3.10E-04	1.35E-01	4.17E-04							
2015	Annual	Mon-Sun	2.27E+09	Trenchers	D	50	Constructi	U	P	NHH	NP	Total	Total	Total	3.89E+03	6.72E+03	1.03E+04	4.66E-01	1.31E+00	1.09E+00	1.10E+02	1.43E-03	1.05E-01	0.00E+00	4.21E-02	3.90E-01	4.25E-04							
2015	Annual	Mon-Sun	2.27E+09	Trenchers	D	120	Constructi	U	P	NHH	NP	Total	Total	Total	5.27E+03	9.10E+03	2.71E+04	5.20E-01	2.09E+00	3.21E+00	2.95E+02	3.46E-03	2.68E-01	0.00E+00	4.69E-02	4.60E-01	7.61E-04							
2015	Annual	Mon-Sun	2.27E+09	Trenchers	D	175	Constructi	U	P	NHH	NP	Total	Total	Total	5.77E+02	9.96E+02	6.54E+03	8.81E-02	4.25E-01	6.85E-01	7.16E+01	8.06E-04	3.72E-02	0.00E+00	7.95E-03	8.53E-01	1.62E-03							
2015	Annual	Mon-Sun	2.27E+09	Trenchers	D	250	Constructi	U	N	NHH	NP	Total	Total	Total	5.17E+01	8.93E+01	9.03E+02	9.39E-03	2.91E-02	8.68E-02	9.95E+00	1.12E-04	3.35E-03	0.00E+00	8.47E-04	6.50E-01	2.51E-03							
2015	Annual	Mon-Sun	2.27E+09	Trenchers	D	500	Constructi	U	N	NHH	NP	Total	Total	Total	6.60E+01	1.14E+02	1.61E+03	1.53E-02	6.46E-02	1.40E-01	1.77E+01	1.74E-04	5.39E-03	0.00E+00	1.38E-03	1.13E+00	3.05E-03							
2015	Annual	Mon-Sun	2.27E+09	Trenchers	D	750	Constructi	U	N	NHH	NP	Total	Total	Total	7.77E+00	1.34E+01	3.58E+02	3.42E-03	1.43E-02	3.17E-02	3.93E+00	3.96E-05	1.21E-03	0.00E+00	3.09E-04	2.14E+00	5.90E-03							
2015	Annual	Mon-Sun	2.27E+09	Bore/Drill	D	15	Constructi	U	P	NHH	P	Total	Total	Total	1.29E+01	2.88E+01	1.36E+01	1.73E-04	9.08E-04	1.08E-03	1.49E-01	2.31E-06	4.23E-05	0.00E+00	1.56E-05	6.31E-02	1.61E-04							
2015	Annual	Mon-Sun	2.27E+09	Bore/Drill	D	25	Constructi	U	P	NHH	P	Total	Total	Total	3.88E+01	8.63E+01	6.28E+01	8.32E-04	2.84E-03	5.26E-03	6.89E-01	8.75E-06	2.01E-04	0.00E+00	7.51E-05	6.58E-02	2.03E-04							
2015	Annual	Mon-Sun	2.27E+09	Bore/Drill	D	50	Constructi	U	P	NHH	P	Total	Total	Total	1.69E+02	3.91E+02	5.54E+02	4.58E-03	4.37E-02	4.38E-02	6.06E+00	7.84E-05	1.46E-03	0.00E+00	4.13E-04	2.23E-01	4.01E-04							
2015	Annual	Mon-Sun	2.27E+09	Bore/Drill	D	120	Constructi	U	P	NHH	P	Total	Total	Total	5.20E+02	1.20E+03	4.21E+03	2.25E-02	2.80E-01	2.24E-01	4.62E+01	5.42E-04	9.62E-03	0.00E+00	2.03E-03	4.67E-01	9.04E-04							
2015	Annual	Mon-Sun	2.27E+09	Bore/Drill	D	175	Constructi	U	P	NHH	P	Total	Total	Total	1.20E+02	2.78E+02	1.78E+03	8.57E-03	1.05E-01	7.44E-02	1.96E+01	2.20E-04	2.75E-03	0.00E+00	7.73E-04	7.53E-01	1.59E-03							
2015	Annual	Mon-Sun	2.27E+09	Bore/Drill	D	250	Constructi	U	N	NHH	P	Total	Total	Total	1.03E+02	2.39E+02	2.03E+03	8.12E-03	4.09E-02	5.85E-02	2.24E+01	2.53E-04	1.72E-03	0.00E+00	7.33E-04	3.42E-01	2.11E-03							
2015	Annual	Mon-Sun	2.27E+09	Bore/Drill	D	500	Constructi	U	N	NHH	P	Total	Total	Total	2.30E+02	5.31E+02	7.47E+03	2.97E-02	1.46E-01	2.04E-01	8.27E+01	8.11E-04	6.26E-03	0.00E+00	2.68E-03	5.51E-01	3.05E-03							
2015	Annual	Mon-Sun	2.27E+09	Bore/Drill	D	750	Constructi	U	N	NHH	P	Total	Total	Total	1.21E+02	2.78E+02	7.73E+03	3.07E-02	1.51E-01	2.13E-01	8.55E+01	8.59E-04	6.49E-03	0.00E+00	2.77E-03	1.09E+00	6.18E-03							
2015	Annual	Mon-Sun	2.27E+09	Bore/Drill	D	1000	Constructi	U	N	NHH	P	Total	Total	Total	2.02E+02	4.66E+02	1.95E+04	8.29E-02	3.85E-01	1.16E+00	2.16E+02	2.17E-03	2.78E-02	0.00E+00	7.48E-03	1.65E+00	9.33E-03							
2015	Annual	Mon-Sun	2.27E+09	Excavators	D	25	Constructi	U	P	NHH	NP	Total	Total	Total	4.79E+01	1.83E+02	1.37E+02	1.82E-03	6.20E-03	1.15E-02	1.50E+00	1.91E-05	4.27E-04	0.00E+00	1.64E-04	6.76E-02	2.08E-04							
2015	Annual	Mon-Sun	2.27E+09	Excavators	D	50	Constructi	U	P	NHH	NP	Total	Total	Total	1.80E+03	7.02E+03	8.12E+03	2.28E-01	9.41E-01	7.91E-01	8.77E+01	1.13E-03	5.86E-02	0.00E+00	2.									

**Table C.19 CARB Offroad 2007 output**

used to calculate CO and SOx because Offroad2011 does not calculate CO and SOx

CY	Season	AvgDays	Code	Equipme nt	Fuel	MaxH P	Class	C/R	Pre	Hand	Port	County	Air Basin	Air Dist.	Populatio n	Activity	hr/day for	gal/day	ton/day	ton/day	ton/day	ton/day	ton/day	ton/day	ton/day	ton/day	ton/day	ton/day	ton/day	ton/day	ton/day	ton/day	ton/day	lb/hr/equi pment	lb/hr/equi pment
																	total populatio n	for total populatio n																	
2015	Annual	Mon-Sun	2.27E+09	Cranes	D	250	Constructi	U	N	NHH	P	Total	Total	Total	9.35E+02	3.28E+03	1.67E+04	1.52E-01	4.45E-01	1.36E+00	1.84E+02	2.07E-03	4.70E-02	0.00E+00	1.37E-02	2.71E-01	1.26E-03								
2015	Annual	Mon-Sun	2.27E+09	Cranes	D	500	Constructi	U	N	NHH	P	Total	Total	Total	3.43E+02	1.20E+03	9.82E+03	8.37E-02	2.80E-01	7.10E-01	1.08E+02	1.06E-03	2.56E-02	0.00E+00	7.56E-03	4.66E-01	1.77E-03								
2015	Annual	Mon-Sun	2.27E+09	Cranes	D	750	Constructi	U	N	NHH	P	Total	Total	Total	2.53E+02	8.87E+02	1.22E+04	1.04E-01	3.47E-01	9.06E-01	1.34E+02	1.35E-03	3.23E-02	0.00E+00	9.42E-03	7.84E-01	3.04E-03								
2015	Annual	Mon-Sun	2.27E+09	Cranes	D	9999	Constructi	U	N	NHH	P	Total	Total	Total	3.17E+02	1.11E+03	4.90E+04	4.83E-01	1.61E+00	5.15E+00	5.40E+02	5.43E-03	1.54E-01	0.00E+00	4.36E-02	2.89E+00	9.75E-03								
2015	Annual	Mon-Sun	2.27E+09	Graders	D	50	Constructi	U	P	NHH	NP	Total	Total	Total	1.81E+01	4.72E+01	6.03E+01	2.11E-03	7.26E-03	6.05E-03	6.49E-01	8.39E-06	5.11E-04	0.00E+00	1.91E-04	3.08E-01	3.56E-04								
2015	Annual	Mon-Sun	2.27E+09	Graders	D	120	Constructi	U	P	NHH	NP	Total	Total	Total	1.21E+03	3.15E+03	1.08E+04	1.70E-01	8.22E-01	1.06E+00	1.18E+02	1.38E-03	8.73E-02	0.00E+00	1.53E-02	5.23E-01	8.79E-04								
2015	Annual	Mon-Sun	2.27E+09	Graders	D	175	Constructi	U	P	NHH	NP	Total	Total	Total	4.13E+03	1.08E+04	6.08E+04	6.98E-01	3.93E+00	5.12E+00	6.66E+02	7.49E-03	2.82E-01	0.00E+00	6.30E-02	7.31E-01	1.39E-03								
2015	Annual	Mon-Sun	2.27E+09	Graders	D	250	Constructi	U	N	NHH	NP	Total	Total	Total	2.56E+03	6.67E+03	5.20E+04	4.42E-01	1.35E+00	3.87E+00	5.74E+02	6.45E-03	1.33E-01	0.00E+00	3.99E-02	4.04E-01	1.93E-03								
2015	Annual	Mon-Sun	2.27E+09	Graders	D	500	Constructi	U	N	NHH	NP	Total	Total	Total	7.24E+01	1.89E+02	1.96E+03	1.57E-02	5.41E-02	1.30E-01	2.16E+01	2.12E-04	4.67E-03	0.00E+00	1.42E-03	5.73E-01	2.25E-03								
2015	Annual	Mon-Sun	2.27E+09	Graders	D	750	Constructi	U	N	NHH	NP	Total	Total	Total	3.89E+00	1.01E+01	2.23E+02	1.79E-03	6.14E-03	1.51E-02	2.46E+00	2.47E-05	5.38E-04	0.00E+00	1.62E-04	1.21E+00	4.88E-03								
2015	Annual	Mon-Sun	2.27E+09	Off-Highw	D	175	Constructi	U	P	NHH	NP	Total	Total	Total	8.41E+01	4.58E+02	2.61E+03	2.88E-02	1.73E-01	1.97E-01	2.86E+01	3.22E-04	1.09E-02	0.00E+00	2.60E-03	7.55E-01	1.41E-03								
2015	Annual	Mon-Sun	2.27E+09	Off-Highw	D	250	Constructi	U	N	NHH	NP	Total	Total	Total	6.21E+02	3.38E+03	2.55E+04	2.11E-01	6.25E-01	1.66E+00	2.81E+02	3.17E-03	5.54E-02	0.00E+00	1.91E-02	3.70E-01	1.87E-03								
2015	Annual	Mon-Sun	2.27E+09	Off-Highw	D	500	Constructi	U	N	NHH	NP	Total	Total	Total	8.75E+02	4.76E+03	5.87E+04	4.66E-01	1.42E+00	3.37E+00	6.48E+02	6.36E-03	1.20E-01	0.00E+00	4.21E-02	5.94E-01	2.67E-03								
2015	Annual	Mon-Sun	2.27E+09	Off-Highw	D	750	Constructi	U	N	NHH	NP	Total	Total	Total	8.15E+02	4.44E+03	8.88E+04	7.09E-01	2.14E+00	5.26E+00	9.79E+02	9.85E-03	1.85E-01	0.00E+00	6.39E-02	9.64E-01	4.44E-03								
2015	Annual	Mon-Sun	2.27E+09	Off-Highw	D	1000	Constructi	U	N	NHH	NP	Total	Total	Total	3.82E+02	2.08E+03	5.88E+04	5.06E-01	1.54E+00	5.42E+00	6.49E+02	6.52E-03	1.56E-01	0.00E+00	4.57E-02	1.48E+00	6.28E-03								
2015	Annual	Mon-Sun	2.27E+09	Crushing/PD	D	50	Constructi	U	P	NHH	P	Total	Total	Total	2.07E+02	5.42E+02	1.11E+03	3.77E-02	1.26E-01	1.09E-01	1.19E+01	1.54E-04	9.37E-03	0.00E+00	3.40E-03	4.64E-01	5.69E-04								
2015	Annual	Mon-Sun	2.27E+09	Crushing/PD	D	120	Constructi	U	P	NHH	P	Total	Total	Total	5.83E+02	1.53E+03	5.81E+03	8.91E-02	4.31E-01	5.63E-01	6.35E+01	7.44E-04	4.80E-02	0.00E+00	8.04E-03	5.64E-01	9.74E-04								
2015	Annual	Mon-Sun	2.27E+09	Crushing/PD	D	175	Constructi	U	P	NHH	P	Total	Total	Total	2.47E+02	6.47E+02	4.93E+03	5.35E-02	3.09E-01	4.13E-01	5.41E+01	6.08E-04	2.26E-02	0.00E+00	4.83E-03	9.55E-01	1.88E-03								
2015	Annual	Mon-Sun	2.27E+09	Crushing/PD	D	250	Constructi	U	N	NHH	P	Total	Total	Total	2.46E+01	6.44E+01	7.12E+02	5.29E-03	1.66E-02	5.26E-02	7.86E+00	8.85E-05	1.63E-03	0.00E+00	4.78E-04	5.17E-01	2.75E-03								
2015	Annual	Mon-Sun	2.27E+09	Crushing/PD	D	500	Constructi	U	N	NHH	P	Total	Total	Total	1.38E+02	3.62E+02	6.13E+03	4.27E-02	1.41E-01	3.93E-01	6.77E+01	6.64E-04	1.31E-02	0.00E+00	3.85E-03	7.78E-01	3.66E-03								
2015	Annual	Mon-Sun	2.27E+09	Crushing/PD	D	750	Constructi	U	N	NHH	P	Total	Total	Total	6.48E+00	1.70E+01	4.52E+02	3.15E-03	1.03E-02	3.01E-02	4.99E+00	5.02E-05	9.76E-04	0.00E+00	2.84E-04	1.22E+00	5.92E-03								
2015	Annual	Mon-Sun	2.27E+09	Crushing/PD	D	9999	Constructi	U	N	NHH	P	Total	Total	Total	6.48E+00	1.70E+01	1.00E+03	8.24E-03	2.62E-02	9.71E-01	1.11E+01	1.11E-04	2.73E-03	0.00E+00	7.43E-04	3.09E+00	1.31E-02								
2015	Annual	Mon-Sun	2.27E+09	Rough Ter	D	50	Constructi	U	P	NHH	NP	Total	Total	Total	1.44E+02	4.46E+02	6.98E+02	2.10E-02	7.91E-02	6.82E-02	7.54E+00	9.74E-05	5.41E-03	0.00E+00	1.89E-03	3.55E-01	4.37E-04								
2015	Annual	Mon-Sun	2.27E+09	Rough Ter	D	120	Constructi	U	P	NHH	NP	Total	Total	Total	6.88E+03	2.13E+04	6.09E+04	8.54E-01	4.54E+00	5.51E+00	6.66E+02	7.81E-03	4.48E-01	0.00E+00	7.70E-02	4.26E-01	7.32E-04								
2015	Annual	Mon-Sun	2.27E+09	Rough Ter	D	175	Constructi	U	P	NHH	NP	Total	Total	Total	8.81E+02	2.73E+03	1.65E+04	1.60E-01	1.19E+00	1.17E+02	1.92E-03	6.52E-02	0.00E+00	1.44E-02	7.23E-01	1.40E-03									
2015	Annual	Mon-Sun	2.27E+09	Rough Ter	D	250	Constructi	U	N	NHH	NP	Total	Total	Total	4.92E+01	1.53E+02	1.18E+03	8.90E-03	2.78E-02	7.92E-02	1.30E+01	1.46E-04	2.58E-03	0.00E+00	8.03E-04	3.65E-01	1.92E-03								
2015	Annual	Mon-Sun	2.27E+09	Rough Ter	D	500	Constructi	U	N	NHH	NP	Total	Total	Total	3.23E+01	1.00E+02	1.17E+03	8.36E-03	2.68E-02	6.84E-02	1.29E+01	1.26E-04	2.39E-03	0.00E+00	7.54E-04	5.33E-01	2.52E-03								
2015	Annual	Mon-Sun	2.27E+09	Rubber Tir	D	25	Constructi	U	P	NHH	NP	Total	Total	Total	1.81E+01	4.75E+01	3.66E+01	4.85E-04	1.66E-03	3.06E-03	4.02E-01	5.10E-06	1.15E-04	0.00E+00	4.38E-05	6.69E-02	2.15E-04								
2015	Annual	Mon-Sun	2.27E+09	Rubber Tir	D	50	Constructi	U	P	NHH	NP	Total	Total	Total	3.52E+02	9.40E+02	1.36E+03	4.66E-02	1.61E-01	1.36E-01	1.46E+01	1.89E-04	1.14E-02	0.00E+00	4.21E-03	3.43E-01	6.02E-04								
2015	Annual	Mon-Sun	2.27E+09	Rubber Tir	D	120	Constructi	U	P	NHH	NP	Total	Total	Total	9.57E+03	2.56E+04	6.89E+04	1.07E+00	5.22E+00	6.67E+00	7.52E+02	8.83E-03	5.50E-01	0.00E+00	9.62E-02	4.09E-01	4.90E-04								
2015	Annual	Mon-Sun	2.27E+09	Rubber Tir	D	175	Constructi	U	P	NHH	NP	Total	Total	Total	5.39E+03	1.44E+04	6.98E+04	7.87E-01	4.50E+00	5.81E+00	7.65E+02	8.61E-03	3.20E-01	0.00E+00	7.11E-02	6.25E-01	1.20E-03								
2015	Annual	Mon-Sun	2.27E+09	Rubber Tir	D	250	Constructi	U	N	NHH	NP	Total	Total	Total	5.36E+03	1.43E+04	9.67E+04	8.01E-01	2.47E+00	7.08E+00	1.07E+03	1.20E-02	2.41E-01	0.00E+00	7.22E-02	3.44E-01	1.67E-03								
2015	Annual	Mon-Sun	2.27E+09	Rubber Tir	D	500	Constructi	U	N	NHH	NP	Total	Total	Total	2.23E+03	5.96E+03	4.40E+04	5.00E-01	1.73E+00	4.17E+00	7.06E+02	6.93E-03	1.49E-01	0.00E+00	4.51E-02	5.81E-01	2.32E-03								
2015	Annual	Mon-Sun	2.27E+09	Rubber Tir	D	750	Constructi	U	N	NHH	NP	Total	Total	Total	1.57E+02	4.19E+02	9.21E+03	7.23E-02	2.49E-01	6.16E-01	1.02E+02	1.02E-03	2.17E-02	0.00E+00	6.53E-03	1.19E+00	4.88E-03								
2015	Annual	Mon-Sun	2.27E+09	Rubber Tir	D	1000	Constructi	U	N	NHH	NP	Total	Total	Total	1.68E+01	4.50E+01	1.21E+03	1.05E-02	3.69E-02	1.19E-01	1.33E+01	1.34E-04	3.48E-03	0.00E+00	9.43E-04	1.64E+00	5.97E-03								
2015	Annual	Mon-Sun	2.27E+09	Rubber Tir	D	175	Constructi	U	P	NHH	NP	Total	Total	Total	1.29E+01	5.76E+01	3.41E+02	5.59E-03	2.40E-02	4.01E-02	3.73E+00	4.19E-05	2.28E-03	0.00E+00	5.05E-04	8.33E-01	1.46E-03								
2015	Annual	Mon-Sun	2.27E+09	Rubber Tir	D	250	Constructi	U	N	NHH	NP	Total	Total	Total	3.17E+02	1.41E+03	1.18E+04	1.56E-01	4.45E-01	1.29E+00	1.29E+02	1.46E-03	5.38E-02	0.00E+00	1.41E-02	6.30E-01	2.06E-03								
2015	Annual	Mon-Sun	2.27E+09	Rubber Tir	D	500	Constructi	U	N	NHH	NP	Total	Total	Total	4.88E+02	2.17E+03	2.62E+04	3.18E-01	1.35E+00	2.60E+00	2.87E+02	2.82E-03	1.07E-01	0.00E+00	2.87E-02	1.24E+00	2.60E-03								
2015	Annual	Mon-Sun	2.27E+09	Rubber Tir	D	750	Constructi	U	N	NHH	NP	Total	Total	Total	1.72E+02	7.68E+02	1.39E+04	1.70E-01	7.18E-01	1.41E+00	1.53E+02	1.54E-03	5.73E-02	0.00E+00	1.53E-02	1.87E+00	4.01E-03								
2015	Annual	Mon-Sun	2.27E+09	Rubber Tir	D	1000	Constructi	U	N	NHH	NP	Total	Total	Total	1.17E+01	5.19E+01	1.40E+03	1.79E-02	7.84E-02	1.77E-01	1.53E+01	1.54E-04	5.99E-03	0.00E+00	1.61E-03	3.02E+00	5.95E-03								
2015	Annual	Mon-Sun	2.27E+09	Tractors/Lr	D	25	Constructi	U	P	NHH	NP	Total	Total	Total	3.65E+02	9.42E+02	6.80E+02	9.05E-03	3.07E-02	5.75E-02	7.47E+00	9.47E-05	2.31E-03	0.00E+00	8.17E-04	6.75E-02	2.01E-04								
2015	Annual	Mon-Sun	2.27E+09	Tractors/Lr	D	50	Constructi	U	P	NHH	NP	Total	Total	Total	2.18E+03	5.77E+03	8.07E+03	2.02E-01	8.70E-01	7.62E-01	8.74E+01	1.13E-03	5.35E-02	0.00E+00	1.82E-02	3.02E-01	3.92E-04								
2015	Annual	Mon-Sun	2.27E+09	Tractors/Lr	D	120	Constructi	U	P	NHH	NP	Total	Total	Total	2.92E+04	7.71E+04	1.82E+05	2.22E+00	1.34E+01	1.49E+01	1.99E+03	2.34E-02	1.13E+00	0.0											

**Table C.19 CARB Offroad 2007 output**

used to calculate CO and SOx because Offroad2011 does not calculate CO and SOx

CY	Season	AvgDays	Code	Equipme nt	Fuel	MaxH P	Class	C/R	Pre	Hand	Port	County	Air Basin	Air Dist.	Populatio n	Activity	hr/day for	gal/day	ROG	CO	NOx	CO2	SO2	PM	N2O	CH4	CO	SOx
																	total populatio n	for total populatio n										
2015	Annual	Mon-Sun	2.27E+09	Off-High D		120	Constructi U	P	NHH	NP	Total	Total	Total	1.29E+00	3.95E+00	1.70E+01	3.76E-04	1.39E-03	2.20E-03	1.85E-01	2.17E-06	1.88E-04	0.00E+00	3.39E-05	7.04E-01	1.10E-03		
2015	Annual	Mon-Sun	2.27E+09	Off-High D		175	Constructi U	P	NHH	NP	Total	Total	Total	1.58E+03	4.83E+03	2.88E+04	4.51E-01	1.98E+00	3.31E+00	3.15E+02	3.54E-03	1.86E-01	0.00E+00	4.07E-02	8.21E-01	1.47E-03		
2015	Annual	Mon-Sun	2.27E+09	Off-High D		250	Constructi U	N	NHH	NP	Total	Total	Total	1.50E+03	4.57E+03	2.71E+04	3.40E-01	9.86E-01	2.89E+00	2.98E+02	3.35E-03	1.19E-01	0.00E+00	3.07E-02	4.32E-01	1.47E-03		
2015	Annual	Mon-Sun	2.27E+09	Off-High D		750	Constructi U	N	NHH	NP	Total	Total	Total	6.50E+02	1.99E+03	5.14E+04	5.93E-01	2.50E+00	5.04E+00	5.64E+02	5.67E-03	2.03E-01	0.00E+00	5.35E-02	2.52E+00	5.71E-03		
2015	Annual	Mon-Sun	2.27E+09	Off-High D		1000	Constructi U	N	NHH	NP	Total	Total	Total	6.87E+01	2.10E+02	7.77E+03	9.44E-02	4.13E-01	9.64E-01	8.53E+01	8.57E-04	3.21E-02	0.00E+00	8.52E-03	3.94E+00	8.18E-03		
2015	Annual	Mon-Sun	2.27E+09	Dumpers/TD		25	Constructi U	P	NHH	NP	Total	Total	Total	3.10E+01	5.64E+01	1.96E+01	2.63E-04	8.88E-04	1.66E-03	2.15E-01	2.72E-06	7.08E-05	0.00E+00	2.37E-05	3.15E-02	9.67E-05		
2015	Annual	Mon-Sun	2.27E+09	Other Cons D		15	Constructi U	P	NHH	NP	Total	Total	Total	4.28E+02	8.10E+02	3.74E+02	4.76E-03	2.50E-02	2.98E-02	4.09E+00	6.37E-05	1.16E-03	0.00E+00	4.30E-04	6.17E-02	1.57E-04		
2015	Annual	Mon-Sun	2.27E+09	Other Cons D		25	Constructi U	P	NHH	NP	Total	Total	Total	7.24E+01	1.37E+02	8.24E+01	1.09E-03	3.73E-03	6.90E-03	9.05E-01	1.15E-05	2.65E-04	0.00E+00	9.85E-05	5.44E-02	1.68E-04		
2015	Annual	Mon-Sun	2.27E+09	Other Cons D		50	Constructi U	P	NHH	NP	Total	Total	Total	1.11E+02	2.14E+02	2.75E+02	6.38E-03	2.68E-02	2.53E-02	2.99E+00	3.87E-05	1.74E-03	0.00E+00	5.75E-04	2.50E-01	3.62E-04		
2015	Annual	Mon-Sun	2.27E+09	Other Cons D		120	Constructi U	P	NHH	NP	Total	Total	Total	1.84E+02	3.53E+02	1.30E+03	1.46E-02	9.18E-02	1.06E-01	1.43E+01	1.67E-04	7.79E-03	0.00E+00	1.32E-03	5.20E-01	9.48E-04		
2015	Annual	Mon-Sun	2.27E+09	Other Cons D		175	Constructi U	P	NHH	NP	Total	Total	Total	2.54E+02	4.87E+02	2.36E+03	1.94E-02	1.43E-01	1.62E-01	2.59E+01	2.92E-04	8.07E-03	0.00E+00	1.75E-03	5.86E-01	1.20E-03		
2015	Annual	Mon-Sun	2.27E+09	Other Cons D		500	Constructi U	N	NHH	NP	Total	Total	Total	5.89E+02	1.13E+03	1.30E+04	7.40E-02	2.80E-01	6.71E-01	1.44E+02	1.41E-03	2.23E-02	0.00E+00	6.68E-03	4.96E-01	2.49E-03		
2016	Annual	Mon-Sun	2.27E+09	Pavers D		25	Constructi U	P	NHH	NP	Total	Total	Total	1.97E+01	4.43E+01	3.77E+01	5.10E-04	1.72E-03	3.21E-03	4.13E-01	5.25E-06	1.36E-04	0.00E+00	4.60E-05	7.74E-02	2.37E-04		
2016	Annual	Mon-Sun	2.27E+09	Pavers D		50	Constructi U	P	NHH	NP	Total	Total	Total	1.15E+03	2.61E+03	3.41E+03	1.46E-01	4.36E-01	3.52E-01	3.65E+01	4.72E-04	3.29E-02	0.00E+00	1.32E-02	3.34E-01	3.62E-04		
2016	Annual	Mon-Sun	2.27E+09	Pavers D		120	Constructi U	P	NHH	NP	Total	Total	Total	1.35E+03	3.08E+03	9.76E+03	1.79E-01	7.58E-01	1.08E+00	1.06E+02	1.25E-03	9.10E-02	0.00E+00	1.62E-02	4.93E-01	8.11E-04		
2016	Annual	Mon-Sun	2.27E+09	Pavers D		175	Constructi U	P	NHH	NP	Total	Total	Total	8.39E+02	1.91E+03	1.12E+04	1.46E-01	7.34E-01	1.08E+00	1.23E+02	1.38E-03	5.99E-02	0.00E+00	1.32E-02	7.67E-01	1.44E-03		
2016	Annual	Mon-Sun	2.27E+09	Pavers D		250	Constructi U	N	NHH	NP	Total	Total	Total	1.01E+02	2.31E+02	2.03E+03	2.03E-02	6.19E-02	1.78E-01	2.24E+01	2.52E-04	6.76E-03	0.00E+00	1.83E-03	5.36E-01	2.19E-03		
2016	Annual	Mon-Sun	2.27E+09	Pavers D		500	Constructi U	N	NHH	NP	Total	Total	Total	1.04E+02	2.37E+02	2.50E+03	2.31E-02	9.04E-02	1.98E-01	2.76E+01	2.71E-04	7.58E-03	0.00E+00	2.09E-03	7.64E-01	2.29E-03		
2016	Annual	Mon-Sun	2.27E+09	Plate Com D		15	Constructi U	P	NHH	NP	Total	Total	Total	4.23E+02	6.96E+02	1.37E+02	1.75E-03	9.15E-03	1.09E-02	1.50E+00	2.33E-05	4.26E-04	0.00E+00	1.57E-04	2.63E-02	6.71E-05		
2016	Annual	Mon-Sun	2.27E+09	Rollers D		15	Constructi U	P	NHH	NP	Total	Total	Total	7.95E+02	1.51E+03	4.37E+02	5.56E-03	2.92E-02	3.48E-02	4.78E+00	7.44E-05	1.36E-03	0.00E+00	5.02E-04	3.86E-02	9.83E-05		
2016	Annual	Mon-Sun	2.27E+09	Rollers D		25	Constructi U	P	NHH	NP	Total	Total	Total	3.32E+02	6.33E+02	3.84E+02	5.09E-03	1.74E-02	3.22E-02	4.22E+00	5.35E-05	1.22E-03	0.00E+00	4.59E-04	5.49E-02	1.69E-04		
2016	Annual	Mon-Sun	2.27E+09	Rollers D		103	Constructi U	P	NHH	NP	Total	Total	Total	1.03E+03	1.99E+03	2.39E+03	7.92E-02	2.66E-01	3.31E-01	2.58E+01	3.33E-04	1.90E-02	0.00E+00	7.15E-03	2.68E-01	3.36E-04		
2016	Annual	Mon-Sun	2.27E+09	Rollers D		120	Constructi U	P	NHH	NP	Total	Total	Total	5.55E+03	1.07E+04	2.88E+04	4.24E-01	2.12E+00	2.72E+00	3.14E+02	3.69E-03	2.22E-01	0.00E+00	3.82E-02	3.97E-01	6.91E-04		
2016	Annual	Mon-Sun	2.27E+09	Rollers D		175	Constructi U	P	NHH	NP	Total	Total	Total	2.23E+03	4.29E+03	2.11E+04	2.21E-01	1.32E+00	1.71E+00	2.32E+02	2.61E-03	9.25E-02	0.00E+00	2.00E-02	6.15E-01	1.22E-03		
2016	Annual	Mon-Sun	2.27E+09	Rollers D		250	Constructi U	N	NHH	NP	Total	Total	Total	3.16E+02	6.08E+02	4.22E+03	3.17E-02	1.05E-01	3.03E-01	4.65E+01	5.24E-04	1.01E-02	0.00E+00	2.86E-03	3.46E-01	1.72E-03		
2016	Annual	Mon-Sun	2.27E+09	Rollers D		500	Constructi U	N	NHH	NP	Total	Total	Total	2.22E+02	4.27E+02	4.23E+03	2.97E-02	1.13E-01	2.70E-01	4.67E+01	4.58E-04	9.42E-03	0.00E+00	2.68E-03	5.31E-01	2.15E-03		
2016	Annual	Mon-Sun	2.27E+09	Scrapers D		120	Constructi U	P	NHH	NP	Total	Total	Total	5.12E+01	1.56E+02	6.70E+02	1.22E-02	5.27E-02	7.24E-02	7.31E+00	8.58E-05	6.08E-03	0.00E+00	1.10E-03	6.77E-01	1.10E-03		
2016	Annual	Mon-Sun	2.27E+09	Scrapers D		175	Constructi U	P	NHH	NP	Total	Total	Total	4.69E+02	1.43E+03	9.64E+03	1.26E-01	6.41E-01	8.99E-01	1.06E+02	1.19E-03	5.06E-02	0.00E+00	1.14E-02	8.19E-01	1.66E-03		
2016	Annual	Mon-Sun	2.27E+09	Scrapers D		250	Constructi U	N	NHH	NP	Total	Total	Total	4.57E+02	1.39E+03	1.32E+04	1.33E-01	3.95E-01	1.12E+00	1.46E+02	1.64E-03	4.22E-02	0.00E+00	1.20E-02	5.68E-01	2.35E-03		
2016	Annual	Mon-Sun	2.27E+09	Scrapers D		500	Constructi U	N	NHH	NP	Total	Total	Total	1.26E+03	3.83E+03	5.58E+04	5.23E-01	1.93E+00	4.24E+00	6.15E+02	6.03E-03	1.63E-01	0.00E+00	4.72E-02	1.01E+00	3.15E-03		
2016	Annual	Mon-Sun	2.27E+09	Scrapers D		750	Constructi U	N	NHH	NP	Total	Total	Total	2.07E+02	6.28E+02	1.58E+04	1.49E-01	5.48E-01	1.23E+00	1.74E+02	1.75E-03	4.67E-02	0.00E+00	1.34E-02	1.74E+00	5.58E-03		
2016	Annual	Mon-Sun	2.27E+09	Paving Eq D		25	Constructi U	P	NHH	NP	Total	Total	Total	3.41E+01	7.76E+01	4.46E+01	5.91E-04	2.02E-03	3.73E-03	4.90E-01	6.21E-06	1.41E-04	0.00E+00	5.33E-05	5.19E-02	1.60E-04		
2016	Annual	Mon-Sun	2.27E+09	Paving Eq D		50	Constructi U	P	NHH	NP	Total	Total	Total	2.89E+01	6.62E+01	7.38E+01	3.15E-03	9.36E-03	7.60E-03	7.91E-01	1.02E-05	7.13E-04	0.00E+00	2.84E-04	2.83E-01	3.09E-04		
2016	Annual	Mon-Sun	2.27E+09	Paving Eq D		120	Constructi U	P	NHH	NP	Total	Total	Total	4.16E+02	9.54E+02	2.38E+03	4.35E-02	1.84E-01	2.63E-01	2.60E+01	3.05E-04	2.23E-02	0.00E+00	3.92E-03	3.86E-01	6.39E-04		
2016	Annual	Mon-Sun	2.27E+09	Paving Eq D		175	Constructi U	P	NHH	NP	Total	Total	Total	1.96E+02	4.48E+02	2.07E+03	2.66E-02	1.34E-01	1.98E-01	2.26E+01	2.55E-04	1.10E-02	0.00E+00	2.40E-03	6.00E-01	1.14E-03		
2016	Annual	Mon-Sun	2.27E+09	Paving Eq D		250	Constructi U	N	NHH	NP	Total	Total	Total	5.52E+01	1.26E+02	7.01E+02	6.80E-03	2.08E-02	6.13E-02	7.72E+00	8.69E-05	2.27E-03	0.00E+00	6.14E-04	3.30E-01	1.37E-03		
2016	Annual	Mon-Sun	2.27E+09	Surfacing ID		50	Constructi U	P	NHH	NP	Total	Total	Total	2.63E+01	3.26E+01	2.12E+01	6.12E-04	2.12E-03	1.98E-03	2.30E-01	2.97E-06	1.51E-04	0.00E+00	5.52E-05	1.30E-01	1.82E-04		
2016	Annual	Mon-Sun	2.27E+09	Surfacing ID		120	Constructi U	P	NHH	NP	Total	Total	Total	5.25E+00	6.52E+00	1.90E+01	2.54E-04	1.34E-03	1.75E-03	2.08E-01	2.43E-06	1.31E-04	0.00E+00	2.29E-05	4.12E-01	7.47E-04		
2016	Annual	Mon-Sun	2.27E+09	Surfacing ID		175	Constructi U	P	NHH	NP	Total	Total	Total	3.94E+00	4.89E+00	1.91E+01	1.79E-04	1.15E-03	1.50E-03	2.09E-01	2.36E-06	7.51E-05	0.00E+00	1.62E-05	4.69E-01	9.64E-04		
2016	Annual	Mon-Sun	2.27E+09	Surfacing ID		250	Constructi U	N	NHH	NP	Total	Total	Total	7.88E+00	9.77E+00	5.97E+01	4.06E-04	1.47E-03	4.15E-03	6.58E-01	7.41E-06	1.37E-04	0.00E+00	3.67E-05	3.01E-01	1.52E-03		
2016	Annual	Mon-Sun	2.27E+09	Surfacing ID		500	Constructi U	N	NHH	NP	Total	Total	Total	6.57E+01	8.14E+01	8.16E+02	5.13E-03	2.23E-02	5.11E-02	9.00E+00	8.83E-05	1.73E-03	0.00E+00	4.63E-04	5.48E-01	2.17E-03		
2016	Annual	Mon-Sun	2.27E+09	Surfacing ID		750	Constructi U	N	NHH	NP	Total	Total	Total	3.95E+01	4.89E+01	7.69E+02	4.90E-03	2.10E-02	4.94E-02	8.48E+00	8.53E-05	1.65E-03	0.00E+00	4.42E-04	8.59E-01	3.49E-03		
2016	Annual	Mon-Sun	2.27E+09	Signal Boa D		15	Constructi U	P	NHH	NP	Total	Total	Total	3.70E+03	7.60E+03	2.14E+03	2.73E-02	1.43E-01	1.71E-01	2.34E+01	3.65E-04	6.67E-03	0.00E+00	2.46E-03	3.76E-02	9.59E-05		
2016	Annual	Mon-Sun	2.27E+09	Signal Boa D		50	Constructi U	P	NHH	NP	Total	Total	Total	1.84E+01	2.70E+01	4.49												

Table C.19 CARB Offroad 2007 output

used to calculate CO and SOx because Offroad2011 does not calculate CO and SOx

CY	Season	AvgDays	Code	Equipm ent	Fuel	MaxH P	Class	C/R	Pre	Hand	Port	County	Air Basin	Air Dist.	Populatio n	Activity	Consump tion	hr/day for total populatio n		gal/day for total populatio n		ton/day	ton/day	ton/day	ton/day	ton/day	ton/day	ton/day	ton/day	ton/day	ton/day	ton/day	lb/hr/equi pment	lb/hr/equi pment
																		ROG Exhaust	CO Exhaust	NOX Exhaust	CO2 Exhaust													
2016	Annual	Mon-Sun	2.27E+09	Bore/Drill D		50	Constructio U	P	NHH	P	Total	Total	Total	1.72E+02	3.97E+02	5.62E+02	4.36E-03	4.41E-02	4.18E-02	6.15E+00	7.96E-05	1.15E-03	0.00E+00	3.94E-04	2.22E-01	4.01E-04								
2016	Annual	Mon-Sun	2.27E+09	Bore/Drill D		120	Constructio U	P	NHH	P	Total	Total	Total	5.28E+02	1.22E+03	4.27E+03	2.12E-02	2.84E-01	2.01E-01	4.69E+01	5.50E-04	7.60E-03	0.00E+00	1.92E-03	4.67E-01	9.04E-04								
2016	Annual	Mon-Sun	2.27E+09	Bore/Drill D		175	Constructio U	P	NHH	P	Total	Total	Total	1.22E+02	2.82E+02	1.81E+03	7.97E-03	1.06E-01	6.16E-02	1.99E+01	2.23E-04	2.20E-03	0.00E+00	7.19E-04	7.53E-01	1.59E-03								
2016	Annual	Mon-Sun	2.27E+09	Bore/Drill D		250	Constructio U	N	NHH	P	Total	Total	Total	1.05E+02	2.42E+02	2.06E+03	7.60E-03	4.15E-02	4.71E-02	2.28E+01	2.56E-04	1.37E-03	0.00E+00	6.86E-04	3.42E-01	2.11E-03								
2016	Annual	Mon-Sun	2.27E+09	Bore/Drill D		500	Constructio U	N	NHH	P	Total	Total	Total	2.34E+02	5.39E+02	7.58E+03	2.78E-02	1.48E-01	1.68E-01	8.39E+01	8.23E-04	5.01E-03	0.00E+00	2.51E-03	5.51E-01	3.05E-03								
2016	Annual	Mon-Sun	2.27E+09	Bore/Drill D		750	Constructio U	N	NHH	P	Total	Total	Total	1.22E+02	2.82E+02	7.84E+03	2.88E-02	1.54E-01	1.75E-01	8.67E+01	8.72E-04	5.20E-03	0.00E+00	2.60E-03	1.09E+00	6.18E-03								
2016	Annual	Mon-Sun	2.27E+09	Bore/Drill D		1000	Constructio U	N	NHH	P	Total	Total	Total	2.05E+02	4.73E+02	1.98E+04	7.73E-02	3.89E-01	1.10E+00	2.19E+02	2.21E-03	2.39E-02	0.00E+00	6.98E-03	1.65E+00	9.33E-03								
2016	Annual	Mon-Sun	2.27E+09	Excavators D		25	Constructio U	P	NHH	NP	Total	Total	Total	4.86E+01	1.86E+02	1.39E+02	1.84E-03	6.29E-03	1.16E-02	1.53E+00	1.94E-05	4.35E-04	0.00E+00	1.66E-04	6.76E-02	2.08E-04								
2016	Annual	Mon-Sun	2.27E+09	Excavators D		50	Constructio U	P	NHH	NP	Total	Total	Total	1.83E+03	7.12E+03	8.22E+03	2.07E-01	9.32E-01	7.70E-01	8.89E+01	1.15E-03	5.23E-02	0.00E+00	1.87E-02	2.62E-01	3.23E-04								
2016	Annual	Mon-Sun	2.27E+09	Excavators D		120	Constructio U	P	NHH	NP	Total	Total	Total	4.97E+03	1.93E+04	6.50E+04	8.04E-01	4.90E+00	5.11E+00	7.11E+02	8.34E-03	3.82E-01	0.00E+00	7.26E-02	5.07E-01	8.63E-04								
2016	Annual	Mon-Sun	2.27E+09	Excavators D		175	Constructio U	P	NHH	NP	Total	Total	Total	9.58E+03	3.73E+04	1.91E+05	1.81E+00	1.24E+01	1.22E+01	2.09E+03	2.35E-02	6.61E-01	0.00E+00	1.63E-01	6.64E-01	1.26E-03								
2016	Annual	Mon-Sun	2.27E+09	Excavators D		250	Constructio U	N	NHH	NP	Total	Total	Total	3.90E+03	1.52E+04	1.09E+05	7.98E-01	2.57E+00	5.96E+00	1.20E+03	1.35E-02	1.99E-01	0.00E+00	7.20E-02	3.39E-01	1.78E-03								
2016	Annual	Mon-Sun	2.27E+09	Excavators D		500	Constructio U	N	NHH	NP	Total	Total	Total	2.81E+03	1.09E+04	1.16E+05	8.17E-01	2.65E+00	5.59E+00	1.28E+03	1.25E-02	2.00E-01	0.00E+00	7.37E-02	4.85E-01	2.29E-03								
2016	Annual	Mon-Sun	2.27E+09	Excavators D		750	Constructio U	N	NHH	NP	Total	Total	Total	6.18E+01	2.40E+02	4.21E+03	2.99E-02	9.65E-02	2.10E-01	4.65E+01	4.68E-04	7.41E-03	0.00E+00	2.70E-03	8.03E-01	3.89E-03								
2016	Annual	Mon-Sun	2.27E+09	Concrete/Id		25	Constructio U	P	NHH	NP	Total	Total	Total	5.25E+00	8.53E+00	6.39E+00	8.47E-05	2.89E-04	5.35E-04	7.02E-02	8.91E-07	2.00E-05	0.00E+00	7.64E-06	6.78E-02	2.09E-04								
2016	Annual	Mon-Sun	2.27E+09	Concrete/Id		50	Constructio U	P	NHH	NP	Total	Total	Total	4.60E+01	7.31E+01	1.02E+02	2.57E-03	9.76E-03	9.35E-03	1.10E+00	1.43E-05	6.80E-04	0.00E+00	2.32E-04	2.67E-01	3.90E-04								
2016	Annual	Mon-Sun	2.27E+09	Concrete/Id		120	Constructio U	P	NHH	NP	Total	Total	Total	8.01E+01	1.27E+02	4.31E+02	5.15E-03	3.01E-02	3.68E-02	4.72E+00	5.54E-05	2.77E-03	0.00E+00	4.65E-04	4.72E-01	8.69E-04								
2016	Annual	Mon-Sun	2.27E+09	Concrete/Id		175	Constructio U	P	NHH	NP	Total	Total	Total	2.63E+00	4.18E+00	3.05E+01	2.56E-04	1.81E-03	2.18E-03	3.34E-01	3.76E-06	1.10E-04	0.00E+00	2.31E-05	8.66E-01	1.80E-03								
2016	Annual	Mon-Sun	2.27E+09	Cement an	D	15	Constructio U	P	NHH	NP	Total	Total	Total	6.71E+02	5.52E+02	1.59E+02	2.03E-03	1.06E-02	1.27E-02	1.74E+00	2.71E-05	5.14E-04	0.00E+00	1.83E-04	3.86E-02	9.83E-05								
2016	Annual	Mon-Sun	2.27E+09	Cement an	D	25	Constructio U	P	NHH	NP	Total	Total	Total	6.04E+01	4.97E+01	3.97E+01	6.04E-04	1.91E-03	3.26E-03	4.36E-01	5.53E-06	1.75E-04	0.00E+00	5.45E-05	7.71E-02	2.23E-04								
2016	Annual	Mon-Sun	2.27E+09	Cranes D		50	Constructio U	P	NHH	P	Total	Total	Total	4.47E+01	1.57E+02	1.69E+02	6.10E-03	2.08E-02	1.69E-02	1.82E+00	2.35E-05	1.45E-03	0.00E+00	5.50E-04	2.65E-01	2.99E-04								
2016	Annual	Mon-Sun	2.27E+09	Cranes D		120	Constructio U	P	NHH	P	Total	Total	Total	4.90E+02	1.72E+03	3.95E+03	6.39E-02	3.03E-01	3.84E-01	4.31E+01	5.05E-04	3.24E-02	0.00E+00	7.77E-03	3.03E-01	5.88E-04								
2016	Annual	Mon-Sun	2.27E+09	Cranes D		175	Constructio U	P	NHH	P	Total	Total	Total	4.90E+02	1.72E+03	6.30E+03	7.41E-02	4.11E-01	5.24E-01	6.90E+01	7.76E-04	2.97E-02	0.00E+00	6.68E-03	4.78E-01	9.03E-04								
2016	Annual	Mon-Sun	2.27E+09	Cranes D		250	Constructio U	N	NHH	P	Total	Total	Total	9.49E+02	3.33E+03	1.69E+04	1.46E-01	4.38E-01	1.25E+00	1.87E+02	2.10E-03	4.32E-02	0.00E+00	1.32E-02	2.63E-01	1.26E-03								
2016	Annual	Mon-Sun	2.27E+09	Cranes D		500	Constructio U	N	NHH	P	Total	Total	Total	3.48E+02	1.22E+03	9.96E+03	8.08E-02	2.70E-01	6.54E-01	1.10E+02	1.08E-03	2.36E-02	0.00E+00	7.29E-03	4.43E-01	1.77E-03								
2016	Annual	Mon-Sun	2.27E+09	Cranes D		750	Constructio U	N	NHH	P	Total	Total	Total	2.56E+02	9.00E+02	1.24E+04	1.01E-01	3.35E-01	8.36E-01	1.36E+02	1.37E-03	2.98E-02	0.00E+00	9.10E-03	7.45E-01	3.04E-03								
2016	Annual	Mon-Sun	2.27E+09	Cranes D		9999	Constructio U	N	NHH	P	Total	Total	Total	3.22E+02	1.13E+03	4.97E+04	4.65E-01	1.53E+00	4.94E+00	5.48E+02	5.51E-03	1.44E-01	0.00E+00	4.20E-02	2.70E+00	9.75E-03								
2016	Annual	Mon-Sun	2.27E+09	Graders D		50	Constructio U	P	NHH	NP	Total	Total	Total	1.84E+01	4.79E+01	6.11E+01	1.95E-03	7.18E-03	6.59E-03	8.51E-06	4.68E-04	0.00E+00	1.76E-04	3.00E-01	3.56E-04									
2016	Annual	Mon-Sun	2.27E+09	Graders D		120	Constructio U	P	NHH	NP	Total	Total	Total	1.23E+03	3.19E+03	1.09E+04	1.60E-01	8.29E-01	9.92E-01	1.20E+02	1.40E-03	7.97E-02	0.00E+00	1.44E-02	5.19E-01	8.79E-04								
2016	Annual	Mon-Sun	2.27E+09	Graders D		175	Constructio U	P	NHH	NP	Total	Total	Total	4.19E+03	1.09E+04	6.16E+04	6.63E-01	3.98E+00	4.70E+00	6.75E+02	7.60E-03	2.60E-01	0.00E+00	5.98E-02	7.30E-01	1.39E-03								
2016	Annual	Mon-Sun	2.27E+09	Graders D		250	Constructio U	N	NHH	NP	Total	Total	Total	2.60E+03	6.77E+03	5.28E+04	4.23E-01	1.33E+00	3.53E+00	5.82E+02	6.55E-03	1.21E-01	0.00E+00	3.82E-02	3.93E-01	1.93E-03								
2016	Annual	Mon-Sun	2.27E+09	Graders D		500	Constructio U	N	NHH	NP	Total	Total	Total	7.35E+01	1.91E+02	1.99E+03	1.51E-02	5.28E-02	1.19E-01	2.20E+01	2.15E-04	4.27E-03	0.00E+00	1.36E-03	5.52E-01	2.25E-03								
2016	Annual	Mon-Sun	2.27E+09	Graders D		750	Constructio U	N	NHH	NP	Total	Total	Total	3.95E+00	1.03E+01	2.26E+02	1.72E-03	6.00E-03	1.38E-02	2.49E+00	2.51E-05	4.92E-04	0.00E+00	1.65E-04	1.17E+00	4.88E-03								
2016	Annual	Mon-Sun	2.27E+09	Off-Highw D		175	Constructio U	P	NHH	NP	Total	Total	Total	8.54E+01	4.65E+02	2.65E+03	2.70E-02	1.75E-01	1.77E-01	2.90E+01	3.27E-04	9.69E-03	0.00E+00	2.44E-03	7.55E-01	1.41E-03								
2016	Annual	Mon-Sun	2.27E+09	Off-Highw D		250	Constructio U	N	NHH	NP	Total	Total	Total	6.30E+02	3.43E+03	2.59E+04	2.02E-01	6.26E-01	1.49E+00	2.85E+02	3.21E-03	4.98E-02	0.00E+00	1.82E-02	3.65E-01	1.87E-03								
2016	Annual	Mon-Sun	2.27E+09	Off-Highw D		500	Constructio U	N	NHH	NP	Total	Total	Total	8.88E+02	4.83E+03	5.96E+04	4.48E-01	1.40E+00	3.02E+00	6.57E+02	6.45E-03	1.08E-01	0.00E+00	4.04E-02	5.79E-01	2.67E-03								
2016	Annual	Mon-Sun	2.27E+09	Off-Highw D		750	Constructio U	N	NHH	NP	Total	Total	Total	8.27E+02	4.50E+03	9.00E+04	6.80E-01	2.11E+00	4.71E+00	9.93E+02	9.99E-03	1.66E-01	0.00E+00	6.14E-02	9.39E-01	4.44E-03								
2016	Annual	Mon-Sun	2.27E+09	Off-Highw D		1000	Constructio U	N	NHH	NP	Total	Total	Total	3.88E+02	2.11E+03	5.97E+04	4.82E-01	1.49E+00	5.15E+00	6.58E+02	6.62E-03	1.43E-01	0.00E+00	4.35E-02	1.41E+00	6.28E-03								
2016	Annual	Mon-Sun	2.27E+09	Crushing/PD		50	Constructio U	P	NHH	P	Total	Total	Total	2.10E+02	5.50E+02	1.12E+03	3.39E-02	1.24E-01	1.07E-01	1.21E+01	1.56E-04	8.51E-03	0.00E+00	3.06E-03	4.49E-01	5.69E-04								
2016	Annual	Mon-Sun	2.27E+09	Crushing/PD		120	Constructio U	P	NHH	P	Total	Total	Total	5.92E+02	1.55E+03	5.89E+03	8.17E-02	4.33E-01	5.25E-01	6.44E+01	7.56E-04	4.30E-02	0.00E+00	7.37E-03	5.59E-01	9.74E-04								
2016	Annual	Mon-Sun	2.27E+09	Crushing/PD		175	Constructio U	P	NHH	P	Total	Total	Total	2.51E+02	6.57E+02	5.01E+03	4.96E-02	3.13E-01	3.75E-01	5.49E+01	6.18E-04	2.04E-02	0.00E+00	4.48E-03	9.53E-01	1.88E-03								
2016	Annual	Mon-Sun	2.27E+09	Crushing/PD		250	Constructio U	N	NHH	P	Total	Total	Total	2.50E+01	6.53E+01	7.23E+02	5.07E-03	1.66E-02	4.75E-02	7.98E+00	8.98E-05	1.48E-03	0.00E+00	4.57E-04	5.07E-01	2.75E-03								
2016	Annual	Mon-Sun	2.27E+09	Crushing/PD		500	Constructio U	N	NHH	P	Total	Total	Total	1.41E+02	3.68E+02	6.22E+03	4.12E-02	1.39E-01	3.54E-01	6.87E+01	6.74E-04	1.19E-02	0.00E+00	3.72E-03	7.53E-01	3.66E-03								
2016	Annual	Mon-S																																

**Table C.19 CARB Offroad 2007 output**

used to calculate CO and SOx because Offroad2011 does not calculate CO and SOx

CY	Season	AvgDays	Code	Equipme nt	Fuel	MaxH P	Class	C/R	Pre	Hand	Port	County	Air Basin	Air Dist.	Populatio n	Activity	Consump tion	hr/day for gal/day total populatio for total n population										lb/hr/equi pment	lb/hr/equi pment
																		ROG Exhaust	CO Exhaust	NOX Exhaust	CO2 Exhaust	SO2 Exhaust	PM Exhaust	N2O Exhaust	CH4 Exhaust	CO	SOx		
2016	Annual	Mon-Sun	2.27E+09	Rubber Tir D		1000	Constructi	U	N	NHH	NP	Total	Total	Total	1.71E+01	4.56E+01	1.23E+03	1.00E-02	3.55E-02	1.14E-01	1.35E+01	1.36E-04	3.24E-03	0.00E+00	9.04E-04	1.56E+00	5.97E-03		
2016	Annual	Mon-Sun	2.27E+09	Rubber Tir D		175	Constructi	U	P	NHH	NP	Total	Total	Total	1.31E+01	5.84E+01	3.46E+02	5.41E-03	2.42E-02	3.82E-02	3.78E+00	4.25E-05	2.16E-03	0.00E+00	4.88E-04	8.27E-01	1.46E-03		
2016	Annual	Mon-Sun	2.27E+09	Rubber Tir D		250	Constructi	U	N	NHH	NP	Total	Total	Total	3.22E+02	1.43E+03	1.19E+04	1.50E-01	4.34E-01	1.22E+00	1.31E+02	1.48E-03	5.06E-02	0.00E+00	1.35E-02	6.06E-01	2.06E-03		
2016	Annual	Mon-Sun	2.27E+09	Rubber Tir D		500	Constructi	U	N	NHH	NP	Total	Total	Total	4.95E+02	2.20E+03	2.65E+04	3.07E-01	1.29E+00	2.46E+00	2.92E+02	2.86E-03	1.01E-01	0.00E+00	2.77E-02	1.17E+00	2.60E-03		
2016	Annual	Mon-Sun	2.27E+09	Rubber Tir D		750	Constructi	U	N	NHH	NP	Total	Total	Total	1.75E+02	7.79E+02	1.41E+04	1.64E-01	6.83E-01	1.33E+00	1.55E+02	1.56E-03	5.40E-02	0.00E+00	1.48E-02	1.75E+00	4.01E-03		
2016	Annual	Mon-Sun	2.27E+09	Rubber Tir D		1000	Constructi	U	N	NHH	NP	Total	Total	Total	1.18E+01	5.26E+01	1.42E+03	1.73E-02	7.46E-02	1.72E-01	1.56E+01	1.56E-04	5.70E-03	0.00E+00	1.56E-03	2.83E+00	5.95E-03		
2016	Annual	Mon-Sun	2.27E+09	Tractors/L/D		25	Constructi	U	P	NHH	NP	Total	Total	Total	3.70E+02	9.57E+02	6.90E+02	9.17E-03	3.12E-02	5.81E-02	7.58E+00	9.62E-05	2.29E-03	0.00E+00	8.27E-04	6.53E-02	2.01E-04		
2016	Annual	Mon-Sun	2.27E+09	Tractors/L/D		50	Constructi	U	P	NHH	NP	Total	Total	Total	2.21E+03	5.85E+03	8.17E+03	1.82E-01	8.61E-01	7.41E-01	8.87E+01	1.15E-03	4.74E-02	0.00E+00	1.64E-02	2.95E-01	3.92E-04		
2016	Annual	Mon-Sun	2.27E+09	Tractors/L/D		120	Constructi	U	P	NHH	NP	Total	Total	Total	2.96E+04	7.82E+04	1.85E+05	2.05E+00	1.35E+01	1.38E+01	2.02E+03	2.37E-02	9.90E-01	0.00E+00	1.85E-01	3.46E-01	6.06E-04		
2016	Annual	Mon-Sun	2.27E+09	Tractors/L/D		175	Constructi	U	P	NHH	NP	Total	Total	Total	2.21E+03	5.84E+03	2.70E+04	2.30E-01	1.71E+00	1.63E+00	2.96E+02	3.33E-03	8.54E-02	0.00E+00	2.07E-02	5.84E-01	1.14E-03		
2016	Annual	Mon-Sun	2.27E+09	Tractors/L/D		250	Constructi	U	N	NHH	NP	Total	Total	Total	7.14E+02	1.89E+03	1.47E+04	9.67E-02	3.33E-01	7.46E-01	1.62E+02	1.82E-03	2.45E-02	0.00E+00	8.72E-03	3.53E-01	1.93E-03		
2016	Annual	Mon-Sun	2.27E+09	Tractors/L/D		500	Constructi	U	N	NHH	NP	Total	Total	Total	1.15E+03	3.05E+03	4.75E+04	3.02E-01	1.06E+00	2.15E+00	5.25E+02	5.91E-03	7.55E-02	0.00E+00	2.73E-02	6.96E-01	3.88E-03		
2016	Annual	Mon-Sun	2.27E+09	Tractors/L/D		750	Constructi	U	N	NHH	NP	Total	Total	Total	7.96E+02	2.10E+03	4.92E+04	3.14E-01	1.10E+00	2.29E+00	5.43E+02	6.11E-03	7.94E-02	0.00E+00	2.84E-02	1.04E+00	5.82E-03		
2016	Annual	Mon-Sun	2.27E+09	Crawler Tr D		50	Constructi	U	P	NHH	NP	Total	Total	Total	1.84E+01	5.25E+01	6.08E+01	2.48E-03	7.91E-03	6.26E-03	6.53E-01	8.44E-06	5.63E-04	0.00E+00	2.24E-04	3.01E-01	3.21E-04		
2016	Annual	Mon-Sun	2.27E+09	Crawler Tr D		120	Constructi	U	P	NHH	NP	Total	Total	Total	1.04E+04	2.98E+04	8.98E+04	1.60E+00	7.05E+00	9.50E+00	9.80E+02	1.15E-02	7.94E-01	0.00E+00	1.44E-01	4.73E-01	7.71E-04		
2016	Annual	Mon-Sun	2.27E+09	Crawler Tr D		175	Constructi	U	P	NHH	NP	Total	Total	Total	3.53E+03	1.01E+04	5.58E+04	7.19E-01	3.71E+00	5.09E+00	6.11E+02	6.87E-03	2.86E-01	0.00E+00	6.49E-02	7.35E-01	1.36E-03		
2016	Annual	Mon-Sun	2.27E+09	Crawler Tr D		250	Constructi	U	N	NHH	NP	Total	Total	Total	3.03E+03	8.67E+03	6.53E+04	6.48E-01	1.93E+00	5.38E+00	7.19E+02	8.09E-03	2.03E-01	0.00E+00	5.84E-02	4.45E-01	1.87E-03		
2016	Annual	Mon-Sun	2.27E+09	Crawler Tr D		500	Constructi	U	N	NHH	NP	Total	Total	Total	2.08E+03	5.94E+03	6.98E+04	6.48E-01	2.34E+00	5.17E+00	7.69E+02	7.55E-03	1.98E-01	0.00E+00	5.84E-02	7.90E-01	2.54E-03		
2016	Annual	Mon-Sun	2.27E+09	Crawler Tr D		750	Constructi	U	N	NHH	NP	Total	Total	Total	1.05E+02	3.01E+02	6.34E+03	5.90E-02	2.13E-01	4.80E-01	6.98E+01	7.02E-04	1.82E-02	0.00E+00	5.32E-03	1.41E+00	4.67E-03		
2016	Annual	Mon-Sun	2.27E+09	Crawler Tr D		1000	Constructi	U	N	NHH	NP	Total	Total	Total	1.05E+02	3.00E+02	8.97E+03	8.96E-02	3.35E-01	9.49E-01	9.87E+01	9.93E-04	2.89E-02	0.00E+00	8.08E-03	2.23E+00	6.61E-03		
2016	Annual	Mon-Sun	2.27E+09	Skid Steer D		25	Constructi	U	P	NHH	NP	Total	Total	Total	2.52E+03	5.77E+03	3.62E+03	5.29E-02	1.71E-01	3.19E-01	3.97E+01	5.04E-04	1.53E-02	0.00E+00	4.77E-03	5.93E-02	1.75E-04		
2016	Annual	Mon-Sun	2.27E+09	Skid Steer D		50	Constructi	U	P	NHH	NP	Total	Total	Total	2.29E+04	5.33E+04	6.23E+04	8.60E-01	5.56E+00	6.79E+02	8.78E-03	2.51E-01	0.00E+00	7.76E-02	2.09E-01	3.30E-04			
2016	Annual	Mon-Sun	2.27E+09	Skid Steer D		120	Constructi	U	P	NHH	NP	Total	Total	Total	1.20E+04	2.79E+04	5.44E+04	4.11E-01	3.76E+00	3.36E+00	5.96E+02	7.00E-03	1.93E-01	0.00E+00	3.71E-02	2.69E-01	5.01E-04		
2016	Annual	Mon-Sun	2.27E+09	Off-Highw D		120	Constructi	U	P	NHH	NP	Total	Total	Total	1.31E+00	4.01E+00	1.72E+01	3.62E-04	1.40E-03	2.11E-03	1.88E-01	2.20E-06	1.79E-04	0.00E+00	3.26E-05	6.98E-01	1.10E-03		
2016	Annual	Mon-Sun	2.27E+09	Off-Highw D		175	Constructi	U	P	NHH	NP	Total	Total	Total	1.61E+03	4.90E+03	2.92E+04	4.36E-01	2.00E+00	3.14E+00	3.19E+02	3.59E-03	1.77E-01	0.00E+00	3.94E-02	8.16E-01	1.47E-03		
2016	Annual	Mon-Sun	2.27E+09	Off-Highw D		250	Constructi	U	N	NHH	NP	Total	Total	Total	1.52E+03	4.63E+03	2.74E+04	3.28E-01	9.62E-01	2.73E+00	3.02E+02	3.40E-03	1.12E-01	0.00E+00	2.96E-02	4.15E-01	1.47E-03		
2016	Annual	Mon-Sun	2.27E+09	Off-Highw D		750	Constructi	U	N	NHH	NP	Total	Total	Total	6.60E+02	2.02E+03	5.21E+04	5.74E-01	2.38E+00	4.78E+00	5.72E+02	5.75E-03	1.92E-01	0.00E+00	5.18E-02	2.36E+00	5.71E-03		
2016	Annual	Mon-Sun	2.27E+09	Off-Highw D		1000	Constructi	U	N	NHH	NP	Total	Total	Total	6.97E+01	2.13E+02	7.88E+03	9.15E-02	3.93E-01	9.35E-01	8.65E+01	8.69E-04	3.05E-02	0.00E+00	8.28E-03	3.70E+00	8.18E-03		
2016	Annual	Mon-Sun	2.27E+09	Dumpers/TD		25	Constructi	U	P	NHH	NP	Total	Total	Total	3.15E+01	5.72E+01	1.98E+01	2.65E-04	8.98E-04	1.68E-03	2.18E-01	2.76E-06	6.75E-05	0.00E+00	2.39E-05	3.14E-02	9.67E-05		
2016	Annual	Mon-Sun	2.27E+09	Other Cons D		15	Constructi	U	P	NHH	NP	Total	Total	Total	4.35E+02	8.22E+02	3.79E+02	4.83E-03	2.54E-02	3.03E-02	4.15E+00	6.46E-05	1.18E-03	0.00E+00	4.36E-04	6.17E-02	1.57E-04		
2016	Annual	Mon-Sun	2.27E+09	Other Cons D		25	Constructi	U	P	NHH	NP	Total	Total	Total	7.35E+01	1.39E+02	8.37E+01	1.11E-03	3.78E-03	7.00E-03	9.19E-01	1.17E-05	2.65E-04	0.00E+00	1.00E-04	5.44E-02	1.68E-04		
2016	Annual	Mon-Sun	2.27E+09	Other Cons D		50	Constructi	U	P	NHH	NP	Total	Total	Total	1.13E+02	2.17E+02	2.79E+02	5.74E-03	2.65E-02	2.46E-02	3.03E+00	3.92E-05	1.55E-03	0.00E+00	5.18E-04	2.44E-01	3.62E-04		
2016	Annual	Mon-Sun	2.27E+09	Other Cons D		120	Constructi	U	P	NHH	NP	Total	Total	Total	1.86E+02	3.58E+02	1.32E+03	1.34E-02	9.25E-02	9.83E-02	1.45E+01	1.70E-04	6.87E-03	0.00E+00	1.20E-03	5.17E-01	9.48E-04		
2016	Annual	Mon-Sun	2.27E+09	Other Cons D		175	Constructi	U	P	NHH	NP	Total	Total	Total	2.57E+02	4.94E+02	2.40E+03	1.80E-02	1.45E-01	1.45E-01	2.63E+01	2.96E-04	7.18E-03	0.00E+00	1.62E-03	5.86E-01	1.20E-03		
2016	Annual	Mon-Sun	2.27E+09	Other Cons D		500	Constructi	U	N	NHH	NP	Total	Total	Total	5.98E+02	1.15E+03	1.32E+04	7.13E-02	2.79E-01	5.97E-01	1.46E+02	1.43E-03	2.01E-02	0.00E+00	6.43E-03	4.86E-01	2.49E-03		
2017	Annual	Mon-Sun	2.27E+09	Pavers D		25	Constructi	U	P	NHH	NP	Total	Total	Total	2.00E+01	4.50E+01	3.82E+01	5.12E-04	1.73E-03	3.24E-03	4.20E-01	5.32E-06	1.30E-04	0.00E+00	4.62E-05	7.70E-02	2.37E-04		
2017	Annual	Mon-Sun	2.27E+09	Pavers D		50	Constructi	U	P	NHH	NP	Total	Total	Total	1.16E+03	2.65E+03	3.45E+03	1.38E-01	4.32E-01	3.46E-01	3.71E+01	4.79E-04	3.10E-02	0.00E+00	1.24E-02	3.26E-01	3.62E-04		
2017	Annual	Mon-Sun	2.27E+09	Pavers D		120	Constructi	U	P	NHH	NP	Total	Total	Total	1.37E+03	3.12E+03	9.90E+03	1.71E-01	7.64E-01	1.03E+00	1.08E+02	1.27E-03	8.56E-02	0.00E+00	1.54E-02	4.89E-01	8.11E-04		
2017	Annual	Mon-Sun	2.27E+09	Pavers D		175	Constructi	U	P	NHH	NP	Total	Total	Total	8.52E+02	1.94E+03	1.14E+04	1.40E-01	7.43E-01	1.01E+00	1.24E+02	1.40E-03	5.65E-02	0.00E+00	1.26E-02	7.65E-01	1.44E-03		
2017	Annual	Mon-Sun	2.27E+09	Pavers D		250	Constructi	U	N	NHH	NP	Total	Total	Total	1.03E+02	2.34E+02	2.06E+03	1.95E-02	6.05E-02	1.67E-01	2.27E+01	2.56E-04	6.28E-03	0.00E+00	1.76E-03	5.17E-01	2.19E-03		
2017	Annual	Mon-Sun	2.27E+09	Pavers D		500	Constructi	U	N	NHH	NP	Total	Total	Total	1.05E+02	2.40E+02	2.54E+03	2.23E-02	6.88E-02	1.85E-01	2.80E+01	2.75E-04	7.05E-03	0.00E+00	2.10E-03	7.23E-01	2.29E-03		
2017	Annual	Mon-Sun	2.27E+09	Plate Com D		15	Constructi	U	P	NHH	NP	Total	Total	Total	4.29E+02	7.06E+02	1.39E+02	1.77E-03	9.29E-03	1.11E-02	1.52E+00	2.37E-05	4.33E-04	0.00E+00	1.60E-04	2.63E-02	6.71E-05		
2017	Annual	Mon-Sun	2.27E+09	Rollers D		15	Constructi	U	P	NHH	NP	Total	Total	Total	8.06E+02	1.54E+03	4.43E+02	5.65E-03	2.96E-02	3.54E-02	4.85E+00	7.55E-05	1.38E-03	0.00E+00	5.10E-04	3.86E-02	9.83E-05		
2017	Annual	Mon-Sun																											



**Table C.19 CARB Offroad 2007 output**

used to calculate CO and SOx because Offroad2011 does not calculate CO and SOx

CY	Season	AvgDays	Code	Equipme nt	Fuel	MaxH P	Class	C/R	Pre	Hand	Port	County	Air Basin	Air Dist.	Populatio n	Activity	hr/day for	gal/day	ton/day	ton/day	ton/day	ton/day	ton/day	ton/day	ton/day	ton/day	ton/day	ton/day	ton/day	ton/day	ton/day	ton/day	lb/hr/equi pment	lb/hr/equi pment
																	total populatio n	for total populatio n																
2017	Annual	Mon-Sun	2.27E+09	Paving Eq D		175	Constructi U	P	NHH	NP	Total	Total	Total	1.99E+02	4.55E+02	2.10E+03	2.56E-02	1.36E-01	1.86E-01	2.30E+01	2.58E-04	1.04E-02	0.00E+00	2.31E-03	5.98E-01	1.14E-03								
2017	Annual	Mon-Sun	2.27E+09	Paving Eq D		250	Constructi U	N	NHH	NP	Total	Total	Total	5.60E+01	1.28E+02	7.11E+02	6.52E-03	2.04E-02	5.73E-02	7.83E+00	8.82E-05	2.11E-03	0.00E+00	5.88E-04	3.17E-01	1.37E-03								
2017	Annual	Mon-Sun	2.27E+09	Surfacing ID		50	Constructi U	P	NHH	NP	Total	Total	Total	2.67E+01	3.30E+01	2.15E+01	5.71E-04	2.10E-03	1.94E-03	2.33E-01	3.01E-06	1.40E-04	0.00E+00	5.15E-05	1.27E-01	1.82E-04								
2017	Annual	Mon-Sun	2.27E+09	Surfacing ID		120	Constructi U	P	NHH	NP	Total	Total	Total	5.33E+00	6.61E+00	1.92E+01	2.38E-04	1.35E-03	1.65E-03	2.11E-01	2.47E-06	1.22E-04	0.00E+00	2.15E-05	4.09E-01	7.47E-04								
2017	Annual	Mon-Sun	2.27E+09	Surfacing ID		175	Constructi U	P	NHH	NP	Total	Total	Total	4.00E+00	4.96E+00	1.94E+01	1.70E-04	1.16E-03	1.38E-03	2.12E-01	2.39E-06	6.98E-05	0.00E+00	1.53E-05	4.68E-01	9.64E-04								
2017	Annual	Mon-Sun	2.27E+09	Surfacing ID		250	Constructi U	N	NHH	NP	Total	Total	Total	8.00E+00	9.91E+00	6.05E+01	3.86E-04	1.45E-03	3.83E-03	6.68E-01	7.52E-06	1.25E-04	0.00E+00	3.49E-05	2.92E-01	1.52E-03								
2017	Annual	Mon-Sun	2.27E+09	Surfacing ID		500	Constructi U	N	NHH	NP	Total	Total	Total	6.66E+01	8.26E+01	8.27E+02	4.90E-03	2.17E-02	4.70E-02	9.13E+00	8.96E-05	1.59E-03	0.00E+00	4.42E-04	5.24E-01	2.17E-03								
2017	Annual	Mon-Sun	2.27E+09	Surfacing ID		750	Constructi U	N	NHH	NP	Total	Total	Total	4.00E+01	4.96E+01	7.80E+02	4.67E-03	2.04E-02	4.55E-02	8.61E+00	8.65E-05	1.52E-03	0.00E+00	4.22E-04	8.22E-01	3.49E-03								
2017	Annual	Mon-Sun	2.27E+09	Signal Boa D		15	Constructi U	P	NHH	NP	Total	Total	Total	3.75E+03	7.72E+03	2.17E+03	2.77E-02	1.45E-01	1.73E-01	2.38E+01	3.70E-04	6.77E-03	0.00E+00	2.50E-03	3.76E-02	9.59E-05								
2017	Annual	Mon-Sun	2.27E+09	Signal Boa D		50	Constructi U	P	NHH	NP	Total	Total	Total	1.87E+01	2.74E+01	4.55E+01	1.01E-03	4.17E-03	4.00E-03	4.95E-01	6.40E-06	2.67E-04	0.00E+00	9.11E-05	3.04E-01	4.67E-04								
2017	Annual	Mon-Sun	2.27E+09	Signal Boa D		120	Constructi U	P	NHH	NP	Total	Total	Total	3.05E+02	4.48E+02	1.64E+03	1.75E-02	1.13E-01	1.28E-01	1.79E+01	2.10E-04	9.18E-03	0.00E+00	1.58E-03	5.03E-01	9.40E-04								
2017	Annual	Mon-Sun	2.27E+09	Signal Boa D		175	Constructi U	P	NHH	NP	Total	Total	Total	1.89E+02	2.78E+02	1.95E+03	1.47E-02	1.15E-01	1.25E-01	2.14E+01	2.41E-04	6.10E-03	0.00E+00	1.32E-03	8.27E-01	1.74E-03								
2017	Annual	Mon-Sun	2.27E+09	Signal Boa D		250	Constructi U	N	NHH	NP	Total	Total	Total	4.00E+01	5.87E+01	6.77E+02	3.60E-03	1.44E-02	3.76E-02	7.48E+00	8.42E-05	1.11E-03	0.00E+00	3.25E-04	4.91E-01	2.87E-03								
2017	Annual	Mon-Sun	2.27E+09	Trenchers D		15	Constructi U	P	NHH	NP	Total	Total	Total	1.00E+02	1.69E+02	6.54E+01	8.34E-04	4.37E-03	5.22E-03	7.16E-01	1.11E-05	2.04E-04	0.00E+00	7.52E-05	5.16E-02	1.32E-04								
2017	Annual	Mon-Sun	2.27E+09	Trenchers D		25	Constructi U	P	NHH	NP	Total	Total	Total	1.05E+02	1.78E+02	2.67E+02	3.54E-03	1.21E-02	2.24E-02	2.93E+00	3.72E-05	8.34E-04	0.00E+00	3.19E-04	1.35E-01	4.17E-04								
2017	Annual	Mon-Sun	2.27E+09	Trenchers D		50	Constructi U	P	NHH	NP	Total	Total	Total	4.01E+03	6.91E+03	1.06E+04	4.22E-01	1.29E+00	1.05E+00	1.14E+02	1.47E-03	9.45E-02	0.00E+00	3.81E-02	3.73E-01	4.25E-04								
2017	Annual	Mon-Sun	2.27E+09	Trenchers D		120	Constructi U	P	NHH	NP	Total	Total	Total	5.43E+03	9.36E+03	2.78E+04	4.76E-01	2.12E+00	2.93E+00	3.03E+02	3.56E-03	2.40E-01	0.00E+00	4.30E-02	4.53E-01	7.61E-04								
2017	Annual	Mon-Sun	2.27E+09	Trenchers D		175	Constructi U	P	NHH	NP	Total	Total	Total	5.94E+02	1.02E+03	6.72E+03	8.14E-02	4.33E-01	6.09E-01	7.37E+01	8.29E-04	3.34E-02	0.00E+00	7.34E-03	8.46E-01	1.62E-03								
2017	Annual	Mon-Sun	2.27E+09	Trenchers D		250	Constructi U	N	NHH	NP	Total	Total	Total	5.33E+01	9.19E+01	9.29E+02	8.65E-03	2.77E-02	7.67E-02	1.02E+01	1.15E-04	2.91E-03	0.00E+00	7.80E-04	6.03E-01	2.51E-03								
2017	Annual	Mon-Sun	2.27E+09	Trenchers D		500	Constructi U	N	NHH	NP	Total	Total	Total	6.80E+01	1.17E+02	1.65E+03	1.42E-02	5.90E-02	1.23E-01	1.82E+01	1.79E-04	4.71E-03	0.00E+00	1.28E-03	1.01E+00	3.05E-03								
2017	Annual	Mon-Sun	2.27E+09	Trenchers D		750	Constructi U	N	NHH	NP	Total	Total	Total	8.01E+00	1.38E+01	3.67E+02	3.18E-03	1.31E-02	2.79E-02	4.05E+00	4.07E-05	1.06E-03	0.00E+00	2.87E-04	1.90E+00	5.90E-03								
2017	Annual	Mon-Sun	2.27E+09	Bore/Drill D		15	Constructi U	P	NHH	P	Total	Total	Total	1.33E+01	2.96E+01	1.40E+01	1.78E-04	9.35E-04	1.12E-03	1.53E-01	2.38E-06	4.36E-05	0.00E+00	1.61E-05	6.31E-02	1.61E-04								
2017	Annual	Mon-Sun	2.27E+09	Bore/Drill D		25	Constructi U	P	NHH	P	Total	Total	Total	4.00E+01	8.89E+01	6.47E+01	8.57E-04	2.92E-03	5.41E-03	7.10E-01	9.01E-06	2.03E-04	0.00E+00	7.73E-05	6.58E-02	2.03E-04								
2017	Annual	Mon-Sun	2.27E+09	Bore/Drill D		50	Constructi U	P	NHH	P	Total	Total	Total	1.75E+02	4.02E+02	5.70E+02	4.22E-03	4.46E-02	4.01E-02	6.24E+00	8.07E-05	8.87E-04	0.00E+00	3.81E-04	2.2E-01	4.01E-04								
2017	Annual	Mon-Sun	2.27E+09	Bore/Drill D		120	Constructi U	P	NHH	P	Total	Total	Total	5.36E+02	1.24E+03	4.33E+03	2.01E-02	2.88E-01	1.83E-01	4.76E+01	5.58E-04	5.89E-03	0.00E+00	1.82E-03	4.66E-01	9.04E-04								
2017	Annual	Mon-Sun	2.27E+09	Bore/Drill D		175	Constructi U	P	NHH	P	Total	Total	Total	1.24E+02	2.86E+02	1.83E+03	7.41E-03	1.08E-01	5.12E-02	2.01E+01	2.27E-04	1.73E-03	0.00E+00	6.68E-04	7.53E-01	1.59E-03								
2017	Annual	Mon-Sun	2.27E+09	Bore/Drill D		250	Constructi U	N	NHH	P	Total	Total	Total	1.07E+02	2.46E+02	2.09E+03	7.12E-03	4.21E-02	3.84E-02	2.31E+01	2.60E-04	1.08E-03	0.00E+00	6.43E-04	3.42E-01	2.11E-03								
2017	Annual	Mon-Sun	2.27E+09	Bore/Drill D		500	Constructi U	N	NHH	P	Total	Total	Total	2.37E+02	5.47E+02	7.69E+03	2.61E-02	1.51E-01	1.38E-01	8.51E+01	8.35E-04	3.95E-03	0.00E+00	2.36E-03	5.51E-01	3.05E-03								
2017	Annual	Mon-Sun	2.27E+09	Bore/Drill D		750	Constructi U	N	NHH	P	Total	Total	Total	1.24E+02	2.86E+02	7.95E+03	2.70E-02	1.56E-01	1.43E-01	8.80E+01	8.84E-04	4.10E-03	0.00E+00	2.44E-03	1.09E+00	6.18E-03								
2017	Annual	Mon-Sun	2.27E+09	Bore/Drill D		1000	Constructi U	N	NHH	P	Total	Total	Total	2.08E+02	4.80E+02	2.01E+04	7.22E-02	3.94E-01	1.05E+00	2.22E+02	2.24E-03	2.05E-02	0.00E+00	6.52E-03	1.64E+00	3.93E-03								
2017	Annual	Mon-Sun	2.27E+09	Excavators D		25	Constructi U	P	NHH	NP	Total	Total	Total	4.93E+01	1.89E+02	1.41E+02	1.87E-03	6.38E-03	1.18E-02	1.55E+00	1.97E-05	4.41E-04	0.00E+00	1.69E-04	6.76E-02	2.08E-04								
2017	Annual	Mon-Sun	2.27E+09	Excavators D		50	Constructi U	P	NHH	NP	Total	Total	Total	1.86E+03	7.22E+03	8.32E+03	1.88E-01	9.26E-01	7.50E-01	9.02E+01	1.17E-03	4.62E-02	0.00E+00	1.70E-02	2.57E-01	3.23E-04								
2017	Annual	Mon-Sun	2.27E+09	Excavators D		120	Constructi U	P	NHH	NP	Total	Total	Total	5.04E+03	1.99E+04	6.59E+04	7.44E-01	4.94E+00	4.74E+00	7.21E+02	8.45E-03	3.33E-01	0.00E+00	6.71E-02	5.04E-01	6.83E-04								
2017	Annual	Mon-Sun	2.27E+09	Excavators D		175	Constructi U	P	NHH	NP	Total	Total	Total	9.73E+03	3.78E+04	1.93E+05	1.69E+00	1.25E+01	1.09E+01	2.12E+03	2.38E-02	5.81E-01	0.00E+00	1.53E-01	6.64E-01	1.26E-03								
2017	Annual	Mon-Sun	2.27E+09	Excavators D		250	Constructi U	N	NHH	NP	Total	Total	Total	3.96E+03	1.54E+04	1.10E+05	7.62E-01	2.58E+00	5.28E+00	1.22E+03	1.37E-02	1.77E-01	0.00E+00	6.88E-02	3.35E-01	1.78E-03								
2017	Annual	Mon-Sun	2.27E+09	Excavators D		500	Constructi U	N	NHH	NP	Total	Total	Total	2.85E+03	1.11E+04	1.17E+05	7.84E-01	2.64E+00	4.98E+00	1.29E+03	1.27E-02	1.79E-01	0.00E+00	7.08E-02	4.76E-01	2.29E-03								
2017	Annual	Mon-Sun	2.27E+09	Excavators D		750	Constructi U	N	NHH	NP	Total	Total	Total	6.27E+01	2.44E+02	4.27E+03	2.87E-02	9.61E-02	1.87E-01	4.72E+01	4.74E-04	6.61E-03	0.00E+00	2.59E-03	7.88E-01	3.89E-03								
2017	Annual	Mon-Sun	2.27E+09	Concrete/Id		25	Constructi U	P	NHH	NP	Total	Total	Total	5.33E+00	8.65E+00	6.49E+00	8.59E-05	2.93E-04	5.43E-04	7.12E-02	9.04E-07	2.02E-05	0.00E+00	7.75E-06	6.78E-02	2.09E-04								
2017	Annual	Mon-Sun	2.27E+09	Concrete/Id		50	Constructi U	P	NHH	NP	Total	Total	Total	4.66E+01	7.42E+01	1.03E+02	2.32E-03	9.64E-03	9.17E-03	1.12E+00	1.45E-05	6.18E-04	0.00E+00	2.09E-04	2.60E-01	3.90E-04								
2017	Annual	Mon-Sun	2.27E+09	Concrete/Id		120	Constructi U	P	NHH	NP	Total	Total	Total	8.13E+01	1.29E+02	4.37E+02	4.70E-03	3.03E-02	3.44E-02	4.79E+00	5.62E-05	2.48E-03	0.00E+00	4.24E-04	4.69E-01	8.69E-04								
2017	Annual	Mon-Sun	2.27E+09	Concrete/Id		175	Constructi U	P	NHH	NP	Total	Total	Total	2.67E+00	4.24E+00	3.09E+01	2.36E-04	1.83E-03	1.98E-03	3.39E-01	3.82E-06	9.88E-05	0.00E+00	2.13E-05	8.66E-01	1.80E-03								
2017	Annual	Mon-Sun	2.27E+09	Cement an D		15	Constructi U	P	NHH	NP	Total	Total	Total	6.81E+02	5.60E+02	1.62E+02	2.06E-03	1.08E-02	1.29E-02	1.77E+00	2.75E-05	5.14E-04	0.00E+00	1.86E-04	3.86E-02	9.83E-05								
2017	Annual	Mon-Sun	2.27E+09	Cement an D		25	Constructi U	P	NHH	NP	Total	Total	Total	6.13E+01	5.04E+01	4.03E+01	5.98E-04	1.92E-03	3.55E-03	4.42E-01	5.61E-06	1.69E-04	0.00E+00	5.39E-05	7.61E-02	2.23E-04								
2017	Annual	Mon-Sun	2.27E+09	Cranes D		50	Constructi U	P	NHH	P	Total	Total	Total	4.53E+01	1.59E+02	1.71E+02	5.64E-03	2.06E-02	1.66E-02															

**Table C.19 CARB Offroad 2007 output**

used to calculate CO and SOx because Offroad2011 does not calculate CO and SOx

CY	Season	AvgDays	Code	Equipme nt	Fuel	MaxH P	Class	C/R	Pre	Hand	Port	County	Air Basin	Air Dist.	Populatio n	Activity	hr/day for	gal/day	ton/day	ton/day	ton/day	ton/day	ton/day	ton/day	ton/day	ton/day	ton/day	ton/day	ton/day	ton/day	ton/day	ton/day	lb/hr/equi pment	lb/hr/equi pment
																	total populatio n	for total populatio n																
2017	Annual	Mon-Sun	2.27E+09	Off-High D		250	Constructi	U	N	NHH	NP	Total	Total	Total	6.40E+02	3.48E+03	2.62E+04	1.93E-01	6.27E-01	1.33E+00	2.89E+02	3.26E-03	4.46E-02	0.00E+00	1.74E-02	3.61E-01	1.87E-03							
2017	Annual	Mon-Sun	2.27E+09	Off-High D		500	Constructi	U	N	NHH	NP	Total	Total	Total	9.01E+02	4.90E+03	6.04E+04	4.29E-01	1.39E+00	2.70E+00	6.67E+02	6.54E-03	9.72E-02	0.00E+00	3.87E-02	5.67E-01	2.67E-03							
2017	Annual	Mon-Sun	2.27E+09	Off-High D		750	Constructi	U	N	NHH	NP	Total	Total	Total	8.40E+02	4.56E+03	9.13E+04	6.51E-01	2.10E+00	4.20E+00	1.01E+03	1.01E-02	1.49E-01	0.00E+00	5.88E-02	9.20E-01	4.44E-03							
2017	Annual	Mon-Sun	2.27E+09	Off-High D		1000	Constructi	U	N	NHH	NP	Total	Total	Total	3.94E+02	2.14E+03	6.05E+04	4.60E-01	1.46E+00	4.91E+00	6.67E+02	6.71E-03	1.31E-01	0.00E+00	4.15E-02	1.37E+00	6.28E-03							
2017	Annual	Mon-Sun	2.27E+09	Crushing/PD		50	Constructi	U	P	NHH	P	Total	Total	Total	2.13E+02	5.58E+02	1.13E+03	3.03E-02	1.22E-01	1.04E-01	1.23E+01	1.59E-04	7.66E-03	0.00E+00	2.73E-03	4.35E-01	5.69E-04							
2017	Annual	Mon-Sun	2.27E+09	Crushing/PD		120	Constructi	U	P	NHH	P	Total	Total	Total	6.01E+02	1.57E+03	5.98E+03	7.45E-02	4.36E-01	4.88E-01	6.54E+01	7.67E-04	3.80E-02	0.00E+00	6.73E-03	5.54E-01	9.74E-04							
2017	Annual	Mon-Sun	2.27E+09	Crushing/PD		175	Constructi	U	P	NHH	P	Total	Total	Total	2.55E+02	6.67E+02	5.08E+03	4.60E-02	3.17E-01	3.38E-01	5.57E+01	6.27E-04	1.82E-02	0.00E+00	4.15E-03	9.52E-01	1.88E-03							
2017	Annual	Mon-Sun	2.27E+09	Crushing/PD		250	Constructi	U	N	NHH	P	Total	Total	Total	2.53E+01	6.63E+01	7.34E+02	4.86E-03	1.65E-02	4.26E-02	8.10E+00	9.11E-05	1.34E-03	0.00E+00	4.38E-04	4.99E-01	2.75E-03							
2017	Annual	Mon-Sun	2.27E+09	Crushing/PD		500	Constructi	U	N	NHH	P	Total	Total	Total	1.43E+02	3.73E+02	6.31E+03	3.98E-02	1.37E-01	3.19E-01	6.97E+01	6.84E-04	1.09E-02	0.00E+00	3.59E-03	7.35E-01	3.66E-03							
2017	Annual	Mon-Sun	2.27E+09	Crushing/PD		750	Constructi	U	N	NHH	P	Total	Total	Total	6.67E+00	1.75E+01	4.65E+02	2.92E-03	1.01E-02	2.41E-02	5.14E+00	5.17E-05	8.03E-04	0.00E+00	2.64E-04	1.15E+00	5.92E-03							
2017	Annual	Mon-Sun	2.27E+09	Crushing/PD		9999	Constructi	U	N	NHH	P	Total	Total	Total	6.67E+00	1.75E+01	1.03E+03	7.60E-03	2.47E-02	8.89E-02	1.14E+01	1.15E-04	2.35E-03	0.00E+00	6.86E-04	2.83E+00	1.31E-02							
2017	Annual	Mon-Sun	2.27E+09	Rough Ter D		50	Constructi	U	P	NHH	NP	Total	Total	Total	1.48E+02	4.59E+02	7.16E+02	1.70E-02	7.73E-02	6.52E-02	7.76E+00	1.00E-04	4.36E-03	0.00E+00	1.54E-03	3.37E-01	4.37E-04							
2017	Annual	Mon-Sun	2.27E+09	Rough Ter D		120	Constructi	U	P	NHH	NP	Total	Total	Total	7.09E+03	2.20E+04	6.26E+04	7.24E-01	4.61E+00	4.76E+00	6.85E+02	8.04E-03	3.51E-01	0.00E+00	6.53E-02	4.20E-01	7.32E-04							
2017	Annual	Mon-Sun	2.27E+09	Rough Ter D		175	Constructi	U	P	NHH	NP	Total	Total	Total	9.08E+02	2.81E+03	1.60E+04	1.40E-01	1.02E+00	9.70E-01	1.76E+02	1.98E-03	5.21E-02	0.00E+00	1.26E-02	7.23E-01	1.40E-03							
2017	Annual	Mon-Sun	2.27E+09	Rough Ter D		250	Constructi	U	N	NHH	NP	Total	Total	Total	5.06E+01	1.57E+02	1.21E+03	8.21E-03	2.78E-02	6.35E-02	1.34E+01	1.51E-04	2.11E-03	0.00E+00	7.41E-04	3.54E-01	1.92E-03							
2017	Annual	Mon-Sun	2.27E+09	Rough Ter D		500	Constructi	U	N	NHH	NP	Total	Total	Total	3.33E+01	1.03E+02	1.20E+03	7.81E-03	2.63E-02	5.53E-02	1.32E+01	1.30E-04	1.97E-03	0.00E+00	7.05E-04	5.10E-01	2.52E-03							
2017	Annual	Mon-Sun	2.27E+09	Rubber Tir D		25	Constructi	U	P	NHH	NP	Total	Total	Total	1.87E+01	4.90E+01	3.77E+01	5.80E-04	1.71E-03	3.16E-03	4.14E-01	5.25E-06	1.18E-04	0.00E+00	4.51E-05	6.96E-02	2.15E-04							
2017	Annual	Mon-Sun	2.27E+09	Rubber Tir D		50	Constructi	U	P	NHH	NP	Total	Total	Total	3.63E+02	9.68E+02	1.39E+03	3.95E-02	1.58E-01	1.30E-01	1.51E+01	1.95E-04	9.45E-03	0.00E+00	3.57E-03	3.27E-01	4.02E-04							
2017	Annual	Mon-Sun	2.27E+09	Rubber Tir D		120	Constructi	U	P	NHH	NP	Total	Total	Total	9.86E+03	2.63E+04	7.08E+04	9.39E-01	5.31E+00	5.86E+00	7.74E+02	9.08E-03	4.54E-01	0.00E+00	8.47E-02	4.03E-01	6.90E-04							
2017	Annual	Mon-Sun	2.27E+09	Rubber Tir D		175	Constructi	U	P	NHH	NP	Total	Total	Total	5.56E+03	1.48E+04	7.18E+04	7.06E-01	4.62E+00	4.87E+00	7.87E+02	8.86E-03	2.68E-01	0.00E+00	6.37E-02	6.23E-01	1.20E-03							
2017	Annual	Mon-Sun	2.27E+09	Rubber Tir D		250	Constructi	U	N	NHH	NP	Total	Total	Total	5.52E+03	1.47E+04	9.94E+04	7.36E-01	2.42E+00	3.48E+00	1.10E+03	1.23E-02	2.00E-01	0.00E+00	6.64E-02	3.29E-01	1.67E-03							
2017	Annual	Mon-Sun	2.27E+09	Rubber Tir D		500	Constructi	U	N	NHH	NP	Total	Total	Total	2.30E+03	6.14E+03	6.58E+04	4.64E-01	1.66E+00	3.66E+00	7.27E+02	7.13E-03	1.24E-01	0.00E+00	4.19E-02	5.41E-01	2.32E-03							
2017	Annual	Mon-Sun	2.27E+09	Rubber Tir D		750	Constructi	U	N	NHH	NP	Total	Total	Total	1.62E+02	4.31E+02	9.47E+03	6.71E-02	2.39E-01	5.12E-01	1.05E+02	1.05E-03	1.81E-02	0.00E+00	6.06E-03	1.11E+00	4.88E-03							
2017	Annual	Mon-Sun	2.27E+09	Rubber Tir D		1000	Constructi	U	N	NHH	NP	Total	Total	Total	1.74E+01	4.63E+01	1.24E+03	9.58E-03	3.43E-02	1.09E-01	1.37E+01	1.38E-04	3.01E-03	0.00E+00	8.65E-04	1.48E+00	5.97E-03							
2017	Annual	Mon-Sun	2.27E+09	Rubber Tir D		175	Constructi	U	P	NHH	NP	Total	Total	Total	1.33E+01	5.93E+01	3.51E+02	5.22E-03	2.44E-02	3.62E-02	3.83E+00	4.31E-05	2.05E-03	0.00E+00	4.71E-04	8.22E-01	1.46E-03							
2017	Annual	Mon-Sun	2.27E+09	Rubber Tir D		250	Constructi	U	N	NHH	NP	Total	Total	Total	3.27E+02	1.45E+03	1.21E+04	1.44E-01	4.24E-01	1.16E+00	1.33E+02	1.50E-03	4.75E-02	0.00E+00	1.30E-02	5.84E-01	2.06E-03							
2017	Annual	Mon-Sun	2.27E+09	Rubber Tir D		500	Constructi	U	N	NHH	NP	Total	Total	Total	5.02E+02	2.23E+03	2.69E+04	2.97E-01	1.22E+00	2.33E+00	2.96E+02	2.90E-03	9.48E-02	0.00E+00	2.68E-02	1.10E+00	2.60E-03							
2017	Annual	Mon-Sun	2.27E+09	Rubber Tir D		750	Constructi	U	N	NHH	NP	Total	Total	Total	1.78E+02	7.89E+02	1.43E+04	1.58E-01	6.51E-01	1.23E+00	1.57E+02	1.58E-03	5.08E-02	0.00E+00	1.43E-02	1.65E+00	4.01E-03							
2017	Annual	Mon-Sun	2.27E+09	Rubber Tir D		1000	Constructi	U	N	NHH	NP	Total	Total	Total	1.20E+01	5.34E+01	1.44E+03	1.67E-02	7.11E-02	1.67E-01	1.58E+01	1.59E-04	5.42E-03	0.00E+00	1.51E-03	2.66E+00	5.95E-03							
2017	Annual	Mon-Sun	2.27E+09	Tractors/Lr D		25	Constructi	U	P	NHH	NP	Total	Total	Total	3.76E+02	9.71E+02	7.01E+02	9.29E-03	3.17E-02	5.88E-02	7.69E+00	9.76E-05	2.28E-03	0.00E+00	8.39E-04	6.53E-02	2.01E-04							
2017	Annual	Mon-Sun	2.27E+09	Tractors/Lr D		50	Constructi	U	P	NHH	NP	Total	Total	Total	2.25E+03	5.93E+03	8.28E+03	1.64E-01	8.56E-01	7.21E-01	8.99E+01	1.16E-03	4.16E-02	0.00E+00	1.48E-02	2.89E-01	3.92E-04							
2017	Annual	Mon-Sun	2.27E+09	Tractors/Lr D		120	Constructi	U	P	NHH	NP	Total	Total	Total	3.00E+04	7.92E+04	1.87E+05	1.89E+00	1.36E+01	1.27E+01	2.05E+03	2.40E-02	8.58E-01	0.00E+00	1.71E-01	3.44E-01	6.06E-04							
2017	Annual	Mon-Sun	2.27E+09	Tractors/Lr D		175	Constructi	U	P	NHH	NP	Total	Total	Total	2.24E+03	5.93E+03	2.73E+04	2.15E-01	1.73E+00	4.44E+00	3.00E+02	3.37E-03	7.51E-02	0.00E+00	1.94E-02	5.84E-01	1.14E-03							
2017	Annual	Mon-Sun	2.27E+09	Tractors/Lr D		250	Constructi	U	N	NHH	NP	Total	Total	Total	7.25E+02	1.91E+03	1.49E+04	9.26E-02	3.35E-01	6.59E-01	1.64E+02	1.85E-03	2.19E-02	0.00E+00	8.35E-03	3.50E-01	1.93E-03							
2017	Annual	Mon-Sun	2.27E+09	Tractors/Lr D		500	Constructi	U	N	NHH	NP	Total	Total	Total	1.17E+03	3.09E+03	4.82E+04	2.91E-01	1.06E+00	1.90E+00	5.32E+02	5.99E-03	6.76E-02	0.00E+00	2.63E-02	6.85E-01	3.88E-03							
2017	Annual	Mon-Sun	2.27E+09	Tractors/Lr D		750	Constructi	U	N	NHH	NP	Total	Total	Total	8.08E+02	2.13E+03	4.99E+04	3.02E-01	1.10E+00	2.02E+00	5.51E+02	6.20E-03	7.10E-02	0.00E+00	2.73E-02	1.03E+00	5.82E-03							
2017	Annual	Mon-Sun	2.27E+09	Crawler Tr D		50	Constructi	U	P	NHH	NP	Total	Total	Total	1.87E+01	5.32E+01	6.16E+01	2.33E-03	7.84E-03	6.15E-03	6.62E-01	8.55E-06	5.25E-04	0.00E+00	2.10E-04	2.94E-01	3.21E-04							
2017	Annual	Mon-Sun	2.27E+09	Crawler Tr D		120	Constructi	U	P	NHH	NP	Total	Total	Total	1.06E+04	3.02E+04	9.10E+04	1.52E+00	7.10E+00	9.01E+00	9.93E+02	1.16E-02	7.38E-01	0.00E+00	1.37E-01	4.70E-01	7.71E-04							
2017	Annual	Mon-Sun	2.27E+09	Crawler Tr D		175	Constructi	U	P	NHH	NP	Total	Total	Total	3.58E+03	1.02E+04	5.65E+04	6.88E-01	3.75E+00	4.75E+00	6.19E+02	6.96E-03	2.67E-01	0.00E+00	6.21E-02	7.34E-01	1.36E-03							
2017	Annual	Mon-Sun	2.27E+09	Crawler Tr D		250	Constructi	U	N	NHH	NP	Total	Total	Total	3.08E+03	8.79E+03	6.62E+04	6.20E-01	1.89E+00	5.00E+00	7.29E+02	8.20E-03	1.87E-01	0.00E+00	5.59E-02	4.30E-01	1.87E-03							
2017	Annual	Mon-Sun	2.27E+09	Crawler Tr D		500	Constructi	U	N	NHH	NP	Total	Total	Total	2.11E+03	6.02E+03	7.08E+04	6.22E-01	2.26E+00	4.81E+00	7.80E+02	7.65E-03	1.83E-01	0.00E+00	5.62E-02	7.52E-01	2.54E-03							
2017	Annual	Mon-Sun	2.27E+09	Crawler Tr D		750	Constructi	U	N	NHH	NP	Total	Total	Total	1.07E+02	3.05E+02	6.42E+03	5.67E-02	2.05E-01	4.46E-01	7.07E+01	7.11E-04	1.68E-02	0.00E+00	5.12E-03	1.35E+00	4.67E-03							
2017	Annual	Mon-Sun	2.27E+09	Crawler Tr D		1000	Constructi	U	N	NHH	NP	Total	Total	Total	1.07E+02	3.04E+02	9.09E+03	8.62E-02	3.23E-01	9.15E-01	1.00E+02	1.01E-03	2.73E-02	0.										

**Table C.19 CARB Offroad 2007 output**

used to calculate CO and SOx because Offroad2011 does not calculate CO and SOx

CY	Season	AvgDays	Code	Equipme nt	Fuel	MaxH P	Class	C/R	Pre	Hand	Port	County	Air Basin	Air Dist.	Populatio n	Activity	Consump tion	hr/day for total populatio n		gal/day for total populatio n		lb/hr/equi pment									
																		ton/day	ton/day	ton/day	ton/day	ton/day	ton/day	ton/day	ton/day	ton/day	ton/day	ton/day	ton/day	ton/day	ton/day
2017	Annual	Mon-Sun	2.27E+09	Other Cons	D	500	Constructi	U	N	NHH	NP	Total	Total	Total	6.06E+02	1.16E+03	1.34E+04	6.86E-02	2.79E-01	5.31E-01	1.48E+02	1.45E-03	1.81E-02	0.00E+00	6.19E-03	4.79E-01	2.49E-03				
2018	Annual	Mon-Sun	2.27E+09	Pavers	D	25	Constructi	U	P	NHH	NP	Total	Total	Total	2.03E+01	4.57E+01	3.88E+01	5.16E-04	1.75E-03	3.27E-03	4.26E-01	5.40E-06	1.29E-04	0.00E+00	4.66E-05	7.68E-02	2.37E-04				
2018	Annual	Mon-Sun	2.27E+09	Pavers	D	50	Constructi	U	P	NHH	NP	Total	Total	Total	1.18E+03	2.69E+03	3.49E+03	1.30E-01	4.28E-01	3.41E-01	3.76E+01	4.86E-04	2.91E-02	0.00E+00	1.17E-02	3.19E-01	3.62E-04				
2018	Annual	Mon-Sun	2.27E+09	Pavers	D	120	Constructi	U	P	NHH	NP	Total	Total	Total	1.39E+03	3.17E+03	1.00E+04	1.63E-01	7.70E-01	9.83E-01	1.10E+02	1.29E-03	8.02E-02	0.00E+00	1.47E-02	4.86E-01	8.11E-04				
2018	Annual	Mon-Sun	2.27E+09	Pavers	D	175	Constructi	U	P	NHH	NP	Total	Total	Total	8.64E+02	1.97E+03	1.15E+04	1.34E-01	7.51E-01	9.49E-01	1.26E+02	1.42E-03	5.31E-02	0.00E+00	1.21E-02	7.63E-01	1.44E-03				
2018	Annual	Mon-Sun	2.27E+09	Pavers	D	250	Constructi	U	N	NHH	NP	Total	Total	Total	1.04E+02	2.37E+02	2.09E+03	1.87E-02	5.93E-02	1.56E-01	2.31E+01	2.59E-04	5.82E-03	0.00E+00	1.68E-03	5.00E-01	2.19E-03				
2018	Annual	Mon-Sun	2.27E+09	Pavers	D	500	Constructi	U	N	NHH	NP	Total	Total	Total	1.07E+02	2.44E+02	2.58E+03	2.15E-02	8.38E-02	1.73E-01	2.84E+01	2.79E-04	6.55E-03	0.00E+00	1.94E-03	6.88E-01	2.29E-03				
2018	Annual	Mon-Sun	2.27E+09	Plate Com	D	15	Constructi	U	P	NHH	NP	Total	Total	Total	4.35E+02	7.16E+02	1.41E+02	1.80E-03	9.43E-03	1.13E-02	1.54E+00	2.40E-05	4.40E-04	0.00E+00	1.62E-04	2.63E-02	6.71E-05				
2018	Annual	Mon-Sun	2.27E+09	Rollers	D	15	Constructi	U	P	NHH	NP	Total	Total	Total	8.18E+02	1.56E+03	4.50E+02	5.73E-03	3.01E-02	3.59E-02	4.92E+00	7.66E-05	1.40E-03	0.00E+00	5.17E-04	3.86E-02	9.83E-05				
2018	Annual	Mon-Sun	2.27E+09	Rollers	D	25	Constructi	U	P	NHH	NP	Total	Total	Total	3.42E+02	6.52E+02	3.96E+02	5.24E-03	1.79E-02	3.31E-02	4.35E+00	5.51E-05	1.24E-03	0.00E+00	4.73E-04	5.49E-02	1.69E-04				
2018	Annual	Mon-Sun	2.27E+09	Rollers	D	50	Constructi	U	P	NHH	NP	Total	Total	Total	1.06E+03	2.04E+03	2.45E+03	6.77E-02	2.60E-01	2.22E-01	2.65E+01	3.43E-04	1.62E-02	0.00E+00	6.11E-03	2.55E-01	3.36E-04				
2018	Annual	Mon-Sun	2.27E+09	Rollers	D	120	Constructi	U	P	NHH	NP	Total	Total	Total	5.71E+03	1.10E+04	2.96E+04	3.73E-01	2.15E+00	2.42E+00	3.23E+02	3.79E-03	1.87E-01	0.00E+00	3.37E-02	3.92E-01	6.91E-04				
2018	Annual	Mon-Sun	2.27E+09	Rollers	D	175	Constructi	U	P	NHH	NP	Total	Total	Total	2.30E+03	4.41E+03	2.17E+04	1.98E-01	1.35E+00	1.45E+00	2.38E+02	2.68E-03	7.85E-02	0.00E+00	1.79E-02	6.12E-01	1.22E-03				
2018	Annual	Mon-Sun	2.27E+09	Rollers	D	250	Constructi	U	N	NHH	NP	Total	Total	Total	3.26E+02	6.26E+02	4.34E+03	2.92E-02	1.03E-01	2.55E-01	4.79E+01	5.39E-04	8.56E-03	0.00E+00	2.64E-03	3.30E-01	1.72E-03				
2018	Annual	Mon-Sun	2.27E+09	Rollers	D	500	Constructi	U	N	NHH	NP	Total	Total	Total	2.29E+02	4.39E+02	4.35E+03	2.77E-02	1.08E-01	2.27E-01	4.81E+01	4.72E-04	8.00E-03	0.00E+00	2.50E-03	4.90E-01	2.15E-03				
2018	Annual	Mon-Sun	2.27E+09	Scrapers	D	120	Constructi	U	P	NHH	NP	Total	Total	Total	5.27E+01	1.60E+02	6.89E+02	1.11E-02	5.36E-02	6.54E-02	7.52E+00	8.82E-05	5.29E-03	0.00E+00	9.99E-04	6.68E-01	1.10E-03				
2018	Annual	Mon-Sun	2.27E+09	Scrapers	D	175	Constructi	U	P	NHH	NP	Total	Total	Total	4.83E+02	1.47E+03	9.91E+03	1.16E-01	6.57E-01	7.86E-01	1.09E+02	1.22E-03	4.42E-02	0.00E+00	1.04E-02	8.95E-01	1.66E-03				
2018	Annual	Mon-Sun	2.27E+09	Scrapers	D	250	Constructi	U	N	NHH	NP	Total	Total	Total	4.71E+02	1.43E+03	1.36E+04	1.22E-01	3.81E-01	9.69E-01	1.50E+02	1.68E-03	3.58E-02	0.00E+00	1.10E-02	5.32E-01	2.35E-03				
2018	Annual	Mon-Sun	2.27E+09	Scrapers	D	500	Constructi	U	N	NHH	NP	Total	Total	Total	1.30E+03	3.94E+03	5.74E+04	4.84E-01	1.80E+00	3.68E+00	6.33E+02	6.21E-03	1.39E-01	0.00E+00	4.37E-02	9.16E-01	3.15E-03				
2018	Annual	Mon-Sun	2.27E+09	Scrapers	D	750	Constructi	U	N	NHH	NP	Total	Total	Total	2.13E+02	6.46E+02	1.63E+04	1.38E-01	5.11E-01	1.07E+00	1.79E+02	1.80E-03	3.99E-02	0.00E+00	1.24E-02	1.58E+00	5.58E-03				
2018	Annual	Mon-Sun	2.27E+09	Paving Eq	D	25	Constructi	U	P	NHH	NP	Total	Total	Total	3.52E+01	7.99E+01	4.59E+01	6.08E-04	2.08E-03	3.84E-03	5.04E-01	6.40E-06	1.44E-04	0.00E+00	5.49E-05	5.19E-02	1.60E-04				
2018	Annual	Mon-Sun	2.27E+09	Paving Eq	D	50	Constructi	U	P	NHH	NP	Total	Total	Total	2.98E+01	6.82E+01	7.57E+01	2.80E-03	9.18E-03	7.37E-03	8.15E-01	1.05E-05	6.31E-04	0.00E+00	2.52E-04	2.69E-01	3.09E-04				
2018	Annual	Mon-Sun	2.27E+09	Paving Eq	D	120	Constructi	U	P	NHH	NP	Total	Total	Total	4.29E+02	9.82E+02	2.45E+03	3.95E-02	1.87E-01	2.39E-01	2.67E+01	3.14E-04	1.96E-02	0.00E+00	3.57E-03	3.81E-01	6.39E-04				
2018	Annual	Mon-Sun	2.27E+09	Paving Eq	D	175	Constructi	U	P	NHH	NP	Total	Total	Total	2.02E+02	4.62E+02	2.13E+03	2.45E-02	1.38E-01	1.75E-01	2.33E+01	2.62E-04	9.78E-03	0.00E+00	2.21E-03	5.97E-01	1.14E-03				
2018	Annual	Mon-Sun	2.27E+09	Paving Eq	D	250	Constructi	U	N	NHH	NP	Total	Total	Total	5.68E+01	1.30E+02	7.21E+02	6.25E-03	1.99E-02	5.35E-02	7.95E+00	8.94E-05	1.95E-03	0.00E+00	5.64E-04	3.07E-01	1.37E-03				
2018	Annual	Mon-Sun	2.27E+09	Surfacing	ID	50	Constructi	U	P	NHH	NP	Total	Total	Total	2.70E+01	3.35E+01	2.18E+01	5.31E-04	2.08E-03	1.91E-03	2.36E-01	3.05E-06	1.30E-04	0.00E+00	4.79E-05	1.24E-01	1.82E-04				
2018	Annual	Mon-Sun	2.27E+09	Surfacing	ID	120	Constructi	U	P	NHH	NP	Total	Total	Total	5.41E+00	6.70E+00	1.95E+01	2.24E-04	1.36E-03	1.56E-03	2.14E-01	2.51E-06	1.12E-04	0.00E+00	2.02E-05	4.07E-01	7.47E-04				
2018	Annual	Mon-Sun	2.27E+09	Surfacing	ID	175	Constructi	U	P	NHH	NP	Total	Total	Total	4.06E+00	5.03E+00	1.96E+01	1.60E-04	1.17E-03	1.28E-03	2.15E-01	2.42E-06	6.45E-05	0.00E+00	1.44E-05	4.67E-01	9.64E-04				
2018	Annual	Mon-Sun	2.27E+09	Surfacing	ID	250	Constructi	U	N	NHH	NP	Total	Total	Total	8.11E+00	1.01E+01	6.13E+01	3.68E-04	1.44E-03	3.52E-03	6.77E-01	7.62E-06	1.15E-04	0.00E+00	3.32E-05	2.86E-01	1.52E-03				
2018	Annual	Mon-Sun	2.27E+09	Surfacing	ID	500	Constructi	U	N	NHH	NP	Total	Total	Total	6.76E+01	8.38E+01	8.39E+02	4.69E-03	2.11E-02	4.32E-02	9.26E+00	9.09E-05	1.46E-03	0.00E+00	4.23E-04	5.04E-01	2.17E-03				
2018	Annual	Mon-Sun	2.27E+09	Surfacing	ID	750	Constructi	U	N	NHH	NP	Total	Total	Total	4.06E+01	5.03E+01	7.90E+02	4.48E-03	1.99E-02	4.18E-02	8.73E+00	8.78E-05	1.40E-03	0.00E+00	4.04E-04	7.91E-01	3.49E-03				
2018	Annual	Mon-Sun	2.27E+09	Signal Boa	D	15	Constructi	U	P	NHH	NP	Total	Total	Total	3.81E+03	7.83E+03	2.20E+03	2.81E-02	1.47E-01	1.76E-01	2.41E+01	3.76E-04	6.87E-03	0.00E+00	2.53E-03	3.76E-02	9.59E-05				
2018	Annual	Mon-Sun	2.27E+09	Signal Boa	D	50	Constructi	U	P	NHH	NP	Total	Total	Total	1.89E+01	2.78E+01	4.61E+01	9.00E-04	4.12E-03	3.91E-03	5.02E-01	6.49E-06	2.39E-04	0.00E+00	8.12E-05	2.96E-01	4.67E-04				
2018	Annual	Mon-Sun	2.27E+09	Signal Boa	D	120	Constructi	U	P	NHH	NP	Total	Total	Total	3.10E+02	4.54E+02	1.66E+03	1.58E-02	1.13E-01	1.19E-01	1.82E+01	2.14E-04	8.09E-03	0.00E+00	1.42E-03	4.99E-01	9.40E-04				
2018	Annual	Mon-Sun	2.27E+09	Signal Boa	D	175	Constructi	U	P	NHH	NP	Total	Total	Total	1.92E+02	2.82E+02	1.98E+03	1.34E-02	1.16E-01	1.12E-01	2.18E+01	2.45E-04	5.42E-03	0.00E+00	1.21E-03	8.27E-01	1.74E-03				
2018	Annual	Mon-Sun	2.27E+09	Signal Boa	D	250	Constructi	U	N	NHH	NP	Total	Total	Total	4.06E+01	5.95E+01	6.87E+02	3.42E-03	1.44E-02	3.36E-02	7.59E+00	8.54E-05	1.00E-03	0.00E+00	3.09E-04	4.85E-01	2.87E-03				
2018	Annual	Mon-Sun	2.27E+09	Trenchers	D	15	Constructi	U	P	NHH	NP	Total	Total	Total	1.01E+02	1.72E+02	6.64E+01	8.46E-04	4.44E-03	5.30E-03	7.27E-01	1.13E-05	2.07E-04	0.00E+00	7.63E-05	5.16E-02	1.32E-04				
2018	Annual	Mon-Sun	2.27E+09	Trenchers	D	25	Constructi	U	P	NHH	NP	Total	Total	Total	1.07E+02	1.81E+02	2.71E+02	3.59E-03	1.23E-02	2.27E-02	2.98E+00	3.78E-05	8.47E-04	0.00E+00	3.24E-04	1.35E-01	4.17E-04				
2018	Annual	Mon-Sun	2.27E+09	Trenchers	D	50	Constructi	U	P	NHH	NP	Total	Total	Total	4.07E+03	7.01E+03	1.07E+04	4.00E-01	1.28E+00	1.04E+00	1.15E+02	1.49E-03	8.92E-02	0.00E+00	3.61E-02	3.64E-01	4.25E-04				
2018	Annual	Mon-Sun	2.27E+09	Trenchers	D	120	Constructi	U	P	NHH	NP	Total	Total	Total	5.51E+03	9.49E+03	2.82E+04	4.55E-01	2.13E+00	2.80E+00	3.08E+02	3.61E-03	2.26E-01	0.00E+00	4.10E-02	4.49E-01	7.61E-04				
2018	Annual	Mon-Sun	2.27E+09	Trenchers	D	175	Constructi	U	P	NHH	NP	Total	Total	Total	6.03E+02	1.04E+03	6.82E+03	7.81E-02	4.38E-01	5.72E-01	7.47E+01	8.40E-04	3.15E-02	0.00E+00	7.05E-03	8.43E-01	1.62E-03				
2018	Annual	Mon-Sun	2.27E+09	Trenchers	D	250	Constructi	U	N	NHH	NP	Total	Total	Total	5.41E+01	9.32E+01	9.41E+02	8.30E-03	2.71E-02	7.19E-02	1.04E+01	1.17E-04	2.71E-03	0.00E+00	7.49E-04	5.82E-01	2.51E-03				
2018	Annual	Mon-Sun	2.27E+09	Trenchers	D	500	Constructi	U	N	NHH	NP	Total	Total	Total	6.90E+01	1.19E+02	1.68E+03	1.37E-02	5.68E-02	1.15E-01	1.85E+01	1.81E-04	4.39E-03	0.00E+00	1.24E-03	9.55E-01	3.0				

**Table C.19 CARB Offroad 2007 output**

used to calculate CO and SOx because Offroad2011 does not calculate CO and SOx

CY	Season	AvgDays	Code	Equipment	Fuel	MaxHP	Class	C/R	Pre	Hand	Port	County	Air Basin	Air Dist.	Population	Activity	hr/day for	gal/day	ton/day	ton/day	ton/day	ton/day	ton/day	ton/day	ton/day	ton/day	ton/day	ton/day	ton/day	ton/day	ton/day	ton/day	ton/day	ton/day	lb/hr/equi	lb/hr/equi
																	total population	for total population																		
2018	Annual	Mon-Sun	2.27E+09	Excavators D		250	Constructi	U	N	NHH	NP	Total	Total	Total	4.01E+03	1.56E+04	1.12E+05	7.27E-01	2.59E+00	4.66E+00	1.24E+03	1.39E-02	1.57E-01	0.00E+00	6.56E-02	3.32E-01	1.78E-03									
2018	Annual	Mon-Sun	2.27E+09	Excavators D		500	Constructi	U	N	NHH	NP	Total	Total	Total	2.90E+03	1.12E+04	1.19E+05	7.52E-01	2.63E+00	4.43E+00	1.31E+03	1.29E-02	1.60E-01	0.00E+00	6.78E-02	4.68E-01	2.29E-03									
2018	Annual	Mon-Sun	2.27E+09	Excavators D		750	Constructi	U	N	NHH	NP	Total	Total	Total	6.37E+01	2.47E+02	4.33E+03	2.75E-02	9.60E-02	1.65E-01	4.78E+01	4.81E-04	5.89E-03	0.00E+00	2.48E-03	7.76E-01	3.89E-03									
2018	Annual	Mon-Sun	2.27E+09	Concrete/I/D		25	Constructi	U	P	NHH	NP	Total	Total	Total	5.41E+00	8.78E+00	6.58E+00	8.72E-05	2.98E-04	5.51E-04	7.23E-02	9.17E-07	2.06E-05	0.00E+00	7.87E-06	6.78E-02	2.09E-04									
2018	Annual	Mon-Sun	2.27E+09	Concrete/I/D		50	Constructi	U	P	NHH	NP	Total	Total	Total	4.73E+01	7.53E+01	1.04E+02	2.06E-03	9.53E-03	8.98E-03	1.14E+00	1.47E-05	5.55E-04	0.00E+00	1.86E-04	2.53E-01	3.90E-04									
2018	Annual	Mon-Sun	2.27E+09	Concrete/I/D		120	Constructi	U	P	NHH	NP	Total	Total	Total	8.25E+01	1.31E+02	4.44E+02	4.26E-03	3.05E-02	3.21E-02	4.86E+00	5.70E-05	2.20E-03	0.00E+00	3.85E-04	4.66E-01	8.69E-04									
2018	Annual	Mon-Sun	2.27E+09	Concrete/I/D		175	Constructi	U	P	NHH	NP	Total	Total	Total	2.70E+00	4.30E+00	3.13E+01	2.18E-04	1.86E-03	1.78E-03	3.44E-01	3.87E-06	8.82E-05	0.00E+00	1.96E-05	8.65E-01	1.80E-03									
2018	Annual	Mon-Sun	2.27E+09	Cement an D		15	Constructi	U	P	NHH	NP	Total	Total	Total	6.91E+02	5.69E+02	1.64E+02	2.09E-03	1.10E-02	1.31E-02	1.79E+00	2.79E-05	5.16E-04	0.00E+00	1.89E-04	3.86E-02	9.83E-05									
2018	Annual	Mon-Sun	2.27E+09	Cement an D		25	Constructi	U	P	NHH	NP	Total	Total	Total	6.22E+01	5.12E+01	4.09E+01	5.92E-04	1.93E-03	3.56E-03	4.49E-01	5.69E-06	1.63E-04	0.00E+00	5.34E-05	7.53E-02	2.23E-04									
2018	Annual	Mon-Sun	2.27E+09	Cranes D		50	Constructi	U	P	NHH	P	Total	Total	Total	4.60E+01	1.61E+02	1.73E+02	5.21E-03	2.04E-02	1.63E-02	1.87E+00	2.42E-05	1.22E-03	0.00E+00	4.70E-04	2.52E-01	2.99E-04									
2018	Annual	Mon-Sun	2.27E+09	Cranes D		120	Constructi	U	P	NHH	P	Total	Total	Total	5.04E+02	1.77E+03	4.06E+03	5.65E-02	3.08E-01	3.41E-01	4.43E+01	5.20E-04	2.71E-02	0.00E+00	5.10E-03	3.48E-01	5.88E-04									
2018	Annual	Mon-Sun	2.27E+09	Cranes D		175	Constructi	U	P	NHH	P	Total	Total	Total	5.04E+02	1.77E+03	6.48E+03	6.65E-02	4.21E-01	4.45E-01	7.10E+01	7.99E-04	2.50E-02	0.00E+00	6.00E-03	4.76E-01	9.03E-04									
2018	Annual	Mon-Sun	2.27E+09	Cranes D		250	Constructi	U	N	NHH	P	Total	Total	Total	9.78E+02	3.43E+03	1.74E+04	1.35E-01	4.32E-01	1.06E+00	1.92E+02	2.16E-03	3.63E-02	0.00E+00	1.22E-02	2.52E-01	1.26E-03									
2018	Annual	Mon-Sun	2.27E+09	Cranes D		500	Constructi	U	N	NHH	P	Total	Total	Total	3.58E+02	1.26E+03	1.03E+04	7.55E-02	2.57E-01	5.50E-01	1.13E+02	1.11E-03	1.99E-02	0.00E+00	6.81E-03	4.08E-01	1.77E-03									
2018	Annual	Mon-Sun	2.27E+09	Cranes D		750	Constructi	U	N	NHH	P	Total	Total	Total	2.64E+02	9.27E+02	1.27E+04	9.41E-02	3.18E-01	7.03E-01	1.40E+02	1.41E-03	2.51E-02	0.00E+00	8.49E-03	6.87E-01	3.04E-03									
2018	Annual	Mon-Sun	2.27E+09	Cranes D		9999	Constructi	U	N	NHH	P	Total	Total	Total	3.32E+02	1.16E+03	5.11E+04	4.31E-01	1.39E+00	4.55E+00	5.64E+02	5.67E-03	1.25E-01	0.00E+00	3.89E-02	2.39E+00	9.75E-03									
2018	Annual	Mon-Sun	2.27E+09	Graders D		50	Constructi	U	P	NHH	NP	Total	Total	Total	1.89E+01	4.92E+01	6.26E+01	1.66E-03	7.06E-03	5.67E-03	6.77E-01	8.76E-06	3.87E-04	0.00E+00	1.50E-04	2.87E-01	3.56E-04									
2018	Annual	Mon-Sun	2.27E+09	Graders D		120	Constructi	U	P	NHH	NP	Total	Total	Total	1.26E+03	3.29E+03	1.13E+04	1.41E-01	8.43E-01	8.74E-01	1.23E+02	1.44E-03	6.54E-02	0.00E+00	1.27E-02	5.13E-01	8.79E-04									
2018	Annual	Mon-Sun	2.27E+09	Graders D		175	Constructi	U	P	NHH	NP	Total	Total	Total	4.32E+03	1.12E+04	6.34E+04	5.94E-01	4.09E+00	3.93E+00	6.95E+02	7.82E-03	2.16E-01	0.00E+00	5.36E-02	7.29E-01	1.39E-03									
2018	Annual	Mon-Sun	2.27E+09	Graders D		250	Constructi	U	N	NHH	NP	Total	Total	Total	2.68E+03	6.96E+03	5.43E+04	3.88E-01	1.31E+00	2.93E+00	5.99E+02	6.74E-03	1.00E-01	0.00E+00	3.50E-02	3.77E-01	1.93E-03									
2018	Annual	Mon-Sun	2.27E+09	Graders D		500	Constructi	U	N	NHH	NP	Total	Total	Total	7.57E+01	1.97E+02	2.05E+03	1.40E-02	5.11E-02	9.83E-02	2.26E+01	2.22E-04	3.54E-03	0.00E+00	1.26E-03	5.19E-01	2.25E-03									
2018	Annual	Mon-Sun	2.27E+09	Graders D		750	Constructi	U	N	NHH	NP	Total	Total	Total	4.06E+00	1.06E+01	2.32E+02	1.59E-03	5.80E-03	1.15E-02	2.56E+00	2.58E-05	4.08E-04	0.00E+00	1.44E-04	1.10E+00	4.88E-03									
2018	Annual	Mon-Sun	2.27E+09	Off-High D		175	Constructi	U	P	NHH	NP	Total	Total	Total	8.79E+01	4.78E+02	2.72E+03	2.35E-02	1.80E-01	1.42E-01	2.99E+01	3.36E-04	7.49E-03	0.00E+00	2.12E-03	7.54E-01	1.41E-03									
2018	Annual	Mon-Sun	2.27E+09	Off-High D		250	Constructi	U	N	NHH	NP	Total	Total	Total	6.49E+02	3.53E+03	2.66E+04	1.84E-01	6.29E-01	1.17E+00	2.93E+02	3.30E-03	3.97E-02	0.00E+00	1.66E-02	3.57E-01	1.87E-03									
2018	Annual	Mon-Sun	2.27E+09	Off-High D		500	Constructi	U	N	NHH	NP	Total	Total	Total	9.14E+02	4.97E+03	6.12E+04	4.11E-01	1.38E+00	2.41E+00	6.76E+02	6.63E-03	8.71E-02	0.00E+00	3.71E-02	5.57E-01	2.67E-03									
2018	Annual	Mon-Sun	2.27E+09	Off-High D		750	Constructi	U	N	NHH	NP	Total	Total	Total	8.52E+02	4.63E+03	9.25E+04	6.23E-01	2.09E+00	3.73E+00	1.02E+03	1.03E-02	1.33E-01	0.00E+00	5.62E-02	9.04E-01	4.44E-03									
2018	Annual	Mon-Sun	2.27E+09	Off-High D		1000	Constructi	U	N	NHH	NP	Total	Total	Total	4.00E+02	2.17E+03	6.13E+04	4.40E-01	1.45E+00	4.70E+00	6.77E+02	6.81E-03	1.20E-01	0.00E+00	3.97E-02	1.33E+00	6.28E-03									
2018	Annual	Mon-Sun	2.27E+09	Crushing/PD		50	Constructi	U	P	NHH	P	Total	Total	Total	2.16E+02	5.67E+02	1.15E+03	2.69E-02	1.10E-01	1.02E-01	1.25E+01	1.61E-04	6.82E-03	0.00E+00	2.42E-03	4.23E-01	5.69E-04									
2018	Annual	Mon-Sun	2.27E+09	Crushing/PD		120	Constructi	U	P	NHH	P	Total	Total	Total	6.10E+02	1.60E+03	6.06E+03	6.78E-02	4.39E-01	4.53E-01	6.63E+01	7.78E-04	3.32E-02	0.00E+00	6.12E-03	5.50E-01	9.74E-03									
2018	Annual	Mon-Sun	2.27E+09	Crushing/PD		175	Constructi	U	P	NHH	P	Total	Total	Total	2.58E+02	6.76E+02	5.15E+03	4.25E-02	3.22E-01	3.03E-01	5.65E+01	6.36E-04	1.61E-02	0.00E+00	3.83E-03	9.51E-01	1.88E-03									
2018	Annual	Mon-Sun	2.27E+09	Crushing/PD		250	Constructi	U	N	NHH	P	Total	Total	Total	2.57E+01	6.73E+01	7.44E+02	4.66E-03	1.66E-02	3.79E-02	8.22E+00	9.25E-05	1.21E-03	0.00E+00	4.20E-04	4.93E-01	2.75E-03									
2018	Annual	Mon-Sun	2.27E+09	Crushing/PD		500	Constructi	U	N	NHH	P	Total	Total	Total	1.45E+02	3.77E+02	6.40E+03	3.86E-02	1.37E-01	2.88E-01	7.07E+01	6.94E-04	9.91E-03	0.00E+00	3.48E-03	7.22E-01	3.66E-03									
2018	Annual	Mon-Sun	2.27E+09	Crushing/PD		750	Constructi	U	N	NHH	P	Total	Total	Total	6.77E+00	1.79E+01	4.72E+02	2.83E-03	1.01E-02	2.16E-02	5.22E+00	5.25E-05	7.30E-04	0.00E+00	2.55E-04	1.14E+00	5.92E-03									
2018	Annual	Mon-Sun	2.27E+09	Crushing/PD		9999	Constructi	U	N	NHH	P	Total	Total	Total	6.77E+00	1.77E+01	1.05E+03	7.37E-03	2.44E-02	8.50E-02	1.16E+01	1.16E-04	2.19E-03	0.00E+00	6.65E-04	2.76E+00	1.31E-02									
2018	Annual	Mon-Sun	2.27E+09	Rough Ter D		50	Constructi	U	P	NHH	NP	Total	Total	Total	1.50E+02	4.65E+02	7.25E+02	1.52E-02	7.66E-02	6.38E-02	7.87E+00	1.02E-04	3.85E-03	0.00E+00	1.37E-03	3.29E-01	4.37E-04									
2018	Annual	Mon-Sun	2.27E+09	Rough Ter D		120	Constructi	U	P	NHH	NP	Total	Total	Total	7.19E+03	2.23E+04	6.35E+04	6.64E-01	4.65E+00	4.42E+00	6.95E+02	8.16E-03	3.04E-01	0.00E+00	5.99E-02	4.18E-01	7.32E-04									
2018	Annual	Mon-Sun	2.27E+09	Rough Ter D		175	Constructi	U	P	NHH	NP	Total	Total	Total	9.21E+02	2.85E+03	1.62E+04	1.30E-01	1.03E+00	8.66E-01	1.78E+02	2.00E-03	4.59E-02	0.00E+00	1.17E-02	7.22E-01	1.40E-03									
2018	Annual	Mon-Sun	2.27E+09	Rough Ter D		250	Constructi	U	N	NHH	NP	Total	Total	Total	5.14E+01	1.59E+02	1.23E+03	7.86E-03	2.79E-02	5.63E-02	1.36E+01	1.53E-04	1.89E-03	0.00E+00	7.09E-04	3.50E-01	1.92E-03									
2018	Annual	Mon-Sun	2.27E+09	Rough Ter D		500	Constructi	U	N	NHH	NP	Total	Total	Total	3.38E+01	1.05E+02	1.22E+03	7.54E-03	2.63E-02	4.96E-02	1.34E+01	1.32E-04	1.79E-03	0.00E+00	6.81E-04	5.02E-01	2.52E-03									
2018	Annual	Mon-Sun	2.27E+09	Rubber Tir D		25	Constructi	U	P	NHH	NP	Total	Total	Total	1.89E+01	4.97E+01	3.83E+01	5.07E-04	1.73E-03	3.20E-03	4.20E-01	5.33E-06	1.20E-04	0.00E+00	4.57E-05	6.96E-02	2.15E-04									
2018	Annual	Mon-Sun	2.27E+09	Rubber Tir D		50	Constructi	U	P	NHH	NP	Total	Total	Total	3.68E+02	9.81E+02	1.41E+03	3.64E-02	1.57E-01	1.27E-01	1.53E+01	1.97E-04	8.55E-03	0.00E+00	3.28E-03	3.20E-01	4.02E-04									
2018	Annual	Mon-Sun	2.27E+09	Rubber Tir D		120	Constructi	U	P	NHH	NP	Total	Total	Total	1.00E+04	2.67E+04	7.18E+04	8.79E-01	5.35E+00	5.49E+00	7.85E+02	9.21E-03	4.09E-01	0.00E+00	7.93E-02	4.01E-01	6.90E-04									
2018	Annual	Mon-Sun	2.27E+09	Rubber Tir D		175	Constructi	U	P	NHH	NP	Total	Total	Total	5.64E+03	1.50E+04	7.28E+04	6.67E-01	4.68E+00	4.43E+00	7.99E+02	8.98E-03	2.43E-01	0.00E+00	6.02E-02	6.22E-01										

**Table C.19 CARB Offroad 2007 output**

used to calculate CO and SOx because Offroad2011 does not calculate CO and SOx

CY	Season	AvgDays	Code	Equipment	Fuel	MaxHP	Class	C/R	Pre	Hand	Port	County	Air Basin	Air Dist.	Population	Activity	hr/day for	gal/day	ton/day	ton/day	ton/day	ton/day	ton/day	ton/day	ton/day	ton/day	ton/day	ton/day	ton/day	ton/day	ton/day	ton/day	ton/day	ton/day	ton/day	lb/hr/equi	lb/hr/equi
																	total population	for total population																			
2018	Annual	Mon-Sun	2.27E+09	Tractors/L/D		500	Constructi	U	N	NHH	NP	Total	Total	Total	1.19E+03	3.13E+03	4.88E+04	2.80E-01	1.06E+00	1.68E+00	5.39E+02	6.07E-03	6.02E-02	0.00E+00	2.52E-02	6.76E-01	3.88E-03										
2018	Annual	Mon-Sun	2.27E+09	Tractors/L/D		750	Constructi	U	N	NHH	NP	Total	Total	Total	8.19E+02	2.16E+03	5.05E+04	2.90E-01	1.10E+00	1.78E+00	5.58E+02	6.28E-03	6.31E-02	0.00E+00	2.62E-02	1.01E+00	5.82E-03										
2018	Annual	Mon-Sun	2.27E+09	Crawler Tr D		50	Constructi	U	P	NHH	NP	Total	Total	Total	1.89E+01	5.40E+01	6.23E+01	2.19E-03	7.78E-03	6.04E-03	6.71E-01	8.67E-06	4.88E-04	0.00E+00	1.98E-04	2.88E-01	3.21E-04										
2018	Annual	Mon-Sun	2.27E+09	Crawler Tr D		120	Constructi	U	P	NHH	NP	Total	Total	Total	1.07E+04	3.06E+04	9.22E+04	1.45E+00	7.16E+00	8.55E+00	1.01E+03	1.18E-02	6.85E-01	0.00E+00	1.30E-01	4.67E-01	7.71E-04										
2018	Annual	Mon-Sun	2.27E+09	Crawler Tr D		175	Constructi	U	P	NHH	NP	Total	Total	Total	3.64E+03	1.04E+04	5.73E+04	6.57E-01	3.79E+00	4.42E+00	6.27E+02	7.06E-03	2.48E-01	0.00E+00	5.93E-02	7.32E-01	1.36E-03										
2018	Annual	Mon-Sun	2.27E+09	Crawler Tr D		250	Constructi	U	N	NHH	NP	Total	Total	Total	3.12E+03	8.91E+03	6.70E+04	5.93E-01	1.86E+00	4.64E+00	7.39E+02	8.32E-03	1.71E-01	0.00E+00	5.35E-02	4.18E-01	1.87E-03										
2018	Annual	Mon-Sun	2.27E+09	Crawler Tr D		500	Constructi	U	N	NHH	NP	Total	Total	Total	2.14E+03	6.10E+03	7.17E+04	5.97E-01	2.20E+00	4.46E+00	7.90E+02	7.76E-03	1.69E-01	0.00E+00	5.39E-02	7.19E-01	2.54E-03										
2018	Annual	Mon-Sun	2.27E+09	Crawler Tr D		750	Constructi	U	N	NHH	NP	Total	Total	Total	1.08E+02	3.09E+02	6.50E+03	5.44E-02	1.99E-01	4.14E-01	7.17E+01	7.21E-04	1.55E-02	0.00E+00	4.91E-03	1.29E+00	4.67E-03										
2018	Annual	Mon-Sun	2.27E+09	Crawler Tr D		1000	Constructi	U	N	NHH	NP	Total	Total	Total	1.08E+02	3.09E+02	9.21E+03	8.29E-02	3.11E-01	8.83E-01	1.01E+02	1.02E-03	2.56E-02	0.00E+00	7.48E-03	2.02E+00	6.61E-03										
2018	Annual	Mon-Sun	2.27E+09	Skid Steer D		25	Constructi	U	P	NHH	NP	Total	Total	Total	2.60E+03	5.94E+03	3.73E+03	5.22E-02	1.73E-01	3.21E-01	4.09E+01	5.19E-04	1.42E-02	0.00E+00	4.71E-03	5.82E-02	1.75E-04										
2018	Annual	Mon-Sun	2.27E+09	Skid Steer D		50	Constructi	U	P	NHH	NP	Total	Total	Total	2.36E+04	5.49E+04	6.41E+04	7.22E-01	5.58E+00	4.90E+00	7.00E+02	9.05E-03	1.78E-01	0.00E+00	6.51E-02	2.03E-01	3.30E-04										
2018	Annual	Mon-Sun	2.27E+09	Skid Steer D		120	Constructi	U	P	NHH	NP	Total	Total	Total	1.23E+04	2.88E+04	5.60E+04	3.56E-01	3.85E+00	2.83E+00	6.14E+02	7.21E-03	1.36E-01	0.00E+00	3.22E-02	2.68E-01	5.01E-04										
2018	Annual	Mon-Sun	2.27E+09	Off-Highw D		120	Constructi	U	P	NHH	NP	Total	Total	Total	1.35E+00	4.12E+00	1.77E+01	3.34E-04	1.42E-03	1.94E-03	1.93E-01	2.26E-06	1.60E-04	0.00E+00	3.01E-05	6.87E-01	1.10E-03										
2018	Annual	Mon-Sun	2.27E+09	Off-Highw D		175	Constructi	U	P	NHH	NP	Total	Total	Total	1.65E+03	5.04E+03	3.00E+04	4.06E-01	2.04E+00	2.82E+00	3.28E+02	3.69E-03	1.59E-01	0.00E+00	3.67E-02	8.08E-01	1.47E-03										
2018	Annual	Mon-Sun	2.27E+09	Off-Highw D		250	Constructi	U	N	NHH	NP	Total	Total	Total	1.56E+03	4.76E+03	2.82E+04	3.03E-01	9.19E-01	2.44E+00	3.10E+02	3.49E-03	9.78E-02	0.00E+00	2.74E-02	3.86E-01	1.47E-03										
2018	Annual	Mon-Sun	2.27E+09	Off-Highw D		750	Constructi	U	N	NHH	NP	Total	Total	Total	6.80E+02	2.07E+03	5.34E+04	5.35E-01	2.17E+00	4.26E+00	5.88E+02	5.91E-03	1.69E-01	0.00E+00	4.83E-02	2.09E+00	5.71E-03										
2018	Annual	Mon-Sun	2.27E+09	Off-Highw D		1000	Constructi	U	N	NHH	NP	Total	Total	Total	7.18E+01	2.18E+02	8.09E+03	8.56E-02	3.58E-01	8.82E-01	8.89E+01	8.94E-04	2.76E-02	0.00E+00	7.72E-03	3.28E+00	8.18E-03										
2018	Annual	Mon-Sun	2.27E+09	Dumpers/TD		25	Constructi	U	P	NHH	NP	Total	Total	Total	3.25E+01	5.89E+01	2.04E+01	2.71E-04	9.24E-04	1.72E-03	2.24E-01	2.85E-06	6.68E-05	0.00E+00	2.45E-05	3.14E-02	9.67E-05										
2018	Annual	Mon-Sun	2.27E+09	Other Cons D		15	Constructi	U	P	NHH	NP	Total	Total	Total	4.48E+02	8.47E+02	3.91E+02	4.98E-03	2.61E-02	3.12E-02	4.28E+00	6.65E-05	1.22E-03	0.00E+00	4.49E-04	6.17E-02	1.57E-04										
2018	Annual	Mon-Sun	2.27E+09	Other Cons D		25	Constructi	U	P	NHH	NP	Total	Total	Total	7.57E+01	1.43E+02	8.62E+01	1.14E-03	3.90E-03	7.21E-03	9.46E-01	1.20E-05	2.69E-04	0.00E+00	1.10E-04	5.44E-02	1.68E-04										
2018	Annual	Mon-Sun	2.27E+09	Other Cons D		50	Constructi	U	P	NHH	NP	Total	Total	Total	1.16E+02	2.23E+02	2.86E+02	4.59E-03	2.61E-02	2.34E-02	3.12E+00	4.03E-05	1.20E-03	0.00E+00	4.14E-04	2.34E-01	3.62E-04										
2018	Annual	Mon-Sun	2.27E+09	Other Cons D		120	Constructi	U	P	NHH	NP	Total	Total	Total	1.92E+02	3.68E+02	1.36E+03	1.11E-02	9.41E-02	8.49E+01	1.75E-04	5.14E-03	0.00E+00	1.00E-03	5.11E-01	9.48E-04											
2018	Annual	Mon-Sun	2.27E+09	Other Cons D		175	Constructi	U	P	NHH	NP	Total	Total	Total	2.65E+02	5.08E+02	2.46E+03	1.54E-02	1.49E-01	1.14E-01	2.70E+01	3.04E-04	5.53E-03	0.00E+00	1.39E-03	5.85E-01	1.20E-03										
2018	Annual	Mon-Sun	2.27E+09	Other Cons D		500	Constructi	U	N	NHH	NP	Total	Total	Total	6.15E+02	1.18E+03	1.36E+04	6.62E-02	2.80E-01	4.72E-01	1.50E+02	1.47E-03	1.62E-02	0.00E+00	5.97E-03	4.74E-01	2.49E-03										
2019	Annual	Mon-Sun	2.27E+09	Pavers D		25	Constructi	U	P	NHH	NP	Total	Total	Total	8.68E+00	1.95E+01	1.66E+01	2.20E-04	7.50E-04	1.40E-03	1.82E-01	2.31E-06	5.43E-05	0.00E+00	1.99E-05	7.68E-02	2.37E-04										
2019	Annual	Mon-Sun	2.27E+09	Pavers D		50	Constructi	U	P	NHH	NP	Total	Total	Total	5.04E+02	1.15E+03	1.49E+03	5.16E-02	1.79E-01	1.42E-01	1.61E+01	2.08E-04	1.15E-02	0.00E+00	4.66E-03	3.12E-01	3.62E-04										
2019	Annual	Mon-Sun	2.27E+09	Pavers D		120	Constructi	U	P	NHH	NP	Total	Total	Total	5.95E+02	1.36E+03	4.29E+03	6.56E-02	3.27E-01	3.94E-01	4.68E+01	5.50E-04	3.16E-02	0.00E+00	5.92E-03	4.83E-01	8.11E-04										
2019	Annual	Mon-Sun	2.27E+09	Pavers D		175	Constructi	U	P	NHH	NP	Total	Total	Total	3.70E+02	8.42E+02	4.93E+03	5.43E-02	3.20E-01	3.74E-01	5.40E+01	6.07E-04	2.10E-02	0.00E+00	4.90E-03	7.61E-01	1.44E-03										
2019	Annual	Mon-Sun	2.27E+09	Pavers D		250	Constructi	U	N	NHH	NP	Total	Total	Total	4.45E+01	1.02E+02	8.94E+02	7.55E-03	2.46E-02	6.14E-02	9.86E+00	1.11E-04	2.27E-03	0.00E+00	6.82E-04	4.84E-01	2.19E-03										
2019	Annual	Mon-Sun	2.27E+09	Pavers D		500	Constructi	U	N	NHH	NP	Total	Total	Total	4.57E+01	1.04E+02	1.10E+03	8.72E-03	3.42E-02	6.78E-02	1.21E+01	1.19E-04	2.56E-03	0.00E+00	7.87E-04	6.57E-01	2.29E-03										
2019	Annual	Mon-Sun	2.27E+09	Plate Comp D		15	Constructi	U	P	NHH	NP	Total	Total	Total	1.86E+02	3.06E+02	6.03E+01	7.69E-04	4.03E-03	4.81E-03	6.60E-01	1.03E-05	1.88E-04	0.00E+00	6.94E-05	2.63E-02	6.71E-05										
2019	Annual	Mon-Sun	2.27E+09	Rollers D		15	Constructi	U	P	NHH	NP	Total	Total	Total	3.50E+02	6.67E+02	1.92E+02	2.45E-03	1.29E-02	1.53E-02	2.11E+00	3.28E-05	6.00E-04	0.00E+00	2.21E-04	3.86E-02	8.83E-05										
2019	Annual	Mon-Sun	2.27E+09	Rollers D		25	Constructi	U	P	NHH	NP	Total	Total	Total	1.46E+02	2.79E+02	1.69E+02	2.24E-03	7.65E-03	1.42E-02	1.86E+00	2.36E-05	5.29E-04	0.00E+00	2.02E-04	5.49E-02	1.93E-04										
2019	Annual	Mon-Sun	2.27E+09	Rollers D		50	Constructi	U	P	NHH	NP	Total	Total	Total	4.55E+02	8.74E+02	1.05E+03	2.62E-02	1.09E-01	9.18E-02	1.13E+01	1.47E-04	6.23E-03	0.00E+00	2.37E-03	2.49E-01	3.36E-04										
2019	Annual	Mon-Sun	2.27E+09	Rollers D		120	Constructi	U	P	NHH	NP	Total	Total	Total	2.44E+03	4.69E+03	1.26E+04	1.47E-01	9.13E-01	9.60E-01	1.38E+02	1.62E-03	7.15E-02	0.00E+00	1.33E-02	3.89E-01	6.91E-04										
2019	Annual	Mon-Sun	2.27E+09	Rollers D		175	Constructi	U	P	NHH	NP	Total	Total	Total	9.83E+02	1.89E+03	9.29E+03	7.86E-02	5.77E-01	5.59E-01	1.02E+02	1.15E-03	3.02E-02	0.00E+00	7.09E-03	6.12E-01	1.22E-03										
2019	Annual	Mon-Sun	2.27E+09	Rollers D		250	Constructi	U	N	NHH	NP	Total	Total	Total	1.39E+02	2.68E+02	1.85E+03	1.19E-02	4.35E-02	9.83E-02	2.05E+01	2.30E-04	3.31E-03	0.00E+00	1.07E-03	3.25E-01	1.72E-03										
2019	Annual	Mon-Sun	2.27E+09	Rollers D		500	Constructi	U	N	NHH	NP	Total	Total	Total	9.77E+01	1.88E+02	1.86E+03	1.13E-02	4.45E-02	8.73E-02	2.05E+01	2.02E-04	3.10E-03	0.00E+00	1.02E-03	4.74E-01	2.15E-03										
2019	Annual	Mon-Sun	2.27E+09	Scrapers D		120	Constructi	U	P	NHH	NP	Total	Total	Total	2.26E+01	6.86E+01	2.95E+02	4.44E-03	2.28E-02	2.62E-02	3.22E+00	3.77E-05	2.07E-03	0.00E+00	4.01E-04	6.64E-01	1.10E-03										
2019	Annual	Mon-Sun	2.27E+09	Scrapers D		175	Constructi	U	P	NHH	NP	Total	Total	Total	2.06E+02	6.28E+02	4.24E+03	4.66E-02	2.80E-01	3.09E-01	6.46E+01	5.22E-04	1.73E-02	0.00E+00	4.21E-03	8.93E-01	1.66E-03										
2019	Annual	Mon-Sun	2.27E+09	Scrapers D		250	Constructi	U	N	NHH	NP	Total	Total	Total	2.01E+02	6.12E+02	5.81E+03	4.92E-02	1.58E-01	3.79E-01	4.60E+01	7.20E-04	1.39E-02	0.00E+00	4.44E-03	5.17E-01	2.35E-03										
2019	Annual	Mon-Sun	2.27E+09	Scrapers D		500	Constructi	U	N	NHH	NP	Total	Total	Total	5.54E+02	1.68E+03	2.45E+04	1.96E-01	7.39E-01	1.44E+00	2.70E+02	2.65E-03	5.41E-02	0.00E+00	1.77E-02	8.78E-01	3.15E-03										
2019	Annual	Mon-Sun	2.27E+09	Scrapers D		750	Constructi	U	N	NHH	NP	Total	Total	Total	1.86E+01	5.65E+01	1.42E+03	1.14E-02	4.27E-02	8.56E-02	1.57E+01	1.57E-04	3.18E-03	0.00E+00	1.03E-03												

**Table C.19 CARB Offroad 2007 output**

used to calculate CO and SOx because Offroad2011 does not calculate CO and SOx

CY	Season	AvgDays	Code	Equipme nt	Fuel	MaxH P	Class	C/R	Pre	Hand	Port	County	Air Basin	Air Dist.	Populatio n	Activity	hr/day for	gal/day	ton/day	ton/day	ton/day	ton/day	ton/day	ton/day	ton/day	ton/day	ton/day	ton/day	ton/day	ton/day	ton/day	lb/hr/equi pment	lb/hr/equi pment
																	total populatio n	for total populatio n															
2019	Annual	Mon-Sun	2.27E+09	Signal Boa D		175	Constructi U	P	NHH	NP	Total	Total	Total	8.21E+01	1.20E+02	8.47E+02	5.26E-03	4.98E-02	4.26E-02	9.30E+00	1.05E-04	2.05E-03	0.00E+00	4.75E-04	8.27E-01	1.74E-03							
2019	Annual	Mon-Sun	2.27E+09	Signal Boa D		250	Constructi U	N	NHH	NP	Total	Total	Total	1.74E+01	2.55E+01	2.94E+02	1.38E-03	6.11E-03	1.27E-02	3.25E+00	3.65E-05	3.81E-04	0.00E+00	1.24E-04	4.80E-01	2.87E-03							
2019	Annual	Mon-Sun	2.27E+09	Trenchers D		15	Constructi U	P	NHH	NP	Total	Total	Total	4.34E+01	7.35E+01	2.84E+01	3.62E-04	1.90E-03	2.27E-03	3.11E-01	4.84E-06	8.85E-05	0.00E+00	3.26E-05	5.16E-02	1.32E-04							
2019	Annual	Mon-Sun	2.27E+09	Trenchers D		25	Constructi U	P	NHH	NP	Total	Total	Total	4.57E+01	7.74E+01	1.16E+02	1.54E-03	5.24E-03	9.71E-03	1.27E+00	1.62E-05	3.63E-04	0.00E+00	1.39E-04	1.35E-01	4.17E-04							
2019	Annual	Mon-Sun	2.27E+09	Trenchers D		50	Constructi U	P	NHH	NP	Total	Total	Total	1.74E+03	2.99E+03	4.57E+03	1.59E-01	5.34E-01	4.31E-01	4.92E+01	6.37E-04	3.53E-02	0.00E+00	1.44E-02	3.57E-01	4.25E-04							
2019	Annual	Mon-Sun	2.27E+09	Trenchers D		120	Constructi U	P	NHH	NP	Total	Total	Total	2.36E+03	4.06E+03	1.20E+04	1.83E-01	9.06E-01	1.13E+00	1.32E+02	1.54E-03	8.96E-02	0.00E+00	1.65E-02	4.47E-01	7.61E-04							
2019	Annual	Mon-Sun	2.27E+09	Trenchers D		175	Constructi U	P	NHH	NP	Total	Total	Total	2.58E+02	4.44E+02	2.91E+03	3.16E-02	1.87E-01	2.26E-01	3.19E+01	3.59E-04	1.25E-02	0.00E+00	2.85E-03	8.41E-01	1.62E-03							
2019	Annual	Mon-Sun	2.27E+09	Trenchers D		250	Constructi U	N	NHH	NP	Total	Total	Total	2.31E+01	3.98E+01	4.02E+02	3.36E-03	1.12E-02	2.84E-02	4.44E+00	4.99E-05	1.06E-03	0.00E+00	3.03E-04	5.63E-01	2.51E-03							
2019	Annual	Mon-Sun	2.27E+09	Trenchers D		500	Constructi U	N	NHH	NP	Total	Total	Total	2.95E+01	5.08E+01	7.17E+02	5.58E-03	2.31E-02	4.55E-02	7.90E+00	7.75E-05	1.72E-03	0.00E+00	5.03E-04	9.10E-01	3.05E-03							
2019	Annual	Mon-Sun	2.27E+09	Trenchers D		750	Constructi U	N	NHH	NP	Total	Total	Total	7.10E-01	1.22E+00	3.25E+01	2.54E-04	1.05E-03	2.11E-03	3.58E-01	3.60E-06	7.93E-05	0.00E+00	2.30E-05	1.71E+00	5.90E-03							
2019	Annual	Mon-Sun	2.27E+09	Bore/Drill D		15	Constructi U	P	NHH	P	Total	Total	Total	5.78E+00	1.29E+01	6.07E+00	7.74E-05	4.06E-04	4.85E-04	6.65E-02	1.03E-06	1.89E-05	0.00E+00	6.98E-06	6.31E-02	1.61E-04							
2019	Annual	Mon-Sun	2.27E+09	Bore/Drill D		25	Constructi U	P	NHH	P	Total	Total	Total	1.74E+01	3.86E+01	2.81E+01	3.72E-04	1.27E-03	2.35E-03	3.08E-01	3.91E-06	8.77E-05	0.00E+00	3.35E-05	6.58E-02	2.03E-04							
2019	Annual	Mon-Sun	2.27E+09	Bore/Drill D		50	Constructi U	P	NHH	P	Total	Total	Total	7.58E+01	1.74E+02	2.47E+02	1.74E-03	1.92E-02	1.58E-02	2.71E+00	3.50E-05	2.27E-04	0.00E+00	1.57E-04	2.21E-01	4.01E-04							
2019	Annual	Mon-Sun	2.27E+09	Bore/Drill D		120	Constructi U	P	NHH	P	Total	Total	Total	2.33E+02	5.35E+02	1.88E+03	7.84E-03	1.25E-01	6.69E-02	2.06E+01	2.42E-04	1.44E-03	0.00E+00	7.07E-04	4.66E-01	9.04E-04							
2019	Annual	Mon-Sun	2.27E+09	Bore/Drill D		175	Constructi U	P	NHH	P	Total	Total	Total	5.38E+01	1.24E+02	7.94E+02	2.70E-03	4.67E-02	1.45E-02	8.73E+00	9.82E-05	4.22E-04	0.00E+00	2.43E-04	7.54E-01	1.59E-03							
2019	Annual	Mon-Sun	2.27E+09	Bore/Drill D		250	Constructi U	N	NHH	P	Total	Total	Total	4.63E+01	1.07E+02	9.05E+02	2.67E-03	1.82E-02	1.06E-02	1.00E+01	1.13E-04	2.85E-04	0.00E+00	2.41E-04	3.42E-01	2.11E-03							
2019	Annual	Mon-Sun	2.27E+09	Bore/Drill D		500	Constructi U	N	NHH	P	Total	Total	Total	1.03E+02	2.37E+02	3.33E+03	9.82E-03	6.53E-02	3.83E-02	3.69E+01	3.62E-04	1.04E-03	0.00E+00	8.86E-04	5.51E-01	3.05E-03							
2019	Annual	Mon-Sun	2.27E+09	Bore/Drill D		750	Constructi U	N	NHH	P	Total	Total	Total	1.10E+01	2.53E+01	7.04E+02	2.08E-03	1.38E-02	8.14E-03	7.79E+00	7.83E-05	2.20E-04	0.00E+00	1.87E-04	1.09E+00	6.18E-03							
2019	Annual	Mon-Sun	2.27E+09	Bore/Drill D		1000	Constructi U	N	NHH	P	Total	Total	Total	1.85E+01	4.25E+01	1.78E+03	5.51E-03	3.49E-02	8.64E-02	1.97E+01	1.98E-04	1.30E-03	0.00E+00	4.97E-04	1.64E+00	9.33E-03							
2019	Annual	Mon-Sun	2.27E+09	Excavators D		25	Constructi U	P	NHH	NP	Total	Total	Total	2.14E+01	8.19E+01	6.13E+01	8.12E-04	2.77E-03	5.13E-03	6.73E-01	8.54E-06	1.92E-04	0.00E+00	7.32E-05	6.76E-02	2.08E-04							
2019	Annual	Mon-Sun	2.27E+09	Excavators D		50	Constructi U	P	NHH	NP	Total	Total	Total	8.06E+02	3.13E+03	3.60E+03	6.59E-02	3.87E-01	3.01E+01	3.91E+01	5.05E-04	1.48E-02	0.00E+00	5.95E-03	2.48E-01	3.23E-04							
2019	Annual	Mon-Sun	2.27E+09	Excavators D		120	Constructi U	P	NHH	NP	Total	Total	Total	2.19E+03	8.49E+03	2.85E+04	2.69E-01	2.12E+00	1.72E+00	3.12E+02	3.66E-03	1.04E-01	0.00E+00	2.42E-02	4.99E-01	8.63E-04							
2019	Annual	Mon-Sun	2.27E+09	Excavators D		175	Constructi U	P	NHH	NP	Total	Total	Total	4.22E+03	1.64E+04	8.37E+04	6.21E-01	5.43E+00	3.62E+00	9.18E+02	1.03E-02	1.85E-01	0.00E+00	5.60E-02	6.63E-01	1.26E-03							
2019	Annual	Mon-Sun	2.27E+09	Excavators D		250	Constructi U	N	NHH	NP	Total	Total	Total	1.72E+03	6.66E+03	4.78E+04	2.92E-01	1.10E+00	1.73E+00	5.28E+02	5.94E-03	5.87E-02	0.00E+00	2.64E-02	3.29E-01	1.79E-03							
2019	Annual	Mon-Sun	2.27E+09	Excavators D		500	Constructi U	N	NHH	NP	Total	Total	Total	1.24E+03	4.81E+03	5.08E+04	3.04E-01	1.11E+00	1.66E+00	5.61E+02	5.51E-03	6.00E-02	0.00E+00	2.74E-02	4.63E-01	2.28E-03							
2019	Annual	Mon-Sun	2.27E+09	Excavators D		750	Constructi U	N	NHH	NP	Total	Total	Total	5.56E+00	2.16E+01	3.78E+02	2.27E-03	8.28E-03	1.26E-02	4.18E+00	4.20E-05	4.50E-04	0.00E+00	2.04E-04	7.67E-01	3.89E-03							
2019	Annual	Mon-Sun	2.27E+09	Concrete/I/D		25	Constructi U	P	NHH	NP	Total	Total	Total	2.31E+00	3.76E+00	2.82E+00	3.73E-05	1.27E-04	2.36E-04	3.09E-02	3.92E-07	8.80E-06	0.00E+00	3.36E-06	6.78E-02	2.09E-04							
2019	Annual	Mon-Sun	2.27E+09	Concrete/I/D		50	Constructi U	P	NHH	NP	Total	Total	Total	2.02E+01	3.22E+01	4.46E+01	7.69E-04	3.97E-03	3.71E-03	4.86E-01	6.28E-06	2.08E-04	0.00E+00	6.94E-05	2.47E-01	3.90E-04							
2019	Annual	Mon-Sun	2.27E+09	Concrete/I/D		120	Constructi U	P	NHH	NP	Total	Total	Total	3.53E+01	5.61E+01	1.90E+02	1.62E-03	1.30E-02	1.26E-02	2.08E+00	2.44E-05	8.07E-04	0.00E+00	1.76E-04	4.63E-01	8.69E-04							
2019	Annual	Mon-Sun	2.27E+09	Concrete/I/D		175	Constructi U	P	NHH	NP	Total	Total	Total	1.16E+00	1.84E+00	1.34E+01	8.55E-05	7.96E-04	6.78E-04	1.47E-01	1.66E-06	3.34E-05	0.00E+00	7.42E-06	8.65E-01	1.80E-03							
2019	Annual	Mon-Sun	2.27E+09	Cement an D		15	Constructi U	P	NHH	NP	Total	Total	Total	2.96E+02	2.43E+02	7.01E+01	8.94E-04	4.69E-03	5.60E-03	1.76E-01	1.19E-05	2.19E-04	0.00E+00	8.06E-05	3.86E-02	9.83E-05							
2019	Annual	Mon-Sun	2.27E+09	Cement an D		25	Constructi U	P	NHH	NP	Total	Total	Total	2.66E+01	2.19E+01	1.75E+01	2.48E-04	8.17E-04	1.51E-03	1.92E-01	2.44E-06	6.64E-05	0.00E+00	2.24E-05	7.46E-02	2.23E-04							
2019	Annual	Mon-Sun	2.27E+09	Cranes D		50	Constructi U	P	NHH	P	Total	Total	Total	1.97E+01	6.90E+01	7.39E+01	2.02E-03	8.52E-03	6.74E-03	7.99E-01	1.03E-05	4.68E-04	0.00E+00	1.83E-04	2.47E-01	2.99E-04							
2019	Annual	Mon-Sun	2.27E+09	Cranes D		120	Constructi U	P	NHH	P	Total	Total	Total	2.16E+02	7.57E+02	1.73E+03	2.23E-02	1.31E-01	1.35E-01	1.90E+01	2.22E-04	1.03E-02	0.00E+00	2.01E-03	3.46E-01	5.88E-04							
2019	Annual	Mon-Sun	2.27E+09	Cranes D		175	Constructi U	P	NHH	P	Total	Total	Total	2.16E+02	7.57E+02	2.77E+03	2.64E-02	1.80E-01	1.71E-01	3.04E+01	3.42E-04	9.54E-03	0.00E+00	2.38E-03	4.76E-01	9.03E-04							
2019	Annual	Mon-Sun	2.27E+09	Cranes D		250	Constructi U	N	NHH	P	Total	Total	Total	4.18E+02	1.47E+03	7.45E+03	5.46E-02	1.82E-01	4.06E-01	8.22E+01	9.25E-04	1.39E-02	0.00E+00	4.92E-03	2.48E-01	1.26E-03							
2019	Annual	Mon-Sun	2.27E+09	Cranes D		500	Constructi U	N	NHH	P	Total	Total	Total	1.53E+02	5.38E+02	4.38E+03	3.07E-02	1.06E-01	2.11E-01	4.84E+01	4.75E-04	7.68E-03	0.00E+00	2.77E-03	3.95E-01	1.77E-03							
2019	Annual	Mon-Sun	2.27E+09	Cranes D		750	Constructi U	N	NHH	P	Total	Total	Total	2.31E+01	8.10E+01	1.11E+03	7.82E-03	2.69E-02	5.53E-02	1.23E+01	1.23E-04	1.98E-03	0.00E+00	7.06E-04	6.64E-01	3.04E-03							
2019	Annual	Mon-Sun	2.27E+09	Cranes D		9999	Constructi U	N	NHH	P	Total	Total	Total	2.90E+01	1.02E+02	4.47E+03	3.58E-02	1.16E-01	3.77E-01	4.93E+01	4.95E-04	9.97E-03	0.00E+00	3.23E-03	2.28E+00	9.75E-03							
2019	Annual	Mon-Sun	2.27E+09	Graders D		50	Constructi U	P	NHH	NP	Total	Total	Total	8.10E+00	2.10E+01	2.67E+01	6.48E-04	2.96E-03	2.34E-03	2.90E-01	3.74E-06	1.47E-04	0.00E+00	5.85E-05	2.81E-01	3.56E-04							
2019	Annual	Mon-Sun	2.27E+09	Graders D		120	Constructi U	P	NHH	NP	Total	Total	Total	5.40E+02	1.40E+03	4.81E+03	5.59E-02	3.46E-01	3.46E-01	5.26E+01	6.17E-04	2.48E-02	0.00E+00	5.04E-03	5.15E-01	8.79E-04							
2019	Annual	Mon-Sun	2.27E+09	Graders D		175	Constructi U	P	NHH	NP	Total	Total	Total	1.85E+03	4.80E+03	2.71E+04	2.36E-01	1.75E+00	1.51E+00	2.97E+02	3.34E-03	8.22E-02	0.00E+00	2.13E-02	7.28E-01	1.39E-03							
2019	Annual	Mon-Sun	2.27E+09	Graders D		250	Constructi U	N	NHH	NP	Total	Total	Total	1.15E+03	2.98E+03	2.32E+04	1.57E-01	5.54E-01	1.12E+00	2.56E+02	2.88E-03	3.82E-02	0.00E+00	1.42E-02	3.72E-01	1.93E-03							
2019	Annual	Mon-Sun	2.27E+09	Graders D		500	Constructi U	N	NHH	NP	Total	Total	Total	3.24E+01	8.42E+01	8.74E+02	5.68E-03	2.13E-02	3.76E-02	9.65E+00	9.47E-05	1.35E-03											

**Table C.19 CARB Offroad 2007 output**

used to calculate CO and SOx because Offroad2011 does not calculate CO and SOx

CY	Season	AvgDays	Code	Equipme nt	Fuel	MaxH P	Class	C/R	Pre	Hand	Port	County	Air Basin	Air Dist.	Populatio n	Activity	hr/day for	gal/day	ton/day	ton/day	ton/day	ton/day	ton/day	ton/day	ton/day	ton/day	ton/day	ton/day	ton/day	ton/day	ton/day	lb/hr/equi pment	lb/hr/equi pment
																	total populatio n	for total populatio n															
2019	Annual	Mon-Sun	2.27E+09	Rough Ter D		50	Constructi U	P	NHH	NP	Total	Total	Total	6.42E+01	1.99E+02	3.10E+02	5.73E-03	3.20E-02	2.63E-02	3.37E+00	4.35E-05	1.42E-03	0.00E+00	5.17E-04	3.22E-01	4.37E-04							
2019	Annual	Mon-Sun	2.27E+09	Rough Ter D		120	Constructi U	P	NHH	NP	Total	Total	Total	3.07E+03	9.53E+03	2.71E+04	2.56E-01	1.98E+00	1.73E+00	2.97E+02	3.49E-03	1.10E-01	0.00E+00	2.31E-02	4.15E-01	7.32E-04							
2019	Annual	Mon-Sun	2.27E+09	Rough Ter D		175	Constructi U	P	NHH	NP	Total	Total	Total	3.94E+02	1.22E+03	6.94E+03	5.15E-02	4.41E-01	3.26E-01	7.62E+01	8.57E-04	1.71E-02	0.00E+00	4.64E-03	7.22E-01	1.40E-03							
2019	Annual	Mon-Sun	2.27E+09	Rough Ter D		250	Constructi U	N	NHH	NP	Total	Total	Total	2.20E+01	6.81E+01	5.26E+02	3.17E-03	1.18E-02	2.10E-02	5.81E+00	6.54E-05	7.09E-04	0.00E+00	2.86E-04	3.47E-01	1.92E-03							
2019	Annual	Mon-Sun	2.27E+09	Rough Ter D		500	Constructi U	N	NHH	NP	Total	Total	Total	1.45E+01	4.48E+01	5.20E+02	3.06E-03	1.11E-02	1.87E-02	5.74E+00	5.64E-05	6.76E-04	0.00E+00	2.76E-04	4.97E-01	2.52E-03							
2019	Annual	Mon-Sun	2.27E+09	Rubber Tir D		25	Constructi U	P	NHH	NP	Total	Total	Total	8.10E+00	2.12E+01	1.64E+01	2.17E-04	7.40E-04	1.37E-03	1.80E-01	2.28E-06	5.12E-05	0.00E+00	1.96E-05	6.96E-02	2.15E-04							
2019	Annual	Mon-Sun	2.27E+09	Rubber Tir D		50	Constructi U	P	NHH	NP	Total	Total	Total	1.57E+02	4.19E+02	6.02E+02	1.41E-02	6.57E-02	5.25E-02	6.53E+00	8.44E-05	3.25E-03	0.00E+00	1.28E-03	3.13E-01	4.02E-04							
2019	Annual	Mon-Sun	2.27E+09	Rubber Tir D		120	Constructi U	P	NHH	NP	Total	Total	Total	4.28E+03	1.14E+04	3.07E+04	3.47E-01	2.28E+00	2.17E+00	3.36E+02	3.94E-03	1.54E-01	0.00E+00	3.13E-02	3.99E-01	6.90E-04							
2019	Annual	Mon-Sun	2.27E+09	Rubber Tir D		175	Constructi U	P	NHH	NP	Total	Total	Total	2.41E+03	6.43E+03	3.11E+04	2.65E-01	2.00E+00	1.70E+00	3.41E+02	3.84E-03	9.21E-02	0.00E+00	2.39E-02	6.22E-01	1.20E-03							
2019	Annual	Mon-Sun	2.27E+09	Rubber Tir D		250	Constructi U	N	NHH	NP	Total	Total	Total	2.40E+03	6.39E+03	4.31E+04	2.86E-01	1.02E+00	2.03E+00	4.76E+02	5.35E-03	6.95E-02	0.00E+00	2.58E-02	3.19E-01	1.67E-03							
2019	Annual	Mon-Sun	2.27E+09	Rubber Tir D		500	Constructi U	N	NHH	NP	Total	Total	Total	9.98E+02	2.66E+03	2.85E+04	1.82E-01	6.81E-01	1.20E+00	3.15E+02	3.09E-03	4.33E-02	0.00E+00	1.64E-02	5.12E-01	2.32E-03							
2019	Annual	Mon-Sun	2.27E+09	Rubber Tir D		750	Constructi U	N	NHH	NP	Total	Total	Total	1.43E+01	3.81E+01	8.38E+02	5.37E-03	2.00E-02	3.63E-02	9.25E+00	9.30E-05	1.29E-03	0.00E+00	4.85E-04	1.05E+00	4.88E-03							
2019	Annual	Mon-Sun	2.27E+09	Rubber Tir D		1000	Constructi U	N	NHH	NP	Total	Total	Total	1.54E+00	4.09E+00	1.10E+02	7.55E-04	2.78E-03	8.63E-03	1.21E+00	1.22E-05	2.21E-04	0.00E+00	6.81E-05	1.36E+00	5.97E-03							
2019	Annual	Mon-Sun	2.27E+09	Rubber Tir D		175	Constructi U	P	NHH	NP	Total	Total	Total	5.78E+00	2.57E+01	1.52E+02	2.04E-03	1.03E-02	1.37E-02	1.66E+00	1.87E-05	7.73E-04	0.00E+00	1.84E-04	8.15E-01	1.46E-03							
2019	Annual	Mon-Sun	2.27E+09	Rubber Tir D		250	Constructi U	N	NHH	NP	Total	Total	Total	1.42E+02	6.29E+02	5.24E+03	5.63E-02	1.71E-01	4.35E-01	5.76E+01	6.49E-04	1.76E-02	0.00E+00	5.08E-03	5.45E-01	2.06E-03							
2019	Annual	Mon-Sun	2.27E+09	Rubber Tir D		500	Constructi U	N	NHH	NP	Total	Total	Total	2.18E+02	9.68E+02	1.16E+04	1.16E-01	4.72E-01	8.77E-01	1.28E+02	1.26E-03	3.52E-02	0.00E+00	1.05E-02	9.76E-01	2.60E-03							
2019	Annual	Mon-Sun	2.27E+09	Rubber Tir D		750	Constructi U	N	NHH	NP	Total	Total	Total	1.57E+01	6.99E+01	1.27E+03	1.27E-02	5.12E-02	9.73E-02	1.39E+01	1.40E-04	3.86E-03	0.00E+00	1.14E-03	1.47E+00	4.01E-03							
2019	Annual	Mon-Sun	2.27E+09	Rubber Tir D		1000	Constructi U	N	NHH	NP	Total	Total	Total	1.07E+00	4.72E+00	1.27E+02	1.35E-03	5.60E-03	1.36E-02	1.40E+00	1.40E-05	4.21E-04	0.00E+00	1.21E-04	2.37E+00	5.95E-03							
2019	Annual	Mon-Sun	2.27E+09	Tractors/Lr D		25	Constructi U	P	NHH	NP	Total	Total	Total	1.63E+02	4.21E+02	3.04E+02	4.03E-03	1.37E-02	2.55E-02	3.34E+00	4.24E-05	9.66E-04	0.00E+00	6.36E-04	6.53E-02	2.01E-04							
2019	Annual	Mon-Sun	2.27E+09	Tractors/Lr D		50	Constructi U	P	NHH	NP	Total	Total	Total	9.75E+02	2.57E+03	3.58E+03	5.74E-02	3.59E-01	2.89E-01	3.89E+01	5.03E-04	1.32E-02	0.00E+00	5.18E-03	2.79E-01	3.92E-04							
2019	Annual	Mon-Sun	2.27E+09	Tractors/Lr D		120	Constructi U	P	NHH	NP	Total	Total	Total	1.30E+04	3.43E+04	8.10E+04	6.82E-01	5.85E+00	4.61E+00	8.87E+02	1.04E-02	2.65E-01	0.00E+00	6.16E-02	3.41E-01	6.06E-04							
2019	Annual	Mon-Sun	2.27E+09	Tractors/Lr D		175	Constructi U	P	NHH	NP	Total	Total	Total	9.73E+02	2.56E+03	1.18E+04	7.90E-02	7.48E-01	4.75E-01	1.30E+02	1.46E-03	2.39E-02	0.00E+00	7.13E-03	5.84E-01	1.14E-03							
2019	Annual	Mon-Sun	2.27E+09	Tractors/Lr D		250	Constructi U	N	NHH	NP	Total	Total	Total	3.15E+02	8.29E+02	6.44E+03	3.57E-02	1.43E-01	2.13E-01	7.11E+01	8.00E-04	7.21E-03	0.00E+00	3.22E-03	3.46E-01	1.93E-03							
2019	Annual	Mon-Sun	2.27E+09	Tractors/Lr D		500	Constructi U	N	NHH	NP	Total	Total	Total	5.08E+02	1.34E+03	2.09E+04	1.13E-01	4.48E-01	6.25E-01	2.30E+02	2.59E-03	2.25E-02	0.00E+00	1.02E-02	6.69E-01	3.88E-03							
2019	Annual	Mon-Sun	2.27E+09	Tractors/Lr D		750	Constructi U	N	NHH	NP	Total	Total	Total	7.16E+01	1.89E+02	4.41E+03	2.40E-02	9.46E-02	1.35E-01	4.87E+01	5.48E-04	4.80E-03	0.00E+00	1.16E-03	1.00E+00	5.82E-03							
2019	Annual	Mon-Sun	2.27E+09	Crawler Tr D		50	Constructi U	P	NHH	NP	Total	Total	Total	8.10E+00	2.31E+01	2.66E+01	8.69E-04	3.26E-03	2.50E-03	2.87E-01	3.71E-06	1.90E-04	0.00E+00	7.84E-05	2.82E-01	3.21E-04							
2019	Annual	Mon-Sun	2.27E+09	Crawler Tr D		120	Constructi U	P	NHH	NP	Total	Total	Total	4.59E+03	1.31E+04	3.94E+04	5.79E-01	3.04E+00	3.42E+00	4.30E+02	5.05E-03	2.67E-01	0.00E+00	5.23E-02	4.65E-01	7.71E-04							
2019	Annual	Mon-Sun	2.27E+09	Crawler Tr D		175	Constructi U	P	NHH	NP	Total	Total	Total	1.55E+03	4.43E+03	2.45E+04	2.64E-01	1.62E+00	1.73E+00	2.68E+02	3.02E-03	9.67E-02	0.00E+00	2.38E-02	7.31E-01	1.36E-03							
2019	Annual	Mon-Sun	2.27E+09	Crawler Tr D		250	Constructi U	N	NHH	NP	Total	Total	Total	1.34E+03	3.81E+03	2.86E+04	2.39E-01	7.73E-01	1.81E+00	3.16E+02	3.55E-03	6.63E-02	0.00E+00	2.16E-02	4.06E-01	1.87E-03							
2019	Annual	Mon-Sun	2.27E+09	Crawler Tr D		500	Constructi U	N	NHH	NP	Total	Total	Total	9.16E+02	2.61E+03	3.06E+04	2.42E-01	9.01E-01	1.74E+00	3.38E+02	3.31E-03	6.54E-02	0.00E+00	2.18E-02	6.91E-01	2.54E-03							
2019	Annual	Mon-Sun	2.27E+09	Crawler Tr D		750	Constructi U	N	NHH	NP	Total	Total	Total	9.47E+00	2.70E+01	5.68E+02	4.50E-03	1.67E-02	3.31E-02	6.26E+00	6.29E-05	1.23E-03	0.00E+00	4.06E-04	1.24E+00	4.67E-03							
2019	Annual	Mon-Sun	2.27E+09	Crawler Tr D		1000	Constructi U	N	NHH	NP	Total	Total	Total	1.47E+00	2.69E+01	8.04E+02	6.86E-03	2.59E-02	7.35E-02	8.85E+00	8.90E-05	2.07E-03	0.00E+00	6.19E-04	1.92E+00	6.61E-03							
2019	Annual	Mon-Sun	2.27E+09	Skid Steer D		25	Constructi U	P	NHH	NP	Total	Total	Total	1.11E+03	5.54E+03	1.59E+03	2.20E-02	7.33E-02	1.36E-01	1.75E+01	2.22E-04	5.78E-03	0.00E+00	1.98E-03	5.78E-02	1.75E-04							
2019	Annual	Mon-Sun	2.27E+09	Skid Steer D		50	Constructi U	P	NHH	NP	Total	Total	Total	1.01E+04	2.35E+04	2.74E+04	2.87E-01	2.37E+00	2.01E+00	2.99E+02	3.87E-03	6.26E-02	0.00E+00	2.59E-02	2.02E-01	3.30E-04							
2019	Annual	Mon-Sun	2.27E+09	Skid Steer D		120	Constructi U	P	NHH	NP	Total	Total	Total	5.28E+03	1.23E+04	2.39E+04	1.42E-01	1.64E+00	1.10E+00	2.63E+02	3.08E-03	4.83E-02	0.00E+00	1.29E-02	2.67E-01	5.01E-04							
2019	Annual	Mon-Sun	2.27E+09	Off-Highw D		120	Constructi U	P	NHH	NP	Total	Total	Total	5.78E-01	1.76E+00	7.56E+00	1.35E-04	6.01E-04	7.84E-04	8.25E-02	9.67E-07	6.38E-05	0.00E+00	1.22E-05	6.83E-01	1.10E-03							
2019	Annual	Mon-Sun	2.27E+09	Off-Highw D		175	Constructi U	P	NHH	NP	Total	Total	Total	7.07E+02	2.15E+03	1.28E+04	1.65E-01	8.66E-01	1.12E+00	1.40E+02	1.58E-03	6.33E-02	0.00E+00	1.49E-02	8.05E-01	1.47E-03							
2019	Annual	Mon-Sun	2.27E+09	Off-Highw D		250	Constructi U	N	NHH	NP	Total	Total	Total	6.69E+02	2.04E+03	1.20E+04	1.23E-01	3.80E-01	9.69E-01	1.33E+02	1.49E-03	3.85E-02	0.00E+00	1.11E-02	3.73E-01	1.47E-03							
2019	Annual	Mon-Sun	2.27E+09	Off-Highw D		500	Constructi U	N	NHH	NP	Total	Total	Total	5.94E+01	1.81E+02	4.66E+03	4.45E-02	1.79E-01	3.47E-01	5.13E+01	5.16E-04	1.36E-02	0.00E+00	4.01E-03	1.98E+00	5.71E-03							
2019	Annual	Mon-Sun	2.27E+09	Off-Highw D		1000	Constructi U	N	NHH	NP	Total	Total	Total	6.27E+00	1.91E+01	7.06E+02	7.13E-03	2.96E-02	7.38E-02	7.76E+00	7.80E-05	2.25E-03	0.00E+00	6.43E-04	3.10E+00	8.18E-03							
2019	Annual	Mon-Sun	2.27E+09	Dumpers/TD		25	Constructi U	P	NHH	NP	Total	Total	Total	1.39E+01	2.52E+01	8.74E+00	1.16E-04	3.95E-04	7.33E-04	9.60E-02	1.22E-06	2.82E-05	0.00E+00	1.05E-05	3.14E-02	9.67E-05							
2019	Annual	Mon-Sun	2.27E+09	Other Cons D		15	Constructi U	P	NHH	NP	Total	Total	Total	1.91E+02	3.62E+02	1.67E+02	2.13E-03	1.12E-02	1.33E-02	1.83E+00	2.85E-05	5.21E-04	0.00E+00	1.92E-04	6.17E-02	1.57E-04							
2019	Annual	Mon-Sun	2.27E+09	Other Cons D		25	Constructi U	P	NHH	NP	Total	Total	Total	3.24E+01	6.13E+01	3.69E+01	4.88E-04	1.67E-03	3.08E-03	4.05E-01	5.13E-06	1.15E-04	0.00E+00	4.40E-05	5.44E-02	1.68E-04							
2019	Annual	Mon-Sun	2.27E+09	Other Cons D		50	Constructi U	P	NHH	NP	Total	Total	Total	4.97E+01	9.53E+01	1.22E+02	1.73E-03	1.09E-02	9.6														

**Table C.19 CARB Offroad 2007 output**

used to calculate CO and SOx because Offroad2011 does not calculate CO and SOx

CY	Season	AvgDays	Code	Equipme nt	Fuel	MaxH P	Class	C/R	Pre	Hand	Port	County	Air Basin	Air Dist.	Populatio n	Activity	Consump tion	ROG Exhaust	CO Exhaust	NOx Exhaust	CO2 Exhaust	SO2 Exhaust	PM Exhaust	N2O Exhaust	CH4 Exhaust	lb/hr/equi pment	
																										CO	SOx
2020	Annual	Mon-Sun	2.27E+09	Rollers	D	120	Constructi U	P	NHH	NP	Total	Total	Total	2.48E+03	4.76E+03	1.28E+04	1.37E-01	9.21E-01	9.03E-01	1.40E+02	1.65E-03	6.42E-02	0.00E+00	1.24E-02	3.87E-01	6.91E-04	
2020	Annual	Mon-Sun	2.27E+09	Rollers	D	175	Constructi U	P	NHH	NP	Total	Total	Total	9.97E+02	1.91E+03	9.42E+03	7.40E-02	5.84E-01	5.10E-01	1.03E+02	1.16E-03	2.73E-02	0.00E+00	6.68E-03	6.11E-01	1.22E-03	
2020	Annual	Mon-Sun	2.27E+09	Rollers	D	250	Constructi U	N	NHH	NP	Total	Total	Total	1.41E+02	2.71E+02	1.88E+03	1.14E-02	4.34E-02	8.92E-02	2.08E+01	2.34E-04	3.03E-03	0.00E+00	1.03E-03	3.20E-01	1.72E-03	
2020	Annual	Mon-Sun	2.27E+09	Rollers	D	500	Constructi U	N	NHH	NP	Total	Total	Total	9.91E+01	1.90E+02	1.89E+03	1.09E-02	4.38E-02	7.94E-02	2.08E+01	2.05E-04	2.85E-03	0.00E+00	9.88E-04	4.60E-01	2.15E-03	
2020	Annual	Mon-Sun	2.27E+09	Scrapers	D	120	Constructi U	P	NHH	NP	Total	Total	Total	2.29E+01	6.95E+01	2.98E+02	4.23E-03	2.30E-02	2.49E-02	3.26E+00	3.83E-05	1.91E+03	0.00E+00	3.82E-04	6.61E-01	1.10E-03	
2020	Annual	Mon-Sun	2.27E+09	Scrapers	D	175	Constructi U	P	NHH	NP	Total	Total	Total	2.09E+02	6.36E+02	4.30E+03	4.45E-02	2.84E-01	2.87E-01	4.71E+01	5.30E-04	1.60E-02	0.00E+00	4.02E-03	8.91E-01	1.66E-03	
2020	Annual	Mon-Sun	2.27E+09	Scrapers	D	250	Constructi U	N	NHH	NP	Total	Total	Total	2.04E+02	6.20E+02	5.88E+03	4.72E-02	1.56E-01	3.52E-01	6.49E+01	7.30E-04	1.28E-02	0.00E+00	4.26E-03	5.04E-01	2.35E-03	
2020	Annual	Mon-Sun	2.27E+09	Scrapers	D	500	Constructi U	N	NHH	NP	Total	Total	Total	5.62E+02	1.71E+03	2.49E+04	1.89E-01	7.21E-01	1.33E+00	2.74E+02	2.69E-03	4.98E-02	0.00E+00	1.70E-02	8.45E-01	3.15E-03	
2020	Annual	Mon-Sun	2.27E+09	Scrapers	D	750	Constructi U	N	NHH	NP	Total	Total	Total	1.89E+01	5.72E+01	1.44E+03	1.10E-02	4.17E-02	7.93E-02	1.59E+01	1.60E-04	2.93E-03	0.00E+00	9.90E-04	1.46E+00	5.58E-03	
2020	Annual	Mon-Sun	2.27E+09	Paving Eq	D	25	Constructi U	P	NHH	NP	Total	Total	Total	1.53E+01	3.47E+01	1.99E+01	2.64E-04	9.01E-04	1.67E-03	2.19E-01	2.78E-06	6.23E-05	0.00E+00	2.38E-05	5.19E-02	1.60E-04	
2020	Annual	Mon-Sun	2.27E+09	Paving Eq	D	50	Constructi U	P	NHH	NP	Total	Total	Total	1.29E+01	2.95E+01	3.27E+01	1.04E-03	3.80E-03	3.53E-01	4.57E-06	2.31E-04	0.00E+00	9.35E-05	2.57E-01	3.09E-04		
2020	Annual	Mon-Sun	2.27E+09	Paving Eq	D	120	Constructi U	P	NHH	NP	Total	Total	Total	1.86E+02	4.26E+02	1.06E+03	1.51E-02	8.00E-02	9.10E-02	1.16E+01	1.36E-04	7.17E-03	0.00E+00	1.36E-03	3.76E-01	6.39E-04	
2020	Annual	Mon-Sun	2.27E+09	Paving Eq	D	175	Constructi U	P	NHH	NP	Total	Total	Total	8.74E+01	2.00E+02	9.21E+02	9.44E-03	5.94E-02	6.40E-02	1.01E+01	1.14E-04	3.60E-03	0.00E+00	8.52E-04	5.94E-01	1.14E-03	
2020	Annual	Mon-Sun	2.27E+09	Paving Eq	D	250	Constructi U	N	NHH	NP	Total	Total	Total	2.46E+01	5.64E+01	3.12E+02	2.43E-03	8.16E-03	1.95E-02	3.45E+00	3.88E-05	7.02E-04	0.00E+00	2.20E-04	2.89E-01	1.37E-03	
2020	Annual	Mon-Sun	2.27E+09	Surfacing ID	D	50	Constructi U	P	NHH	NP	Total	Total	Total	1.17E+01	1.45E+01	9.41E+00	1.92E-04	8.64E-04	7.76E-04	1.02E-01	1.32E-06	4.59E-05	0.00E+00	1.73E-05	1.19E-01	1.82E-04	
2020	Annual	Mon-Sun	2.27E+09	Surfacing ID	D	120	Constructi U	P	NHH	NP	Total	Total	Total	2.35E+00	2.91E+00	8.45E+00	8.27E-05	5.85E-04	5.86E-04	9.25E-02	1.09E-06	3.94E-05	0.00E+00	7.46E-06	4.02E-01	7.47E-04	
2020	Annual	Mon-Sun	2.27E+09	Surfacing ID	D	175	Constructi U	P	NHH	NP	Total	Total	Total	1.76E+00	2.18E+00	8.50E+00	5.99E-05	5.08E-04	4.54E-04	9.34E-02	1.05E-06	2.29E-05	0.00E+00	5.40E-06	4.66E-01	9.64E-04	
2020	Annual	Mon-Sun	2.27E+09	Surfacing ID	D	250	Constructi U	N	NHH	NP	Total	Total	Total	3.52E+00	4.36E+00	2.66E+01	1.42E-04	6.00E-04	1.25E-03	2.94E-01	3.30E-06	4.10E-05	0.00E+00	1.28E-05	2.75E-01	1.52E-03	
2020	Annual	Mon-Sun	2.27E+09	Surfacing ID	D	500	Constructi U	N	NHH	NP	Total	Total	Total	2.93E+01	3.63E+01	6.36E+02	1.83E-03	8.58E-03	1.52E-02	4.01E+00	3.94E-05	5.22E-04	0.00E+00	1.65E-04	4.72E-01	2.17E-03	
2020	Annual	Mon-Sun	2.27E+09	Surfacing ID	D	750	Constructi U	N	NHH	NP	Total	Total	Total	3.60E+00	4.46E+00	6.99E+01	3.56E-04	1.65E-03	3.03E-03	7.72E-01	7.77E-06	1.02E-04	0.00E+00	3.21E-05	7.41E-01	3.49E-03	
2020	Annual	Mon-Sun	2.27E+09	Signal Boa	D	15	Constructi U	P	NHH	NP	Total	Total	Total	1.65E+03	3.40E+03	9.56E+02	1.22E-02	6.39E-02	7.63E-02	1.05E+01	1.63E-04	2.98E-03	0.00E+00	1.10E-03	3.76E-02	9.59E-05	
2020	Annual	Mon-Sun	2.27E+09	Signal Boa	D	50	Constructi U	P	NHH	NP	Total	Total	Total	8.21E+00	1.20E+01	2.00E+01	3.02E-04	1.70E-03	1.58E-03	2.18E-01	2.82E-06	7.90E-05	0.00E+00	2.73E-05	2.83E-01	4.67E-04	
2020	Annual	Mon-Sun	2.27E+09	Signal Boa	D	120	Constructi U	P	NHH	NP	Total	Total	Total	1.34E+02	1.97E+02	7.20E+02	5.49E-03	4.87E-02	4.36E-02	7.90E+00	9.26E-05	2.60E-03	0.00E+00	4.95E-04	4.94E-01	9.40E-04	
2020	Annual	Mon-Sun	2.27E+09	Signal Boa	D	175	Constructi U	P	NHH	NP	Total	Total	Total	8.33E+01	1.22E+02	8.59E+02	4.95E-03	5.05E-02	3.83E-02	9.43E+00	1.06E-04	1.84E-03	0.00E+00	4.47E-04	8.27E-01	1.74E-03	
2020	Annual	Mon-Sun	2.27E+09	Signal Boa	D	250	Constructi U	N	NHH	NP	Total	Total	Total	1.76E+01	2.58E+01	2.98E+02	1.32E-03	6.15E-03	1.13E-02	3.29E+00	3.70E-05	3.43E-04	0.00E+00	1.19E-04	4.76E-01	2.87E-03	
2020	Annual	Mon-Sun	2.27E+09	Trenchers	D	15	Constructi U	P	NHH	NP	Total	Total	Total	4.40E+01	7.46E+01	2.88E+01	3.67E-04	1.93E-03	2.30E-03	3.15E-01	4.91E-06	8.98E-05	0.00E+00	3.31E-05	5.16E-02	1.32E-04	
2020	Annual	Mon-Sun	2.27E+09	Trenchers	D	25	Constructi U	P	NHH	NP	Total	Total	Total	4.63E+01	7.85E+01	1.18E+02	1.56E-03	5.32E-03	9.85E-03	1.29E+00	1.64E-05	3.68E-04	0.00E+00	1.41E-04	1.35E-01	4.17E-04	
2020	Annual	Mon-Sun	2.27E+09	Trenchers	D	50	Constructi U	P	NHH	NP	Total	Total	Total	1.76E+03	3.04E+03	4.63E+03	1.50E-01	5.30E-01	4.25E-01	4.99E+01	6.45E-04	3.31E-02	0.00E+00	1.35E-02	3.49E-01	4.25E-04	
2020	Annual	Mon-Sun	2.27E+09	Trenchers	D	120	Constructi U	P	NHH	NP	Total	Total	Total	2.39E+03	4.11E+03	1.22E+04	1.75E-01	9.13E-01	1.07E+00	1.33E+02	1.56E-03	8.38E-02	0.00E+00	1.57E-02	4.44E-01	7.61E-04	
2020	Annual	Mon-Sun	2.27E+09	Trenchers	D	175	Constructi U	P	NHH	NP	Total	Total	Total	2.62E+02	4.50E+02	2.95E+03	3.03E-02	1.89E-01	2.12E-01	3.24E+01	3.64E-04	1.17E-02	0.00E+00	2.73E-03	8.39E-01	1.62E-03	
2020	Annual	Mon-Sun	2.27E+09	Trenchers	D	250	Constructi U	N	NHH	NP	Total	Total	Total	2.35E+01	4.04E+01	4.08E+02	3.23E-03	1.10E-02	2.65E-02	4.50E+00	5.06E-05	9.83E-04	0.00E+00	2.91E-04	5.47E-01	2.51E-03	
2020	Annual	Mon-Sun	2.27E+09	Trenchers	D	500	Constructi U	N	NHH	NP	Total	Total	Total	2.99E+01	5.15E+01	7.26E+02	5.38E-03	2.24E-02	4.24E-02	8.01E+00	7.86E-05	1.60E-03	0.00E+00	4.86E-04	8.70E-01	3.05E-03	
2020	Annual	Mon-Sun	2.27E+09	Trenchers	D	750	Constructi U	N	NHH	NP	Total	Total	Total	7.20E-01	1.24E+00	3.30E+01	2.45E-04	1.02E-03	1.97E-03	3.63E-01	3.65E-06	7.37E-05	0.00E+00	2.21E-05	1.64E+00	5.90E-03	
2020	Annual	Mon-Sun	2.27E+09	Bore/Drill	D	15	Constructi U	P	NHH	P	Total	Total	Total	5.87E+00	1.30E+01	6.16E+00	7.85E-05	4.12E-04	4.91E-04	6.74E-02	1.05E-06	1.92E-05	0.00E+00	7.08E-06	6.31E-02	1.61E-04	
2020	Annual	Mon-Sun	2.27E+09	Bore/Drill	D	25	Constructi U	P	NHH	P	Total	Total	Total	1.76E+01	3.91E+01	2.85E+01	3.77E-04	1.29E-03	2.38E-03	3.13E-01	3.97E-06	8.90E-05	0.00E+00	3.40E-05	6.58E-02	2.03E-04	
2020	Annual	Mon-Sun	2.27E+09	Bore/Drill	D	50	Constructi U	P	NHH	P	Total	Total	Total	7.68E+01	1.77E+02	2.50E+02	1.73E-03	1.95E-02	1.55E-02	2.74E+00	3.54E-05	1.73E-04	0.00E+00	1.56E-04	2.20E-01	4.01E-04	
2020	Annual	Mon-Sun	2.27E+09	Bore/Drill	D	120	Constructi U	P	NHH	P	Total	Total	Total	2.36E+02	5.43E+02	1.90E+03	7.59E-03	1.26E-01	6.31E-02	2.09E+01	2.45E-04	1.08E-03	0.00E+00	6.85E-04	4.66E-01	9.04E-04	
2020	Annual	Mon-Sun	2.27E+09	Bore/Drill	D	175	Constructi U	P	NHH	P	Total	Total	Total	5.46E+01	1.26E+02	8.04E+02	2.52E-03	4.73E-02	1.17E-02	8.85E+00	9.95E-05	3.18E-04	0.00E+00	2.27E-04	7.54E-01	1.59E-03	
2020	Annual	Mon-Sun	2.27E+09	Bore/Drill	D	250	Constructi U	N	NHH	P	Total	Total	Total	4.69E+01	1.08E+02	9.17E+02	2.56E-03	1.85E-02	8.72E-03	1.01E+01	1.14E-04	2.36E-04	0.00E+00	2.31E-04	3.42E-01	2.11E-03	
2020	Annual	Mon-Sun	2.27E+09	Bore/Drill	D	500	Constructi U	N	NHH	P	Total	Total	Total	1.04E+													



Table C.19 CARB Offroad 2007 output

used to calculate CO and SOx because Offroad2011 does not calculate CO and SOx

CY	Season	AvgDays	Code	Equipment	Fuel	MaxHP	Class	C/R	Pre	Hand	Port	County	Air Basin	Air Dist.	Population	Activity	hr/day for	gal/day															lb/hr/equi	lb/hr/equi
																	total	for total	ton/day	ton/day	ton/day	ton/day	ton/day	ton/day	ton/day	ton/day	ton/day	ton/day	ton/day	ton/day	ton/day	ton/day	ton/day	ton/day
2020	Annual	Mon-Sun	2.27E+09	Cranes	D	175	Constructio	U	P	NHH	P	Total	Total	Total	2.19E+02	7.67E+02	2.81E+03	2.48E-02	1.82E-01	1.56E-01	3.08E+01	3.47E-04	8.56E-03	0.00E+00	2.24E-03	4.75E-01	9.03E-04							
2020	Annual	Mon-Sun	2.27E+09	Cranes	D	250	Constructio	U	N	NHH	P	Total	Total	Total	4.24E+02	1.49E+03	7.55E+03	5.24E-02	1.81E-01	3.68E-01	8.33E+01	9.38E-04	1.27E-02	0.00E+00	4.72E-03	2.44E-01	1.26E-03							
2020	Annual	Mon-Sun	2.27E+09	Cranes	D	500	Constructio	U	N	NHH	P	Total	Total	Total	1.55E+02	5.45E+02	4.44E+03	2.96E-02	1.05E-01	1.92E-01	4.91E+01	4.81E-04	7.00E-03	0.00E+00	2.67E-03	3.84E-01	1.77E-03							
2020	Annual	Mon-Sun	2.27E+09	Cranes	D	750	Constructio	U	N	NHH	P	Total	Total	Total	2.34E+01	8.21E+01	1.13E+03	7.54E-03	2.65E-02	5.01E-02	1.24E+01	1.25E-04	1.80E-03	0.00E+00	6.80E-04	6.45E-01	3.04E-03							
2020	Annual	Mon-Sun	2.27E+09	Cranes	D	9999	Constructio	U	N	NHH	P	Total	Total	Total	2.94E+01	1.03E+02	4.53E+03	3.45E-02	1.13E-01	3.63E-01	5.00E+01	5.02E-04	9.25E-03	0.00E+00	3.11E-03	2.19E+00	9.75E-03							
2020	Annual	Mon-Sun	2.27E+09	Graders	D	50	Constructio	U	P	NHH	NP	Total	Total	Total	8.21E+00	2.13E+01	2.71E+01	6.00E-04	2.94E-03	2.30E-03	2.93E-01	3.79E-06	1.32E-04	0.00E+00	5.41E-05	2.76E-01	3.56E-04							
2020	Annual	Mon-Sun	2.27E+09	Graders	D	120	Constructio	U	P	NHH	NP	Total	Total	Total	5.48E+02	1.42E+03	4.87E+03	5.24E-02	3.62E-01	3.25E-01	5.33E+01	6.25E-04	2.21E-02	0.00E+00	4.73E-03	5.09E-01	8.79E-04							
2020	Annual	Mon-Sun	2.27E+09	Graders	D	175	Constructio	U	P	NHH	NP	Total	Total	Total	1.87E+03	4.86E+03	2.74E+04	2.23E-01	1.77E+00	1.37E+00	3.01E+02	3.39E-03	7.36E-02	0.00E+00	2.01E-02	7.28E-01	1.39E-03							
2020	Annual	Mon-Sun	2.27E+09	Graders	D	250	Constructio	U	N	NHH	NP	Total	Total	Total	1.16E+03	3.02E+03	2.35E+04	1.51E-01	5.55E-01	1.01E+00	2.59E+02	2.92E-03	3.46E-02	0.00E+00	1.36E-02	3.68E-01	1.93E-03							
2020	Annual	Mon-Sun	2.27E+09	Graders	D	500	Constructio	U	N	NHH	NP	Total	Total	Total	3.29E+01	8.53E+01	8.86E+02	5.47E-03	2.12E-02	3.40E-02	9.78E+00	9.60E-05	1.23E-03	0.00E+00	4.94E-04	4.96E-01	2.25E-03							
2020	Annual	Mon-Sun	2.27E+09	Graders	D	750	Constructio	U	N	NHH	NP	Total	Total	Total	3.60E-01	9.34E-01	2.05E+01	1.27E-04	4.90E-04	8.13E-04	2.27E-01	2.28E-06	2.90E-05	0.00E+00	1.15E-05	1.05E+00	4.88E-03							
2020	Annual	Mon-Sun	2.27E+09	Off-High	D	175	Constructio	U	P	NHH	NP	Total	Total	Total	3.81E+01	2.07E+02	1.18E+03	8.66E-03	7.79E-02	4.72E-02	1.29E+01	1.46E-04	2.42E-03	0.00E+00	7.81E-04	7.53E-01	1.41E-03							
2020	Annual	Mon-Sun	2.27E+09	Off-High	D	250	Constructio	U	N	NHH	NP	Total	Total	Total	2.82E+02	1.53E+03	1.15E+04	7.08E-02	2.68E-01	3.85E-01	1.27E+02	1.43E-03	1.32E-02	0.00E+00	6.39E-03	3.51E-01	1.87E-03							
2020	Annual	Mon-Sun	2.27E+09	Off-High	D	500	Constructio	U	N	NHH	NP	Total	Total	Total	3.97E+02	2.15E+03	2.65E+04	1.60E-01	5.86E-01	8.04E-01	2.93E+02	2.87E-03	2.94E-02	0.00E+00	1.44E-02	5.44E-01	2.67E-03							
2020	Annual	Mon-Sun	2.27E+09	Off-High	D	750	Constructio	U	N	NHH	NP	Total	Total	Total	7.55E+01	4.10E+02	8.19E+03	4.95E-02	1.81E-01	2.53E-01	9.05E+01	9.10E-04	9.14E-03	0.00E+00	4.47E-03	8.82E-01	4.44E-03							
2020	Annual	Mon-Sun	2.27E+09	Off-High	D	1000	Constructio	U	N	NHH	NP	Total	Total	Total	3.54E+01	1.92E+02	5.43E+03	3.47E-02	1.24E-01	3.74E-01	6.00E+01	6.03E-04	8.67E-03	0.00E+00	3.13E-03	1.29E+00	6.28E-03							
2020	Annual	Mon-Sun	2.27E+09	Crushing/PD	D	50	Constructio	P	NHH	P	Total	Total	Total	9.39E+01	2.46E+02	4.97E+02	9.01E-03	4.96E-02	4.13E-02	5.40E+00	6.99E-05	2.22E-03	0.00E+00	8.13E-04	4.03E-01	5.69E-04								
2020	Annual	Mon-Sun	2.27E+09	Crushing/PD	D	120	Constructio	U	P	NHH	P	Total	Total	Total	2.65E+02	6.93E+02	2.63E+03	2.40E-02	1.89E-01	1.65E-01	2.88E+01	3.38E-04	1.05E-02	0.00E+00	2.16E-03	5.44E-01	9.74E-03							
2020	Annual	Mon-Sun	2.27E+09	Crushing/PD	D	175	Constructio	U	P	NHH	P	Total	Total	Total	1.12E+02	2.93E+02	2.23E+03	1.59E-02	1.40E-01	1.03E-01	2.45E+01	2.76E-04	5.39E-03	0.00E+00	1.43E-03	9.51E-01	1.88E-03							
2020	Annual	Mon-Sun	2.27E+09	Crushing/PD	D	250	Constructio	U	N	NHH	P	Total	Total	Total	1.11E+01	2.92E+01	2.32E+02	1.81E-03	7.06E-03	1.26E-02	3.57E+00	4.01E-05	4.11E-04	0.00E+00	1.64E-04	4.84E-01	2.75E-03							
2020	Annual	Mon-Sun	2.27E+09	Crushing/PD	D	500	Constructio	U	N	NHH	P	Total	Total	Total	6.28E+01	1.64E+02	2.78E+03	1.52E-02	5.82E-02	9.17E-02	3.07E+01	3.01E-04	3.41E-03	0.00E+00	1.37E-03	7.09E-01	3.66E-03							
2020	Annual	Mon-Sun	2.27E+09	Crushing/PD	D	750	Constructio	U	N	NHH	P	Total	Total	Total	6.00E-01	1.57E+00	4.19E+01	2.29E-04	8.72E-04	1.94E-03	4.62E-01	4.65E-06	5.15E-05	0.00E+00	2.06E-05	1.12E+00	5.92E-03							
2020	Annual	Mon-Sun	2.27E+09	Crushing/PD	D	9999	Constructio	U	N	NHH	P	Total	Total	Total	6.00E-01	1.57E+00	9.30E+01	5.96E-04	2.08E-03	6.68E-03	1.03E+00	1.03E-05	1.61E-04	0.00E+00	5.37E-05	2.65E+00	1.31E-02							
2020	Annual	Mon-Sun	2.27E+09	Rough Ter D	D	50	Constructio	P	NHH	NP	Total	Total	Total	6.51E+01	2.02E+02	3.14E+02	5.24E-03	3.20E-02	2.58E-02	3.41E+00	4.41E-05	1.23E-03	0.00E+00	4.73E-04	3.17E-01	4.37E-04								
2020	Annual	Mon-Sun	2.27E+09	Rough Ter D	D	120	Constructio	P	NHH	NP	Total	Total	Total	3.12E+03	9.66E+03	2.75E+04	2.39E-01	2.00E+00	1.61E+00	3.01E+02	3.54E-03	9.50E-02	0.00E+00	2.16E-02	4.14E-01	7.32E-04								
2020	Annual	Mon-Sun	2.27E+09	Rough Ter D	D	175	Constructio	U	P	NHH	NP	Total	Total	Total	3.99E+02	1.24E+03	7.04E+03	4.87E-02	4.47E-01	2.91E-01	7.72E+01	8.69E-04	1.52E-02	0.00E+00	4.39E-03	7.22E-01	1.40E-03							
2020	Annual	Mon-Sun	2.27E+09	Rough Ter D	D	250	Constructio	U	N	NHH	NP	Total	Total	Total	2.23E+01	6.91E+01	5.34E+02	3.04E-03	1.19E-02	1.86E-02	5.89E+00	6.63E-05	6.29E-04	0.00E+00	2.74E-04	3.44E-01	1.92E-03							
2020	Annual	Mon-Sun	2.27E+09	Rough Ter D	D	500	Constructio	U	N	NHH	NP	Total	Total	Total	1.47E+01	4.54E+01	5.27E+02	2.94E-03	1.12E-02	1.65E-02	5.82E+00	5.72E-05	6.02E-04	0.00E+00	2.66E-04	4.93E-01	2.52E-03							
2020	Annual	Mon-Sun	2.27E+09	Rubber Tir D	D	25	Constructio	U	P	NHH	NP	Total	Total	Total	8.21E+00	2.16E+01	1.66E+01	2.20E-04	7.50E-04	1.39E-03	1.82E-01	2.31E-06	5.19E-05	0.00E+00	1.98E-05	6.96E-02	2.15E-04							
2020	Annual	Mon-Sun	2.27E+09	Rubber Tir D	D	50	Constructio	U	P	NHH	NP	Total	Total	Total	1.60E+02	4.25E+02	6.10E+02	1.31E-02	6.54E-02	5.15E-02	6.62E+00	8.55E-05	2.90E-03	0.00E+00	1.18E-03	3.08E-01	4.02E-04							
2020	Annual	Mon-Sun	2.27E+09	Rubber Tir D	D	120	Constructio	U	P	NHH	NP	Total	Total	Total	4.34E+03	1.16E+04	3.11E+04	3.25E-01	2.30E+00	2.04E+00	3.40E+02	3.99E-03	1.37E-01	0.00E+00	2.93E-02	3.97E-01	6.90E-04							
2020	Annual	Mon-Sun	2.27E+09	Rubber Tir D	D	175	Constructio	U	P	NHH	NP	Total	Total	Total	2.45E+03	6.51E+03	3.15E+04	2.49E-01	2.02E+00	1.53E+00	3.46E+02	3.89E-03	8.23E-02	0.00E+00	2.25E-02	6.21E-01	1.20E-03							
2020	Annual	Mon-Sun	2.27E+09	Rubber Tir D	D	250	Constructio	U	N	NHH	NP	Total	Total	Total	2.43E+03	6.48E+03	4.37E+04	2.74E-01	1.02E+00	1.83E+00	4.82E+02	5.43E-03	6.28E-02	0.00E+00	2.48E-02	3.16E-01	1.67E-03							
2020	Annual	Mon-Sun	2.27E+09	Rubber Tir D	D	500	Constructio	U	N	NHH	NP	Total	Total	Total	1.01E+03	2.70E+03	2.89E+04	1.75E-01	6.76E-01	1.08E+00	3.19E+02	3.13E-03	3.92E-02	0.00E+00	1.58E-02	5.01E-01	2.32E-03							
2020	Annual	Mon-Sun	2.27E+09	Rubber Tir D	D	750	Constructio	U	N	NHH	NP	Total	Total	Total	1.45E+01	3.87E+01	8.49E+02	5.18E-03	1.98E-02	3.28E-02	9.38E+00	9.43E-05	1.17E-03	0.00E+00	4.67E-04	1.03E+00	4.88E-03							
2020	Annual	Mon-Sun	2.27E+09	Rubber Tir D	D	1000	Constructio	U	N	NHH	NP	Total	Total	Total	1.56E+00	4.15E+00	1.12E+02	7.22E-04	2.73E-03	8.30E-03	1.23E+00	1.24E-05	2.04E-04	0.00E+00	6.52E-05	1.32E+00	5.97E-03							
2020	Annual	Mon-Sun	2.27E+09	Rubber Tir D	D	175	Constructio	U	P	NHH	NP	Total	Total	Total	5.87E+00	2.60E+01	1.54E+02	1.96E-03	1.06E-02	1.29E-02	1.68E+00	1.89E-05	7.30E-04	0.00E+00	1.77E-04	8.12E-01	1.46E-03							
2020	Annual	Mon-Sun	2.27E+09	Rubber Tir D	D	250	Constructio	U	N	NHH	NP	Total	Total	Total	1.44E+02	6.37E+02	5.31E+03	5.42E-02	1.68E-01	4.11E-01	5.84E+01	6.57E-04	1.64E-02	0.00E+00	4.89E-03	5.27E-01	2.06E-03							
2020	Annual	Mon-Sun	2.27E+09	Rubber Tir D	D	500	Constructio	U	N	NHH	NP	Total	Total	Total	2.21E+02	9.81E+02	1.18E+04	1.12E-01	4.55E-01	8.27E-01	1.30E+02	1.27E-03	3.30E-02	0.00E+00	1.01E-02	9.27E-01	2.60E-03							
2020	Annual	Mon-Sun	2.27E+09	Rubber Tir D	D	750	Constructio	U	N	NHH	NP	Total	Total	Total	1.60E+01	7.08E+01	1.28E+03	1.22E-02	4.93E-02	1.18E-02	1.41E+01	1.42E-04	3.62E-03	0.00E+00	1.10E-03	1.39E+00	4.01E-03							
2020	Annual	Mon-Sun	2.27E+09	Rubber Tir D	D	1000	Constructio	U	N	NHH	NP	Total	Total	Total	1.08E+00	4.79E+00	1.29E+02	1.30E-03	5.38E-03	9.32E-02	1.42E+00	1.42E-05	4.00E-04	0.00E+00	1.17E-04	2.25E+00	5.95E-03							
2020	Annual	Mon-Sun	2.27E+09	Tractors/LD	D	25	Constructio	U	P	NHH	NP	Total	Total	Total	1.65E+02	4.27E+02	3.08E+02	4.09E-03	1.39E-02	2.58E-02	3.39E+00	4.30E-05	9.72E-04	0.00E+00	3.69E-04	6.53E-02	2.01E-04							
2020	Annual	Mon-Sun	2.27E+09	Tractors/LD	D	50	Constructio	P	NHH	NP	Total	Total	Total	9.88E+02	2.60E+03	3.62E+03	5.29E-02	3.59E-01	2.															

**Table C.19 CARB Offroad 2007 output**

used to calculate CO and SOx because Offroad2011 does not calculate CO and SOx

CY	Season	AvgDays	Code	Equipme nt	Fuel	MaxH P	Class	C/R	Pre	Hand	Port	County	Air Basin	Air Dist.	Population	Activity	hr/day for	gal/day	ton/day		ton/day		ton/day		ton/day		ton/day		lb/hr/equi	lb/hr/equi
																	total populatio n	for total populatio n	ROG Exhaust	CO Exhaust	NOx Exhaust	CO2 Exhaust	SO2 Exhaust	PM Exhaust	N2O Exhaust	CH4 Exhaust	CO	SOx		
2020	Annual	Mon-Sun	2.27E+09	Skid Steer D	D	120	Constructio	U	P	NHH	NP	Total	Total	Total	5.35E+03	1.25E+04	2.43E+04	1.36E-01	1.67E+00	1.03E+00	2.66E+02	3.13E-03	4.00E-02	0.00E+00	1.22E-02	2.67E-01	5.01E-04			
2020	Annual	Mon-Sun	2.27E+09	Off-Highw D	D	120	Constructio	U	P	NHH	NP	Total	Total	Total	5.87E-01	1.78E+00	7.66E+00	1.30E-04	6.05E-04	7.51E-04	8.36E-02	9.80E-07	6.01E-05	0.00E+00	1.17E-05	6.78E-01	1.10E-03			
2020	Annual	Mon-Sun	2.27E+09	Off-Highw D	D	175	Constructio	U	P	NHH	NP	Total	Total	Total	7.17E+02	2.18E+03	1.30E+04	1.59E-01	8.75E-01	1.06E+00	1.42E+02	1.60E-03	5.96E-02	0.00E+00	1.43E-02	8.02E-01	1.47E-03			
2020	Annual	Mon-Sun	2.27E+09	Off-Highw D	D	250	Constructio	U	N	NHH	NP	Total	Total	Total	6.78E+02	2.06E+03	1.22E+04	1.18E-01	3.73E-01	9.11E-01	1.34E+02	1.51E-03	3.59E-02	0.00E+00	1.07E-02	3.61E-01	1.47E-03			
2020	Annual	Mon-Sun	2.27E+09	Off-Highw D	D	750	Constructio	U	N	NHH	NP	Total	Total	Total	6.03E+01	1.83E+02	4.73E+03	4.29E-02	1.72E-01	3.26E-01	5.20E+01	5.23E-04	1.27E-02	0.00E+00	3.87E-03	1.88E+00	5.71E-03			
2020	Annual	Mon-Sun	2.27E+09	Off-Highw D	D	1000	Constructio	U	N	NHH	NP	Total	Total	Total	6.36E+00	1.93E+01	7.15E+02	6.89E-03	2.84E-02	7.17E-02	7.86E+00	7.91E-05	2.14E-03	0.00E+00	6.21E-04	2.94E+00	8.18E-03			
2020	Annual	Mon-Sun	2.27E+09	Dumpers/TD	D	25	Constructio	U	P	NHH	NP	Total	Total	Total	1.41E+01	2.56E+01	8.87E+00	1.17E-04	4.01E-04	7.43E-04	9.73E-02	1.24E-06	2.83E-05	0.00E+00	1.06E-05	3.14E-02	9.67E-05			
2020	Annual	Mon-Sun	2.27E+09	Other Cons D	D	15	Constructio	U	P	NHH	NP	Total	Total	Total	1.94E+02	3.67E+02	1.69E+02	2.16E-03	1.13E-02	1.35E-02	1.86E+00	2.89E-05	5.28E-04	0.00E+00	1.95E-04	6.17E-02	1.57E-04			
2020	Annual	Mon-Sun	2.27E+09	Other Cons D	D	25	Constructio	U	P	NHH	NP	Total	Total	Total	3.29E+01	6.22E+01	3.74E+01	4.95E-04	1.69E-03	3.13E-03	4.10E-01	5.21E-06	1.17E-04	0.00E+00	4.47E-05	5.44E-02	1.68E-04			
2020	Annual	Mon-Sun	2.27E+09	Other Cons D	D	50	Constructio	U	P	NHH	NP	Total	Total	Total	5.05E+01	9.67E+01	1.24E+02	1.59E-03	1.09E-02	9.45E-03	1.35E+00	1.75E-05	3.79E-04	0.00E+00	1.43E-04	2.26E-01	3.62E-04			
2020	Annual	Mon-Sun	2.27E+09	Other Cons D	D	120	Constructio	U	P	NHH	NP	Total	Total	Total	8.33E+01	1.60E+02	5.88E+02	4.00E-03	4.05E-02	3.06E-02	6.45E+00	7.56E-05	1.59E-03	0.00E+00	3.61E-04	5.08E-01	9.48E-04			
2020	Annual	Mon-Sun	2.27E+09	Other Cons D	D	175	Constructio	U	P	NHH	NP	Total	Total	Total	1.15E+02	2.20E+02	1.07E+03	5.77E-03	6.45E-02	3.76E-02	1.17E+01	1.32E-04	1.81E-03	0.00E+00	5.21E-04	5.85E-01	1.20E-03			
2020	Annual	Mon-Sun	2.27E+09	Other Cons D	D	500	Constructio	U	N	NHH	NP	Total	Total	Total	2.67E+02	5.12E+02	5.88E+03	2.59E-02	1.19E-01	1.55E-01	6.50E+01	6.38E-04	5.43E-03	0.00E+00	2.33E-03	4.67E-01	2.49E-03			
2021	Annual	Mon-Sun	2.27E+09	Pavers D	D	25	Constructio	U	P	NHH	NP	Total	Total	Total	8.92E+00	2.01E+01	1.71E+01	2.26E-04	7.71E-04	1.43E-03	1.87E-01	2.38E-06	5.47E-05	0.00E+00	2.04E-05	7.68E-02	2.37E-04			
2021	Annual	Mon-Sun	2.27E+09	Pavers D	D	50	Constructio	U	P	NHH	NP	Total	Total	Total	5.19E+02	1.18E+03	1.53E+03	4.57E-02	1.77E-01	1.38E-01	1.65E+01	2.14E-04	9.93E-03	0.00E+00	4.12E-03	2.99E-01	3.62E-04			
2021	Annual	Mon-Sun	2.27E+09	Pavers D	D	120	Constructio	U	P	NHH	NP	Total	Total	Total	6.12E+02	1.39E+03	4.41E+03	5.95E-02	3.33E-01	3.57E-01	4.82E+01	5.65E-04	2.72E-02	0.00E+00	5.37E-03	4.78E-01	8.11E-04			
2021	Annual	Mon-Sun	2.27E+09	Pavers D	D	175	Constructio	U	P	NHH	NP	Total	Total	Total	3.80E+02	8.66E+02	5.06E+03	4.96E-02	3.28E-01	3.25E-01	5.55E+01	6.24E-04	1.82E-02	0.00E+00	4.48E-03	7.58E-01	1.44E-03			
2021	Annual	Mon-Sun	2.27E+09	Pavers D	D	250	Constructio	U	N	NHH	NP	Total	Total	Total	4.58E+01	1.04E+02	9.18E+02	6.98E-03	2.40E-02	5.30E-02	1.01E+01	1.14E-04	1.93E-03	0.00E+00	6.29E-04	4.59E-01	2.19E-03			
2021	Annual	Mon-Sun	2.27E+09	Pavers D	D	500	Constructio	U	N	NHH	NP	Total	Total	Total	4.70E+01	1.07E+02	1.13E+03	8.12E-03	3.25E-02	5.86E-02	1.25E+01	1.22E-04	2.20E-03	0.00E+00	7.32E-04	6.06E-01	2.29E-03			
2021	Annual	Mon-Sun	2.27E+09	Plate Comp D	D	15	Constructio	U	P	NHH	NP	Total	Total	Total	1.92E+02	3.15E+02	6.20E+01	7.91E-04	4.15E-03	4.95E-03	6.79E-01	1.06E-05	1.93E-04	0.00E+00	7.13E-05	2.63E-02	6.71E-05			
2021	Annual	Mon-Sun	2.27E+09	Rollers D	D	15	Constructio	U	P	NHH	NP	Total	Total	Total	3.60E+02	6.86E+02	1.98E+02	2.52E-03	1.32E-02	1.58E-02	2.17E+00	3.37E-05	6.17E-04	0.00E+00	2.27E-04	3.86E-02	9.83E-05			
2021	Annual	Mon-Sun	2.27E+09	Rollers D	D	25	Constructio	U	P	NHH	NP	Total	Total	Total	1.51E+02	2.87E+02	1.74E+02	2.31E-03	7.87E-03	1.46E-02	1.91E+00	2.43E-05	5.45E-04	0.00E+00	2.08E-04	5.49E-02	1.69E-04			
2021	Annual	Mon-Sun	2.27E+09	Rollers D	D	50	Constructio	U	P	NHH	NP	Total	Total	Total	4.68E+02	8.99E+02	1.07E+03	2.20E-02	1.07E-01	8.88E-02	1.17E+01	1.51E-04	5.10E-03	0.00E+00	1.99E-03	2.39E-01	3.36E-04			
2021	Annual	Mon-Sun	2.27E+09	Rollers D	D	120	Constructio	U	P	NHH	NP	Total	Total	Total	2.51E+03	4.82E+03	1.30E+04	1.27E-01	9.29E-01	8.49E-01	1.42E+02	1.67E-03	5.72E-02	0.00E+00	1.15E-02	6.85E-01	6.91E-04			
2021	Annual	Mon-Sun	2.27E+09	Rollers D	D	175	Constructio	U	P	NHH	NP	Total	Total	Total	1.01E+03	1.94E+03	9.55E+03	6.97E-02	5.92E-01	4.63E-01	1.05E+02	1.18E-03	2.46E-02	0.00E+00	6.28E-03	3.10E-01	1.22E-03			
2021	Annual	Mon-Sun	2.27E+09	Rollers D	D	250	Constructio	U	N	NHH	NP	Total	Total	Total	1.43E+02	2.75E+02	1.91E+03	1.10E-02	4.34E-02	8.07E-02	2.10E+01	2.37E-04	2.76E-03	0.00E+00	9.92E-04	3.16E-01	1.72E-03			
2021	Annual	Mon-Sun	2.27E+09	Rollers D	D	500	Constructio	U	N	NHH	NP	Total	Total	Total	1.01E+02	1.93E+02	1.91E+03	1.06E-02	4.33E-02	7.21E-02	2.11E+01	2.07E-04	2.61E-03	0.00E+00	9.57E-04	4.49E-01	2.15E-03			
2021	Annual	Mon-Sun	2.27E+09	Scrapers D	D	120	Constructio	U	P	NHH	NP	Total	Total	Total	2.32E+01	7.05E+01	3.02E+02	4.02E-03	2.32E-02	2.37E-02	3.31E+00	3.88E-05	1.76E-03	0.00E+00	3.63E-04	6.57E-01	1.10E-03			
2021	Annual	Mon-Sun	2.27E+09	Scrapers D	D	175	Constructio	U	P	NHH	NP	Total	Total	Total	2.12E+02	6.45E+02	4.35E+03	4.24E-02	2.87E-01	2.66E-01	4.77E+01	5.37E-04	1.48E-02	0.00E+00	3.83E-03	8.90E-01	1.66E-03			
2021	Annual	Mon-Sun	2.27E+09	Scrapers D	D	250	Constructio	U	N	NHH	NP	Total	Total	Total	2.07E+02	6.29E+02	5.96E+03	4.53E-02	1.55E-01	3.25E-01	6.58E+01	7.40E-04	1.17E-02	0.00E+00	4.09E-03	4.93E-01	3.25E-03			
2021	Annual	Mon-Sun	2.27E+09	Scrapers D	D	500	Constructio	U	N	NHH	NP	Total	Total	Total	5.70E+02	1.73E+03	2.52E+04	1.82E-01	7.06E-01	1.32E+00	2.78E+02	2.73E-03	4.59E-02	0.00E+00	1.64E-02	8.16E-01	3.15E-03			
2021	Annual	Mon-Sun	2.27E+09	Scrapers D	D	750	Constructio	U	N	NHH	NP	Total	Total	Total	1.91E+01	5.80E+01	1.46E+03	1.06E-02	4.08E-02	7.33E-02	1.61E+01	1.62E-04	2.70E-03	0.00E+00	9.54E-04	1.41E+00	5.58E-03			
2021	Annual	Mon-Sun	2.27E+09	Paving Eq D	D	15	Constructio	U	P	NHH	NP	Total	Total	Total	1.55E+01	3.52E+01	2.02E+01	2.68E-04	9.13E-04	1.69E-03	2.22E-01	2.81E-06	6.32E-05	0.00E+00	2.14E-05	5.19E-02	1.60E-04			
2021	Annual	Mon-Sun	2.27E+09	Paving Eq D	D	50	Constructio	U	P	NHH	NP	Total	Total	Total	1.31E+01	3.00E+01	3.31E+01	9.70E-04	3.78E-03	2.97E-03	3.58E-01	4.63E-06	2.14E-04	0.00E+00	8.75E-05	2.52E-01	3.09E-04			
2021	Annual	Mon-Sun	2.27E+09	Paving Eq D	D	120	Constructio	U	P	NHH	NP	Total	Total	Total	1.89E+02	4.32E+02	1.08E+03	1.43E-02	8.07E-02	8.65E-02	1.18E+01	1.38E-04	6.63E-03	0.00E+00	1.29E-03	3.74E-01	6.39E-04			
2021	Annual	Mon-Sun	2.27E+09	Paving Eq D	D	175	Constructio	U	P	NHH	NP	Total	Total	Total	8.86E+01	2.03E+02	9.34E+02	9.00E-03	6.01E-02	5.95E-02	1.02E+01	1.15E-04	3.33E-03	0.00E+00	8.12E-04	5.93E-01	1.14E-03			
2021	Annual	Mon-Sun	2.27E+09	Paving Eq D	D	250	Constructio	U	N	NHH	NP	Total	Total	Total	2.50E+01	5.72E+01	3.17E+02	2.34E-03	8.08E-03	1.81E-02	3.49E+00	3.93E-05	6.48E-04	0.00E+00	2.11E-04	2.82E-01	1.37E-03			
2021	Annual	Mon-Sun	2.27E+09	Surfacing ID	D	50	Constructio	U	P	NHH	NP	Total	Total	Total	1.19E+01	1.47E+01	9.53E+00	1.78E-04	8.60E-04	7.63E-04	1.04E-01	1.34E-06	4.18E-05	0.00E+00	1.61E-05	1.17E-01	1.82E-04			
2021	Annual	Mon-Sun	2.27E+09	Surfacing ID	D	120	Constructio	U	P	NHH	NP	Total	Total	Total	2.38E+00	2.95E+00	8.56E+00	7.73E-05	5.90E-04	5.53E-04	9.38E-02	1.10E-06	3.56E-05	0.00E+00	6.97E-06	4.00E-01	7.47E-04			
2021	Annual	Mon-Sun	2.27E+09	Surfacing ID	D	175	Constructio	U	P	NHH	NP	Total	Total	Total	1.78E+00	2.21E+00	8.62E+00	5.64E-05	5.14E-04	4.15E-04	9.46E-02	1.06E-06	2.08E-05	0.00E+00	5.08E-06	4.65E-01	9.64E-04			
2021	Annual	Mon-Sun	2.27E+09	Surfacing ID	D	250	Constructio	U	N	NHH	NP	Total	Total	Total	3.57E+00	4.42E+00	2.69E+01	1.36E-04	5.99E-04	1.13E-03	2.98E-01	3.35E-06	3.75E-05	0.00E+00	1.23E-05	2.71E-01	1.52E-03			
2021	Annual	Mon-Sun	2.27E+09	Surfacing ID	D	500	Constructio	U	N	NHH	NP	Total	Total	Total	2.97E+01	3.68E+01	3.68E+02	1.76E-03	8.46E-03	1.39E-02	4.07E+00	3.99E-05	4.80E-04	0.00E+00	1.59E-04	4.60E-01	2.17E-03			
2021	Annual	Mon-Sun	2.27E+09	Surfacing ID	D	750	Constructio	U	N	NHH	NP	Total	Total	Total	3.65E+00	4.52E+00	7.09E+01	3.43E-04	1.63E-03	2.76E-03	7.83E-01	7.87								

**Table C.19 CARB Offroad 2007 output**

used to calculate CO and SOx because Offroad2011 does not calculate CO and SOx

CY	Season	AvgDays	Code	Equipme nt	Fuel	MaxH P	Class	C/R	Pre	Hand	Port	County	Air Basin	Air Dist.	Populatio n	Activity	hr/day for	gal/day	ton/day	ton/day	ton/day	ton/day	ton/day	ton/day	ton/day	ton/day	ton/day	ton/day	ton/day	ton/day	ton/day	ton/day	ton/day	lb/hr/equi pment	lb/hr/equi pment
																	total populatio n	for total populatio n																	
2021 Annual	Mon-Sun	2.27E+09	Bore/Drill D	25	Constructic U	P	NHH	P	Total	Total	Total	1.78E+01	3.97E+01	2.89E+01	3.82E-04	1.31E-03	2.42E-03	3.17E-01	4.02E-06	9.03E-05	0.00E+00	3.45E-05	6.58E-02	2.03E-04											
2021 Annual	Mon-Sun	2.27E+09	Bore/Drill D	50	Constructic U	P	NHH	P	Total	Total	Total	7.79E+01	1.79E+02	2.54E+02	1.73E-03	1.97E-02	1.53E-02	2.78E+00	3.59E-05	1.30E-04	0.00E+00	1.56E-04	2.20E-01	4.01E-04											
2021 Annual	Mon-Sun	2.27E+09	Bore/Drill D	120	Constructic U	P	NHH	P	Total	Total	Total	2.39E+02	5.50E+02	1.93E+03	7.40E-03	1.28E-01	6.02E-02	2.12E+01	2.49E-04	8.12E-04	0.00E+00	6.68E-04	4.66E-01	9.04E-04											
2021 Annual	Mon-Sun	2.27E+09	Bore/Drill D	175	Constructic U	P	NHH	P	Total	Total	Total	5.53E+01	1.27E+02	8.16E+02	2.38E-03	4.80E-02	9.37E-03	8.97E+00	1.01E-04	2.46E-04	0.00E+00	2.14E-04	7.53E-01	1.59E-03											
2021 Annual	Mon-Sun	2.27E+09	Bore/Drill D	250	Constructic U	N	NHH	P	Total	Total	Total	4.76E+01	1.10E+02	9.30E+02	2.49E-03	1.87E-02	7.46E-03	1.03E+01	1.16E-04	2.25E-04	0.00E+00	2.25E-04	3.42E-01	2.11E-03											
2021 Annual	Mon-Sun	2.27E+09	Bore/Drill D	500	Constructic U	N	NHH	P	Total	Total	Total	1.06E+02	2.44E+02	3.43E+03	9.17E-03	6.71E-02	2.71E-02	3.79E+01	3.72E-04	8.26E-04	0.00E+00	8.28E-04	5.51E-01	3.05E-03											
2021 Annual	Mon-Sun	2.27E+09	Bore/Drill D	750	Constructic U	N	NHH	P	Total	Total	Total	1.13E+01	2.61E+01	7.24E+02	1.94E-03	1.42E-02	5.73E-03	8.01E+00	8.05E-05	1.74E-04	0.00E+00	1.75E-04	1.09E+00	6.18E-03											
2021 Annual	Mon-Sun	2.27E+09	Bore/Drill D	1000	Constructic U	N	NHH	P	Total	Total	Total	1.90E+01	4.37E+01	1.83E+03	5.08E-03	3.59E-02	8.63E-02	2.03E+01	2.04E-04	1.03E-03	0.00E+00	4.58E-04	1.64E+00	9.33E-03											
2021 Annual	Mon-Sun	2.27E+09	Excavators D	25	Constructic U	P	NHH	NP	Total	Total	Total	2.20E+01	8.43E+01	6.30E+01	8.35E-04	2.85E-03	5.28E-03	6.92E-01	8.78E-06	1.97E-04	0.00E+00	7.53E-05	6.76E-02	2.08E-04											
2021 Annual	Mon-Sun	2.27E+09	Excavators D	50	Constructic U	P	NHH	NP	Total	Total	Total	8.29E+02	3.21E+03	3.69E+03	5.71E-02	3.88E-01	2.89E-01	4.01E+01	5.19E-04	1.10E-02	0.00E+00	5.16E-03	2.42E-01	3.23E-04											
2021 Annual	Mon-Sun	2.27E+09	Excavators D	120	Constructic U	P	NHH	NP	Total	Total	Total	2.25E+03	8.72E+03	2.93E+04	2.37E-01	2.16E+00	1.49E+00	3.21E+02	3.76E-03	7.58E-02	0.00E+00	2.13E-02	4.96E-01	8.63E-04											
2021 Annual	Mon-Sun	2.27E+09	Excavators D	175	Constructic U	P	NHH	NP	Total	Total	Total	4.34E+03	1.68E+04	8.59E+04	5.51E-01	5.58E+00	2.84E+00	9.43E+02	1.06E-02	1.41E-01	0.00E+00	4.97E-02	6.63E-01	1.26E-03											
2021 Annual	Mon-Sun	2.27E+09	Excavators D	250	Constructic U	N	NHH	NP	Total	Total	Total	1.77E+03	6.84E+03	4.91E+04	2.68E-01	1.11E+00	1.33E+00	5.42E+02	6.10E-03	4.57E-02	0.00E+00	2.42E-02	3.26E-01	1.78E-03											
2021 Annual	Mon-Sun	2.27E+09	Excavators D	500	Constructic U	N	NHH	NP	Total	Total	Total	1.27E+03	4.94E+03	5.22E+04	2.80E-01	1.12E+00	1.30E+00	5.76E+02	5.66E-03	4.72E-02	0.00E+00	2.53E-02	4.56E-01	2.29E-03											
2021 Annual	Mon-Sun	2.27E+09	Excavators D	750	Constructic U	N	NHH	NP	Total	Total	Total	5.72E+00	2.22E+01	3.89E+02	2.09E-03	8.38E-03	9.80E-03	4.29E+00	4.32E-05	3.54E-04	0.00E+00	1.89E-04	7.55E-01	3.89E-03											
2021 Annual	Mon-Sun	2.27E+09	Concrete/I/d	25	Constructic U	P	NHH	NP	Total	Total	Total	2.38E+00	3.86E+00	2.90E+00	3.84E-05	1.31E-04	2.42E-04	3.18E-02	4.03E-07	9.06E-06	0.00E+00	3.46E-06	6.78E-02	2.09E-04											
2021 Annual	Mon-Sun	2.27E+09	Concrete/I/d	50	Constructic U	P	NHH	NP	Total	Total	Total	2.08E+01	3.31E+01	4.58E+01	6.35E-04	3.94E-03	3.57E-03	5.00E-01	6.46E-06	1.62E-04	0.00E+00	5.73E-05	2.38E-01	3.90E-04											
2021 Annual	Mon-Sun	2.27E+09	Concrete/I/d	120	Constructic U	P	NHH	NP	Total	Total	Total	3.63E+01	5.77E+01	1.95E+02	1.39E-03	1.33E-02	1.10E-02	2.14E+00	2.51E-05	6.25E-04	0.00E+00	1.26E-04	4.59E-01	8.69E-04											
2021 Annual	Mon-Sun	2.27E+09	Concrete/I/d	175	Constructic U	P	NHH	NP	Total	Total	Total	1.19E+00	1.89E+00	1.38E+01	7.63E-05	8.19E-04	5.48E-04	1.51E-01	1.70E-06	2.71E-05	0.00E+00	6.89E-06	8.65E-01	1.80E-03											
2021 Annual	Mon-Sun	2.27E+09	Cement an d	15	Constructic U	P	NHH	NP	Total	Total	Total	3.04E+02	2.50E+02	7.21E+01	9.19E-04	4.82E-03	5.76E-03	7.90E-01	1.23E-05	2.25E-04	0.00E+00	8.29E-05	3.86E-02	9.83E-05											
2021 Annual	Mon-Sun	2.27E+09	Cement an d	25	Constructic U	P	NHH	NP	Total	Total	Total	2.74E+01	2.25E+01	1.80E+01	2.48E-04	8.27E-04	1.54E-03	1.97E-01	2.50E-06	6.26E-05	0.00E+00	2.23E-05	7.35E-02	2.23E-04											
2021 Annual	Mon-Sun	2.27E+09	Cranes D	50	Constructic U	P	NHH	P	Total	Total	Total	2.02E+01	7.09E+01	7.58E+01	1.71E-03	8.42E-03	6.51E-03	8.22E-01	1.06E-05	3.78E-04	0.00E+00	1.54E-04	2.38E-01	2.99E-04											
2021 Annual	Mon-Sun	2.27E+09	Cranes D	120	Constructic U	P	NHH	P	Total	Total	Total	2.22E+02	7.78E+02	1.78E+03	1.94E-02	1.33E-01	1.19E-01	1.95E+01	2.29E-04	8.15E-03	0.00E+00	1.75E-03	3.43E-01	5.88E-04											
2021 Annual	Mon-Sun	2.27E+09	Cranes D	175	Constructic U	P	NHH	P	Total	Total	Total	2.22E+02	7.78E+02	1.78E+03	2.34E-02	1.85E-01	1.42E-01	1.32E+01	3.51E-04	7.66E-03	0.00E+00	2.11E-03	4.75E-01	9.03E-04											
2021 Annual	Mon-Sun	2.27E+09	Cranes D	250	Constructic U	N	NHH	P	Total	Total	Total	4.30E+02	1.51E+03	2.65E+03	5.02E-02	1.81E-01	3.42E-01	8.45E+01	9.51E-04	1.15E-02	0.00E+00	4.53E-03	2.40E-01	1.26E-03											
2021 Annual	Mon-Sun	2.27E+09	Cranes D	500	Constructic U	N	NHH	P	Total	Total	Total	1.58E+02	5.53E+02	4.50E+03	2.86E-02	1.03E-01	1.74E-01	4.97E+01	4.88E-04	6.37E-03	0.00E+00	2.58E-03	3.74E-01	1.77E-03											
2021 Annual	Mon-Sun	2.27E+09	Cranes D	750	Constructic U	N	NHH	P	Total	Total	Total	2.37E+01	8.33E+01	1.14E+03	7.26E-03	2.62E-02	4.53E-02	1.26E+01	1.27E-04	1.64E-03	0.00E+00	6.55E-04	6.29E-01	3.04E-03											
2021 Annual	Mon-Sun	2.27E+09	Cranes D	9999	Constructic U	N	NHH	P	Total	Total	Total	2.98E+01	1.05E+02	4.59E+03	3.33E-02	1.11E-01	3.50E-01	5.07E+01	5.09E-04	8.59E-03	0.00E+00	3.00E-03	2.13E+00	9.75E-03											
2021 Annual	Mon-Sun	2.27E+09	Graders D	50	Constructic U	P	NHH	NP	Total	Total	Total	8.33E+00	2.16E+01	2.74E+01	5.57E-04	2.94E-03	2.26E-03	2.97E-01	3.84E-06	1.18E-04	0.00E+00	5.02E-05	2.72E-01	3.56E-04											
2021 Annual	Mon-Sun	2.27E+09	Graders D	120	Constructic U	P	NHH	NP	Total	Total	Total	5.56E+02	1.44E+03	4.93E+03	4.93E-02	3.65E-01	3.06E-01	5.40E+01	6.34E-01	1.96E-02	0.00E+00	4.45E-03	5.06E-01	8.79E-04											
2021 Annual	Mon-Sun	2.27E+09	Graders D	175	Constructic U	P	NHH	NP	Total	Total	Total	1.90E+03	4.93E+03	2.78E+04	2.10E-01	1.79E+00	1.23E+00	3.05E+02	3.43E-03	6.57E-02	0.00E+00	1.90E-02	7.27E-01	1.39E-03											
2021 Annual	Mon-Sun	2.27E+09	Graders D	250	Constructic U	N	NHH	NP	Total	Total	Total	1.18E+03	3.06E+03	2.38E+04	1.45E-01	5.57E-01	9.10E-02	2.63E+02	2.96E-03	3.13E-02	0.00E+00	1.31E-02	3.64E-01	1.93E-03											
2021 Annual	Mon-Sun	2.27E+09	Graders D	500	Constructic U	N	NHH	NP	Total	Total	Total	3.33E+01	8.65E+01	8.98E+02	5.28E-03	2.11E-02	3.07E-02	9.91E+00	9.73E-05	1.11E-03	0.00E+00	4.76E-04	4.87E-01	2.25E-03											
2021 Annual	Mon-Sun	2.27E+09	Graders D	750	Constructic U	N	NHH	NP	Total	Total	Total	3.65E-01	9.47E-01	2.08E+01	1.23E-04	4.88E-04	7.33E-04	2.30E-01	2.31E-06	2.62E-05	0.00E+00	1.11E-05	1.03E+00	4.88E-03											
2021 Annual	Mon-Sun	2.27E+09	Off-Highw D	175	Constructic U	P	NHH	NP	Total	Total	Total	3.87E+01	2.10E+02	1.19E+03	8.19E-03	7.90E-02	4.19E-02	1.31E+01	1.47E-04	2.13E-03	0.00E+00	7.39E-04	7.53E-01	1.41E-03											
2021 Annual	Mon-Sun	2.27E+09	Off-Highw D	250	Constructic U	N	NHH	NP	Total	Total	Total	2.86E+02	1.55E+03	1.17E+04	6.80E-02	2.70E-01	3.39E-01	1.29E+02	1.45E-03	1.17E-02	0.00E+00	6.14E-03	3.49E-01	1.87E-03											
2021 Annual	Mon-Sun	2.27E+09	Off-Highw D	500	Constructic U	N	NHH	NP	Total	Total	Total	4.02E+02	2.18E+03	2.69E+04	1.54E-01	5.89E-01	7.13E-01	2.97E+02	2.91E-03	2.61E-02	0.00E+00	1.39E-02	5.40E-01	2.67E-03											
2021 Annual	Mon-Sun	2.27E+09	Off-Highw D	750	Constructic U	N	NHH	NP	Total	Total	Total	7.66E+01	4.16E+02	8.30E+03	4.77E-02	1.82E-01	2.24E-01	9.17E+01	9.22E-04	8.12E-03	0.00E+00	4.30E-03	8.76E-01	4.44E-03											
2021 Annual	Mon-Sun	2.27E+09	Off-Highw D	1000	Constructic U	N	NHH	NP	Total	Total	Total	3.59E+01	1.95E+02	5.50E+03	3.33E-02	1.24E-01	3.60E-01	6.08E+01	6.11E-04	7.92E-03	0.00E+00	3.00E-03	1.28E+00	6.28E-03											
2021 Annual	Mon-Sun	2.27E+09	Crushing/PD	50	Constructic U	P	NHH	P	Total	Total	Total	9.52E+01	2.49E+02	5.04E+02	8.31E-03	4.95E-02	4.06E-02	5.48E+00	7.09E-05	1.94E-03	0.00E+00	7.50E-04	3.97E-01	5.69E-04											
2021 Annual	Mon-Sun	2.27E+09	Crushing/PD	120	Constructic U	P	NHH	P	Total	Total	Total	2.68E+02	7.03E+02	2.66E+03	2.25E-02	1.91E-01	1.54E-01	2.92E+01	3.42E-04	9.16E-03	0.00E+00	2.03E-03	5.43E-01	9.74E-04											
2021 Annual	Mon-Sun	2.27E+09	Crushing/PD	175	Constructic U	P	NHH	P	Total	Total	Total	1.14E+02	2.98E+02	2.26E+03	1.51E-02	1.42E-01	9.25E-02	2.49E+01	2.80E-04	4.81E-03	0.00E+00	1.36E-03	9.51E-01	1.88E-03											
2021 Annual	Mon-Sun	2.27E+09	Crushing/PD	250	Constructic U	N	NHH	P	Total	Total	Total	1.13E+01	2.96E+01	3.27E+02	1.75E-03	7.12E-03	1.12E-02	3.62E+00	4.07E-05	3.66E-04	0.00E+00	1.58E-04	4.81E-01	2.75E-03											
2021 Annual	Mon-Sun	2.27E+09	Crushing/PD	500	Constructic U	N	NHH	P	Total	Total	Total	6.37E+01	1.67E+02	2.82E+03	1.47E-02	5.87E-02	8.62E-02	3.11E+01	3.05E-04	3.05E-03	0.00E+00	1.33E-03	7.04E-01	3.66E-03											
2021 Annual	Mon-Sun	2.27E+09	Crushing/PD	750	Constructic U	N	NHH	P	Total	Total	Total	6.09E-01	1.59E+00	4.24E+01	2.21E-04	8.85E-04	1.33E-03	4.69E-01	4.71E-06	4.60E-05	0.00E+00	2.00E-05	1.11E+00	5.92E-03											
2021 Annual	Mon-Sun	2.																																	

**Table C.19 CARB Offroad 2007 output**

used to calculate CO and SOx because Offroad2011 does not calculate CO and SOx

CY	Season	AvgDays	Code	Equipment	Fuel	MaxHP	Class	C/R	Pre	Hand	Port	County	Air Basin	Air Dist.	Population	Activity	hr/day for	gal/day														lb/hr/equi	lb/hr/equi
																	total	for total	ton/day	ton/day	ton/day	ton/day	ton/day	ton/day	ton/day	ton/day	ton/day	ton/day	ton/day	ton/day	ton/day		
2021	Annual	Mon-Sun	2.27E+09	Rubber Tir D		750	Constructi U	N	NHH	NP	Total	Total	Total	1.47E+01	3.92E+01	8.61E+02	4.99E-03	1.97E-02	2.94E-02	9.51E+00	9.56E-05	1.06E-03	0.00E+00	4.50E-04	1.01E+00	4.88E-03							
2021	Annual	Mon-Sun	2.27E+09	Rubber Tir D		1000	Constructi U	N	NHH	NP	Total	Total	Total	1.58E+00	4.21E+00	1.13E+02	6.93E-04	2.69E-03	8.01E-03	1.25E+00	1.25E-05	1.88E-04	0.00E+00	6.25E-05	1.28E+00	5.97E-03							
2021	Annual	Mon-Sun	2.27E+09	Rubber Tir D		175	Constructi U	P	NHH	NP	Total	Total	Total	5.95E+00	2.64E+01	1.56E+02	1.89E-03	1.07E-02	1.22E-02	1.71E+00	1.92E-05	6.88E-04	0.00E+00	1.70E-04	8.09E-01	1.46E-03							
2021	Annual	Mon-Sun	2.27E+09	Rubber Tir D		250	Constructi U	N	NHH	NP	Total	Total	Total	1.46E+02	6.46E+02	5.38E+03	5.21E-02	1.65E-01	3.87E-01	5.92E+01	6.66E-04	1.53E-02	0.00E+00	4.70E-03	5.12E-01	2.06E-03							
2021	Annual	Mon-Sun	2.27E+09	Rubber Tir D		500	Constructi U	N	NHH	NP	Total	Total	Total	2.24E+02	9.94E+02	1.19E+04	1.08E-01	4.38E-01	7.78E-01	1.32E+02	1.29E-03	3.09E-02	0.00E+00	9.78E-03	8.82E-01	2.60E-03							
2021	Annual	Mon-Sun	2.27E+09	Rubber Tir D		750	Constructi U	N	NHH	NP	Total	Total	Total	1.62E+01	7.17E+01	1.30E+03	1.18E-02	4.75E-02	8.65E-02	1.43E+01	1.44E-04	3.39E-03	0.00E+00	1.07E-03	1.33E+00	4.01E-03							
2021	Annual	Mon-Sun	2.27E+09	Rubber Tir D		1000	Constructi U	N	NHH	NP	Total	Total	Total	1.10E+00	4.85E+00	1.30E+02	1.26E-03	5.18E-03	1.29E-02	1.43E+00	1.44E-05	3.79E-04	0.00E+00	1.13E-04	2.14E+00	5.95E-03							
2021	Annual	Mon-Sun	2.27E+09	Tractors/L/D		25	Constructi U	P	NHH	NP	Total	Total	Total	1.68E+02	4.33E+02	3.13E+02	4.14E-03	1.41E-02	2.62E-02	3.43E+00	4.36E-05	9.80E-04	0.00E+00	3.74E-04	6.53E-02	2.01E-04							
2021	Annual	Mon-Sun	2.27E+09	Tractors/L/D		50	Constructi U	P	NHH	NP	Total	Total	Total	1.00E+03	2.64E+03	3.67E+03	4.95E-02	3.60E-01	2.77E-01	4.00E+01	5.17E-04	9.65E-03	0.00E+00	4.47E-03	2.73E-01	3.92E-04							
2021	Annual	Mon-Sun	2.27E+09	Tractors/L/D		120	Constructi U	P	NHH	NP	Total	Total	Total	1.34E+04	3.53E+04	8.31E+04	5.99E-01	5.98E+00	4.01E+00	9.11E+02	1.07E-02	1.89E-01	0.00E+00	5.41E-02	3.39E-01	6.06E-04							
2021	Annual	Mon-Sun	2.27E+09	Tractors/L/D		175	Constructi U	P	NHH	NP	Total	Total	Total	1.00E+03	2.63E+03	1.21E+04	7.00E-02	7.68E-01	1.33E+02	1.50E-03	1.78E-02	0.00E+00	6.31E-03	5.84E-01	1.14E-03								
2021	Annual	Mon-Sun	2.27E+09	Tractors/L/D		250	Constructi U	N	NHH	NP	Total	Total	Total	3.24E+02	8.51E+02	6.61E+03	3.27E-02	1.46E-01	1.62E-01	7.30E+01	8.21E-04	5.56E-03	0.00E+00	2.95E-03	3.43E-01	1.93E-03							
2021	Annual	Mon-Sun	2.27E+09	Tractors/L/D		500	Constructi U	N	NHH	NP	Total	Total	Total	5.22E+02	1.37E+03	2.14E+04	1.04E-01	4.53E-01	1.48E+01	2.37E+02	2.66E-03	1.75E-02	0.00E+00	9.43E-03	6.59E-01	3.88E-03							
2021	Annual	Mon-Sun	2.27E+09	Tractors/L/D		750	Constructi U	N	NHH	NP	Total	Total	Total	7.37E+01	1.94E+02	4.53E+03	2.21E-02	9.57E-02	1.04E-01	5.01E+01	5.63E-04	3.72E-03	0.00E+00	1.99E-03	9.88E-01	5.82E-03							
2021	Annual	Mon-Sun	2.27E+09	Crawler Tr D		50	Constructi U	P	NHH	NP	Total	Total	Total	8.33E+00	2.37E+01	2.73E+01	7.68E-04	3.22E-03	2.42E-03	2.94E-01	3.81E-06	1.61E-04	0.00E+00	6.93E-05	2.72E-01	3.21E-04							
2021	Annual	Mon-Sun	2.27E+09	Crawler Tr D		120	Constructi U	P	NHH	NP	Total	Total	Total	4.73E+03	1.34E+04	4.04E+04	5.24E-01	3.09E+00	3.08E+00	4.42E+02	5.18E-03	2.26E-01	0.00E+00	4.72E-02	4.60E-01	7.71E-04							
2021	Annual	Mon-Sun	2.27E+09	Crawler Tr D		175	Constructi U	P	NHH	NP	Total	Total	Total	1.60E+03	4.55E+03	2.51E+04	2.40E-01	1.66E+00	1.48E+00	2.75E+02	3.10E-03	8.22E-02	0.00E+00	2.16E-02	7.29E-01	1.36E-03							
2021	Annual	Mon-Sun	2.27E+09	Crawler Tr D		250	Constructi U	N	NHH	NP	Total	Total	Total	1.37E+03	3.91E+03	2.94E+04	2.19E-01	7.58E-01	1.54E+00	3.24E+02	3.65E-03	5.56E-02	0.00E+00	1.98E-02	3.88E-01	1.87E-03							
2021	Annual	Mon-Sun	2.27E+09	Crawler Tr D		500	Constructi U	N	NHH	NP	Total	Total	Total	9.42E+02	2.68E+03	3.14E+04	2.23E-01	8.63E-01	1.48E+00	3.47E+02	3.41E-03	5.52E-02	0.00E+00	2.02E-02	6.45E-01	2.54E-03							
2021	Annual	Mon-Sun	2.27E+09	Crawler Tr D		750	Constructi U	N	NHH	NP	Total	Total	Total	9.74E+00	2.77E+01	5.82E+02	4.16E-03	1.60E-02	2.82E-02	6.43E+00	6.46E-05	1.04E-03	0.00E+00	3.75E-04	1.15E+00	4.67E-03							
2021	Annual	Mon-Sun	2.27E+09	Crawler Tr D		1000	Constructi U	N	NHH	NP	Total	Total	Total	9.74E+00	2.77E+01	8.24E+02	6.33E-03	2.45E-02	6.88E-02	9.09E+00	9.14E-05	1.82E-03	0.00E+00	5.71E-04	1.77E+00	6.61E-03							
2021	Annual	Mon-Sun	2.27E+09	Skid Steer D		25	Constructi U	P	NHH	NP	Total	Total	Total	1.14E+03	2.61E+03	1.64E+03	2.21E-02	7.46E-02	1.39E+01	2.28E-04	5.54E-03	0.00E+00	2.00E-03	5.71E-02	1.75E-04								
2021	Annual	Mon-Sun	2.27E+09	Skid Steer D		50	Constructi U	P	NHH	NP	Total	Total	Total	1.04E+04	2.41E+04	2.81E+04	2.65E-01	2.41E+00	1.93E+00	3.08E+02	3.98E-03	4.30E-02	0.00E+00	2.39E-02	2.00E-01	3.30E-04							
2021	Annual	Mon-Sun	2.27E+09	Skid Steer D		120	Constructi U	P	NHH	NP	Total	Total	Total	5.43E+03	1.26E+04	7.46E+04	1.30E-01	1.69E+00	9.17E-01	2.70E+02	3.17E-03	3.32E-02	0.00E+00	1.18E-02	2.67E-01	5.01E-04							
2021	Annual	Mon-Sun	2.27E+09	Off-Highw D		120	Constructi U	P	NHH	NP	Total	Total	Total	5.95E-01	1.81E+00	2.76E+00	1.25E-04	6.10E-04	7.91E-04	8.47E-02	9.94E-07	5.66E-05	0.00E+00	1.12E-05	6.74E-01	1.10E-03							
2021	Annual	Mon-Sun	2.27E+09	Off-Highw D		175	Constructi U	P	NHH	NP	Total	Total	Total	7.28E-02	2.21E+03	1.32E+04	1.52E-01	8.84E-01	9.98E-01	1.44E+02	1.62E-03	5.61E-02	0.00E+00	1.38E-02	7.99E-01	1.47E-03							
2021	Annual	Mon-Sun	2.27E+09	Off-Highw D		250	Constructi U	N	NHH	NP	Total	Total	Total	6.88E+02	2.09E+03	1.24E+04	1.14E-01	3.66E-01	8.56E-01	1.36E+02	1.53E-03	3.34E-02	0.00E+00	1.03E-02	3.50E-01	1.47E-03							
2021	Annual	Mon-Sun	2.27E+09	Off-Highw D		750	Constructi U	N	NHH	NP	Total	Total	Total	6.11E+01	1.86E+02	4.79E+03	4.13E-02	1.67E-01	3.07E-01	5.27E+01	5.30E-04	1.19E-02	0.00E+00	3.73E-03	1.79E+00	5.71E-03							
2021	Annual	Mon-Sun	2.27E+09	Off-Highw D		1000	Constructi U	N	NHH	NP	Total	Total	Total	6.45E+00	1.96E+01	8.24E+02	6.65E-03	2.74E-02	6.98E-02	7.97E+00	8.01E-05	2.03E-03	0.00E+00	6.00E-04	2.80E+00	8.18E-03							
2021	Annual	Mon-Sun	2.27E+09	Dumpers/T/D		25	Constructi U	P	NHH	NP	Total	Total	Total	1.43E+01	2.59E+01	8.99E+00	1.19E-04	4.06E-04	7.53E-04	9.87E-02	1.25E-06	2.85E-05	0.00E+00	1.07E-05	3.14E+02	9.67E-05							
2021	Annual	Mon-Sun	2.27E+09	Other Cons D		15	Constructi U	P	NHH	NP	Total	Total	Total	1.97E+02	3.73E+02	1.72E+02	2.19E-03	1.15E-02	1.37E-02	1.88E+00	2.93E-05	5.36E-04	0.00E+00	1.98E-04	6.17E-02	1.57E-04							
2021	Annual	Mon-Sun	2.27E+09	Other Cons D		25	Constructi U	P	NHH	NP	Total	Total	Total	3.33E+01	6.30E+01	3.79E+01	5.02E-04	1.71E-03	3.17E-03	4.16E-01	5.28E-06	1.19E-04	0.00E+00	4.53E-05	5.44E-02	1.68E-04							
2021	Annual	Mon-Sun	2.27E+09	Other Cons D		50	Constructi U	P	NHH	NP	Total	Total	Total	5.12E+01	9.80E+01	1.26E+02	1.49E-03	1.10E-02	9.27E-03	1.37E+00	1.77E-05	3.26E-04	0.00E+00	1.34E-04	1.02E-01	3.62E-04							
2021	Annual	Mon-Sun	2.27E+09	Other Cons D		120	Constructi U	P	NHH	NP	Total	Total	Total	8.45E+01	1.62E+02	5.96E+02	3.78E-03	4.10E-02	2.86E-02	6.54E+00	7.67E-05	1.37E-03	0.00E+00	3.41E-04	5.06E-01	9.48E-04							
2021	Annual	Mon-Sun	2.27E+09	Other Cons D		175	Constructi U	P	NHH	NP	Total	Total	Total	1.17E+02	2.23E+02	1.08E+03	5.48E-03	6.54E-02	3.32E-02	1.19E+01	1.34E-04	1.59E-03	0.00E+00	4.94E-04	5.85E-01	1.20E-03							
2021	Annual	Mon-Sun	2.27E+09	Other Cons D		500	Constructi U	N	NHH	NP	Total	Total	Total	2.71E+02	5.19E+02	5.96E+03	2.49E-02	1.21E-01	1.36E-01	6.59E+01	6.47E-04	4.78E-03	0.00E+00	2.25E-03	4.65E-01	2.49E-03							
2022	Annual	Mon-Sun	2.27E+09	Pavers D		25	Constructi U	P	NHH	NP	Total	Total	Total	9.05E+00	2.04E+01	1.73E+01	2.29E-04	7.82E-04	1.45E-03	1.90E-01	2.41E-06	5.50E-05	0.00E+00	2.07E-05	7.68E-02	2.37E-04							
2022	Annual	Mon-Sun	2.27E+09	Pavers D		50	Constructi U	P	NHH	NP	Total	Total	Total	5.26E+02	1.20E+03	1.55E+03	4.29E-02	1.76E-01	1.36E-01	1.67E+01	2.16E-04	9.19E-03	0.00E+00	3.88E-03	2.94E-01	3.62E-04							
2022	Annual	Mon-Sun	2.27E+09	Pavers D		120	Constructi U	P	NHH	NP	Total	Total	Total	6.20E+02	1.41E+03	4.46E+03	5.66E-02	3.35E-01	3.40E-01	4.88E+01	5.72E-04	2.51E-02	0.00E+00	5.11E-03	4.75E-01	8.11E-04							
2022	Annual	Mon-Sun	2.27E+09	Pavers D		175	Constructi U	P	NHH	NP	Total	Total	Total	3.85E+02	8.78E+02	5.13E+03	4.74E-02	3.32E-01	3.02E-01	5.62E+01	6.33E-04	1.69E-02	0.00E+00	4.28E-03	4.57E-01	1.44E-03							
2022	Annual	Mon-Sun	2.27E+09	Pavers D		250	Constructi U	N	NHH	NP	Total	Total	Total	4.64E+01	1.06E+02	9.31E+02	6.71E-03	2.38E-02	4.91E-02	1.03E+01	1.16E-04	1.78E-03	0.00E+00	6.06E-04	7.50E-01	2.19E-03							
2022	Annual	Mon-Sun	2.27E+09	Pavers D		500	Constructi U	N	NHH	NP	Total	Total	Total	4.76E+01	1.08E+02	1.15E+03	7.84E-03	3.18E-02	5.43E-02	1.26E+01	1.24E-04	2.03E-03	0.00E+00	7.07E-04	5.86E-01	2.29E-03							
2022	Annual	Mon-Sun	2.27E+09	Plate Comp D		15	Constructi U	P	NHH	NP	Total	Total	Total	1.94E+02	3.20E+02	6.29E+01	8.02E-04	4.20E-03	5.02E-03	6.89E-01	1.07E-05	1.96E-04	0.00E+00	7.23E-05	2.63E-02	6.71E-05							
2022	Annual	Mon-Sun	2.27E+09	Rollers D		15	Constructi U	P	NHH	NP	Total	Total	Total	3.65E+02	6.95E+02	2.01E+02	2.56E-03	1.34E-02	1.60E-02	2.20E+00	3.42E-05	6.25E-04	0.00E+00</										

**Table C.19 CARB Offroad 2007 output**

used to calculate CO and SOx because Offroad2011 does not calculate CO and SOx

CY	Season	AvgDays	Code	Equipme nt	Fuel	MaxH P	Class	C/R	Pre	Hand	Port	County	Air Basin	Air Dist.	hr/day for total populatio n		gal/day for total populatio n		ton/day ROG Exhaust	ton/day CO Exhaust	ton/day NOx Exhaust	ton/day CO2 Exhaust	ton/day SO2 Exhaust	ton/day PM Exhaust	ton/day N2O Exhaust	ton/day CH4 Exhaust	lb/hr/equi pment	lb/hr/equi pment
															Population n	Activity	Consump tion	ROG Exhaust										
2022	Annual	Mon-Sun	2.27E+09	Paving Eq	D	120	Constructi	U	P	NHH	NP	Total	Total	Total	1.91E+02	4.38E+02	1.09E+03	1.35E-02	8.13E-02	8.21E-02	1.19E+01	1.40E-04	6.09E-03	0.00E+00	1.22E-03	3.72E-01	6.39E-04	
2022	Annual	Mon-Sun	2.27E+09	Paving Eq	D	175	Constructi	U	P	NHH	NP	Total	Total	Total	8.99E+01	2.06E+02	9.46E+02	8.57E-03	6.09E-02	5.51E-02	1.04E+01	1.17E-04	3.08E-03	0.00E+00	7.73E-04	5.92E-01	1.14E-03	
2022	Annual	Mon-Sun	2.27E+09	Paving Eq	D	250	Constructi	U	N	NHH	NP	Total	Total	Total	2.53E+01	5.80E+01	3.21E+02	2.26E-03	8.02E-03	1.67E-02	3.54E+00	3.98E-05	5.97E-04	0.00E+00	2.04E-04	2.77E-01	1.37E-03	
2022	Annual	Mon-Sun	2.27E+09	Surfacing I	D	50	Constructi	U	P	NHH	NP	Total	Total	Total	1.21E+01	1.49E+01	9.65E+00	1.65E-04	8.57E-04	7.52E-04	1.05E-01	1.36E-06	3.79E-05	0.00E+00	1.49E-05	1.15E-01	1.82E-04	
2022	Annual	Mon-Sun	2.27E+09	Surfacing I	D	120	Constructi	U	P	NHH	NP	Total	Total	Total	2.41E+00	2.98E+00	8.67E+00	7.22E-05	5.95E-04	5.23E-04	9.51E-02	1.12E-06	3.20E-05	0.00E+00	6.51E-06	3.99E-01	7.47E-04	
2022	Annual	Mon-Sun	2.27E+09	Surfacing I	D	175	Constructi	U	P	NHH	NP	Total	Total	Total	1.81E+00	2.24E+00	8.73E+00	5.30E-05	5.20E-04	3.78E-04	9.59E-02	1.08E-06	1.89E-05	0.00E+00	4.79E-06	4.65E-01	9.64E-04	
2022	Annual	Mon-Sun	2.27E+09	Surfacing I	D	250	Constructi	U	N	NHH	NP	Total	Total	Total	3.62E+00	4.48E+00	2.73E+01	1.31E-04	6.00E-04	1.03E-03	3.02E-01	3.39E-06	3.43E-05	0.00E+00	1.18E-05	2.68E-01	1.52E-03	
2022	Annual	Mon-Sun	2.27E+09	Surfacing I	D	500	Constructi	U	N	NHH	NP	Total	Total	Total	3.02E+01	3.73E+01	3.73E+02	1.70E-03	8.37E-03	1.26E-02	4.12E+00	4.05E-05	4.40E-04	0.00E+00	1.54E-04	4.49E-01	2.17E-03	
2022	Annual	Mon-Sun	2.27E+09	Surfacing I	D	750	Constructi	U	N	NHH	NP	Total	Total	Total	3.70E+00	4.58E+00	7.18E+01	3.31E-04	1.61E-03	2.50E-03	7.94E-01	7.98E-06	8.60E-05	0.00E+00	2.98E-05	7.04E-01	3.49E-03	
2022	Annual	Mon-Sun	2.27E+09	Signal Boa	D	15	Constructi	U	P	NHH	NP	Total	Total	Total	1.70E+03	3.49E+03	9.83E+02	1.25E-02	6.57E-02	7.85E-02	1.08E+01	1.67E-04	3.07E-03	0.00E+00	1.13E-03	3.76E-02	9.59E-05	
2022	Annual	Mon-Sun	2.27E+09	Signal Boa	D	50	Constructi	U	P	NHH	NP	Total	Total	Total	8.44E+00	1.24E+01	2.05E+01	2.58E-04	1.70E-03	1.53E-03	2.24E-01	2.90E-06	6.09E-05	0.00E+00	2.33E-05	2.75E-01	4.67E-04	
2022	Annual	Mon-Sun	2.27E+09	Signal Boa	D	120	Constructi	U	P	NHH	NP	Total	Total	Total	1.38E+02	2.03E+02	7.40E+02	4.82E-03	4.98E-02	3.81E-02	8.12E+00	9.52E-05	2.03E-03	0.00E+00	4.35E-04	4.91E-01	9.40E-04	
2022	Annual	Mon-Sun	2.27E+09	Signal Boa	D	175	Constructi	U	P	NHH	NP	Total	Total	Total	8.56E+01	1.26E+02	8.83E+02	4.44E-03	5.20E-02	3.07E-02	9.70E+00	1.09E-04	1.47E-03	0.00E+00	4.00E-04	8.27E-01	1.74E-03	
2022	Annual	Mon-Sun	2.27E+09	Signal Boa	D	250	Constructi	U	N	NHH	NP	Total	Total	Total	1.81E+01	2.65E+01	3.06E+02	1.22E-03	6.25E-03	8.79E-03	3.39E+00	3.81E-05	2.73E-04	0.00E+00	1.10E-04	4.71E-01	2.87E-03	
2022	Annual	Mon-Sun	2.27E+09	Trenchers	D	15	Constructi	U	P	NHH	NP	Total	Total	Total	4.52E+01	7.67E+01	2.96E+01	3.77E-04	1.98E-03	2.36E-03	3.24E-01	5.04E-06	9.23E-05	0.00E+00	3.40E-05	5.16E-02	1.32E-04	
2022	Annual	Mon-Sun	2.27E+09	Trenchers	D	25	Constructi	U	P	NHH	NP	Total	Total	Total	4.76E+01	8.07E+01	1.21E+02	1.60E-03	5.47E-03	1.01E-02	1.33E+00	1.68E-05	3.78E-04	0.00E+00	1.45E-04	1.35E-01	4.17E-04	
2022	Annual	Mon-Sun	2.27E+09	Trenchers	D	50	Constructi	U	P	NHH	NP	Total	Total	Total	1.81E+03	3.12E+03	4.74E+03	1.33E-01	5.24E-01	4.14E-01	5.13E+01	6.63E-04	2.88E-02	0.00E+00	1.20E-02	3.36E-01	4.25E-04	
2022	Annual	Mon-Sun	2.27E+09	Trenchers	D	120	Constructi	U	P	NHH	NP	Total	Total	Total	2.46E+03	4.23E+03	1.25E+04	1.59E-01	9.29E-01	9.77E-01	1.37E+02	1.61E-03	7.26E-02	0.00E+00	1.43E-02	4.39E-01	7.61E-04	
2022	Annual	Mon-Sun	2.27E+09	Trenchers	D	175	Constructi	U	P	NHH	NP	Total	Total	Total	2.69E+02	4.63E+02	3.03E+03	2.78E-02	1.93E-01	1.84E-01	3.33E+01	3.74E-04	1.02E-02	0.00E+00	2.50E-03	8.35E-01	1.62E-03	
2022	Annual	Mon-Sun	2.27E+09	Trenchers	D	250	Constructi	U	N	NHH	NP	Total	Total	Total	2.41E+01	4.15E+01	4.19E+02	2.99E-03	1.08E-02	2.29E-02	4.62E+00	5.20E-05	8.43E-04	0.00E+00	2.70E-04	5.20E-01	2.51E-03	
2022	Annual	Mon-Sun	2.27E+09	Trenchers	D	500	Constructi	U	N	NHH	NP	Total	Total	Total	3.08E+01	5.29E+01	7.46E+02	5.02E-03	2.13E-02	3.67E-02	8.23E+00	8.08E-05	1.38E-03	0.00E+00	4.53E-04	8.06E-01	3.05E-03	
2022	Annual	Mon-Sun	2.27E+09	Trenchers	D	750	Constructi	U	N	NHH	NP	Total	Total	Total	7.41E-01	1.27E+00	3.38E+01	2.29E-04	9.65E-04	1.71E-03	3.73E-01	3.75E-06	6.35E-05	0.00E+00	2.07E-05	1.52E+00	5.90E-03	
2022	Annual	Mon-Sun	2.27E+09	Bore/Drill	D	15	Constructi	U	P	NHH	P	Total	Total	Total	6.03E+00	1.34E+01	6.33E+00	8.07E-05	4.23E-04	5.05E-04	6.93E-02	1.08E-06	1.97E-05	0.00E+00	7.28E-06	6.31E-02	1.61E-04	
2022	Annual	Mon-Sun	2.27E+09	Bore/Drill	D	25	Constructi	U	P	NHH	P	Total	Total	Total	1.81E+01	4.02E+01	2.93E+01	3.88E-04	1.32E-03	2.45E-03	3.21E-01	4.08E-06	9.15E-05	0.00E+00	3.50E-05	6.28E-02	2.03E-04	
2022	Annual	Mon-Sun	2.27E+09	Bore/Drill	D	50	Constructi	U	P	NHH	P	Total	Total	Total	7.90E+01	1.82E+02	2.57E+02	1.74E-03	2.00E-02	1.53E-02	8.82E+00	3.65E-05	1.01E-04	0.00E+00	1.57E-04	2.20E-01	4.01E-04	
2022	Annual	Mon-Sun	2.27E+09	Bore/Drill	D	120	Constructi	U	P	NHH	P	Total	Total	Total	2.42E+02	5.58E+02	1.96E+03	7.29E-03	1.30E-01	5.83E-02	2.15E+01	2.52E-04	6.90E-04	0.00E+00	6.58E-04	4.66E-01	9.04E-04	
2022	Annual	Mon-Sun	2.27E+09	Bore/Drill	D	175	Constructi	U	P	NHH	P	Total	Total	Total	5.61E+01	1.29E+02	8.27E+02	2.27E-03	4.86E-02	7.61E-03	9.10E+00	1.02E-04	2.28E-04	0.00E+00	2.05E-04	7.53E-01	1.59E-03	
2022	Annual	Mon-Sun	2.27E+09	Bore/Drill	D	250	Constructi	U	N	NHH	P	Total	Total	Total	4.83E+01	1.11E+02	9.43E+02	2.45E-03	1.90E-02	6.55E-03	1.04E+01	1.17E-04	2.17E-04	0.00E+00	2.21E-04	3.42E-01	2.11E-03	
2022	Annual	Mon-Sun	2.27E+09	Bore/Drill	D	500	Constructi	U	N	NHH	P	Total	Total	Total	1.07E+02	2.47E+02	3.47E+03	9.02E-03	6.80E-02	2.39E-02	3.84E+01	3.77E-04	7.98E-04	0.00E+00	8.14E-04	5.51E-01	3.05E-03	
2022	Annual	Mon-Sun	2.27E+09	Bore/Drill	D	750	Constructi	U	N	NHH	P	Total	Total	Total	1.15E+01	2.64E+01	7.34E+02	1.91E-03	1.44E-02	5.04E-03	8.12E+00	8.17E-05	1.69E-04	0.00E+00	1.72E-04	1.09E+00	6.18E-03	
2022	Annual	Mon-Sun	2.27E+09	Bore/Drill	D	1000	Constructi	U	N	NHH	P	Total	Total	Total	1.93E+01	4.43E+01	1.86E+03	4.96E-03	3.64E-02	8.70E-02	2.05E+01	2.06E-04	9.46E-04	0.00E+00	4.47E-04	1.64E+00	9.33E-03	
2022	Annual	Mon-Sun	2.27E+09	Excavators	D	25	Constructi	U	P	NHH	NP	Total	Total	Total	2.23E+01	8.54E+01	6.39E+01	8.46E-04	2.89E-03	5.35E-03	7.02E-01	8.90E-06	2.00E-04	0.00E+00	7.64E-05	6.76E-02	2.08E-04	
2022	Annual	Mon-Sun	2.27E+09	Excavators	D	50	Constructi	U	P	NHH	NP	Total	Total	Total	8.40E+02	3.26E+03	3.74E+03	5.46E-02	3.91E-01	2.84E-01	4.07E+01	5.26E-04	9.41E-03	0.00E+00	4.92E-03	2.40E-01	3.23E-04	
2022	Annual	Mon-Sun	2.27E+09	Excavators	D	120	Constructi	U	P	NHH	NP	Total	Total	Total	2.28E+03	8.84E+03	2.97E+04	2.26E-01	2.19E+00	1.41E+00	3.25E+02	3.81E-03	6.54E-02	0.00E+00	2.04E-02	4.95E-01	8.63E-04	
2022	Annual	Mon-Sun	2.27E+09	Excavators	D	175	Constructi	U	P	NHH	NP	Total	Total	Total	4.40E+03	1.71E+04	8.71E+04	5.23E-01	5.65E+00	2.51E+00	9.56E+02	1.08E-02	1.24E-01	0.00E+00	4.72E-02	6.63E-01	1.26E-03	
2022	Annual	Mon-Sun	2.27E+09	Excavators	D	250	Constructi	U	N	NHH	NP	Total	Total	Total	1.79E+03	6.94E+03	4.98E+04	2.58E-01	1.12E+00	1.17E+00	5.50E+02	6.19E-03	4.02E-02	0.00E+00	2.32E-02	3.24E-01	1.78E-03	
2022	Annual	Mon-Sun	2.27E+09	Excavators	D	500	Constructi	U	N	NHH	NP	Total	Total	Total	1.29E+03	5.00E+03	5.29E+04	2.70E-01	1.13E+00	1.15E+00	5.84E+02	5.73E-03	4.16E-02	0.00E+00	2.44E-02	4.54E-01	2.29E-03	
2022	Annual	Mon-Sun	2.27E+09	Excavators	D	750	Constructi	U	N	NHH	NP	Total	Total	Total	5.80E+00	2.25E+01	3.94E+02	2.01E-03	8.45E-03	8.65E-03	4.35E+00	4.38E-05	3.12E-04	0.00E+00	1.82E-04	7.52E-01	3.89E-03	
2022	Annual	Mon-Sun	2.27E+09	Concrete/I	D	25	Constructi	U	P	NHH	NP	Total	Total	Total	2.41E+00	3.92E+00	2.94E+00	3.89E-05	1.33E-04	2.46E-04	3.22E-02	4.09E-07	9.18E-06	0.00E+00	3.51E-06	6.78E-02	2.09E-04	
2022	Annual	Mon-Sun	2.27E+09	Concrete/I	D	50	Constructi	U	P	NHH	NP	Total	Total	Total	2.11E+01	3.36E+01	4.64E+01	5.88E-04	3.94E-03	3.51E-03	5.07E-01	6.55E-06	1.41E-04	0.00E+00	5.31E-05	2.35E-01	3.90E-04	
2022	Annual	Mon-Sun	2.27E+09	Concrete/I	D	120	Constructi	U	P	NHH	NP	Total	Total	Total	3.68E+01	5.85E+01	1.98E+02	1.31E-03	1.34E-02	1.02E-02	2.17E+00	2.54E-05	5.50E-04	0.00E+00	1.18E-04	4.58E-01	8.69E-04	
2022	Annual	Mon-Sun	2.27E+09	Concrete/I	D	175	Constructi	U	P	NHH	NP	Total	Total	Total	1.21E+00	1.92E+00	1.40E+01	7.23E-05	8.30E-04	4.88E-04	1.54E-01	1.73E-06	2.41E-05	0.00E+00	6.53E-06	8.65E-01	1.80E-03	
2022	Annual	Mon-Sun	2.27E+09	Cement an	D	15	Constructi	U	P	NHH	NP	Total	Total	Total	3.08E+02	2.54E+02	7.											

Table C.19 CARB Offroad 2007 output

used to calculate CO and SOx because Offroad2011 does not calculate CO and SOx

CY	Season	AvgDays	Code	Equipme nt	Fuel	MaxH P	Class	C/R	Pre	Hand	Port	County	Air Basin	Air Dist.	Populatio n	Activity	hr/day for total populatio n		ton/day										lb/hr/equi pment		lb/hr/equi pment	
																	Consump tion	ROG Exhaust	CO Exhaust	NOX Exhaust	CO2 Exhaust	SO2 Exhaust	PM Exhaust	N2O Exhaust	CH4 Exhaust	CO	SOx					
																	ton/day	ton/day	ton/day	ton/day	ton/day	ton/day	ton/day	ton/day	ton/day	ton/day	ton/day					
2022	Annual	Mon-Sun	2.27E+09	Off-High D		175	Constructi	U	P	NHH	NP	Total	Total	Total	3.92E+01	2.13E+02	1.21E+03	7.80E-03	8.01E-02	3.72E-02	1.33E+01	1.50E-04	1.87E-03	0.00E+00	7.04E-04	7.53E-01	1.41E-03					
2022	Annual	Mon-Sun	2.27E+09	Off-High D		250	Constructi	U	N	NHH	NP	Total	Total	Total	2.90E+02	1.57E+03	1.18E+04	6.56E-02	2.73E-01	2.98E-01	1.31E+02	1.47E-03	1.03E-02	0.00E+00	5.91E-03	3.47E-01	1.87E-03					
2022	Annual	Mon-Sun	2.27E+09	Off-High D		500	Constructi	U	N	NHH	NP	Total	Total	Total	4.08E+02	2.21E+03	2.72E+04	1.49E-01	5.94E-01	6.32E-01	3.01E+02	2.95E-03	2.31E-02	0.00E+00	1.34E-02	5.37E-01	2.67E-03					
2022	Annual	Mon-Sun	2.27E+09	Off-High D		750	Constructi	U	N	NHH	NP	Total	Total	Total	7.76E+01	4.21E+02	8.41E+03	4.61E-02	1.84E-01	1.98E-01	9.29E+01	9.35E-04	7.19E-03	0.00E+00	4.16E-03	8.72E-01	4.44E-03					
2022	Annual	Mon-Sun	2.27E+09	Off-High D		1000	Constructi	U	N	NHH	NP	Total	Total	Total	3.64E+01	1.97E+02	5.58E+03	3.20E-02	1.25E-01	3.48E-01	6.16E+01	6.19E-04	7.24E-03	0.00E+00	2.89E-03	1.26E+00	6.28E-03					
2022	Annual	Mon-Sun	2.27E+09	Crushing/PD		50	Constructi	U	P	NHH	P	Total	Total	Total	9.65E+01	2.53E+02	5.10E+02	7.78E-03	4.97E-02	3.99E-02	5.56E+00	7.18E-05	1.69E-03	0.00E+00	7.02E-04	3.93E-01	5.69E-04					
2022	Annual	Mon-Sun	2.27E+09	Crushing/PD		120	Constructi	U	P	NHH	P	Total	Total	Total	2.72E+02	7.12E+02	2.70E+03	2.14E-02	1.93E-01	1.44E-01	2.96E+01	3.47E-04	8.02E-03	0.00E+00	1.93E-03	5.42E-01	9.74E-04					
2022	Annual	Mon-Sun	2.27E+09	Crushing/PD		175	Constructi	U	P	NHH	P	Total	Total	Total	1.15E+02	3.00E+02	2.30E+03	1.44E-02	1.44E-01	8.26E-02	2.52E+01	2.84E-04	4.26E-03	0.00E+00	1.30E-03	9.52E-01	1.88E-03					
2022	Annual	Mon-Sun	2.27E+09	Crushing/PD		250	Constructi	U	N	NHH	P	Total	Total	Total	1.15E+01	3.02E+01	3.32E+02	1.68E-03	7.19E-03	9.81E-03	3.67E+00	4.12E-05	3.23E-04	0.00E+00	1.52E-04	4.79E-01	2.75E-03					
2022	Annual	Mon-Sun	2.27E+09	Crushing/PD		500	Constructi	U	N	NHH	P	Total	Total	Total	6.45E+01	1.69E+02	2.85E+03	1.42E-02	5.93E-02	7.71E-02	3.15E+01	3.10E-04	2.70E-03	0.00E+00	1.28E-03	7.01E-01	3.66E-03					
2022	Annual	Mon-Sun	2.27E+09	Crushing/PD		750	Constructi	U	N	NHH	P	Total	Total	Total	6.17E-01	1.62E+00	4.30E+01	2.14E-04	8.93E-04	1.19E-03	4.75E-01	4.78E-06	4.07E-05	0.00E+00	1.93E-05	1.11E+00	5.92E-03					
2022	Annual	Mon-Sun	2.27E+09	Crushing/PD		9999	Constructi	U	N	NHH	P	Total	Total	Total	6.17E-01	1.62E+00	9.56E+01	5.59E-04	2.08E-03	6.15E-03	1.06E+00	1.06E-05	1.36E-04	0.00E+00	5.04E-05	2.58E+00	1.31E-02					
2022	Annual	Mon-Sun	2.27E+09	Rough Ter D		50	Constructi	U	P	NHH	NP	Total	Total	Total	6.69E+01	2.07E+02	3.22E+02	4.63E-03	3.21E-02	2.48E-02	3.51E+00	4.54E-05	9.17E-04	0.00E+00	4.18E-04	3.10E-01	4.37E-04					
2022	Annual	Mon-Sun	2.27E+09	Rough Ter D		120	Constructi	U	P	NHH	NP	Total	Total	Total	3.21E+03	9.94E+03	2.83E+04	2.15E-01	2.05E+00	1.40E+00	3.10E+02	3.64E-03	7.14E-02	0.00E+00	1.94E-02	4.12E-01	7.32E-04					
2022	Annual	Mon-Sun	2.27E+09	Rough Ter D		175	Constructi	U	P	NHH	NP	Total	Total	Total	4.11E+02	1.27E+03	7.23E+03	4.38E-02	4.60E-01	2.29E-01	7.94E+01	8.94E-04	1.17E-02	0.00E+00	3.95E-03	7.22E-01	1.40E-03					
2022	Annual	Mon-Sun	2.27E+09	Rough Ter D		250	Constructi	U	N	NHH	NP	Total	Total	Total	2.29E+01	7.10E+01	5.48E+02	2.79E-03	1.21E-02	1.42E-02	6.06E+00	6.82E-05	4.85E-04	0.00E+00	2.52E-04	3.40E-01	1.92E-03					
2022	Annual	Mon-Sun	2.27E+09	Rough Ter D		500	Constructi	U	N	NHH	NP	Total	Total	Total	1.51E+01	4.67E+01	5.42E+02	2.72E-03	1.14E-02	1.30E-02	5.99E+00	5.88E-05	4.67E-04	0.00E+00	2.45E-04	4.87E-01	2.52E-03					
2022	Annual	Mon-Sun	2.27E+09	Rubber Tir D		25	Constructi	U	P	NHH	NP	Total	Total	Total	8.44E+00	2.22E+01	1.71E+01	2.26E-04	7.72E-04	1.43E-03	1.87E-01	2.38E-06	5.34E-05	0.00E+00	2.04E-05	6.96E-02	2.15E-04					
2022	Annual	Mon-Sun	2.27E+09	Rubber Tir D		50	Constructi	U	P	NHH	NP	Total	Total	Total	1.64E+02	4.37E+02	6.25E+02	1.12E-02	6.52E-02	1.47E-02	6.79E+00	8.78E-05	2.28E-03	0.00E+00	1.01E-03	2.99E-01	4.02E-04					
2022	Annual	Mon-Sun	2.27E+09	Rubber Tir D		120	Constructi	U	P	NHH	NP	Total	Total	Total	4.46E+03	1.19E+04	3.19E+04	2.86E-01	2.34E+00	1.80E+00	3.49E+02	4.10E-03	1.06E-01	0.00E+00	2.58E-02	3.94E-01	6.90E-04					
2022	Annual	Mon-Sun	2.27E+09	Rubber Tir D		175	Constructi	U	P	NHH	NP	Total	Total	Total	2.51E+03	6.69E+03	3.24E+04	2.21E-01	2.07E+00	1.24E+00	3.55E+02	4.00E-03	6.47E-02	0.00E+00	2.00E-02	6.20E-01	1.20E-03					
2022	Annual	Mon-Sun	2.27E+09	Rubber Tir D		250	Constructi	U	N	NHH	NP	Total	Total	Total	2.50E+03	6.65E+03	4.48E+04	2.54E-01	1.03E+00	1.47E+00	4.95E+02	5.57E-03	5.11E-02	0.00E+00	2.29E-02	3.10E-01	1.67E-03					
2022	Annual	Mon-Sun	2.27E+09	Rubber Tir D		500	Constructi	U	N	NHH	NP	Total	Total	Total	1.04E+03	2.77E+03	2.97E+04	1.63E-01	6.69E-01	8.78E-01	3.28E+02	3.22E-03	3.21E-02	0.00E+00	1.47E-02	4.83E-01	2.32E-03					
2022	Annual	Mon-Sun	2.27E+09	Rubber Tir D		750	Constructi	U	N	NHH	NP	Total	Total	Total	1.49E+01	3.97E+01	8.72E+02	4.81E-03	1.97E-02	2.64E-02	9.64E+00	9.69E-05	9.55E-04	0.00E+00	4.34E-04	9.90E-01	4.88E-03					
2022	Annual	Mon-Sun	2.27E+09	Rubber Tir D		1000	Constructi	U	N	NHH	NP	Total	Total	Total	1.60E+00	4.26E+00	1.15E+02	6.66E-04	2.67E-03	7.75E-03	1.27E+00	1.27E-05	1.73E-04	0.00E+00	6.01E-05	1.25E+00	5.97E-03					
2022	Annual	Mon-Sun	2.27E+09	Rubber Tir D		175	Constructi	U	P	NHH	NP	Total	Total	Total	6.03E+00	2.67E+01	1.58E+02	1.81E-03	1.08E-02	1.15E-02	1.73E+00	1.94E-05	6.48E-04	0.00E+00	1.64E-04	8.07E-01	1.46E-03					
2022	Annual	Mon-Sun	2.27E+09	Rubber Tir D		250	Constructi	U	N	NHH	NP	Total	Total	Total	1.48E+02	6.55E+02	5.45E+03	5.02E-02	1.63E-01	3.64E-01	6.00E+01	6.75E-04	1.43E-02	0.00E+00	4.53E-03	4.97E-01	2.06E-03					
2022	Annual	Mon-Sun	2.27E+09	Rubber Tir D		500	Constructi	U	N	NHH	NP	Total	Total	Total	2.27E+02	1.01E+02	1.21E+04	1.05E-01	4.24E-01	7.32E-01	1.33E+02	1.31E-03	2.89E-02	0.00E+00	9.45E-03	8.42E-01	2.60E-03					
2022	Annual	Mon-Sun	2.27E+09	Rubber Tir D		750	Constructi	U	N	NHH	NP	Total	Total	Total	1.64E+01	7.27E+01	1.31E+03	1.14E-02	4.60E-02	8.13E-02	1.45E+01	1.46E-04	3.17E-03	0.00E+00	1.03E-03	1.27E+00	4.01E-03					
2022	Annual	Mon-Sun	2.27E+09	Rubber Tir D		1000	Constructi	U	N	NHH	NP	Total	Total	Total	1.11E+00	4.91E+00	1.32E+02	1.21E-03	5.01E-03	1.25E-02	1.45E+00	1.46E-05	3.60E-04	0.00E+00	1.10E-04	2.04E+00	5.95E-03					
2022	Annual	Mon-Sun	2.27E+09	Tractors/Ld		25	Constructi	U	P	NHH	NP	Total	Total	Total	1.70E+02	4.39E+02	3.17E+02	4.20E-03	1.43E-02	2.65E-02	3.48E+00	4.42E-05	9.91E-04	0.00E+00	3.79E-04	6.53E-02	2.01E-04					
2022	Annual	Mon-Sun	2.27E+09	Tractors/Ld		50	Constructi	U	P	NHH	NP	Total	Total	Total	1.02E+03	3.67E+03	3.71E+03	4.72E-02	3.62E-01	2.73E-01	4.05E+01	5.23E-04	8.22E-03	0.00E+00	4.26E-03	2.71E-01	3.92E-04					
2022	Annual	Mon-Sun	2.27E+09	Tractors/Ld		120	Constructi	U	P	NHH	NP	Total	Total	Total	1.36E+04	3.57E+04	8.42E+04	5.71E-01	6.04E+00	3.77E+02	1.08E-02	1.61E-01	0.00E+00	5.15E-02	3.39E-01	6.06E-04						
2022	Annual	Mon-Sun	2.27E+09	Tractors/Ld		175	Constructi	U	P	NHH	NP	Total	Total	Total	1.01E+03	2.66E+03	1.23E+04	6.64E-02	7.77E-01	3.24E-01	1.35E+02	1.52E-03	1.54E-02	0.00E+00	5.99E-03	5.83E-01	1.14E-03					
2022	Annual	Mon-Sun	2.27E+09	Tractors/Ld		250	Constructi	U	N	NHH	NP	Total	Total	Total	3.28E+02	8.62E+02	6.69E+03	3.14E-02	1.47E-01	1.42E-01	7.39E+01	8.32E-04	4.87E-03	0.00E+00	2.83E-03	3.41E-01	1.93E-03					
2022	Annual	Mon-Sun	2.27E+09	Tractors/Ld		500	Constructi	U	N	NHH	NP	Total	Total	Total	5.30E+02	1.39E+03	2.17E+04	1.01E-01	4.56E-01	4.27E-01	2.40E+02	2.70E-03	1.54E-02	0.00E+00	9.07E-03	6.56E-01	3.88E-03					
2022	Annual	Mon-Sun	2.27E+09	Tractors/Ld		750	Constructi	U	N	NHH	NP	Total	Total	Total	7.47E+01	1.96E+02	4.59E+03	2.13E-02	9.65E-02	9.14E-02	5.07E+01	5.71E-04	3.27E-03	0.00E+00	1.92E-03	9.83E-01	5.82E-03					
2022	Annual	Mon-Sun	2.27E+09	Crawler Tr D		50	Constructi	U	P	NHH	NP	Total	Total	Total	8.44E+00	2.40E+01	2.76E+01	7.23E-04	3.21E-03	2.29E-03	2.98E-01	3.86E-06	1.48E-04	0.00E+00	6.52E-05	2.67E-01	3.21E-04					
2022	Annual	Mon-Sun	2.27E+09	Crawler Tr D		120	Constructi	U	P	NHH	NP	Total	Total	Total	4.79E+03	1.36E+04	4.10E+04	4.98E-01	3.12E+00	2.92E+00	4.48E+02	5.25E-03	2.07E-01	0.00E+00	4.49E-02	4.58E-01	7.71E-04					
2022	Annual	Mon-Sun	2.27E+09	Crawler Tr D		175	Constructi	U	P	NHH	NP	Total	Total	Total	1.62E+03	4.61E+03	2.55E+04	2.28E-01	1.68E+00	1.37E+00	2.79E+02	3.14E-03	7.56E-02	0.00E+00	2.06E-02	7.28E-01	1.36E-03					
2022	Annual	Mon-Sun	2.27E+09	Crawler Tr D		250	Constructi	U	N	NHH	NP	Total	Total	Total	1.39E+03	3.96E+03	2.98E+04	2.11E-01	7.54E-01	1.42E+00	3.29E+02	3.70E-03	5.10E-02	0.00E+00	1.90E-02	3.81E-01	1.87E-03					
2022	Annual	Mon-Sun	2.27E+09	Crawler Tr D		500	Constructi	U	N	NHH	NP	Total	Total	Total	9.55E+02	2.71E+03	3.19E+04	2.15E-01	8.50E-01	1.37E+00	3.52E+02	3.45E-03	5.07E-02	0.00E+00	1.94E-02	6.26E-01	2.54E-03					
2022	Annual	Mon-Sun	2.27E+09	Crawler Tr D		750	Constructi	U	N	NHH	NP	Total	Total	Total	9.87E+00	2.80E+01	5.90E+02	4.01E-03	1.57E-02	2.60E-02	6.51E+00	6.55										

**Table C.19 CARB Offroad 2007 output**

used to calculate CO and SOx because Offroad2011 does not calculate CO and SOx

CY	Season	AvgDays	Code	Equipment	Fuel	MaxHP	Class	C/R	Pre	Hand	Port	County	Air Basin	Air Dist.	Population	Activity	Consumption	ROG Exhaust	CO Exhaust	NOX Exhaust	CO2 Exhaust	SO2 Exhaust	PM Exhaust	N2O Exhaust	CH4 Exhaust	lb/hr/equi													
																										ment	ment												
																hr/day for total population	gal/day for total population																						
																n	n	ton/day	ton/day	ton/day	ton/day	ton/day	ton/day	ton/day	ton/day	ton/day	ton/day	ton/day	ton/day	ton/day	ton/day	ton/day	ton/day	ton/day	ton/day	ton/day	ton/day	ton/day	ton/day
2022	Annual	Mon-Sun	2.27E+09	Other Cons:D	D	175	Constructio	U	P	NHH	NP	Total	Total	Total	1.18E+02	2.27E+02	1.10E+03	5.20E-03	6.63E-02	2.92E-02	1.21E+01	1.36E-04	1.39E-03	0.00E+00	4.70E-04	5.85E-01	1.20E-03												
2022	Annual	Mon-Sun	2.27E+09	Other Cons:D	D	500	Constructio	U	N	NHH	NP	Total	Total	Total	2.74E+02	5.26E+02	6.04E+03	2.40E-02	1.22E-01	1.21E-01	6.68E+01	6.56E-04	4.19E-03	0.00E+00	2.17E-03	4.63E-01	2.49E-03												
2023	Annual	Mon-Sun	2.27E+09	Pavers	D	25	Constructio	U	P	NHH	NP	Total	Total	Total	9.17E+00	2.06E+01	1.75E+01	2.32E-04	7.92E-04	1.47E-03	1.92E-01	2.44E-06	5.53E-05	0.00E+00	2.10E-05	7.68E-02	2.37E-04												
2023	Annual	Mon-Sun	2.27E+09	Pavers	D	50	Constructio	U	P	NHH	NP	Total	Total	Total	5.33E+02	1.21E+03	1.57E+03	4.04E-02	1.75E-01	1.34E-01	1.70E+01	2.19E-04	8.47E-03	0.00E+00	3.64E-03	2.89E-01	3.62E-04												
2023	Annual	Mon-Sun	2.27E+09	Pavers	D	120	Constructio	U	P	NHH	NP	Total	Total	Total	6.29E+02	1.43E+03	4.52E+03	5.38E-02	3.38E-01	3.24E-01	4.95E+01	5.80E-04	2.31E-02	0.00E+00	4.85E-03	4.73E-01	8.11E-04												
2023	Annual	Mon-Sun	2.27E+09	Pavers	D	175	Constructio	U	P	NHH	NP	Total	Total	Total	3.91E+02	8.89E+02	5.20E+03	4.52E-02	3.36E-01	2.80E-01	5.70E+01	6.41E-04	1.55E-02	0.00E+00	4.08E-03	7.56E-01	1.44E-03												
2023	Annual	Mon-Sun	2.27E+09	Pavers	D	250	Constructio	U	N	NHH	NP	Total	Total	Total	4.71E+01	1.07E+02	9.43E+02	6.47E-03	2.37E-02	4.54E-02	1.04E+01	1.17E-04	1.64E-03	0.00E+00	5.84E-04	4.41E-01	2.19E-03												
2023	Annual	Mon-Sun	2.27E+09	Pavers	D	500	Constructio	U	N	NHH	NP	Total	Total	Total	4.83E+01	1.10E+02	1.16E+03	7.58E-03	3.12E-02	5.02E-02	1.28E+01	1.26E-04	1.87E-03	0.00E+00	6.84E-04	5.67E-01	2.29E-03												
2023	Annual	Mon-Sun	2.27E+09	Plate Comy	D	15	Constructio	U	P	NHH	NP	Total	Total	Total	1.97E+02	3.24E+02	6.38E+01	8.13E-04	4.26E-03	5.09E-03	6.98E-01	1.09E-05	1.99E-04	0.00E+00	7.33E-05	2.63E-02	6.71E-05												
2023	Annual	Mon-Sun	2.27E+09	Rollers	D	15	Constructio	U	P	NHH	NP	Total	Total	Total	3.70E+02	7.05E+02	2.03E+02	2.59E-03	1.36E-02	1.62E-02	2.23E+00	3.46E-05	6.34E-04	0.00E+00	2.34E-04	3.86E-02	8.83E-05												
2023	Annual	Mon-Sun	2.27E+09	Rollers	D	25	Constructio	U	P	NHH	NP	Total	Total	Total	1.55E+02	2.95E+02	1.79E+02	2.37E-03	8.09E-03	1.50E-02	1.96E+00	2.49E-05	5.60E-04	0.00E+00	2.14E-04	5.49E-02	1.69E-04												
2023	Annual	Mon-Sun	2.27E+09	Rollers	D	50	Constructio	U	P	NHH	NP	Total	Total	Total	4.81E+02	9.23E+02	1.10E+03	1.86E-02	1.07E-01	8.63E-02	1.20E+01	1.55E-04	4.07E-03	0.00E+00	1.68E-03	2.31E-01	3.36E-04												
2023	Annual	Mon-Sun	2.27E+09	Rollers	D	120	Constructio	U	P	NHH	NP	Total	Total	Total	2.58E+03	4.96E+03	1.33E+04	1.11E-01	9.46E-01	7.52E-01	1.46E+02	1.71E-03	4.47E-02	0.00E+00	1.00E-02	3.82E-01	6.91E-04												
2023	Annual	Mon-Sun	2.27E+09	Rollers	D	175	Constructio	U	P	NHH	NP	Total	Total	Total	1.04E+03	1.99E+03	9.80E+03	6.22E-02	6.07E-01	3.79E-01	1.08E+02	1.21E-03	1.98E-02	0.00E+00	5.61E-03	6.09E-01	1.22E-03												
2023	Annual	Mon-Sun	2.27E+09	Rollers	D	250	Constructio	U	N	NHH	NP	Total	Total	Total	1.47E+02	2.83E+02	1.96E+03	1.02E-02	4.36E-02	6.53E-02	2.16E+01	2.43E-04	2.27E-03	0.00E+00	9.21E-04	3.09E-01	1.72E-03												
2023	Annual	Mon-Sun	2.27E+09	Rollers	D	500	Constructio	U	N	NHH	NP	Total	Total	Total	1.03E+02	1.98E+02	1.96E+03	9.96E-03	4.27E-02	5.91E-02	2.17E+01	2.13E-04	2.16E-03	0.00E+00	8.98E-04	4.31E-01	2.15E-03												
2023	Annual	Mon-Sun	2.27E+09	Scrapers	D	120	Constructio	U	P	NHH	NP	Total	Total	Total	2.38E+01	7.24E+01	3.10E+02	3.63E-03	2.36E-02	2.14E-02	3.39E+00	3.98E-05	1.48E-03	0.00E+00	3.28E-04	6.52E-01	1.10E-03												
2023	Annual	Mon-Sun	2.27E+09	Scrapers	D	175	Constructio	U	P	NHH	NP	Total	Total	Total	2.18E+02	6.62E+02	4.47E+03	3.84E-02	2.94E-01	2.27E-01	4.90E+01	5.51E-04	1.25E-02	0.00E+00	3.46E-03	8.88E-01	1.66E-03												
2023	Annual	Mon-Sun	2.27E+09	Scrapers	D	250	Constructio	U	N	NHH	NP	Total	Total	Total	2.13E+02	6.46E+02	6.12E+03	4.20E-02	1.54E-01	1.76E-01	6.76E+01	7.60E-04	9.95E-03	0.00E+00	3.79E-03	4.76E-01	2.35E-03												
2023	Annual	Mon-Sun	2.27E+09	Scrapers	D	500	Constructio	U	N	NHH	NP	Total	Total	Total	5.86E+02	1.78E+03	2.59E+04	1.70E-01	6.84E-01	2.05E+00	2.85E+02	2.80E-03	3.91E-02	0.00E+00	1.53E-02	7.69E-01	3.15E-03												
2023	Annual	Mon-Sun	2.27E+09	Scrapers	D	750	Constructio	U	N	NHH	NP	Total	Total	Total	1.96E+01	5.96E+01	1.50E+03	9.87E-03	3.95E-02	6.24E-02	1.65E+01	1.66E-04	2.30E-03	0.00E+00	8.91E-04	1.33E+00	5.58E-03												
2023	Annual	Mon-Sun	2.27E+09	Paving Eq	D	25	Constructio	U	P	NHH	NP	Total	Total	Total	1.59E+01	3.61E+01	2.08E+01	2.75E-04	9.39E-04	1.74E-03	2.28E-01	2.89E-06	6.49E-05	0.00E+00	2.48E-05	5.19E-02	1.60E-04												
2023	Annual	Mon-Sun	2.27E+09	Paving Eq	D	50	Constructio	U	P	NHH	NP	Total	Total	Total	1.35E+01	3.08E+01	3.40E+01	8.47E-04	3.74E-03	2.89E-03	3.68E-01	4.76E-06	1.81E-04	0.00E+00	7.64E-05	2.43E-01	3.09E-04												
2023	Annual	Mon-Sun	2.27E+09	Paving Eq	D	120	Constructio	U	P	NHH	NP	Total	Total	Total	1.94E+02	4.43E+02	1.10E+03	1.28E-02	8.20E-02	7.80E-02	1.21E+01	1.42E-04	5.56E-03	0.00E+00	1.15E-03	3.70E-01	6.39E-04												
2023	Annual	Mon-Sun	2.27E+09	Paving Eq	D	175	Constructio	U	P	NHH	NP	Total	Total	Total	9.11E+01	2.08E+02	9.59E+02	8.14E-03	6.16E-02	5.09E-02	1.05E+01	1.18E-04	2.82E-03	0.00E+00	7.35E-04	5.91E-01	1.14E-03												
2023	Annual	Mon-Sun	2.27E+09	Paving Eq	D	250	Constructio	U	N	NHH	NP	Total	Total	Total	2.57E+01	5.88E+01	3.25E+02	2.17E-03	7.99E-03	1.54E-02	3.59E+00	4.04E-05	5.49E-04	0.00E+00	1.96E-04	2.72E-01	1.37E-03												
2023	Annual	Mon-Sun	2.27E+09	Surfacing ID	D	50	Constructio	U	P	NHH	NP	Total	Total	Total	1.22E+01	1.51E+01	9.78E+00	1.53E-04	8.56E-04	7.41E-04	1.07E+01	1.38E-06	3.42E-05	0.00E+00	1.38E-05	1.13E-01	1.82E-04												
2023	Annual	Mon-Sun	2.27E+09	Surfacing ID	D	120	Constructio	U	P	NHH	NP	Total	Total	Total	2.45E+00	3.02E+00	8.79E+00	6.75E-05	6.01E-04	4.95E-04	6.93E-02	1.13E-06	2.86E-05	0.00E+00	6.09E-06	3.97E-01	7.47E-04												
2023	Annual	Mon-Sun	2.27E+09	Surfacing ID	D	175	Constructio	U	P	NHH	NP	Total	Total	Total	1.83E+00	2.27E+00	8.85E+00	5.00E-05	5.27E-04	3.43E-04	9.72E-02	1.09E-06	1.70E-05	0.00E+00	4.51E-06	4.64E-01	9.64E-04												
2023	Annual	Mon-Sun	2.27E+09	Surfacing ID	D	250	Constructio	U	N	NHH	NP	Total	Total	Total	3.67E+00	4.54E+00	2.77E+01	1.26E-04	6.01E-04	9.33E-04	3.06E-01	3.44E-06	6.13E-05	0.00E+00	1.14E-05	2.65E-01	1.52E-03												
2023	Annual	Mon-Sun	2.27E+09	Surfacing ID	D	500	Constructio	U	N	NHH	NP	Total	Total	Total	3.06E+01	3.78E+01	3.78E+02	1.65E-03	8.30E-03	1.15E-02	4.18E+00	4.10E-05	4.03E-04	0.00E+00	1.49E-04	4.39E-01	2.17E-03												
2023	Annual	Mon-Sun	2.27E+09	Surfacing ID	D	750	Constructio	U	N	NHH	NP	Total	Total	Total	3.75E+00	4.64E+00	7.28E+01	3.20E-04	1.60E-03	2.27E-03	8.04E-01	8.09E-06	7.87E-05	0.00E+00	2.88E-05	6.88E-01	3.49E-03												
2023	Annual	Mon-Sun	2.27E+09	Signal Boa	D	15	Constructio	U	P	NHH	NP	Total	Total	Total	1.72E+03	3.56E+03	9.97E+02	1.27E-02	6.66E-02	7.95E-01	1.70E-04	3.11E-03	0.00E+00	1.15E-03	3.97E-02	9.59E-05													
2023	Annual	Mon-Sun	2.27E+09	Signal Boa	D	50	Constructio	U	P	NHH	NP	Total	Total	Total	8.56E+00	1.26E+01	2.08E+01	2.41E-04	1.71E-03	1.50E-03	2.27E-01	2.93E-06	5.29E-05	0.00E+00	2.18E-05	2.72E-01	4.67E-04												
2023	Annual	Mon-Sun	2.27E+09	Signal Boa	D	120	Constructio	U	P	NHH	NP	Total	Total	Total	1.40E+02	2.05E+02	7.50E+02	4.57E-03	5.04E-02	3.58E-02	8.23E+00	9.65E-05	1.77E-03	0.00E+00	4.12E-04	4.91E-01	9.40E-04												
2023	Annual	Mon-Sun	2.27E+09	Signal Boa	D	175	Constructio	U	P	NHH	NP	Total	Total	Total	8.68E+01	1.27E+02	8.94E+02	4.22E-03	5.27E-02	2.77E-02	9.83E+00	1.11E-04	1.31E-03	0.00E+00	3.81E-04	8.27E-01	1.74E-03												
2023	Annual	Mon-Sun	2.27E+09	Signal Boa	D	250	Constructio	U	N	NHH	NP	Total	Total	Total	1.83E+01	2.69E+01	3.10E+02	1.18E-03	6.31E-03	7.81E-03	3.43E+00	3.86E-05	2.41E-04	0.00E+00	1.06E-04	4.69E-01	2.87E-03												
2023	Annual	Mon-Sun	2.27E+09	Trenchers	D	15	Constructio	U	P	NHH	NP	Total	Total	Total	4.59E+01	7.77E+01	3.00E+01	3.82E-04	2.01E-03	2.40E-03	3.29E-01	5.11E-06	9.36E-05	0.00E+00	3.45E-05	5.16E-02	1.32E-04												
2023	Annual	Mon-Sun	2.27E+09	Trenchers	D	25	Constructio	U	P	NHH	NP	Total	Total	Total	4.83E+01	8.19E+01	1.23E+02	1.62E-03	5.54E-03	1.03E-02	1.35E+00	1.71E-05	3.83E-04	0.00E+00	1.47E-04	1.35E-01	4.17E-04												
2023	Annual	Mon-Sun	2.27E+09	Trenchers	D	50	Constructio	U	P	NHH	NP	Total	Total	Total	1.84E+03	3.16E+03	4.80E+03	1.26E-01	5.21E-01	4.09E-01	5.20E+01	6.72E-04	2.67E-02	0.00E+00	1.13E-02	4.30E-01	4.25E-04												
2023	Annual	Mon-Sun	2.27E+09	Trenchers	D	120	Constructio	U	P	NHH	NP	Total	Total	Total	2.49E+03	4.28E+03	1.27E+04	1.51E-01	9.37E-01	9.32E-01	1.39E+02	1.63E-03	6.72E-02	0.00E+00	1.36E-02	4.37E-01	7.61E-04												
2023	Annual	Mon-Sun	2.27E+09	Trenchers	D	175	Constructio	U	P	NHH	NP	Total	Total	Total	2.73E+02	4.69E+02	3.07E+03	2.65E-02	1.96E-01	1.72E-01	3.37E+01	3.79E-04	9.50E-03	0.00E+00	2.40E-03	8.34E-01													

**Table C.19 CARB Offroad 2007 output**

used to calculate CO and SOx because Offroad2011 does not calculate CO and SOx

CY	Season	AvgDays	Code	Equipme nt	Fuel	MaxH P	Class	C/R	Pre	Hand	Port	County	Air Basin	Air Dist.	Populatio n	Activity	hr/day for	gal/day	ton/day	ton/day	ton/day	ton/day	ton/day	ton/day	ton/day	ton/day	ton/day	ton/day	ton/day	ton/day	lb/hr/equi pment	lb/hr/equi pment
																	total populatio n	for total populatio n														
2023	Annual	Mon-Sun	2.27E+09	Excavators D		175	Constructi	U	P	NHH	NP	Total	Total	Total	4.46E+03	1.73E+04	8.83E+04	4.99E-01	5.73E+00	2.22E+00	9.69E+02	1.09E-02	1.08E-01	0.00E+00	4.50E-02	6.63E-01	1.26E-03					
2023	Annual	Mon-Sun	2.27E+09	Excavators D		250	Constructi	U	N	NHH	NP	Total	Total	Total	1.81E+03	7.03E+03	5.04E+04	2.48E-01	1.13E+00	1.02E+00	5.57E+02	6.27E-03	3.52E-02	0.00E+00	2.24E-02	3.23E-01	1.78E-03					
2023	Annual	Mon-Sun	2.27E+09	Excavators D		500	Constructi	U	N	NHH	NP	Total	Total	Total	1.31E+03	5.07E+03	5.36E+04	2.61E-01	1.15E+00	1.02E+00	5.92E+02	5.81E-03	3.65E-02	0.00E+00	2.36E-02	4.52E-01	2.29E-03					
2023	Annual	Mon-Sun	2.27E+09	Excavators D		750	Constructi	U	N	NHH	NP	Total	Total	Total	5.88E+00	2.28E+01	3.99E+02	1.95E-03	8.53E-03	7.68E-03	4.41E+00	4.43E-05	2.73E-04	0.00E+00	1.76E-04	7.49E-01	3.89E-03					
2023	Annual	Mon-Sun	2.27E+09	Concrete/I/D		25	Constructi	U	P	NHH	NP	Total	Total	Total	2.45E+00	3.97E+00	2.98E+00	3.94E-05	1.35E-04	2.49E-04	3.27E-02	4.15E-07	9.31E-06	0.00E+00	3.56E-06	6.78E-02	2.09E-04					
2023	Annual	Mon-Sun	2.27E+09	Concrete/I/D		50	Constructi	U	P	NHH	NP	Total	Total	Total	2.14E+01	3.40E+01	4.70E+01	5.48E-04	3.95E-03	3.45E-03	5.14E-01	6.64E-06	1.22E-04	0.00E+00	4.94E-05	2.32E-01	3.90E-04					
2023	Annual	Mon-Sun	2.27E+09	Concrete/I/D		120	Constructi	U	P	NHH	NP	Total	Total	Total	3.73E+01	5.93E+01	2.00E+02	1.24E-03	1.36E-02	9.58E-03	2.20E+00	2.58E-05	4.79E-04	0.00E+00	1.12E-04	4.57E-01	8.69E-04					
2023	Annual	Mon-Sun	2.27E+09	Concrete/I/D		175	Constructi	U	P	NHH	NP	Total	Total	Total	1.22E+00	1.94E+00	1.42E+01	6.87E-05	8.42E-04	4.38E-04	1.56E-01	1.75E-06	2.13E-05	0.00E+00	6.20E-06	8.65E-01	1.80E-03					
2023	Annual	Mon-Sun	2.27E+09	Cement an D		15	Constructi	U	P	NHH	NP	Total	Total	Total	3.12E+02	2.57E+02	7.41E+01	9.45E-04	4.95E-03	5.92E-03	8.11E-01	1.26E-05	2.31E-04	0.00E+00	8.52E-05	3.86E-02	9.83E-05					
2023	Annual	Mon-Sun	2.27E+09	Cement an D		25	Constructi	U	P	NHH	NP	Total	Total	Total	2.81E+01	2.31E+01	1.85E+01	2.49E-04	8.42E-04	1.56E-03	2.03E-01	2.57E-06	6.17E-05	0.00E+00	2.25E-05	7.27E-02	2.23E-04					
2023	Annual	Mon-Sun	2.27E+09	Cranes D		50	Constructi	U	P	NHH	P	Total	Total	Total	2.08E+01	2.79E+01	7.77E+01	1.46E-03	8.39E-03	6.31E-03	8.44E-01	1.09E-05	2.99E-04	0.00E+00	1.32E-04	2.30E-01	2.99E-04					
2023	Annual	Mon-Sun	2.27E+09	Cranes D		120	Constructi	U	P	NHH	P	Total	Total	Total	2.28E+02	7.99E+02	1.83E+03	1.70E-02	1.36E-01	1.05E-01	2.00E+01	2.35E-04	6.32E-03	0.00E+00	1.53E-03	3.40E-01	5.88E-04					
2023	Annual	Mon-Sun	2.27E+09	Cranes D		175	Constructi	U	P	NHH	P	Total	Total	Total	2.28E+02	7.99E+02	2.92E+03	2.08E-02	1.90E-01	1.16E-01	3.21E+01	3.61E-04	6.13E-03	0.00E+00	1.88E-03	4.74E-01	9.03E-04					
2023	Annual	Mon-Sun	2.27E+09	Cranes D		250	Constructi	U	N	NHH	P	Total	Total	Total	4.42E+02	1.55E+03	7.86E+03	4.64E-02	1.82E-01	2.68E-01	8.68E+01	9.77E-04	9.32E-03	0.00E+00	4.19E-03	2.35E-01	1.26E-03					
2023	Annual	Mon-Sun	2.27E+09	Cranes D		500	Constructi	U	N	NHH	P	Total	Total	Total	1.62E+02	5.68E+02	4.63E+03	2.67E-02	1.02E-01	1.42E-01	5.11E+01	5.02E-04	5.25E-03	0.00E+00	2.41E-03	3.61E-01	1.77E-03					
2023	Annual	Mon-Sun	2.27E+09	Cranes D		750	Constructi	U	N	NHH	P	Total	Total	Total	2.44E+01	8.55E+01	1.17E+03	6.76E-03	2.59E-02	3.68E-02	1.29E+01	1.30E-04	1.34E-03	0.00E+00	6.10E-04	6.07E-01	3.04E-03					
2023	Annual	Mon-Sun	2.27E+09	Cranes D		9999	Constructi	U	N	NHH	P	Total	Total	Total	3.07E+01	1.07E+02	4.71E+03	3.09E-02	1.09E-01	3.26E-01	5.21E+01	5.23E-04	7.36E-03	0.00E+00	2.79E-03	2.03E+00	9.75E-03					
2023	Annual	Mon-Sun	2.27E+09	Graders D		50	Constructi	U	P	NHH	NP	Total	Total	Total	8.56E+00	2.22E+01	2.81E+01	4.86E-04	2.94E-03	2.19E-03	3.05E-01	3.95E-06	9.26E-05	0.00E+00	4.38E-05	2.65E-01	3.56E-04					
2023	Annual	Mon-Sun	2.27E+09	Graders D		120	Constructi	U	P	NHH	NP	Total	Total	Total	5.71E+02	1.48E+03	5.06E+03	4.38E-02	3.72E-01	2.72E-01	5.54E+01	6.50E-04	1.52E-02	0.00E+00	3.95E-03	5.03E-01	8.79E-04					
2023	Annual	Mon-Sun	2.27E+09	Graders D		175	Constructi	U	P	NHH	NP	Total	Total	Total	1.95E+03	5.06E+03	2.85E+04	1.87E-01	1.84E+00	1.00E+00	3.13E+02	3.52E-03	5.18E-02	0.00E+00	1.69E-02	7.62E-01	1.39E-03					
2023	Annual	Mon-Sun	2.27E+09	Graders D		250	Constructi	U	N	NHH	NP	Total	Total	Total	1.21E+03	3.14E+03	2.44E+04	1.34E-01	5.63E-01	7.32E-01	2.70E+02	3.04E-03	2.56E-02	0.00E+00	1.21E-02	3.59E-01	1.93E-03					
2023	Annual	Mon-Sun	2.27E+09	Graders D		3.42E+01	8.88E+01	9.21E+02	4.93E-03	2.10E-02	2.50E-02	1.02E+01	9.99E-05	9.16E-04	0.00E+00	4.45E-04	4.72E-01	2.25E-03														
2023	Annual	Mon-Sun	2.27E+09	Graders D		750	Constructi	U	N	NHH	NP	Total	Total	Total	3.75E-01	9.72E-01	2.14E+01	1.15E-04	4.86E-04	5.93E-04	2.36E-01	2.37E-06	2.15E-05	0.00E+00	1.03E-05	9.99E-01	4.88E-03					
2023	Annual	Mon-Sun	2.27E+09	Off-Highw D		175	Constructi	U	P	NHH	NP	Total	Total	Total	3.97E+01	2.16E+02	1.23E+03	7.45E-03	8.11E-02	3.30E-02	1.35E+01	1.52E-04	1.64E-03	0.00E+00	6.72E-04	7.53E-01	1.41E-03					
2023	Annual	Mon-Sun	2.27E+09	Off-Highw D		250	Constructi	U	N	NHH	NP	Total	Total	Total	2.93E+02	1.59E+03	1.20E+04	6.33E-02	2.75E-01	6.26E-01	1.32E+02	1.49E-03	9.08E-03	0.00E+00	5.71E-03	3.46E-01	1.87E-03					
2023	Annual	Mon-Sun	2.27E+09	Off-Highw D		500	Constructi	U	N	NHH	NP	Total	Total	Total	4.13E+02	2.24E+03	2.76E+04	1.44E-01	6.00E-01	5.62E-01	3.05E+02	2.99E-03	2.03E-02	0.00E+00	1.30E-02	5.35E-01	2.67E-03					
2023	Annual	Mon-Sun	2.27E+09	Off-Highw D		750	Constructi	U	N	NHH	NP	Total	Total	Total	7.87E+01	4.27E+02	8.52E+03	4.46E-02	1.85E-01	1.76E-01	9.42E+01	9.47E-04	6.33E-03	0.00E+00	4.02E-03	8.68E-01	4.44E-03					
2023	Annual	Mon-Sun	2.27E+09	Off-Highw D		1000	Constructi	U	N	NHH	NP	Total	Total	Total	3.69E+01	2.00E+02	5.65E+03	3.09E-02	1.25E-01	3.39E-01	6.24E+01	6.28E-04	6.63E-03	0.00E+00	7.28E-03	1.25E+00	6.28E-03					
2023	Annual	Mon-Sun	2.27E+09	Crushing/P/D		50	Constructi	U	P	NHH	P	Total	Total	Total	9.78E+01	2.56E+02	5.17E+02	7.33E-03	5.00E-02	3.93E-02	5.63E+00	7.28E-05	1.45E-03	0.00E+00	6.62E-04	3.90E-01	5.69E-04					
2023	Annual	Mon-Sun	2.27E+09	Crushing/P/D		120	Constructi	U	P	NHH	P	Total	Total	Total	2.76E+02	7.22E+02	2.74E+03	2.04E-02	1.95E-01	1.35E-01	3.00E+01	3.52E-04	6.97E-03	0.00E+00	1.84E-03	5.41E-01	9.74E-04					
2023	Annual	Mon-Sun	2.27E+09	Crushing/P/D		175	Constructi	U	P	NHH	P	Total	Total	Total	1.17E+02	3.06E+02	2.33E+03	1.37E-02	1.46E-01	7.44E-02	2.56E+01	2.87E-04	3.74E-03	0.00E+00	1.24E-03	9.53E-01	1.88E-03					
2023	Annual	Mon-Sun	2.27E+09	Crushing/P/D		250	Constructi	U	N	NHH	P	Total	Total	Total	1.16E+01	3.04E+01	3.36E+02	1.62E-03	7.27E-03	8.70E-03	3.72E+00	4.18E-05	2.83E-04	0.00E+00	1.46E-04	4.78E-01	2.75E-03					
2023	Annual	Mon-Sun	2.27E+09	Crushing/P/D		500	Constructi	U	N	NHH	P	Total	Total	Total	6.54E+01	1.71E+02	2.89E+03	1.37E-02	5.99E-02	6.91E-02	3.20E+01	3.14E-04	2.37E-03	0.00E+00	1.24E-03	7.00E-01	3.66E-03					
2023	Annual	Mon-Sun	2.27E+09	Crushing/P/D		750	Constructi	U	N	NHH	P	Total	Total	Total	6.26E-01	1.64E+00	4.36E+01	2.07E-04	9.03E-04	1.06E-03	4.82E-01	4.84E-06	3.58E-05	0.00E+00	1.87E-05	1.10E+00	5.92E-03					
2023	Annual	Mon-Sun	2.27E+09	Crushing/P/D		9999	Constructi	U	N	NHH	P	Total	Total	Total	6.26E-01	1.64E+00	9.69E+01	5.41E-04	2.09E-03	5.95E-03	1.07E+00	1.08E-05	1.25E-04	0.00E+00	4.89E-05	2.55E+00	1.31E-02					
2023	Annual	Mon-Sun	2.27E+09	Rough Ter D		50	Constructi	U	P	NHH	NP	Total	Total	Total	6.79E+01	2.10E+02	3.27E+02	4.41E-03	3.23E-02	2.44E-02	3.56E+00	4.60E-05	7.79E-04	0.00E+00	3.98E-04	3.07E-01	4.37E-04					
2023	Annual	Mon-Sun	2.27E+09	Rough Ter D		120	Constructi	U	P	NHH	NP	Total	Total	Total	3.25E+03	1.01E+04	2.87E+04	2.05E-01	2.07E+00	1.32E+00	3.14E+02	3.69E-03	6.15E-02	0.00E+00	1.85E-02	4.11E-01	7.32E-04					
2023	Annual	Mon-Sun	2.27E+09	Rough Ter D		175	Constructi	U	P	NHH	NP	Total	Total	Total	4.16E+02	1.29E+03	7.33E+03	4.16E-02	4.66E-01	2.05E-01	8.05E+01	9.06E-04	1.02E-02	0.00E+00	3.75E-03	7.22E-01	1.40E-03					
2023	Annual	Mon-Sun	2.27E+09	Rough Ter D		250	Constructi	U	N	NHH	NP	Total	Total	Total	2.32E+01	7.20E+01	5.56E+02	2.67E-03	1.22E-02	1.25E-02	6.14E+00	6.91E-05	4.21E-04	0.00E+00	2.41E-04	3.39E-01	1.92E-03					
2023	Annual	Mon-Sun	2.27E+09	Rough Ter D		500	Constructi	U	N	NHH	NP	Total	Total	Total	1.53E+01	4.74E+01	4.94E+02	2.61E-03	1.15E-02	1.15E-02	6.07E+00	5.96E-05	4.06E-04	0.00E+00	2.36E-04	4.86E-01	2.52E-03					
2023	Annual	Mon-Sun	2.27E+09	Rubber Tir D		25	Constructi	U	P	NHH	NP	Total	Total	Total	8.56E+00	2.25E+01	1.73E+01	2.29E-04	7.82E-04	1.45E-03	1.90E-01	2.41E-06	5.41E-05	0.00E+00	2.70E-05	6.96E-02	2.15E-04					
2023	Annual	Mon-Sun	2.27E+09	Rubber Tir D		50	Constructi	U	P	NHH	NP	Total	Total	Total	1.66E+02	4.42E+02	6.33E+02	1.05E-02	6.53E-02	4.90E-02	6.88E+00	8.90E-05	2.01E-03	0.00E+00	9.48E-04	2.95E-01	4.02E-04					
2023	Annual	Mon-Sun	2.27E+09	Rubber Tir D		120	Constructi	U	P	NHH	NP	Total	Total	Total	4.52E+03	1.20E+04	3.23E+04	2.70E-01	2.36E+00	1.70E+00	3.54E+02	4.15E-03	9.23E-02	0.00E+00	2.43E-02	3.93E-01	6.90E-04					
2023	Annual	Mon-Sun	2.27E+09	R																												



Table C.19 CARB Offroad 2007 output

used to calculate CO and SOx because Offroad2011 does not calculate CO and SOx

CY	Season	AvgDays	Code	Equipme nt	Fuel	MaxH P	Class	C/R	Pre	Hand	Port	County	Air Basin	Air Dist.	Populatio n	Activity	hr/day for	gal/day	ROG	CO	NOx	CO2	SO2	PM	N2O	CH4	CO	SOx
																	total populatio n	for total populatio n										
2023	Annual	Mon-Sun	2.27E+09	Tractors/L/D		250	Constructio n	N	NHH	NP	Total	Total	Total	3.33E+02	8.73E+02	6.78E+03	3.02E-02	1.49E-01	1.24E-01	7.49E+01	8.43E-04	4.26E-03	0.00E+00	2.73E-03	3.40E-01	1.93E-03		
2023	Annual	Mon-Sun	2.27E+09	Tractors/L/D		500	Constructio n	N	NHH	NP	Total	Total	Total	5.37E+02	1.41E+03	2.20E+04	9.70E-02	4.60E-01	3.77E-01	2.43E+02	2.73E-03	1.35E-02	0.00E+00	8.75E-03	6.53E-01	3.88E-03		
2023	Annual	Mon-Sun	2.27E+09	Tractors/L/D		750	Constructio n	N	NHH	NP	Total	Total	Total	7.57E+01	1.99E+02	4.65E+03	2.05E-02	9.74E-02	8.06E-02	5.14E+01	5.78E-04	2.87E-03	0.00E+00	1.85E-03	9.80E-01	5.82E-03		
2023	Annual	Mon-Sun	2.27E+09	Crawler Tr/D		50	Constructio n	P	NHH	NP	Total	Total	Total	8.56E+00	2.43E+01	2.79E+01	6.81E-04	3.20E-03	2.35E-03	3.02E-01	3.91E-06	1.35E-04	0.00E+00	6.14E-05	2.63E-01	3.21E-04		
2023	Annual	Mon-Sun	2.27E+09	Crawler Tr/D		120	Constructio n	P	NHH	NP	Total	Total	Total	4.86E+03	1.38E+04	4.15E+04	4.74E-01	3.15E+00	2.78E+00	4.54E+02	5.32E-03	1.89E-01	0.00E+00	4.27E-02	4.56E-01	7.71E-04		
2023	Annual	Mon-Sun	2.27E+09	Crawler Tr/D		175	Constructio n	P	NHH	NP	Total	Total	Total	1.64E+03	4.67E+03	2.58E+04	2.17E-01	1.70E+00	1.26E+00	2.83E+02	3.18E-03	6.92E-02	0.00E+00	1.96E-02	7.27E-01	1.36E-03		
2023	Annual	Mon-Sun	2.27E+09	Crawler Tr/D		250	Constructio n	N	NHH	NP	Total	Total	Total	1.41E+03	4.01E+03	3.02E+04	2.03E-01	7.52E-01	1.31E+00	3.33E+02	3.75E-03	4.68E-02	0.00E+00	1.83E-02	3.75E-01	1.87E-03		
2023	Annual	Mon-Sun	2.27E+09	Crawler Tr/D		500	Constructio n	N	NHH	NP	Total	Total	Total	9.68E+02	2.75E+03	3.23E+04	2.08E-01	8.40E-01	1.26E+00	3.56E+02	3.50E-03	4.66E-02	0.00E+00	1.88E-02	6.11E-01	2.54E-03		
2023	Annual	Mon-Sun	2.27E+09	Crawler Tr/D		750	Constructio n	N	NHH	NP	Total	Total	Total	1.00E+01	2.84E+01	5.97E+02	3.87E-03	1.55E-02	2.39E-02	6.59E+00	6.63E-05	8.76E-04	0.00E+00	3.49E-04	1.09E+00	4.67E-03		
2023	Annual	Mon-Sun	2.27E+09	Crawler Tr/D		1000	Constructio n	N	NHH	NP	Total	Total	Total	1.00E+01	2.84E+01	8.46E+02	5.85E-03	2.35E-02	6.48E-02	9.33E+00	9.38E-05	1.59E-03	0.00E+00	5.28E-04	1.65E+00	6.61E-03		
2023	Annual	Mon-Sun	2.27E+09	Skid Steer D		25	Constructio n	P	NHH	NP	Total	Total	Total	1.17E+03	2.68E+03	1.69E+03	2.25E-02	7.63E-02	1.42E-01	1.85E+01	2.35E-04	5.52E-03	0.00E+00	2.03E-03	5.68E-02	1.75E-04		
2023	Annual	Mon-Sun	2.27E+09	Skid Steer D		50	Constructio n	P	NHH	NP	Total	Total	Total	1.06E+04	2.48E+04	2.89E+04	2.52E-01	2.46E+00	1.87E+00	3.16E+02	4.08E-03	2.95E-02	0.00E+00	2.28E-02	1.98E-01	3.30E-04		
2023	Annual	Mon-Sun	2.27E+09	Skid Steer D		120	Constructio n	P	NHH	NP	Total	Total	Total	5.58E+03	1.30E+04	2.53E+04	1.22E-01	1.73E+00	8.84E-01	2.77E+02	3.25E-03	2.21E-02	0.00E+00	1.10E-02	2.67E-01	5.01E-04		
2023	Annual	Mon-Sun	2.27E+09	Off-Highw D		120	Constructio n	P	NHH	NP	Total	Total	Total	6.11E-01	1.86E+00	7.96E+00	1.15E-04	6.20E-04	6.60E-04	8.70E-02	1.02E-06	4.97E-05	0.00E+00	1.03E-05	6.67E-01	1.10E-03		
2023	Annual	Mon-Sun	2.27E+09	Off-Highw D		175	Constructio n	P	NHH	NP	Total	Total	Total	7.48E+02	2.27E+03	1.35E+04	1.40E-01	9.04E-01	8.81E-01	1.48E+02	1.67E-03	4.94E-02	0.00E+00	1.27E-02	7.95E-01	1.47E-03		
2023	Annual	Mon-Sun	2.27E+09	Off-Highw D		250	Constructio n	N	NHH	NP	Total	Total	Total	7.07E+02	2.15E+03	1.27E+04	1.05E-01	3.56E-01	7.53E-01	1.40E+02	1.57E-03	2.89E-02	0.00E+00	9.49E-03	3.32E-01	1.47E-03		
2023	Annual	Mon-Sun	2.27E+09	Off-Highw D		750	Constructio n	N	NHH	NP	Total	Total	Total	6.28E+01	1.91E+02	4.91E+03	3.85E-02	1.57E-01	2.70E-01	5.41E+01	5.44E-04	1.03E-02	0.00E+00	3.47E-03	1.65E+00	5.71E-03		
2023	Annual	Mon-Sun	2.27E+09	Off-Highw D		1000	Constructio n	N	NHH	NP	Total	Total	Total	6.63E+00	2.01E+01	7.43E+02	6.20E-03	2.57E-02	6.61E-02	8.18E+00	8.23E-05	1.82E-03	0.00E+00	5.59E-04	2.56E+00	8.18E-03		
2023	Annual	Mon-Sun	2.27E+09	Dumpers/TD		25	Constructio n	P	NHH	NP	Total	Total	Total	1.47E+01	2.66E+01	9.24E+00	1.22E-04	4.18E-04	7.73E-04	1.01E-01	1.29E-06	2.90E-05	0.00E+00	1.10E-05	3.14E-02	9.67E-05		
2023	Annual	Mon-Sun	2.27E+09	Other Cons D		15	Constructio n	P	NHH	NP	Total	Total	Total	2.02E+02	3.83E+02	1.77E+02	2.25E-03	1.18E-02	1.41E-02	1.93E+00	3.01E-05	5.51E-04	0.00E+00	2.03E-04	6.17E-02	1.57E-04		
2023	Annual	Mon-Sun	2.27E+09	Other Cons D		25	Constructio n	P	NHH	NP	Total	Total	Total	3.42E+01	6.48E+01	3.90E+01	5.16E-04	1.76E-03	3.26E-03	4.28E-01	5.43E-06	1.22E-04	0.00E+00	4.66E-05	5.44E-02	1.68E-04		
2023	Annual	Mon-Sun	2.27E+09	Other Cons D		50	Constructio n	P	NHH	NP	Total	Total	Total	5.26E+01	1.01E+02	1.29E+02	1.35E-03	1.11E-02	8.98E-03	1.41E+00	1.82E-05	2.36E-04	0.00E+00	1.21E-04	2.21E-01	6.32E-04		
2023	Annual	Mon-Sun	2.27E+09	Other Cons D		120	Constructio n	P	NHH	NP	Total	Total	Total	8.68E+01	1.66E+02	6.13E+02	3.46E-03	4.20E-02	2.54E-02	6.72E+00	7.89E-05	1.01E-03	0.00E+00	3.12E-04	5.05E-01	9.48E-04		
2023	Annual	Mon-Sun	2.27E+09	Other Cons D		175	Constructio n	P	NHH	NP	Total	Total	Total	1.20E+02	2.30E+02	1.11E+03	4.96E-03	6.72E-02	2.59E-02	1.22E+01	1.38E-04	1.20E-03	0.00E+00	4.48E-04	8.52E-01	1.20E-03		
2023	Annual	Mon-Sun	2.27E+09	Other Cons D		500	Constructio n	N	NHH	NP	Total	Total	Total	2.78E+02	5.33E+02	6.13E+03	2.31E-02	1.10E-01	1.07E+01	6.65E-04	3.64E-03	0.00E+00	2.09E-03	4.62E-01	2.49E-03			
2024	Annual	Mon-Sun	2.27E+09	Pavers D		25	Constructio n	P	NHH	NP	Total	Total	Total	9.29E+00	2.09E+01	1.78E+01	2.35E-04	8.03E-04	1.49E-03	1.95E-01	2.47E-06	5.58E-05	0.00E+00	2.12E-05	7.68E-02	2.37E-04		
2024	Annual	Mon-Sun	2.27E+09	Pavers D		50	Constructio n	P	NHH	NP	Total	Total	Total	5.40E+02	1.23E+03	1.59E+03	3.79E-02	1.75E-01	1.32E-01	1.52E+01	2.22E-04	7.77E-03	0.00E+00	3.42E-03	2.84E-01	3.62E-04		
2024	Annual	Mon-Sun	2.27E+09	Pavers D		120	Constructio n	P	NHH	NP	Total	Total	Total	6.37E+02	1.45E+03	4.58E+03	5.11E-02	3.41E-01	3.08E-01	7.01E+01	5.88E-04	2.11E-02	0.00E+00	4.61E-03	4.71E-01	8.11E-04		
2024	Annual	Mon-Sun	2.27E+09	Pavers D		175	Constructio n	P	NHH	NP	Total	Total	Total	3.96E+02	9.01E+02	5.26E+03	4.30E-02	3.40E-01	2.59E-01	5.77E+01	6.50E-04	1.43E-02	0.00E+00	3.88E-03	7.55E-01	1.44E-03		
2024	Annual	Mon-Sun	2.27E+09	Pavers D		250	Constructio n	N	NHH	NP	Total	Total	Total	4.77E+01	1.09E+02	9.55E+02	6.24E-03	2.36E-02	4.19E-02	1.05E+01	1.19E-04	1.51E-03	0.00E+00	6.63E-04	4.34E-01	2.19E-03		
2024	Annual	Mon-Sun	2.27E+09	Pavers D		500	Constructio n	N	NHH	NP	Total	Total	Total	4.90E+01	1.11E+02	1.18E+03	7.34E-03	3.07E-02	4.63E-02	1.30E+01	1.27E-04	1.73E-03	0.00E+00	6.62E-04	5.51E-01	2.29E-03		
2024	Annual	Mon-Sun	2.27E+09	Plate Com/D		15	Constructio n	P	NHH	NP	Total	Total	Total	2.00E+02	3.28E+02	6.46E+01	8.23E-04	4.32E-03	5.16E-03	7.07E-01	1.10E-05	2.02E-04	0.00E+00	7.43E-05	2.63E-02	6.71E-05		
2024	Annual	Mon-Sun	2.27E+09	Rollers D		15	Constructio n	P	NHH	NP	Total	Total	Total	3.75E+02	7.14E+02	2.06E+02	6.23E-03	1.38E-02	1.64E-02	2.26E+00	3.51E-05	6.43E-04	0.00E+00	2.37E-04	3.86E-02	9.83E-05		
2024	Annual	Mon-Sun	2.27E+09	Rollers D		25	Constructio n	P	NHH	NP	Total	Total	Total	1.57E+02	2.99E+02	1.81E+02	2.40E-03	8.20E-03	1.52E-02	1.99E+00	2.53E-05	5.67E-04	0.00E+00	2.17E-04	5.49E-02	1.69E-04		
2024	Annual	Mon-Sun	2.27E+09	Rollers D		50	Constructio n	P	NHH	NP	Total	Total	Total	4.88E+02	9.35E+02	1.11E+03	1.73E-02	1.07E-01	8.15E-02	1.21E+01	1.57E-04	3.62E-03	0.00E+00	1.56E-03	2.28E-01	3.36E-04		
2024	Annual	Mon-Sun	2.27E+09	Rollers D		120	Constructio n	P	NHH	NP	Total	Total	Total	2.62E+03	5.02E+03	1.35E+04	1.05E-01	9.56E-01	7.10E-01	1.48E+02	1.74E-03	3.94E-02	0.00E+00	9.46E-03	3.81E-01	6.91E-04		
2024	Annual	Mon-Sun	2.27E+09	Rollers D		175	Constructio n	P	NHH	NP	Total	Total	Total	1.05E+03	2.02E+03	9.93E+03	5.92E-02	6.15E-01	3.42E-01	1.09E+02	1.23E-03	1.78E-02	0.00E+00	5.34E-03	6.09E-01	1.22E-03		
2024	Annual	Mon-Sun	2.27E+09	Rollers D		250	Constructio n	N	NHH	NP	Total	Total	Total	1.49E+02	2.86E+02	1.98E+03	9.85E-03	4.38E-02	5.86E-02	2.19E+01	2.46E-04	2.04E-03	0.00E+00	8.89E-04	3.06E-01	1.72E-03		
2024	Annual	Mon-Sun	2.27E+09	Rollers D		500	Constructio n	N	NHH	NP	Total	Total	Total	1.05E+02	2.01E+02	1.99E+03	9.65E-03	4.26E-02	5.35E-02	2.20E+01	2.16E-04	1.96E-03	0.00E+00	8.70E-04	4.24E-01	2.15E-03		
2024	Annual	Mon-Sun	2.27E+09	Scrapers D		120	Constructio n	P	NHH	NP	Total	Total	Total	2.42E+01	7.33E+01	3.14E+02	3.45E-03	2.38E-02	2.03E-02	3.44E+00	4.03E-05	1.35E-03	0.00E+00	3.12E-04	6.49E-01	1.10E-03		
2024	Annual	Mon-Sun	2.27E+09	Scrapers D		175	Constructio n	P	NHH	NP	Total	Total	Total	2.21E+02	6.71E+02	4.53E+03	3.65E-02	2.97E-01	2.09E-01	4.96E+01	5.59E-04	1.14E-02	0.00E+00	3.30E-03	8.87E-01	1.66E-03		
2024	Annual	Mon-Sun	2.27E+09	Scrapers D		250	Constructio n	N	NHH	NP	Total	Total	Total	2.16E+02	6.54E+02	6.20E+03	4.06E-02	1.54E-01	2.54E-01	6.85E+01	7.70E-04	9.15E-03	0.00E+00	3.66E-03	4.70E-01	2.35E-03		
2024	Annual	Mon-Sun	2.27E+09	Scrapers D		500	Constructio n	N	NHH	NP	Total	Total	Total	5.94E+02	1.80E+03	2.62E+04	1.65E-01	6.75E-01	9.64E-01	2.89E+02	2.84E-03	3.60E-02	0.00E+00	1.49E-02	7.50E-01	3.15E-03		
2024	Annual	Mon-Sun	2.27E+09	Scrapers D		750	Constructio n	N	NHH	NP	Total																	

**Table C.19 CARB Offroad 2007 output**

used to calculate CO and SOx because Offroad2011 does not calculate CO and SOx

CY	Season	AvgDays	Code	Equipment	Fuel	MaxHP	Class	C/R	Pre	Hand	Port	County	Air Basin	Air Dist.	Population	Activity	hr/day for	gal/day	ROG	CO	NOx	CO2	SO2	PM	N2O	CH4	CO	SOx
																	total population	for total population										
2024	Annual	Mon-Sun	2.27E+09	Signal Boa D		120	Constructic U	P	NHH	NP	Total	Total	Total	1.42E+02	2.08E+02	7.60E+02	4.34E-03	5.10E-02	3.40E-02	8.34E+00	9.78E-05	1.55E-03	0.00E+00	3.92E-04	4.90E-01	9.40E-04		
2024	Annual	Mon-Sun	2.27E+09	Signal Boa D		175	Constructic U	P	NHH	NP	Total	Total	Total	8.80E+01	1.29E+02	9.06E+02	4.03E-03	5.34E-02	6.50E-02	9.97E+00	1.12E-04	1.15E-03	0.00E+00	3.63E-04	8.28E-01	1.74E-03		
2024	Annual	Mon-Sun	2.27E+09	Signal Boa D		250	Constructic U	N	NHH	NP	Total	Total	Total	1.86E+01	2.73E+01	3.15E+02	1.14E-03	6.38E-03	6.94E-03	3.48E+00	3.91E-05	2.11E-04	0.00E+00	1.02E-04	4.68E-01	2.87E-03		
2024	Annual	Mon-Sun	2.27E+09	Trenchers D		15	Constructic U	P	NHH	NP	Total	Total	Total	4.65E+01	7.88E+01	3.04E+01	3.88E-04	2.03E-03	2.43E-03	3.33E-01	5.18E-06	9.49E-05	0.00E+00	3.50E-05	5.16E-02	1.32E-04		
2024	Annual	Mon-Sun	2.27E+09	Trenchers D		25	Constructic U	P	NHH	NP	Total	Total	Total	4.90E+01	8.30E+01	1.24E+02	1.65E-03	5.62E-03	1.04E-02	1.36E+00	1.73E-05	3.89E-04	0.00E+00	1.48E-04	1.35E-01	4.17E-04		
2024	Annual	Mon-Sun	2.27E+09	Trenchers D		50	Constructic U	P	NHH	NP	Total	Total	Total	1.86E+03	3.20E+03	4.86E+03	1.18E-01	5.19E-01	4.04E-01	5.27E+01	6.81E-04	2.47E-02	0.00E+00	1.07E-02	3.24E-01	4.25E-04		
2024	Annual	Mon-Sun	2.27E+09	Trenchers D		120	Constructic U	P	NHH	NP	Total	Total	Total	2.53E+03	4.34E+03	1.29E+04	1.44E-01	9.45E-01	8.89E-01	1.41E+02	1.65E-03	6.20E-02	0.00E+00	1.30E-02	4.35E-01	7.61E-04		
2024	Annual	Mon-Sun	2.27E+09	Trenchers D		175	Constructic U	P	NHH	NP	Total	Total	Total	2.76E+02	4.75E+02	3.11E+03	2.54E-02	1.98E-01	1.59E-01	3.41E+01	3.84E-04	8.80E-03	0.00E+00	2.29E-03	8.33E-01	1.62E-03		
2024	Annual	Mon-Sun	2.27E+09	Trenchers D		250	Constructic U	N	NHH	NP	Total	Total	Total	2.48E+01	4.26E+01	4.30E+02	2.78E-03	1.07E-02	1.98E-02	4.74E+00	5.34E-05	7.22E-04	0.00E+00	2.51E-04	5.00E-01	2.51E-03		
2024	Annual	Mon-Sun	2.27E+09	Trenchers D		500	Constructic U	N	NHH	NP	Total	Total	Total	3.16E+01	5.43E+01	7.65E+02	4.71E-03	2.06E-02	3.17E-02	8.45E+00	8.29E-05	1.19E-03	0.00E+00	4.25E-04	7.57E-01	3.05E-03		
2024	Annual	Mon-Sun	2.27E+09	Trenchers D		750	Constructic U	N	NHH	NP	Total	Total	Total	7.61E-01	1.31E+00	3.47E+01	2.15E-04	9.31E-04	1.48E-03	3.83E-01	3.85E-06	5.47E-05	0.00E+00	1.94E-05	1.43E+00	5.90E-03		
2024	Annual	Mon-Sun	2.27E+09	Bore/Drill D		15	Constructic U	P	NHH	P	Total	Total	Total	6.20E+00	1.38E+01	6.51E+00	8.29E-05	4.35E-04	5.19E-04	7.12E-02	1.11E-06	2.03E-05	0.00E+00	7.48E-06	6.31E-02	1.61E-04		
2024	Annual	Mon-Sun	2.27E+09	Bore/Drill D		25	Constructic U	P	NHH	P	Total	Total	Total	1.86E+01	4.13E+01	3.01E+01	3.98E-04	1.36E-03	2.52E-03	3.30E-01	4.19E-06	9.41E-05	0.00E+00	3.59E-05	6.58E-02	2.03E-04		
2024	Annual	Mon-Sun	2.27E+09	Bore/Drill D		50	Constructic U	P	NHH	P	Total	Total	Total	8.12E+01	1.87E+02	2.64E+02	1.78E-03	2.05E-02	1.35E-02	2.90E+00	3.74E-05	8.63E-05	0.00E+00	1.60E-04	2.20E-01	4.01E-04		
2024	Annual	Mon-Sun	2.27E+09	Bore/Drill D		120	Constructic U	P	NHH	P	Total	Total	Total	2.49E+02	5.73E+02	2.01E+03	7.24E-03	1.33E-01	5.64E-02	2.21E+01	2.59E-04	6.04E-04	0.00E+00	6.53E-04	4.66E-01	9.04E-04		
2024	Annual	Mon-Sun	2.27E+09	Bore/Drill D		175	Constructic U	P	NHH	P	Total	Total	Total	5.76E+01	1.33E+02	8.49E+02	2.17E-03	5.00E-02	5.48E-03	9.34E+00	1.05E-04	2.06E-04	0.00E+00	1.95E-04	7.54E-01	1.59E-03		
2024	Annual	Mon-Sun	2.27E+09	Bore/Drill D		250	Constructic U	N	NHH	P	Total	Total	Total	4.96E+01	1.14E+02	9.69E+02	2.45E-03	1.95E-02	5.78E-03	1.07E+01	1.21E-04	2.07E-04	0.00E+00	2.21E-04	3.42E-01	2.11E-03		
2024	Annual	Mon-Sun	2.27E+09	Bore/Drill D		500	Constructic U	N	NHH	P	Total	Total	Total	1.10E+02	2.54E+02	3.57E+03	9.00E-03	6.99E-02	2.12E-02	3.95E+01	3.87E-04	7.61E-04	0.00E+00	8.12E-04	5.51E-01	3.05E-03		
2024	Annual	Mon-Sun	2.27E+09	Bore/Drill D		750	Constructic U	N	NHH	P	Total	Total	Total	1.18E+01	2.75E+01	7.53E+02	1.90E-03	1.48E-02	4.48E-02	8.34E+00	8.38E-05	1.61E-04	0.00E+00	1.72E-04	1.09E+00	6.18E-03		
2024	Annual	Mon-Sun	2.27E+09	Bore/Drill D		1000	Constructic U	N	NHH	P	Total	Total	Total	1.98E+01	4.51E+01	1.91E+03	4.84E-03	3.73E-02	8.86E-02	2.11E+01	2.12E-04	8.46E-04	0.00E+00	4.36E-04	1.64E+00	9.33E-03		
2024	Annual	Mon-Sun	2.27E+09	Excavators D		25	Constructic U	P	NHH	NP	Total	Total	Total	2.29E+01	8.78E+01	6.57E+01	8.70E-04	2.97E-03	5.49E-03	7.21E-01	9.15E-06	2.05E-04	0.00E+00	7.85E-05	6.76E-02	2.08E-04		
2024	Annual	Mon-Sun	2.27E+09	Excavators D		50	Constructic U	P	NHH	NP	Total	Total	Total	8.63E+02	3.34E+03	3.84E+03	5.13E-02	3.97E-01	2.77E-01	4.18E+01	5.40E-04	6.91E-03	0.00E+00	4.63E-03	2.37E-01	3.23E-04		
2024	Annual	Mon-Sun	2.27E+09	Excavators D		120	Constructic U	P	NHH	NP	Total	Total	Total	2.34E+03	9.08E+03	3.05E+04	2.11E-01	2.24E+00	1.26E+00	3.34E+02	3.92E-03	4.90E-02	0.00E+00	1.91E-02	4.94E-01	8.63E-04		
2024	Annual	Mon-Sun	2.27E+09	Excavators D		175	Constructic U	P	NHH	NP	Total	Total	Total	4.52E+03	1.75E+04	8.94E+04	4.78E-01	5.81E+00	1.97E+00	9.82E+02	1.11E-02	9.37E-02	0.00E+00	4.31E-02	6.63E-01	1.26E-03		
2024	Annual	Mon-Sun	2.27E+09	Excavators D		250	Constructic U	N	NHH	NP	Total	Total	Total	1.84E+03	7.13E+03	5.11E+04	2.40E-01	1.15E+00	9.04E-01	5.65E+02	6.36E-03	3.07E-02	0.00E+00	2.17E-02	3.22E-01	1.78E-03		
2024	Annual	Mon-Sun	2.27E+09	Excavators D		500	Constructic U	N	NHH	NP	Total	Total	Total	1.33E+03	5.14E+03	5.43E+04	2.53E-01	1.16E+00	9.04E-01	6.00E+02	5.89E-03	3.18E-02	0.00E+00	2.28E-02	4.50E-01	2.29E-03		
2024	Annual	Mon-Sun	2.27E+09	Excavators D		750	Constructic U	N	NHH	NP	Total	Total	Total	5.96E+00	2.31E+01	4.04E+02	1.89E-03	8.62E-03	6.82E-03	4.47E+00	4.49E-05	2.39E-04	0.00E+00	1.70E-04	7.74E-01	3.89E-03		
2024	Annual	Mon-Sun	2.27E+09	Concrete/Id		25	Constructic U	P	NHH	NP	Total	Total	Total	2.48E+00	4.02E+00	3.02E+00	4.00E-05	1.36E-04	2.52E-04	3.31E-02	4.20E-07	9.43E-06	0.00E+00	3.61E-06	4.66E-02	2.09E-04		
2024	Annual	Mon-Sun	2.27E+09	Concrete/Id		50	Constructic U	P	NHH	NP	Total	Total	Total	2.17E+01	3.45E+01	4.76E+01	5.15E-04	3.97E-03	3.39E-03	5.21E-01	6.73E-06	1.06E-04	0.00E+00	4.64E-05	2.30E-01	3.90E-04		
2024	Annual	Mon-Sun	2.27E+09	Concrete/Id		120	Constructic U	P	NHH	NP	Total	Total	Total	3.78E+01	6.01E+01	2.03E+02	1.18E-03	1.37E-02	9.97E-03	2.23E+00	2.61E-05	4.15E-04	0.00E+00	1.06E-04	4.65E-01	8.69E-04		
2024	Annual	Mon-Sun	2.27E+09	Concrete/Id		175	Constructic U	P	NHH	NP	Total	Total	Total	1.24E+00	1.97E+00	1.43E+01	6.54E-05	8.53E-04	3.94E-04	1.58E-01	1.77E-06	1.86E-05	0.00E+00	5.90E-06	8.56E-01	1.80E-03		
2024	Annual	Mon-Sun	2.27E+09	Cement an D		15	Constructic U	P	NHH	NP	Total	Total	Total	3.17E+02	2.60E+02	7.51E+01	9.57E-04	5.02E-03	6.00E-03	8.22E-01	1.28E-05	2.34E-04	0.00E+00	8.64E-05	3.86E-02	9.83E-05		
2024	Annual	Mon-Sun	2.27E+09	Cement an D		25	Constructic U	P	NHH	NP	Total	Total	Total	2.85E+01	2.34E+01	1.87E+01	2.51E-04	8.50E-04	1.58E-03	2.06E-01	2.61E-06	6.16E-05	0.00E+00	8.26E-05	7.25E-02	2.23E-04		
2024	Annual	Mon-Sun	2.27E+09	Cranes D		50	Constructic U	P	NHH	P	Total	Total	Total	2.11E+01	7.38E+01	7.87E+01	1.38E-03	8.40E-03	6.22E-03	8.55E-01	1.11E-05	2.64E-04	0.00E+00	1.24E-04	2.28E-01	2.99E-04		
2024	Annual	Mon-Sun	2.27E+09	Cranes D		120	Constructic U	P	NHH	P	Total	Total	Total	2.31E+02	8.10E+02	1.85E+03	1.61E-02	1.37E-01	9.95E-02	2.03E+01	2.38E-04	5.57E-03	0.00E+00	1.46E-03	3.39E-01	5.88E-04		
2024	Annual	Mon-Sun	2.27E+09	Cranes D		175	Constructic U	P	NHH	P	Total	Total	Total	2.31E+02	8.10E+02	2.96E+03	1.98E-02	1.92E-01	1.04E-01	3.25E+01	3.66E-04	5.49E-03	0.00E+00	1.79E-03	4.74E-01	9.03E-04		
2024	Annual	Mon-Sun	2.27E+09	Cranes D		250	Constructic U	N	NHH	P	Total	Total	Total	4.48E+02	1.57E+03	7.96E+03	4.48E-02	1.83E-01	2.40E-01	8.80E+01	9.90E-04	8.38E-03	0.00E+00	4.04E-03	2.33E-01	1.26E-03		
2024	Annual	Mon-Sun	2.27E+09	Cranes D		500	Constructic U	N	NHH	P	Total	Total	Total	1.64E+02	5.75E+02	4.69E+03	2.58E-02	1.03E-01	1.28E-01	5.18E+01	5.08E-04	4.73E-03	0.00E+00	2.33E-03	3.56E-01	1.77E-03		
2024	Annual	Mon-Sun	2.27E+09	Cranes D		750	Constructic U	N	NHH	P	Total	Total	Total	2.47E+01	8.67E+01	1.19E+03	6.54E-03	2.60E-02	3.32E-02	1.31E+01	1.32E-04	1.21E-03	0.00E+00	5.91E-04	5.99E-01	3.04E-03		
2024	Annual	Mon-Sun	2.27E+09	Cranes D		9999	Constructic U	N	NHH	P	Total	Total	Total	3.11E+01	1.09E+02													

Table C.19 CARB Offroad 2007 output

used to calculate CO and SOx because Offroad2011 does not calculate CO and SOx

CY	Season	AvgDays	Code	Equipme nt	Fuel	MaxH P	Class	C/R	Pre	Hand	Port	County	Air Basin	Air Dist.	hr/day for		gal/day		ton/day										lb/hr/equi pment		lb/hr/equi pment	
															Populatio n	Activity	Consump tion	ROG Exhaust	CO Exhaust	NOx Exhaust	CO2 Exhaust	SO2 Exhaust	PM Exhaust	N2O Exhaust	CH4 Exhaust	CO	SOx					
2024	Annual	Mon-Sun	2.27E+09	Crushing/PD		9999	Constructi	U	N	NHH	P	Total	Total	Total	6.34E-01	1.66E+00	9.82E+01	5.24E-04	2.09E-03	5.78E-03	1.08E+00	1.09E-05	1.14E-04	0.00E+00	4.73E-05	2.52E+00	1.31E-02					
2024	Annual	Mon-Sun	2.27E+09	Rough Ter D		50	Constructi	U	P	NHH	NP	Total	Total	Total	6.88E+01	2.13E+02	3.31E+02	4.24E-03	3.25E-02	2.40E-02	3.61E+00	4.66E-05	6.71E-04	0.00E+00	3.83E-04	3.05E-01	4.37E-04					
2024	Annual	Mon-Sun	2.27E+09	Rough Ter D		120	Constructi	U	P	NHH	NP	Total	Total	Total	3.29E+03	1.02E+04	2.91E+04	1.97E-01	2.10E+00	1.25E+00	3.18E+02	3.74E-03	5.29E-02	0.00E+00	1.78E-02	4.11E-01	7.32E-04					
2024	Annual	Mon-Sun	2.27E+09	Rough Ter D		175	Constructi	U	P	NHH	NP	Total	Total	Total	4.22E+02	1.31E+03	7.43E+03	3.96E-02	4.72E-01	1.83E-01	8.16E+01	9.18E-04	8.76E-03	0.00E+00	3.57E-03	7.22E-01	1.40E-03					
2024	Annual	Mon-Sun	2.27E+09	Rough Ter D		250	Constructi	U	N	NHH	NP	Total	Total	Total	2.35E+01	7.30E+01	5.63E+02	2.57E-03	1.23E-02	1.10E-02	6.23E+00	7.01E-05	3.62E-04	0.00E+00	2.32E-04	3.38E-01	1.92E-03					
2024	Annual	Mon-Sun	2.27E+09	Rough Ter D		500	Constructi	U	N	NHH	NP	Total	Total	Total	1.55E+01	4.80E+01	5.57E+02	2.51E-03	1.16E-02	1.02E-02	6.15E+00	6.04E-05	3.50E-04	0.00E+00	2.27E-04	4.84E-01	2.52E-03					
2024	Annual	Mon-Sun	2.27E+09	Rubber Tir D		25	Constructi	U	P	NHH	NP	Total	Total	Total	8.68E+00	2.28E+01	1.75E+01	2.32E-04	7.93E-04	1.47E-03	1.93E-01	2.44E-06	5.48E-05	0.00E+00	2.10E-05	6.96E-02	2.15E-04					
2024	Annual	Mon-Sun	2.27E+09	Rubber Tir D		50	Constructi	U	P	NHH	NP	Total	Total	Total	1.69E+02	4.48E+02	6.41E+02	9.92E-03	6.55E-02	4.84E-02	6.97E+00	9.02E-05	1.77E-03	0.00E+00	8.95E-04	2.92E-01	4.02E-04					
2024	Annual	Mon-Sun	2.27E+09	Rubber Tir D		120	Constructi	U	P	NHH	NP	Total	Total	Total	4.58E+03	1.22E+04	3.27E+04	2.56E-01	2.39E+00	1.61E+00	3.59E+02	4.21E-03	8.06E-02	0.00E+00	2.31E-02	3.92E-01	6.90E-04					
2024	Annual	Mon-Sun	2.27E+09	Rubber Tir D		175	Constructi	U	P	NHH	NP	Total	Total	Total	2.58E+03	6.87E+03	3.32E+04	1.99E-01	2.13E+00	1.00E+00	3.65E+02	4.10E-03	5.08E-02	0.00E+00	1.79E-02	6.20E-01	1.20E-03					
2024	Annual	Mon-Sun	2.27E+09	Rubber Tir D		250	Constructi	U	N	NHH	NP	Total	Total	Total	2.57E+03	6.83E+03	4.60E+04	2.36E-01	1.04E+00	1.17E+00	5.08E+02	5.72E-03	4.12E-02	0.00E+00	2.13E-02	3.06E-01	1.67E-03					
2024	Annual	Mon-Sun	2.27E+09	Rubber Tir D		500	Constructi	U	N	NHH	NP	Total	Total	Total	1.07E+03	2.84E+03	3.05E+04	1.53E-01	6.68E-01	7.11E-01	3.37E+02	3.30E-03	2.62E-02	0.00E+00	1.38E-02	4.70E-01	2.32E-03					
2024	Annual	Mon-Sun	2.27E+09	Rubber Tir D		750	Constructi	U	N	NHH	NP	Total	Total	Total	1.53E+01	4.08E+01	8.96E+02	4.51E-03	1.96E-02	2.13E-02	9.90E+00	9.95E-05	7.75E-04	0.00E+00	4.07E-04	9.63E-01	4.88E-03					
2024	Annual	Mon-Sun	2.27E+09	Rubber Tir D		1000	Constructi	U	N	NHH	NP	Total	Total	Total	1.65E+00	4.38E+00	1.18E+02	6.19E-04	2.64E-03	7.32E-03	1.30E+00	1.31E-05	1.47E-04	0.00E+00	5.58E-05	1.21E+00	5.97E-03					
2024	Annual	Mon-Sun	2.27E+09	Rubber Tir D		175	Constructi	U	P	NHH	NP	Total	Total	Total	6.20E+00	2.74E+01	1.62E+02	1.68E-03	1.10E-02	1.02E-02	1.77E+00	2.00E-05	5.71E-04	0.00E+00	1.51E-04	8.03E-01	1.46E-03					
2024	Annual	Mon-Sun	2.27E+09	Rubber Tir D		250	Constructi	U	N	NHH	NP	Total	Total	Total	1.52E+02	6.72E+02	5.59E+03	4.67E-02	1.59E-01	3.21E-01	6.16E+01	6.93E-04	1.24E-02	0.00E+00	4.22E-03	4.72E-01	2.06E-03					
2024	Annual	Mon-Sun	2.27E+09	Rubber Tir D		500	Constructi	U	N	NHH	NP	Total	Total	Total	2.34E+02	1.03E+03	1.24E+04	9.81E-02	4.01E-01	6.45E-01	1.37E+02	1.34E-03	2.51E-02	0.00E+00	8.85E-03	7.76E-01	2.60E-03					
2024	Annual	Mon-Sun	2.27E+09	Rubber Tir D		750	Constructi	U	N	NHH	NP	Total	Total	Total	1.69E+01	7.46E+01	1.35E+03	1.07E-02	4.35E-02	7.17E-02	1.49E+01	1.49E-04	2.76E-03	0.00E+00	9.65E-04	1.17E+00	4.01E-03					
2024	Annual	Mon-Sun	2.27E+09	Rubber Tir D		1000	Constructi	U	N	NHH	NP	Total	Total	Total	1.14E+00	5.04E+00	1.35E+02	1.14E-03	4.71E-03	1.19E-02	1.49E+00	1.50E-05	3.23E-04	0.00E+00	1.03E-04	1.87E+00	5.95E-03					
2024	Annual	Mon-Sun	2.27E+09	Tractors/Ld		25	Constructi	U	P	NHH	NP	Total	Total	Total	1.75E+02	4.51E+02	3.26E+02	4.32E-03	1.47E-02	2.73E-02	3.58E+00	4.54E-05	1.02E-03	0.00E+00	3.89E-04	6.53E-02	2.01E-04					
2024	Annual	Mon-Sun	2.27E+09	Tractors/Ld		50	Constructi	U	P	NHH	NP	Total	Total	Total	1.04E+03	2.74E+03	3.81E+03	4.46E-02	3.68E-01	2.65E-01	4.15E+01	5.37E-04	5.94E-03	0.00E+00	4.02E-03	2.68E-01	3.92E-04					
2024	Annual	Mon-Sun	2.27E+09	Tractors/Ld		120	Constructi	U	P	NHH	NP	Total	Total	Total	1.40E+04	3.66E+04	8.63E+04	5.33E-01	6.19E+00	3.40E+00	9.47E+02	1.11E-02	1.19E-01	0.00E+00	4.81E-02	3.38E-01	6.06E-04					
2024	Annual	Mon-Sun	2.27E+09	Tractors/Ld		175	Constructi	U	P	NHH	NP	Total	Total	Total	1.04E+03	2.73E+03	1.26E+04	6.04E-02	7.98E-01	2.52E-01	1.38E+02	1.56E-03	1.15E-02	0.00E+00	5.45E-03	5.83E-01	1.14E-03					
2024	Annual	Mon-Sun	2.27E+09	Tractors/Ld		250	Constructi	U	N	NHH	NP	Total	Total	Total	3.37E+02	8.84E+02	6.86E+03	2.92E-02	1.50E-01	1.09E-01	7.59E+01	8.54E-04	3.73E-03	0.00E+00	2.63E-03	3.39E-01	1.93E-03					
2024	Annual	Mon-Sun	2.27E+09	Tractors/Ld		500	Constructi	U	N	NHH	NP	Total	Total	Total	5.44E+02	1.43E+03	2.22E+04	9.39E-02	4.65E-01	3.35E-01	2.46E+02	2.77E-03	1.18E-02	0.00E+00	8.47E-03	6.52E-01	3.88E-03					
2024	Annual	Mon-Sun	2.27E+09	Tractors/Ld		750	Constructi	U	N	NHH	NP	Total	Total	Total	7.67E+01	2.01E+02	4.71E+03	1.99E-02	9.84E-02	7.16E-02	5.20E+01	5.85E-04	2.51E-03	0.00E+00	1.79E-03	9.77E-01	5.82E-03					
2024	Annual	Mon-Sun	2.27E+09	Crawler Tr D		50	Constructi	U	P	NHH	NP	Total	Total	Total	8.68E+00	2.46E+01	2.83E+01	6.42E-04	3.20E-03	2.32E-03	3.06E-01	3.96E-06	1.23E-04	0.00E+00	5.80E-05	2.60E-01	3.21E-04					
2024	Annual	Mon-Sun	2.27E+09	Crawler Tr D		120	Constructi	U	P	NHH	NP	Total	Total	Total	4.92E+03	1.40E+04	4.20E+04	4.51E-01	3.18E+00	2.64E+00	4.60E+02	5.39E-03	1.72E-01	0.00E+00	4.07E-02	4.45E-01	7.17E-04					
2024	Annual	Mon-Sun	2.27E+09	Crawler Tr D		175	Constructi	U	P	NHH	NP	Total	Total	Total	1.67E+03	4.73E+03	2.61E+04	2.07E-01	1.72E+00	1.16E+00	2.86E+02	3.22E-03	6.33E-02	0.00E+00	1.86E-02	7.26E-01	1.36E-03					
2024	Annual	Mon-Sun	2.27E+09	Crawler Tr D		250	Constructi	U	N	NHH	NP	Total	Total	Total	1.43E+03	4.07E+03	3.06E+04	1.96E-01	7.52E-01	1.20E+00	3.37E+02	3.80E-03	4.29E-02	0.00E+00	1.77E-02	3.70E-01	1.87E-03					
2024	Annual	Mon-Sun	2.27E+09	Crawler Tr D		500	Constructi	U	N	NHH	NP	Total	Total	Total	9.81E+02	2.79E+03	3.27E+04	2.02E-01	8.33E-01	1.15E+00	3.61E+02	3.54E-03	4.29E-02	0.00E+00	1.82E-02	5.98E-01	2.54E-03					
2024	Annual	Mon-Sun	2.27E+09	Crawler Tr D		750	Constructi	U	N	NHH	NP	Total	Total	Total	1.01E+01	2.88E+01	6.05E+02	3.75E-03	1.54E-02	2.20E-02	6.68E+00	6.72E-05	8.06E-04	0.00E+00	3.39E-04	1.07E+00	4.67E-03					
2024	Annual	Mon-Sun	2.27E+09	Crawler Tr D		1000	Constructi	U	N	NHH	NP	Total	Total	Total	1.01E+01	2.87E+01	8.56E+02	5.64E-03	2.30E-02	6.30E-02	9.45E+00	9.50E-05	1.49E-03	0.00E+00	5.09E-04	1.60E+00	4.61E-03					
2024	Annual	Mon-Sun	2.27E+09	Skid Steer D		25	Constructi	U	P	NHH	NP	Total	Total	Total	1.19E+03	2.72E+03	1.71E+03	2.27E-02	7.72E-02	1.44E-01	1.87E+01	2.38E-04	5.53E-03	0.00E+00	2.05E-03	5.68E-02	1.75E-04					
2024	Annual	Mon-Sun	2.27E+09	Skid Steer D		50	Constructi	U	P	NHH	NP	Total	Total	Total	1.08E+04	2.51E+04	2.92E+04	2.48E-01	2.48E+00	1.85E+00	3.20E+02	4.13E-03	2.38E-02	0.00E+00	2.24E-02	1.98E-01	3.30E-04					
2024	Annual	Mon-Sun	2.27E+09	Skid Steer D		120	Constructi	U	P	NHH	NP	Total	Total	Total	5.65E+03	1.31E+04	2.56E+04	1.19E-01	1.75E+00	8.51E-01	8.81E+02	3.29E-03	1.76E-02	0.00E+00	1.07E-02	2.66E-01	5.01E-04					
2024	Annual	Mon-Sun	2.27E+09	Off-Highw D		120	Constructi	U	P	NHH	NP	Total	Total	Total	6.20E-01	1.88E+00	8.07E+00	1.10E-04	6.25E-04	6.32E-04	8.81E-02	1.03E-06	4.65E-05	0.00E+00	9.92E-06	6.64E-01	1.10E-03					
2024	Annual	Mon-Sun	2.27E+09	Off-Highw D		175	Constructi	U	P	NHH	NP	Total	Total	Total	7.58E-02	2.30E+03	1.37E+04	1.35E-01	9.14E-01	8.26E-01	1.50E+02	1.69E-03	4.62E-02	0.00E+00	1.22E-02	7.94E-01	1.47E-03					
2024	Annual	Mon-Sun	2.27E+09	Off-Highw D		250	Constructi	U	N	NHH	NP	Total	Total	Total	7.16E+02	2.18E+03	1.29E+04	1.01E-01	3.53E-01	7.05E-01	1.42E+02	1.59E-03	2.69E-02									

**Table C.19 CARB Offroad 2007 output**

used to calculate CO and SOx because Offroad2011 does not calculate CO and SOx

CY	Season	AvgDays	Code	Equipment	Fuel	MaxHP	Class	C/R	Pre	Hand	Port	County	Air Basin	Air Dist.	Population	hr/day for total population		gal/day for total population		ton/day ROG Exhaust	ton/day CO Exhaust	ton/day NOx Exhaust	ton/day CO2 Exhaust	ton/day SO2 Exhaust	ton/day PM Exhaust	ton/day N2O Exhaust	ton/day CH4 Exhaust	lb/hr/equi pment CO	lb/hr/equi pment SOx
																n	Activity	Consumption	ROG Exhaust										
2025	Annual	Mon-Sun	2.27E+09	Rollers	D	50	Constructi	U	P	NHH	NP	Total	Total	Total	4.94E+02	9.47E+02	1.13E+03	1.63E-02	1.07E-01	8.41E-02	1.23E+01	1.59E-04	3.20E-03	0.00E+00	1.47E-03	2.26E-01	3.36E-04		
2025	Annual	Mon-Sun	2.27E+09	Rollers	D	120	Constructi	U	P	NHH	NP	Total	Total	Total	2.65E+03	5.09E+03	1.37E+04	9.97E-02	9.66E-01	6.73E-01	1.50E+02	1.76E-03	3.48E-02	0.00E+00	8.99E-03	3.80E-01	6.91E-04		
2025	Annual	Mon-Sun	2.27E+09	Rollers	D	175	Constructi	U	P	NHH	NP	Total	Total	Total	1.07E+03	2.05E+03	1.01E+04	5.65E-02	6.23E-01	3.10E-01	1.10E+02	1.24E-03	1.59E-02	0.00E+00	5.10E-03	6.09E-01	1.22E-03		
2025	Annual	Mon-Sun	2.27E+09	Rollers	D	250	Constructi	U	N	NHH	NP	Total	Total	Total	1.51E+02	2.90E+02	2.01E+03	9.51E-03	4.40E-02	5.26E-02	2.22E+01	2.50E-04	1.83E-03	0.00E+00	8.58E-04	3.03E-01	1.72E-03		
2025	Annual	Mon-Sun	2.27E+09	Rollers	D	500	Constructi	U	N	NHH	NP	Total	Total	Total	1.06E+02	2.03E+02	2.01E+03	9.35E-03	4.26E-02	4.83E-02	2.23E+01	2.19E-04	1.77E-03	0.00E+00	8.43E-04	4.19E-01	2.15E-03		
2025	Annual	Mon-Sun	2.27E+09	Scrapers	D	500	Constructi	U	P	NHH	NP	Total	Total	Total	2.45E+01	7.43E+01	3.18E+02	3.29E-03	2.40E-02	1.94E-02	3.48E+00	4.09E-05	1.22E-03	0.00E+00	2.97E-04	6.47E-01	1.10E-03		
2025	Annual	Mon-Sun	2.27E+09	Scrapers	D	175	Constructi	U	P	NHH	NP	Total	Total	Total	2.24E+02	6.80E+02	4.58E+03	3.48E-02	3.01E-01	1.92E-01	5.03E+01	5.66E-04	1.04E-02	0.00E+00	3.14E-03	8.86E-01	1.66E-03		
2025	Annual	Mon-Sun	2.27E+09	Scrapers	D	250	Constructi	U	N	NHH	NP	Total	Total	Total	2.19E+02	6.63E+02	6.28E+03	3.93E-02	1.54E-01	2.33E-01	6.93E+01	7.80E-04	8.42E-03	0.00E+00	3.54E-03	4.64E-01	2.35E-03		
2025	Annual	Mon-Sun	2.27E+09	Scrapers	D	500	Constructi	U	N	NHH	NP	Total	Total	Total	6.02E+02	1.82E+03	2.65E+04	1.60E-01	6.68E-01	8.86E-01	2.93E+02	2.87E-03	3.32E-02	0.00E+00	1.44E-02	7.33E-01	3.15E-03		
2025	Annual	Mon-Sun	2.27E+09	Scrapers	D	750	Constructi	U	N	NHH	NP	Total	Total	Total	2.02E+01	6.11E+01	1.54E+03	9.29E-03	3.86E-02	5.27E-02	1.70E+01	1.70E-04	1.95E-03	0.00E+00	8.38E-04	1.26E+00	5.58E-03		
2025	Annual	Mon-Sun	2.27E+09	Paving Eq	D	25	Constructi	U	P	NHH	NP	Total	Total	Total	1.63E+01	3.71E+01	2.13E+01	2.82E-04	9.64E-04	1.78E-03	2.34E-01	2.97E-06	6.67E-05	0.00E+00	2.55E-05	5.19E-02	1.60E-04		
2025	Annual	Mon-Sun	2.27E+09	Paving Eq	D	50	Constructi	U	P	NHH	NP	Total	Total	Total	1.38E+01	3.16E+01	3.48E+01	7.40E-04	3.72E-03	2.82E-03	3.78E-01	4.88E-06	1.51E-04	0.00E+00	6.68E-05	2.35E-01	3.09E-04		
2025	Annual	Mon-Sun	2.27E+09	Paving Eq	D	120	Constructi	U	P	NHH	NP	Total	Total	Total	1.99E+02	4.55E+02	1.13E+03	1.14E-02	8.35E-02	7.03E-02	1.24E+01	1.45E-04	4.56E-03	0.00E+00	1.03E-03	3.67E-01	6.39E-04		
2025	Annual	Mon-Sun	2.27E+09	Paving Eq	D	175	Constructi	U	P	NHH	NP	Total	Total	Total	9.36E+01	2.14E+02	9.84E+02	7.35E-03	6.31E-02	4.30E-02	1.08E+01	1.22E-04	2.34E-03	0.00E+00	6.63E-04	5.89E-01	1.14E-03		
2025	Annual	Mon-Sun	2.27E+09	Paving Eq	D	250	Constructi	U	N	NHH	NP	Total	Total	Total	2.64E+01	6.03E+01	3.34E+02	2.02E-03	7.98E-03	1.29E-02	3.68E+00	4.15E-05	4.63E-04	0.00E+00	1.83E-04	2.65E-01	1.37E-03		
2025	Annual	Mon-Sun	2.27E+09	Surfacing ID	D	50	Constructi	U	P	NHH	NP	Total	Total	Total	1.26E+01	1.55E+01	1.00E+01	1.33E-04	8.56E-04	7.24E-04	1.09E-01	1.41E-06	2.75E-05	0.00E+00	1.20E-05	1.10E-01	1.82E-04		
2025	Annual	Mon-Sun	2.27E+09	Surfacing ID	D	120	Constructi	U	P	NHH	NP	Total	Total	Total	2.51E+00	3.10E+00	9.01E+00	5.97E-05	6.12E-04	4.45E-04	9.89E-02	1.16E-06	2.26E-05	0.00E+00	5.39E-06	3.95E-01	7.47E-04		
2025	Annual	Mon-Sun	2.27E+09	Surfacing ID	D	175	Constructi	U	P	NHH	NP	Total	Total	Total	1.88E+00	2.33E+00	9.08E+00	4.49E-05	5.40E-04	2.82E-04	9.97E-02	1.12E-06	1.38E-05	0.00E+00	4.05E-06	4.64E-01	9.64E-04		
2025	Annual	Mon-Sun	2.27E+09	Surfacing ID	D	250	Constructi	U	N	NHH	NP	Total	Total	Total	3.77E+00	4.66E+00	2.84E+01	1.17E-04	6.06E-04	7.62E-04	3.14E-01	3.53E-06	2.59E-05	0.00E+00	1.06E-05	2.60E-01	1.52E-03		
2025	Annual	Mon-Sun	2.27E+09	Surfacing ID	D	500	Constructi	U	N	NHH	NP	Total	Total	Total	3.14E+01	3.88E+01	3.88E+02	1.55E-03	8.21E-03	9.48E-03	4.29E+00	4.21E-05	3.36E-04	0.00E+00	1.40E-04	4.23E-01	2.17E-03		
2025	Annual	Mon-Sun	2.27E+09	Surfacing ID	D	750	Constructi	U	N	NHH	NP	Total	Total	Total	3.85E+00	4.76E+00	7.47E+01	3.00E-04	1.58E-03	1.86E-03	8.26E-01	8.30E-06	6.54E-05	0.00E+00	2.70E-05	6.64E-01	3.49E-03		
2025	Annual	Mon-Sun	2.27E+09	Signal Boa	D	15	Constructi	U	P	NHH	NP	Total	Total	Total	1.77E+03	3.64E+03	1.02E+03	1.30E-02	6.84E-02	8.17E-02	1.12E+01	1.74E-04	3.19E-03	0.00E+00	1.18E-03	3.57E-02	9.59E-05		
2025	Annual	Mon-Sun	2.27E+09	Signal Boa	D	50	Constructi	U	P	NHH	NP	Total	Total	Total	8.79E+00	1.29E+01	2.13E+01	2.14E-04	1.73E-03	1.46E-03	2.33E-01	3.01E-06	4.04E-05	0.00E+00	1.93E-05	2.68E-01	4.67E-04		
2025	Annual	Mon-Sun	2.27E+09	Signal Boa	D	120	Constructi	U	P	NHH	NP	Total	Total	Total	1.44E+02	2.11E+02	7.70E+02	4.15E-03	5.16E-02	3.24E-02	8.45E+00	9.91E-05	1.33E-03	0.00E+00	3.74E-04	4.89E-01	9.40E-04		
2025	Annual	Mon-Sun	2.27E+09	Signal Boa	D	175	Constructi	U	P	NHH	NP	Total	Total	Total	8.92E+01	1.31E+02	9.18E+02	3.83E-03	5.42E-02	2.24E-02	1.01E+01	1.14E-04	9.91E-04	0.00E+00	3.46E-04	8.28E-01	1.74E-03		
2025	Annual	Mon-Sun	2.27E+09	Signal Boa	D	250	Constructi	U	N	NHH	NP	Total	Total	Total	1.88E+01	2.76E+01	3.19E+02	1.10E-03	6.45E-03	6.12E-03	3.52E+00	3.97E-05	1.82E-04	0.00E+00	9.89E-05	4.67E-01	2.87E-03		
2025	Annual	Mon-Sun	2.27E+09	Trenchers	D	15	Constructi	U	P	NHH	NP	Total	Total	Total	4.71E+01	7.98E+01	3.08E+01	3.93E-04	2.06E-03	2.46E-03	3.37E-01	5.25E-06	9.61E-05	0.00E+00	3.54E-05	5.16E-02	1.32E-04		
2025	Annual	Mon-Sun	2.27E+09	Trenchers	D	25	Constructi	U	P	NHH	NP	Total	Total	Total	4.96E+01	8.41E+01	1.26E+02	1.67E-03	5.69E-03	1.05E-02	1.38E+00	1.75E-05	3.94E-04	0.00E+00	1.50E-04	1.35E-01	4.17E-04		
2025	Annual	Mon-Sun	2.27E+09	Trenchers	D	50	Constructi	U	P	NHH	NP	Total	Total	Total	1.89E+03	3.24E+03	4.92E+03	1.11E-01	5.18E-01	4.00E-01	5.33E+01	6.90E-04	2.28E-02	0.00E+00	1.00E-02	3.19E-01	4.25E-04		
2025	Annual	Mon-Sun	2.27E+09	Trenchers	D	120	Constructi	U	P	NHH	NP	Total	Total	Total	2.56E+03	4.40E+03	1.30E+04	1.37E-01	9.53E-01	8.48E-01	1.43E+02	1.67E-03	5.69E-02	0.00E+00	1.24E-02	4.34E-01	7.61E-04		
2025	Annual	Mon-Sun	2.27E+09	Trenchers	D	175	Constructi	U	P	NHH	NP	Total	Total	Total	2.80E+02	4.81E+02	3.15E+03	2.42E-02	2.00E-01	1.48E-01	3.46E+01	3.89E-04	8.12E-03	0.00E+00	2.19E-03	8.32E-01	1.62E-03		
2025	Annual	Mon-Sun	2.27E+09	Trenchers	D	250	Constructi	U	N	NHH	NP	Total	Total	Total	2.51E+01	4.32E+01	4.35E+02	2.69E-03	1.06E-02	1.83E-02	4.81E+00	5.41E-05	6.67E-04	0.00E+00	4.42E-04	4.92E-01	2.51E-03		
2025	Annual	Mon-Sun	2.27E+09	Trenchers	D	500	Constructi	U	N	NHH	NP	Total	Total	Total	3.20E+01	5.50E+01	7.75E+02	4.57E-03	2.03E-02	2.93E-02	8.56E+00	8.40E-05	1.10E-03	0.00E+00	2.12E-04	7.36E-01	3.05E-03		
2025	Annual	Mon-Sun	2.27E+09	Trenchers	D	750	Constructi	U	N	NHH	NP	Total	Total	Total	7.71E-01	1.32E+00	3.51E+01	2.08E-04	9.18E-04	1.37E-03	3.88E-01	3.90E-06	5.06E-05	0.00E+00	1.88E-05	1.39E+00	5.90E-03		
2025	Annual	Mon-Sun	2.27E+09	Bore/Drill	D	15	Constructi	U	P	NHH	P	Total	Total	Total	6.28E+00	1.40E+01	6.59E+00	8.40E-05	4.41E-04	5.26E-04	7.22E-02	1.12E-06	2.06E-05	0.00E+00	7.58E-06	6.31E-02	1.61E-04		
2025	Annual	Mon-Sun	2.27E+09	Bore/Drill	D	25	Constructi	U	P	NHH	P	Total	Total	Total	1.88E+01	4.19E+01	3.05E+01	4.04E-04	1.38E-03	2.55E-03	3.35E-01	4.25E-06	9.53E-05	0.00E+00	3.64E-05	6.58E-02	2.03E-04		
2025	Annual	Mon-Sun	2.27E+09	Bore/Drill	D	50	Constructi	U	P	NHH	P	Total	Total	Total	8.23E+01	1.89E+02	2.68E+02	1.80E-03	2.08E-02	1.57E-02	2.93E+00	3.79E-05	8.19E-05	0.00E+00	1.62E-04	2.20E-01	4.01E-04		
2025	Annual	Mon-Sun	2.27E+09	Bore/Drill	D	120	Constructi	U	P	NHH	P	Total	Total	Total	2.52E+02	5.80E+02	2.04E+03	7.30E-03	1.35E-01	5.67E-02	2.24E+01	2.62E-04	5.79E-04	0.00E+00	6.59E-04	4.66E-01	9.04E-04		
2025	Annual	Mon-Sun	2.27E+09	Bore/Drill	D	175	Constructi	U	P	NHH	P	Total	Total	Total	5.84E+01	1.34E+02	8.60E+02	2.17E-03	5.06E-02	5.28E-03	9.46E+00	1.06E-04	1.99E-04	0.00E+00	1.96E-04	7.54E-01	1.59E-03		
2025	Annual	Mon-Sun	2.27E+09	Bore/Drill	D	250	Constructi	U	N	NHH	P	Total	Total	Total	5.02E+01	1.16E+02	9.81E+02	2.46E-03	1.98E-02	5.66E-03	1.09E+01	1.22E-04	2.03E-04	0.00E+00	2.22E-04	3.42E-01	2.11E-03		
2025	Annual	Mon-Sun	2.27E+09	Bore/Drill	D	500	Constructi	U	N	NHH	P	Total	Total	Total	1.12E+02	2.57E+02	3.61E+03	9.07E-03	7.08E-02	2.08E-02	4.00E+01	3.92E-04	7.48E-04	0.00E+00	8.18E-04	5.51E-01	3.05E-03		
2025	Annual	Mon-Sun	2.27E+09	Bore/Drill	D	750	Constructi	U	N	NHH	P	Total	Total	Total	1.19E+01	2.75E+01	7.63E+02	1.92E-03	1.49E-02	4.40E-03	8.44E+00	8.49E-05	1.58E-04	0.00E+00	1.73E-04	1.09E+00	6.18E-03		
2025	Annual	Mon-Sun	2.27E+09	Bore/Drill	D	1000	Constructi	U	N	NHH	P	Total	Total	Total	2.00E+01	4.60E+01	1.93E+03	4.86E-03	3.78E-02	8.95E-02	2.13E+01	2.15E-04	8.38E-04	0.00E+00	4.39E-04	1.64E+00	9.33E-03		
202																													

Table C.19 CARB Offroad 2007 output

used to calculate CO and SOx because Offroad2011 does not calculate CO and SOx

Table with 25 columns: CY, Season, AvgDays, Code, Equipment, Fuel, MaxHP, Class, C/R, Pre, Hand, Port, County, Air Basin, Air Dist., Population, Activity, Consumption, ROG Exhaust, CO Exhaust, NOX Exhaust, CO2 Exhaust, SO2 Exhaust, PM Exhaust, N2O Exhaust, CH4 Exhaust, CO, SOx. Rows include various equipment types like Cranes, Graders, Crushers, Tractors, and Crawlers across different years and seasons.

Table C.19 CARB Offroad 2007 output

used to calculate CO and SOx because Offroad2011 does not calculate CO and SOx

CY	Season	AvgDays	Code	Equipme nt	Fuel	MaxH P	Class	C/R	Pre	Hand	Port	County	Air Basin	Air Dist.	hr/day for gal/day total populatio n		Consump	ROG	CO	NOX	CO2	SO2	PM	N2O	CH4	lb/hr/equi pment	lb/hr/equi pment
															n	Activity	tion	Exhaust	Exhaust	Exhaust	Exhaust	Exhaust	Exhaust	ton/day	ton/day		
2025	Annual	Mon-Sun	2.27E+09	Skid Steer D		50	Constructi	U	P	NHH	NP	Total	Total	Total	1.09E+04	2.54E+04	2.96E+04	2.46E-01	2.51E+00	1.83E+00	3.24E+02	4.19E-03	1.92E-02	0.00E+00	2.22E-02	1.98E-01	3.30E-04
2025	Annual	Mon-Sun	2.27E+09	Skid Steer D		120	Constructi	U	P	NHH	NP	Total	Total	Total	5.73E+03	1.33E+04	2.59E+04	1.16E-01	1.77E+00	8.25E-01	2.84E+02	3.34E-03	1.47E-02	0.00E+00	1.05E-02	2.66E-01	5.01E-04
2025	Annual	Mon-Sun	2.27E+09	Off-Highw D		120	Constructi	U	P	NHH	NP	Total	Total	Total	6.28E-01	1.91E+00	8.17E+00	1.06E-04	6.30E-04	6.06E-04	8.93E-02	1.05E-06	4.33E-05	0.00E+00	9.52E-06	6.61E-01	1.10E-03
2025	Annual	Mon-Sun	2.27E+09	Off-Highw D		175	Constructi	U	P	NHH	NP	Total	Total	Total	7.68E+02	2.33E+03	1.39E+04	1.29E-01	9.24E-01	7.73E-01	1.52E+02	1.71E-03	4.31E-02	0.00E+00	1.17E-02	7.92E-01	1.47E-03
2025	Annual	Mon-Sun	2.27E+09	Off-Highw D		250	Constructi	U	N	NHH	NP	Total	Total	Total	7.26E+02	2.20E+03	1.30E+04	9.80E-02	3.50E-01	6.59E-01	1.44E+02	1.62E-03	2.49E-02	0.00E+00	8.84E-03	3.18E-01	1.47E-03
2025	Annual	Mon-Sun	2.27E+09	Off-Highw D		750	Constructi	U	N	NHH	NP	Total	Total	Total	6.45E+01	1.96E+02	5.04E+03	3.61E-02	1.50E-01	2.36E-01	5.55E+01	5.58E-04	8.97E-03	0.00E+00	3.26E-03	1.53E+00	5.71E-03
2025	Annual	Mon-Sun	2.27E+09	Off-Highw D		1000	Constructi	U	N	NHH	NP	Total	Total	Total	6.81E+00	2.06E+01	7.62E+02	5.80E-03	2.43E-02	6.28E-02	8.39E+00	8.44E-05	1.63E-03	0.00E+00	5.23E-04	2.36E+00	8.18E-03
2025	Annual	Mon-Sun	2.27E+09	Dumpers/TD		25	Constructi	U	P	NHH	NP	Total	Total	Total	1.51E+01	2.74E+01	9.49E+00	1.26E-04	4.29E-04	7.94E-04	1.04E-01	1.32E-05	2.97E-05	0.00E+00	1.13E-05	3.14E-02	9.67E-05
2025	Annual	Mon-Sun	2.27E+09	Other Cons D		15	Constructi	U	P	NHH	NP	Total	Total	Total	2.08E+02	3.93E+02	1.81E+02	2.31E-03	1.21E-02	1.45E-02	1.99E+00	3.09E-05	5.66E-04	0.00E+00	2.09E-04	6.17E-02	1.57E-04
2025	Annual	Mon-Sun	2.27E+09	Other Cons D		25	Constructi	U	P	NHH	NP	Total	Total	Total	3.52E+01	6.65E+01	4.00E+01	5.30E-04	1.81E-03	3.35E-03	4.39E-01	5.57E-06	1.25E-04	0.00E+00	4.78E-05	5.44E-02	1.68E-04
2025	Annual	Mon-Sun	2.27E+09	Other Cons D		50	Constructi	U	P	NHH	NP	Total	Total	Total	5.40E+01	1.04E+02	1.32E+02	1.26E-03	1.13E-02	8.76E-03	1.45E+00	1.87E-05	1.75E-04	0.00E+00	1.14E-04	2.19E-01	3.62E-04
2025	Annual	Mon-Sun	2.27E+09	Other Cons D		120	Constructi	U	P	NHH	NP	Total	Total	Total	8.92E+01	1.71E+02	6.29E+02	3.24E-03	4.31E-02	2.33E-02	6.90E+00	8.10E-05	7.40E-04	0.00E+00	2.92E-04	5.04E-01	9.48E-04
2025	Annual	Mon-Sun	2.27E+09	Other Cons D		175	Constructi	U	P	NHH	NP	Total	Total	Total	1.23E+02	2.36E+02	1.14E+03	4.53E-03	6.90E-02	2.04E-02	1.26E+01	1.41E-04	8.80E-04	0.00E+00	4.09E-04	5.85E-01	1.20E-03
2025	Annual	Mon-Sun	2.27E+09	Other Cons D		500	Constructi	U	N	NHH	NP	Total	Total	Total	2.86E+02	5.48E+02	6.29E+03	2.17E-02	1.26E-01	8.30E-02	6.96E+01	6.83E-04	2.72E-03	0.00E+00	1.95E-03	4.60E-01	2.49E-03
2026	Annual	Mon-Sun	2.27E+09	Pavers D		25	Constructi	U	P	NHH	NP	Total	Total	Total	9.54E+00	2.15E+01	1.82E+01	2.42E-04	8.25E-04	1.53E-03	2.00E-01	2.54E-06	5.70E-05	0.00E+00	2.18E-05	7.68E-02	2.37E-04
2026	Annual	Mon-Sun	2.27E+09	Pavers D		50	Constructi	U	P	NHH	NP	Total	Total	Total	5.55E+02	1.26E+03	1.63E+03	3.37E-02	1.74E-01	1.29E-01	1.76E+01	2.28E-04	6.48E-03	0.00E+00	3.04E-03	2.76E-01	3.62E-04
2026	Annual	Mon-Sun	2.27E+09	Pavers D		120	Constructi	U	P	NHH	NP	Total	Total	Total	6.54E+02	1.49E+03	4.70E+03	4.62E-02	3.48E-01	2.80E-01	5.14E+01	6.03E-04	1.75E-02	0.00E+00	4.17E-03	4.67E-01	8.11E-04
2026	Annual	Mon-Sun	2.27E+09	Pavers D		175	Constructi	U	P	NHH	NP	Total	Total	Total	4.07E+02	9.24E+02	5.40E+03	3.91E-02	3.48E-01	2.20E-01	5.92E+01	6.67E-04	1.19E-02	0.00E+00	3.52E-03	7.53E-01	1.44E-03
2026	Annual	Mon-Sun	2.27E+09	Pavers D		250	Constructi	U	N	NHH	NP	Total	Total	Total	4.90E+01	1.11E+02	9.80E+02	5.83E-03	2.36E-02	3.54E-02	1.08E+01	1.22E-04	1.28E-03	0.00E+00	5.26E-04	4.23E-01	2.19E-03
2026	Annual	Mon-Sun	2.27E+09	Pavers D		500	Constructi	U	N	NHH	NP	Total	Total	Total	5.03E+01	1.14E+02	1.21E+03	6.91E-03	3.00E-02	3.93E-02	1.33E+01	1.31E-04	1.48E-03	0.00E+00	6.24E-04	5.24E-01	2.29E-03
2026	Annual	Mon-Sun	2.27E+09	Plate Com D		15	Constructi	U	P	NHH	NP	Total	Total	Total	2.05E+02	3.37E+02	6.63E+01	8.45E-04	4.43E-03	5.29E-03	7.26E-01	1.13E-05	2.07E-04	0.00E+00	7.63E-05	2.63E-02	6.71E-05
2026	Annual	Mon-Sun	2.27E+09	Rollers D		15	Constructi	U	P	NHH	NP	Total	Total	Total	3.85E+02	7.33E+02	2.12E+02	2.70E-03	1.41E-02	1.69E-02	3.32E+00	3.60E-05	6.60E-04	0.00E+00	2.43E-04	3.86E-02	9.83E-05
2026	Annual	Mon-Sun	2.27E+09	Rollers D		25	Constructi	U	P	NHH	NP	Total	Total	Total	1.61E+02	3.07E+02	1.86E+02	2.47E-03	8.42E-03	1.56E-02	2.04E+00	2.59E-05	5.82E-04	0.00E+00	2.23E-04	5.49E-02	1.69E-04
2026	Annual	Mon-Sun	2.27E+09	Rollers D		50	Constructi	U	P	NHH	NP	Total	Total	Total	5.01E+02	9.60E+02	1.14E+03	1.55E-02	1.07E-01	8.31E-02	1.25E+01	1.61E-04	2.82E-03	0.00E+00	1.40E-03	2.24E-01	3.36E-04
2026	Annual	Mon-Sun	2.27E+09	Rollers D		120	Constructi	U	P	NHH	NP	Total	Total	Total	2.69E+03	5.15E+03	1.38E+04	9.54E-02	9.76E-01	6.40E-01	1.52E+02	1.78E-03	3.07E-02	0.00E+00	8.61E-03	3.79E-01	6.91E-04
2026	Annual	Mon-Sun	2.27E+09	Rollers D		175	Constructi	U	P	NHH	NP	Total	Total	Total	1.08E+03	2.07E+03	1.02E+04	5.41E-02	6.31E-01	2.80E-01	1.12E+02	1.26E-03	1.42E-02	0.00E+00	4.88E-03	6.09E-01	1.22E-03
2026	Annual	Mon-Sun	2.27E+09	Rollers D		250	Constructi	U	N	NHH	NP	Total	Total	Total	1.53E+02	2.94E+02	2.03E+03	9.19E-03	4.43E-02	4.72E-02	2.25E+01	2.53E-04	1.64E-03	0.00E+00	8.29E-04	3.01E-01	1.72E-03
2026	Annual	Mon-Sun	2.27E+09	Rollers D		500	Constructi	U	N	NHH	NP	Total	Total	Total	1.08E+02	2.06E+02	2.04E+03	9.05E-03	4.27E-02	4.36E-02	2.06E+01	2.21E-04	1.58E-03	0.00E+00	8.17E-04	4.15E-01	2.15E-03
2026	Annual	Mon-Sun	2.27E+09	Scrapers D		120	Constructi	U	P	NHH	NP	Total	Total	Total	2.48E+01	7.52E+01	3.22E+02	3.14E-03	2.42E-02	1.85E-02	3.53E+00	4.14E-05	1.10E-03	0.00E+00	2.83E-04	6.45E-01	1.10E-03
2026	Annual	Mon-Sun	2.27E+09	Scrapers D		175	Constructi	U	P	NHH	NP	Total	Total	Total	2.27E+02	6.88E+02	4.64E+03	3.32E-02	3.05E-01	1.76E-01	5.09E+01	5.73E-04	9.48E-03	0.00E+00	3.00E-03	8.85E-01	1.66E-03
2026	Annual	Mon-Sun	2.27E+09	Scrapers D		250	Constructi	U	N	NHH	NP	Total	Total	Total	2.21E+02	6.71E+02	6.36E+03	3.81E-02	1.54E-01	2.13E-01	7.02E+01	7.90E-04	7.74E-03	0.00E+00	3.44E-03	4.59E-01	2.35E-03
2026	Annual	Mon-Sun	2.27E+09	Scrapers D		500	Constructi	U	N	NHH	NP	Total	Total	Total	6.09E+02	1.85E+03	2.69E+04	1.56E-01	6.62E-01	8.14E-01	2.97E+02	2.91E-03	3.06E-02	0.00E+00	1.40E-02	7.17E-01	3.15E-03
2026	Annual	Mon-Sun	2.27E+09	Scrapers D		750	Constructi	U	N	NHH	NP	Total	Total	Total	2.04E+01	6.19E+01	1.55E+03	9.04E-03	3.83E-02	4.83E-02	1.72E+01	1.73E-04	1.79E-03	0.00E+00	8.16E-04	1.24E+00	5.58E-03
2026	Annual	Mon-Sun	2.27E+09	Paving Eq D		25	Constructi	U	P	NHH	NP	Total	Total	Total	1.65E+01	3.76E+01	2.16E+01	2.86E-04	9.77E-04	1.81E-03	2.37E-01	3.01E-06	6.76E-05	0.00E+00	2.58E-05	5.19E-02	1.60E-04
2026	Annual	Mon-Sun	2.27E+09	Paving Eq D		50	Constructi	U	P	NHH	NP	Total	Total	Total	1.40E+01	3.20E+01	3.52E+01	6.95E-04	3.71E-03	2.79E-03	3.83E-01	4.95E-06	1.36E-04	0.00E+00	6.27E-05	2.32E-01	3.09E-04
2026	Annual	Mon-Sun	2.27E+09	Paving Eq D		120	Constructi	U	P	NHH	NP	Total	Total	Total	2.02E+02	4.61E+02	1.15E+03	1.08E-02	8.43E-02	6.68E-02	1.26E+01	1.47E-04	4.10E-03	0.00E+00	9.78E-04	3.65E-01	6.39E-04
2026	Annual	Mon-Sun	2.27E+09	Paving Eq D		175	Constructi	U	P	NHH	NP	Total	Total	Total	9.48E+01	2.17E+02	9.97E+02	6.99E-03	6.38E-02	3.94E-02	1.09E+01	1.23E-04	2.12E-03	0.00E+00	6.30E-04	5.89E-01	1.14E-03
2026	Annual	Mon-Sun	2.27E+09	Paving Eq D		250	Constructi	U	N	NHH	NP	Total	Total	Total	2.67E+01	6.11E+01	3.38E+02	1.96E-03	7.99E-03	1.18E-02	3.73E+00	4.20E-05	4.24E-04	0.00E+00	1.77E-04	2.61E-01	1.37E-03
2026	Annual	Mon-Sun	2.27E+09	Surfacing ID		50	Constructi	U	P	NHH	NP	Total	Total	Total	1.27E+01	1.57E+01	1.01E+01	1.25E-04	8.59E-04	7.16E-04	1.11E-01	1.43E-06	2.45E-05	0.00E+00	1.13E-05	1.09E-01	1.82E-04
2026	Annual	Mon-Sun	2.27E+09	Surfacing ID		120	Constructi	U	P	NHH	NP	Total	Total	Total	2.54E+00	3.14E+00	9.13E+00	5.67E-05	6.19E-04	4.24E-04	1.00E-01	1.17E-06	2.01E-05	0.00E+00	5.11E-06	3.94E-01	7.47E-04
2026	Annual	Mon-Sun	2.27E+09	Surfacing ID		175	Constructi	U	P	NHH	NP	Total	Total	Total	1.91E+00	2.36E+00	9.19E+00	4.29E-05	5.46E-04	2.56E-04	1.01E-01	1.14E-06	1.24E-05	0.00E+00	3.87E-06	4.64E-01	9.64E-04
2026	Annual	Mon-Sun	2.27E+09	Surfacing ID		250	Constructi	U	N	NHH	NP	Total	Total	Total	3.82E+00	4.71E+00	2.87E+01	1.13E-04	6.09E-04	6.87E-04	3.18E-01	3.57E-06	2.35E-05	0.00E+00	1.02E-05	2.58E-01	1.52E-03
2026	Annual	Mon-Sun	2.27E+09	Surfacing ID		500	Constructi	U	N	NHH	NP	Total	Total	Total	3.18E+01	3.93E+01	3.93E+02	1.51E-03	8.19E-03	1.61E-03	4.34E+00	4.26E-05	3.06E-04	0.00E+00	1.36E-04	4.17E-01	2.

Table C.19 CARB Offroad 2007 output

used to calculate CO and SOx because Offroad2011 does not calculate CO and SOx

CY	Season	AvgDays	Code	Equipme nt	Fuel	MaxH P	Class	C/R	Pre	Hand	Port	County	Air Basin	Air Dist.	Populatio n	Activity	Consump tion	hr/day for total populatio n		lb/hr/equi pment											
																		gal/day for total populatio n	ton/day	ROG Exhaust	CO Exhaust	NOx Exhaust	CO2 Exhaust	SO2 Exhaust	PM Exhaust	N2O Exhaust	CH4 Exhaust	CO	SOx		
2026 Annual	Mon-Sun	2.27E+09	Bore/Drill D	D		15	Constructio	U	P	NHH	P	Total	Total	Total	6.36E+00	1.41E+01	6.68E+00	8.51E-05	4.46E-04	5.33E-04	7.31E-02	1.14E-06	2.08E-05	0.00E+00	7.68E-06	6.31E-02	1.61E-04				
2026 Annual	Mon-Sun	2.27E+09	Bore/Drill D	D		25	Constructio	U	P	NHH	P	Total	Total	Total	1.91E+01	4.24E+01	3.09E+01	4.09E-04	1.40E-03	2.58E-03	3.39E-01	4.30E-06	9.66E-05	0.00E+00	3.69E-05	6.58E-02	2.03E-04				
2026 Annual	Mon-Sun	2.27E+09	Bore/Drill D	D		50	Constructio	U	P	NHH	P	Total	Total	Total	8.33E+01	1.92E+02	2.71E+02	1.82E-03	2.11E-02	1.59E-02	2.97E+00	3.84E-05	7.88E-05	0.00E+00	1.64E-04	2.20E-01	4.01E-04				
2026 Annual	Mon-Sun	2.27E+09	Bore/Drill D	D		120	Constructio	U	P	NHH	P	Total	Total	Total	2.56E+02	5.88E+02	2.06E+03	7.37E-03	1.37E-01	5.71E-02	2.26E+01	2.66E-04	5.60E-04	0.00E+00	6.65E-04	4.66E-01	9.04E-04				
2026 Annual	Mon-Sun	2.27E+09	Bore/Drill D	D		175	Constructio	U	P	NHH	P	Total	Total	Total	5.92E+01	1.36E+02	8.71E+02	2.19E-03	5.12E-02	5.16E-03	9.59E+00	1.08E-04	1.93E-04	0.00E+00	1.97E-04	7.54E-01	1.59E-03				
2026 Annual	Mon-Sun	2.27E+09	Bore/Drill D	D		250	Constructio	U	N	NHH	P	Total	Total	Total	5.09E+01	1.17E+02	9.94E+02	2.48E-03	2.00E-02	5.59E-03	1.10E+01	1.24E-04	2.01E-04	0.00E+00	2.24E-04	3.42E-01	2.11E-03				
2026 Annual	Mon-Sun	2.27E+09	Bore/Drill D	D		500	Constructio	U	N	NHH	P	Total	Total	Total	1.13E+02	2.60E+02	3.66E+03	9.14E-03	7.17E-02	2.06E-02	4.05E+01	3.97E-04	7.40E-04	0.00E+00	8.25E-04	5.51E-01	3.05E-03				
2026 Annual	Mon-Sun	2.27E+09	Bore/Drill D	D		750	Constructio	U	N	NHH	P	Total	Total	Total	1.21E+01	2.78E+01	7.73E+02	1.93E-03	1.51E-02	4.35E-03	8.55E+00	8.60E-05	1.56E-04	0.00E+00	1.74E-04	1.09E+00	6.18E-03				
2026 Annual	Mon-Sun	2.27E+09	Bore/Drill D	D		1000	Constructio	U	N	NHH	P	Total	Total	Total	2.03E+01	4.66E+01	1.95E+03	4.90E-03	3.83E-02	9.05E-02	2.16E+01	2.17E-04	8.35E-04	0.00E+00	4.42E-04	1.64E+00	9.33E-03				
2026 Annual	Mon-Sun	2.27E+09	Excavators D	D		25	Constructio	U	P	NHH	NP	Total	Total	Total	2.35E+01	9.01E+01	6.74E+01	8.93E-04	3.05E-03	5.64E-03	7.40E-01	9.39E-06	2.11E-04	0.00E+00	8.05E-05	6.76E-02	2.08E-04				
2026 Annual	Mon-Sun	2.27E+09	Excavators D	D		50	Constructio	U	P	NHH	NP	Total	Total	Total	8.86E+02	3.43E+03	3.94E+03	4.95E-02	4.04E-01	2.71E-01	4.29E+01	5.55E-04	5.17E-03	0.00E+00	4.46E-03	2.35E-01	3.23E-04				
2026 Annual	Mon-Sun	2.27E+09	Excavators D	D		120	Constructio	U	P	NHH	NP	Total	Total	Total	2.41E+03	9.32E+03	3.13E+04	2.02E-01	2.30E+00	1.17E+00	3.43E+02	4.02E-03	3.67E-02	0.00E+00	1.82E-02	4.93E-01	8.63E-04				
2026 Annual	Mon-Sun	2.27E+09	Excavators D	D		175	Constructio	U	P	NHH	NP	Total	Total	Total	4.64E+03	1.80E+04	9.18E+04	4.43E-01	5.96E+00	1.56E+00	1.01E+03	1.13E-02	6.97E-02	0.00E+00	4.00E-02	6.63E-01	1.26E-03				
2026 Annual	Mon-Sun	2.27E+09	Excavators D	D		250	Constructio	U	N	NHH	NP	Total	Total	Total	1.89E+03	7.31E+03	5.25E+04	2.28E-01	1.17E+00	7.12E-01	5.80E+02	6.52E-03	2.34E-02	0.00E+00	2.05E-02	3.20E-01	1.78E-03				
2026 Annual	Mon-Sun	2.27E+09	Excavators D	D		500	Constructio	U	N	NHH	NP	Total	Total	Total	1.36E+03	5.28E+03	5.57E+04	2.40E-01	1.18E+00	7.16E-01	6.16E+02	6.05E-03	2.43E-02	0.00E+00	2.17E-02	4.48E-01	2.29E-03				
2026 Annual	Mon-Sun	2.27E+09	Excavators D	D		750	Constructio	U	N	NHH	NP	Total	Total	Total	6.12E+00	2.37E+01	4.15E+02	1.79E-03	8.80E-03	5.40E-03	4.59E+00	4.61E-05	1.83E-04	0.00E+00	1.62E-04	7.43E-01	3.89E-03				
2026 Annual	Mon-Sun	2.27E+09	Concrete/I/D	D		25	Constructio	U	P	NHH	NP	Total	Total	Total	2.54E+00	4.13E+00	3.10E+00	4.10E-05	1.40E-04	2.29E-04	3.40E-02	4.31E-07	9.69E-06	0.00E+00	3.70E-06	6.78E-02	2.09E-04				
2026 Annual	Mon-Sun	2.27E+09	Concrete/I/D	D		50	Constructio	U	P	NHH	NP	Total	Total	Total	2.23E+01	3.54E+01	4.89E+01	4.64E-04	4.01E-03	3.28E-03	5.34E-01	6.91E-06	7.92E-05	0.00E+00	4.19E-05	2.27E-01	3.90E-04				
2026 Annual	Mon-Sun	2.27E+09	Concrete/I/D	D		120	Constructio	U	P	NHH	NP	Total	Total	Total	3.88E+01	6.17E+01	2.08E+02	1.08E-03	1.40E-02	8.25E-03	2.29E+00	2.68E-05	3.01E-04	0.00E+00	9.72E-05	4.55E-01	8.69E-04				
2026 Annual	Mon-Sun	2.27E+09	Concrete/I/D	D		175	Constructio	U	P	NHH	NP	Total	Total	Total	1.27E+00	2.02E+00	1.47E+01	5.90E-05	8.76E-04	3.11E-04	1.62E-01	1.82E-06	1.35E-05	0.00E+00	5.33E-06	8.66E+00	1.80E-03				
2026 Annual	Mon-Sun	2.27E+09	Cement an D	D		15	Constructio	U	P	NHH	NP	Total	Total	Total	3.25E+02	2.67E+02	7.71E+01	9.83E-04	5.16E-03	6.15E-03	8.44E-01	1.31E-05	2.41E-04	0.00E+00	8.87E-05	3.86E-02	9.83E-05				
2026 Annual	Mon-Sun	2.27E+09	Cement an D	D		25	Constructio	U	P	NHH	NP	Total	Total	Total	2.93E+01	2.41E+01	1.92E+01	2.55E-04	8.70E-04	1.62E-03	2.11E-01	2.68E-06	6.18E-05	0.00E+00	2.30E-05	7.23E-02	2.23E-04				
2026 Annual	Mon-Sun	2.27E+09	Cranes D	D		50	Constructio	U	P	NHH	P	Total	Total	Total	2.16E+01	7.58E+01	8.07E+01	1.25E-03	8.47E-03	6.07E-03	8.78E-01	1.13E-05	2.05E-04	0.00E+00	1.13E-04	2.24E-01	2.99E-04				
2026 Annual	Mon-Sun	2.27E+09	Cranes D	D		120	Constructio	U	P	NHH	P	Total	Total	Total	2.37E+02	8.31E+02	1.90E+03	1.49E-02	1.40E-01	8.96E-02	2.08E+01	2.44E-04	4.37E-03	0.00E+00	1.34E-03	3.38E-01	5.88E-04				
2026 Annual	Mon-Sun	2.27E+09	Cranes D	D		175	Constructio	U	P	NHH	P	Total	Total	Total	2.37E+02	8.31E+02	3.04E+03	1.82E-02	1.97E-01	8.53E-02	3.34E+01	3.75E-04	4.39E-03	0.00E+00	1.64E-03	4.74E-01	9.03E-04				
2026 Annual	Mon-Sun	2.27E+09	Cranes D	D		250	Constructio	U	N	NHH	P	Total	Total	Total	4.60E+02	1.61E+03	8.17E+03	4.18E-02	1.85E-01	1.93E-01	9.03E+01	1.02E-03	6.67E-03	0.00E+00	3.77E-03	2.30E-01	1.26E-03				
2026 Annual	Mon-Sun	2.27E+09	Cranes D	D		500	Constructio	U	N	NHH	P	Total	Total	Total	1.69E+02	5.91E+02	4.81E+03	2.42E-02	1.04E-01	1.05E-01	5.31E+01	5.22E-04	3.79E-03	0.00E+00	2.19E-03	3.51E-01	1.77E-03				
2026 Annual	Mon-Sun	2.27E+09	Cranes D	D		750	Constructio	U	N	NHH	P	Total	Total	Total	2.54E+01	8.89E+01	1.22E+03	6.15E-03	2.63E-02	2.70E-02	1.35E+01	1.35E-04	9.69E-04	0.00E+00	5.55E-04	5.91E-01	3.04E-03				
2026 Annual	Mon-Sun	2.27E+09	Cranes D	D		9999	Constructio	U	N	NHH	P	Total	Total	Total	3.19E+01	1.12E+02	4.90E+03	2.78E-02	1.09E-01	2.99E-01	5.41E+01	5.44E-04	5.85E-03	0.00E+00	2.51E-03	1.95E+00	9.75E-03				
2026 Annual	Mon-Sun	2.27E+09	Graders D	D		50	Constructio	U	P	NHH	NP	Total	Total	Total	8.91E+00	2.31E+01	2.91E+01	4.16E-04	2.97E-03	2.11E-03	3.17E-01	4.10E-06	6.31E-05	0.00E+00	3.76E-05	2.58E-01	3.56E-04				
2026 Annual	Mon-Sun	2.27E+09	Graders D	D		120	Constructio	U	P	NHH	NP	Total	Total	Total	5.94E+02	1.54E+03	5.25E+03	3.80E-02	3.84E-01	2.33E-01	5.76E+01	6.76E-04	1.02E-02	0.00E+00	3.43E-03	5.00E-01	8.79E-04				
2026 Annual	Mon-Sun	2.27E+09	Graders D	D		175	Constructio	U	P	NHH	NP	Total	Total	Total	2.03E+03	5.25E+03	2.96E+04	1.62E-01	1.91E+00	7.27E-01	3.25E+02	3.66E-03	3.61E-02	0.00E+00	1.46E-02	7.25E-01	1.39E-03				
2026 Annual	Mon-Sun	2.27E+09	Graders D	D		250	Constructio	U	N	NHH	NP	Total	Total	Total	1.26E+03	3.26E+03	2.54E+04	1.22E-01	5.75E-01	5.27E-01	2.80E+02	3.15E-03	1.88E-02	0.00E+00	1.10E-02	3.53E-01	1.93E-03				
2026 Annual	Mon-Sun	2.27E+09	Graders D	D		500	Constructio	U	N	NHH	NP	Total	Total	Total	3.56E+01	9.22E+01	9.57E+02	4.53E-03	2.10E-02	1.84E-02	1.06E+01	1.04E-04	6.80E-04	0.00E+00	4.09E-04	4.56E-01	2.25E-03				
2026 Annual	Mon-Sun	2.27E+09	Graders D	D		750	Constructio	U	N	NHH	NP	Total	Total	Total	3.90E-01	1.01E+00	2.22E+01	1.05E-04	4.87E-04	4.33E-04	2.45E-01	2.47E-06	1.59E-05	0.00E+00	9.50E-06	9.65E-01	4.88E-03				
2026 Annual	Mon-Sun	2.27E+09	Off-Highw D	D		175	Constructio	U	P	NHH	NP	Total	Total	Total	4.14E+01	2.24E+02	1.28E+03	6.63E-03	8.44E-02	2.34E-02	1.40E+01	1.58E-04	1.07E-03	0.00E+00	5.98E-04	7.53E-01	1.41E-03				
2026 Annual	Mon-Sun	2.27E+09	Off-Highw D	D		250	Constructio	U	N	NHH	NP	Total	Total	Total	3.05E+02	1.66E+03	1.25E+04	5.81E-02	2.84E-01	1.83E-01	1.38E+02	1.55E-03	6.02E-03	0.00E+00	5.24E-03	3.42E-01	1.87E-03				
2026 Annual	Mon-Sun	2.27E+09	Off-Highw D	D		500	Constructio	U	N	NHH	NP	Total	Total	Total	4.30E+02	2.33E+03	2.87E+04	1.33E-01	6.18E-01	3.97E-01	3.17E+02	3.11E-03	1.36E-02	0.00E+00	1.20E-02	5.30E-01	2.67E-03				
2026 Annual	Mon-Sun	2.27E+09	Off-Highw D	D		750	Constructio	U	N	NHH	NP	Total	Total	Total	8.19E+01	4.44E+02	8.86E+03	4.11E-02	1.91E-01	1.24E-01	9.80E+01	9.85E-04	4.23E-03	0.00E+00	3.71E-03	8.60E-01	4.44E-03				
2026 Annual	Mon-Sun	2.27E+09	Off-Highw D	D		1000	Constructio	U	N	NHH	NP	Total	Total	Total	3.84E+01	2.08E+02	5.87E+03	2.82E-02	1.28E-01	3.21E-01	6.49E+01	6.53E-04	5.17E-03	0.00E+00	2.54E-03	1.23E+00	6.28E-03				
2026 Annual	Mon-Sun	2.27E+09	Crushing/PD	D		50	Constructio	U	P	NHH	P	Total	Total	Total	1.02E+02	2.67E+02	5.37E+02	6.42E-03	5.11E-02	3.75E-02	5.86E+00	7.58E-05	9.33E-04	0.00E+00	5.79E-04	3.83E-01	5.69E-04				
2026 Annual	Mon-Sun	2.27E+09	Crushing/PD	D		120	Constructio	U	P	NHH	P	Total	Total	Total	2.87E+02	7.51E+02	2.85E+03	1.80E-02	2.03E-01	1.16E-01	3.12E+01	3.66E-04	4.37E-03	0.00E+00	1.62E-03	5.40E-01	9.74E-04				
2026 Annual	Mon-Sun	2.27E+09	Crushing/PD	D		175	Constructio	U	P	NHH	P	Total	Total	Total	1.22E+02	3.18E+02	2.42E+03	1.18E-02	1.52E-01	5.33E-02	2.66E+01	2.99E-04	2.33E-03	0.00E+00	1.07E-03	9.55E-01	1.88E-03				
2026 Annual																															

**Table C.19** CARB Offroad 2007 output

used to calculate CO and SOx because Offroad2011 does not calculate CO and SOx

CY	Season	AvgDays	Code	Equipme nt	Fuel	MaxH P	Class	C/R	Pre	Hand	Port	County	Air Basin	Air Dist.	Populatio n	Activity	hr/day for	gal/day	Consump tion	ROG Exhaust	CO Exhaust	NOx Exhaust	CO2 Exhaust	SO2 Exhaust	PM Exhaust	N2O Exhaust	CH4 Exhaust	CO	SOx
																	total populatio n	for total populatio n											
2026 Annual	Mon-Sun	2.27E+09	Rubber Tir D		500	Constructi U	N	NHH	NP	Total	Total	Total	1.10E+03	2.91E+03	3.12E+04	1.45E-01	6.72E-01	5.78E-01	3.45E+02	3.39E-03	2.12E-02	0.00E+00	1.30E-02	4.61E-01	2.32E-03				
2026 Annual	Mon-Sun	2.27E+09	Rubber Tir D		750	Constructi U	N	NHH	NP	Total	Total	Total	1.57E+01	4.18E+01	9.18E+02	4.26E-03	1.97E-02	1.73E-02	1.01E+01	1.02E-04	6.27E-04	0.00E+00	3.84E-04	9.44E-01	4.88E-03				
2026 Annual	Mon-Sun	2.27E+09	Rubber Tir D		1000	Constructi U	N	NHH	NP	Total	Total	Total	1.69E+00	4.49E+00	1.21E+02	5.80E-04	2.65E-03	7.01E-03	1.33E+00	1.34E-05	1.26E-04	0.00E+00	5.24E-05	1.18E+00	5.97E-03				
2026 Annual	Mon-Sun	2.27E+09	Rubber Tir D		175	Constructi U	P	NHH	NP	Total	Total	Total	6.36E+00	2.81E+01	1.66E+02	1.55E-03	1.13E-02	8.97E-03	1.82E+00	2.05E-05	5.01E-04	0.00E+00	1.40E-04	8.00E-01	1.46E-03				
2026 Annual	Mon-Sun	2.27E+09	Rubber Tir D		250	Constructi U	N	NHH	NP	Total	Total	Total	1.56E+02	6.89E+02	5.73E+03	4.38E-02	1.56E-01	2.81E-01	6.32E+01	7.11E-04	1.07E-02	0.00E+00	3.95E-03	4.53E-01	2.06E-03				
2026 Annual	Mon-Sun	2.27E+09	Rubber Tir D		500	Constructi U	N	NHH	NP	Total	Total	Total	2.40E+02	1.06E+03	1.27E+04	9.24E-02	3.84E-01	5.65E-01	1.40E+02	1.38E-03	2.19E-02	0.00E+00	8.34E-03	7.24E-01	2.60E-03				
2026 Annual	Mon-Sun	2.27E+09	Rubber Tir D		750	Constructi U	N	NHH	NP	Total	Total	Total	1.73E+01	7.65E+01	1.38E+03	1.01E-02	4.17E-02	6.30E-02	1.52E+01	1.53E-04	2.41E-03	0.00E+00	9.09E-04	1.09E+00	4.01E-03				
2026 Annual	Mon-Sun	2.27E+09	Rubber Tir D		1000	Constructi U	N	NHH	NP	Total	Total	Total	1.17E+00	5.17E+00	1.39E+02	1.07E-03	4.47E-03	1.13E-02	1.53E+00	1.54E-05	2.91E-04	0.00E+00	9.65E-05	1.73E+00	5.95E-03				
2026 Annual	Mon-Sun	2.27E+09	Tractors/Ld		25	Constructi U	P	NHH	NP	Total	Total	Total	1.79E+02	4.63E+02	3.34E+02	4.43E-03	1.51E-02	2.80E-02	3.67E+00	4.66E-05	1.05E-03	0.00E+00	4.00E-04	6.53E-02	2.01E-04				
2026 Annual	Mon-Sun	2.27E+09	Tractors/Ld		50	Constructi U	P	NHH	NP	Total	Total	Total	1.07E+03	2.81E+03	3.91E+03	4.33E-02	3.75E-01	2.61E-01	4.26E+01	5.51E-04	4.38E-03	0.00E+00	3.91E-03	2.67E-01	3.92E-04				
2026 Annual	Mon-Sun	2.27E+09	Tractors/Ld		120	Constructi U	P	NHH	NP	Total	Total	Total	1.43E+04	3.76E+04	8.86E+04	5.11E-01	6.34E+00	3.16E+00	9.72E+02	1.14E-02	8.85E-02	0.00E+00	4.61E-02	3.37E-01	6.06E-04				
2026 Annual	Mon-Sun	2.27E+09	Tractors/Ld		175	Constructi U	P	NHH	NP	Total	Total	Total	1.07E+03	2.81E+03	1.29E+04	5.60E-02	8.19E-01	1.98E-01	1.42E+02	1.60E-03	8.60E-03	0.00E+00	5.05E-03	5.83E-01	1.14E-03				
2026 Annual	Mon-Sun	2.27E+09	Tractors/Ld		250	Constructi U	N	NHH	NP	Total	Total	Total	3.46E+02	9.08E+02	7.04E+03	2.76E-02	1.53E-01	8.61E-02	7.79E+01	8.76E-04	2.87E-03	0.00E+00	2.49E-03	3.38E-01	1.93E-03				
2026 Annual	Mon-Sun	2.27E+09	Tractors/Ld		500	Constructi U	N	NHH	NP	Total	Total	Total	5.59E+02	1.46E+03	2.28E+04	8.91E-02	4.75E-01	2.67E-01	2.52E+02	2.84E-03	9.14E-03	0.00E+00	8.04E-03	6.49E-01	3.88E-03				
2026 Annual	Mon-Sun	2.27E+09	Tractors/Ld		750	Constructi U	N	NHH	NP	Total	Total	Total	7.87E+01	2.07E+02	4.83E+03	1.88E-02	1.00E-01	5.70E-02	5.34E+01	6.00E-04	1.94E-03	0.00E+00	1.70E-03	9.73E-01	5.82E-03				
2026 Annual	Mon-Sun	2.27E+09	Crawler Tr D		50	Constructi U	P	NHH	NP	Total	Total	Total	8.91E+00	2.53E+01	2.89E+01	5.75E-04	3.20E-03	2.27E-03	3.14E-01	4.06E-06	1.02E-04	0.00E+00	5.19E-05	2.53E-01	3.21E-04				
2026 Annual	Mon-Sun	2.27E+09	Crawler Tr D		120	Constructi U	P	NHH	NP	Total	Total	Total	5.05E+03	1.43E+04	4.31E+04	4.11E-01	3.24E+00	2.40E+00	4.71E+02	5.53E-03	1.41E-01	0.00E+00	3.71E-02	4.52E-01	7.71E-04				
2026 Annual	Mon-Sun	2.27E+09	Crawler Tr D		175	Constructi U	P	NHH	NP	Total	Total	Total	1.71E+03	4.85E+03	2.68E+04	1.88E-01	1.76E+00	9.76E-01	2.94E+02	3.30E-03	5.24E-02	0.00E+00	1.70E-02	7.25E-01	1.36E-03				
2026 Annual	Mon-Sun	2.27E+09	Crawler Tr D		250	Constructi U	N	NHH	NP	Total	Total	Total	1.47E+03	4.17E+03	3.13E+04	1.85E-01	7.56E-01	1.01E+00	3.46E+02	3.89E-03	3.63E-02	0.00E+00	1.67E-02	3.63E-01	1.87E-03				
2026 Annual	Mon-Sun	2.27E+09	Crawler Tr D		500	Constructi U	N	NHH	NP	Total	Total	Total	1.01E+03	2.86E+03	3.35E+04	1.91E-01	8.25E-01	9.74E-01	3.70E+02	3.63E-03	3.64E-02	0.00E+00	1.72E-02	5.77E-01	2.54E-03				
2026 Annual	Mon-Sun	2.27E+09	Crawler Tr D		750	Constructi U	N	NHH	NP	Total	Total	Total	1.04E+01	2.95E+01	6.20E+02	3.55E-03	1.53E-02	1.85E-02	6.85E+00	6.88E-05	6.83E-04	0.00E+00	3.20E-04	1.03E+00	4.67E-03				
2026 Annual	Mon-Sun	2.27E+09	Crawler Tr D		1000	Constructi U	N	NHH	NP	Total	Total	Total	1.04E+01	2.95E+01	8.78E+02	5.28E-03	2.24E-02	5.98E-02	9.69E+00	9.74E-05	1.30E-03	0.00E+00	4.76E-04	1.52E+00	6.61E-03				
2026 Annual	Mon-Sun	2.27E+09	Skid Steer D		25	Constructi U	P	NHH	NP	Total	Total	Total	1.22E+03	2.79E+03	1.75E+03	2.32E-02	7.93E-02	1.47E-01	1.92E+01	2.44E-04	5.59E-03	0.00E+00	2.10E-03	5.67E-02	1.75E-04				
2026 Annual	Mon-Sun	2.27E+09	Skid Steer D		50	Constructi U	P	NHH	NP	Total	Total	Total	1.11E+04	2.57E+04	3.00E+04	2.45E-01	2.54E+00	1.84E+00	3.28E+02	4.24E-03	1.67E-02	0.00E+00	2.21E-02	1.97E-01	3.30E-04				
2026 Annual	Mon-Sun	2.27E+09	Skid Steer D		120	Constructi U	P	NHH	NP	Total	Total	Total	5.81E+03	1.35E+04	2.62E+04	1.14E-01	1.79E+00	8.04E-01	2.88E+02	3.38E-03	1.29E-02	0.00E+00	1.03E-02	2.66E-01	5.01E-04				
2026 Annual	Mon-Sun	2.27E+09	Off-Highw D		120	Constructi U	P	NHH	NP	Total	Total	Total	6.36E-01	1.93E+00	8.27E+00	1.01E-04	6.36E-04	5.81E-04	9.04E-02	1.06E-06	4.03E-05	0.00E+00	9.14E-06	6.59E-01	1.10E-03				
2026 Annual	Mon-Sun	2.27E+09	Off-Highw D		175	Constructi U	P	NHH	NP	Total	Total	Total	7.78E+02	2.36E+03	1.40E+04	1.24E-01	9.34E-01	7.23E-01	1.54E+02	1.73E-03	4.02E-02	0.00E+00	1.12E-02	7.91E-01	1.47E-03				
2026 Annual	Mon-Sun	2.27E+09	Off-Highw D		250	Constructi U	N	NHH	NP	Total	Total	Total	7.35E+02	2.23E+03	1.32E+04	9.48E-02	3.48E-01	6.15E-01	1.45E+02	1.64E-03	2.32E-02	0.00E+00	8.55E-03	3.12E-01	1.47E-03				
2026 Annual	Mon-Sun	2.27E+09	Off-Highw D		750	Constructi U	N	NHH	NP	Total	Total	Total	6.53E+01	1.98E+02	5.10E+03	3.50E-02	1.47E-01	2.21E-01	5.62E+01	5.65E-04	8.35E-03	0.00E+00	3.16E-03	1.49E+00	5.71E-03				
2026 Annual	Mon-Sun	2.27E+09	Off-Highw D		1000	Constructi U	N	NHH	NP	Total	Total	Total	6.90E+00	2.09E+01	7.71E+02	5.61E-03	2.38E-02	6.13E-02	8.50E+00	8.55E-05	1.54E-03	0.00E+00	5.06E-04	2.28E+00	8.18E-03				
2026 Annual	Mon-Sun	2.27E+09	Dumpers/TD		25	Constructi U	P	NHH	NP	Total	Total	Total	1.53E+01	2.77E+01	9.62E+00	1.27E-04	4.35E-04	8.05E-04	1.06E-01	1.34E-06	3.01E-05	0.00E+00	1.15E-05	3.31E-02	9.67E-05				
2026 Annual	Mon-Sun	2.27E+09	Other Cons:D		15	Constructi U	P	NHH	NP	Total	Total	Total	2.11E+02	3.98E+02	1.84E+02	2.34E-03	1.23E-02	1.37E-02	2.01E+00	3.13E-05	5.73E-04	0.00E+00	2.11E-04	6.17E-02	1.57E-04				
2026 Annual	Mon-Sun	2.27E+09	Other Cons:D		25	Constructi U	P	NHH	NP	Total	Total	Total	3.56E+01	6.74E+01	4.05E+01	5.37E-04	1.83E-03	3.49E-03	4.45E-01	5.65E-06	1.27E-04	0.00E+00	4.84E-05	5.44E-02	1.68E-04				
2026 Annual	Mon-Sun	2.27E+09	Other Cons:D		50	Constructi U	P	NHH	NP	Total	Total	Total	5.47E+01	1.05E+02	1.34E+02	1.23E-03	1.14E-02	8.67E-03	1.47E+00	1.90E-05	1.49E-04	0.00E+00	1.11E-04	2.18E-01	3.62E-04				
2026 Annual	Mon-Sun	2.27E+09	Other Cons:D		120	Constructi U	P	NHH	NP	Total	Total	Total	9.03E+01	1.73E+02	6.37E+02	3.15E-03	4.36E-02	2.25E-02	6.99E+00	8.20E-05	6.25E-04	0.00E+00	2.84E-04	5.04E-01	9.48E-04				
2026 Annual	Mon-Sun	2.27E+09	Other Cons:D		175	Constructi U	P	NHH	NP	Total	Total	Total	1.25E+02	2.39E+02	1.16E+03	4.34E-03	6.99E-02	1.80E-02	1.27E+01	1.43E-04	7.42E-04	0.00E+00	3.91E-04	5.85E-01	1.20E-03				
2026 Annual	Mon-Sun	2.27E+09	Other Cons:D		500	Constructi U	N	NHH	NP	Total	Total	Total	2.89E+02	5.55E+02	6.37E+03	2.11E-02	1.28E-01	7.32E-02	7.04E+01	6.91E-04	2.36E-03	0.00E+00	1.90E-03	4.60E-01	2.49E-03				
2011 Annual	Mon-Sun	2.27E+09	Forklifts	C4	25	Industrial FU	N	NHH	NP	Los Angel SC	SC	SC	3.54E+00	1.21E+01	1.19E+01	7.55E-05	1.20E-02	3.34E-04	6.23E-02	0.00E+00	4.10E-05	0.00E+00	6.33E-04	1.97E+00	0.00E+00				
2011 Annual	Mon-Sun	2.27E+09	Forklifts	C4	25	Industrial FU	N	NHH	NP	Orange SC	SC	SC	1.03E+00	3.52E+00	3.45E+00	2.19E-05	3.47E-03	9.68E-05	1.81E-02	0.00E+00	1.19E-05	0.00E+00	1.84E-04	1.97E+00	0.00E+00				
2011 Annual	Mon-Sun	2.27E+09	Forklifts	C4	25	Industrial FU	N	NHH	NP	Riverside MD	SC	SC	4.21E-04	1.44E-03	1.41E-03	8.93E-09	1.42E-06	3.96E-08	7.40E-06	0.00E+00	4.86E-09	0.00E+00	7.48E-08	1.97E+00	0.00E+00				
2011 Annual	Mon-Sun	2.27E+09	Forklifts	C4	25	Industrial FU	N	NHH	NP	Riverside SS	SC	SC	1.61E-01	5.51E-01	5.40E-01	3.40E-06	5.41E-04	1.51E-05	2.83E-03	0.00E+00	1.86E-06	0.00E+00	2.85E-05	1.97E+00	0.00E+00				
2011 Annual	Mon-Sun	2.27E+09	Forklifts	C4	25	Industrial FU	N	NHH	NP	Riverside SS	SC	SC	3.76E-02	1.29E-01	1.26E-01	7.97E-07	1.27E-04	3.53E-06	6.61E-04	0.00E+00	4.34E-07	0.00E+00	6.68E-06	1.97E+00	0.00E+00				
2011 Annual	Mon-Sun	2.27E+09	Forklifts	C4	25	Industrial FU	N	NHH	NP	San Bernar SC	SC	SC	2.57E-01	8.80E-01	8.63E-01	5.46E-06	8.66E-04	2.42E-05	4.52E-03	0.00E+00	2.97E-06	0.00E+00	4.58E-05	1.97E+00	0.00E+00				
2011 Annual	Mon-Sun	2.27E+09	Forklifts	C4	50	Industrial FU	N	NHH	NP	Los Angel SC	SC	SC	2.40E+03	1.18E+04	1.58E+04	1.49E-02	1.74E+00	6.42E-01	1.08E+02	0.00E+00	9.64E-03	0.00E+00	1.25E-01	2.94E-01	0				





**Table C.19** CARB Offroad 2007 output

used to calculate CO and SOx because Offroad2011 does not calculate CO and SOx

CY	Season	AvgDays	Code	Equipme nt	Fuel	MaxH P	Class	C/R	Pre	Hand	Port	County	Air Basin	Air Dist.	Population n	Activity	Consump tion	ROG Exhaust	CO Exhaust	NOx Exhaust	CO2 Exhaust	SO2 Exhaust	PM Exhaust	N2O Exhaust	CH4 Exhaust		CO	SOx	lb/hr/equi pment	lb/hr/equi pment
2024	Annual	Mon-Sun	2.27E+09	Forklifts	C4	25	Industrial FU	N	NHH	NP	Riverside	SC	SC	2.27E-01	7.77E-01	7.62E-01	4.81E-06	7.64E-04	2.13E-05	3.99E-03	0.00E+00	2.62E-06	0.00E+00	4.03E-05		1.97E+00	0.00E+00			
2024	Annual	Mon-Sun	2.27E+09	Forklifts	C4	25	Industrial FU	N	NHH	NP	Riverside	SS	SC	5.11E-02	1.75E-01	1.72E-01	1.08E-06	1.72E-04	4.80E-06	8.98E-04	0.00E+00	5.90E-07	0.00E+00	9.08E-06		1.97E+00	0.00E+00			
2024	Annual	Mon-Sun	2.27E+09	Forklifts	C4	25	Industrial FU	N	NHH	NP	San Bernar	SC	SC	3.19E-01	1.09E+00	1.07E+00	6.78E-06	1.08E-03	3.00E-05	5.61E-03	0.00E+00	3.69E-06	0.00E+00	5.69E-05		1.97E+00	0.00E+00			
2024	Annual	Mon-Sun	2.27E+09	Forklifts	C4	50	Industrial FU	N	NHH	NP	Los Angel	SC	SC	2.75E+03	1.36E+04	1.81E+04	1.20E-02	1.99E+00	5.20E-01	1.24E+02	0.00E+00	1.10E-02	0.00E+00	1.00E-01		2.94E-01	0.00E+00			
2024	Annual	Mon-Sun	2.27E+09	Forklifts	C4	50	Industrial FU	N	NHH	NP	Orange	SC	SC	7.88E+02	3.89E+03	5.19E+03	3.44E-03	5.71E-01	1.49E-01	3.56E+01	0.00E+00	3.16E-03	0.00E+00	2.88E-02		2.94E-01	0.00E+00			
2024	Annual	Mon-Sun	2.27E+09	Forklifts	C4	50	Industrial FU	N	NHH	NP	Riverside	MD	SC	3.88E-01	1.91E+00	2.55E+00	1.66E-06	2.79E-04	7.30E-05	1.75E-02	0.00E+00	1.56E-06	0.00E+00	1.39E-05		2.91E-01	0.00E+00			
2024	Annual	Mon-Sun	2.27E+09	Forklifts	C4	50	Industrial FU	N	NHH	NP	Riverside	SC	SC	1.54E+02	7.58E+02	1.01E+03	6.55E-04	1.10E-01	2.89E-02	6.94E+00	0.00E+00	6.17E-04	0.00E+00	5.49E-03		2.91E-01	0.00E+00			
2024	Annual	Mon-Sun	2.27E+09	Forklifts	C4	50	Industrial FU	N	NHH	NP	Riverside	SS	SC	3.46E+01	1.71E+02	2.28E+02	1.48E-04	2.49E-02	6.51E-03	1.56E+00	0.00E+00	1.39E-04	0.00E+00	1.24E-03		2.91E-01	0.00E+00			
2024	Annual	Mon-Sun	2.27E+09	Forklifts	C4	50	Industrial FU	N	NHH	NP	San Bernar	SC	SC	2.16E+02	1.07E+03	1.42E+03	9.31E-04	1.56E-01	4.07E-02	9.75E+00	0.00E+00	8.67E-04	0.00E+00	7.80E-03		2.92E-01	0.00E+00			
2024	Annual	Mon-Sun	2.27E+09	Forklifts	C4	120	Industrial FU	N	NHH	NP	Los Angel	SC	SC	9.64E+03	4.76E+04	1.13E+05	7.10E-02	3.35E+01	3.36E+00	7.43E+02	0.00E+00	6.61E-02	0.00E+00	5.95E-01		1.41E+00	0.00E+00			
2024	Annual	Mon-Sun	2.27E+09	Forklifts	C4	120	Industrial FU	N	NHH	NP	Orange	SC	SC	2.77E+03	1.36E+04	3.25E+04	2.04E-02	9.62E+00	9.65E-01	2.13E+02	0.00E+00	1.90E-02	0.00E+00	1.71E-01		1.41E+00	0.00E+00			
2024	Annual	Mon-Sun	2.27E+09	Forklifts	C4	120	Industrial FU	N	NHH	NP	Riverside	MD	SC	1.36E+00	6.72E+00	1.60E+01	9.87E-06	4.70E-03	4.70E-04	1.05E-01	0.00E+00	9.33E-06	0.00E+00	8.27E-05		1.40E+00	0.00E+00			
2024	Annual	Mon-Sun	2.27E+09	Forklifts	C4	120	Industrial FU	N	NHH	NP	Riverside	SC	SC	5.39E+02	2.66E+03	6.33E+03	3.89E-03	1.86E+00	1.86E-01	4.16E+01	0.00E+00	3.70E-03	0.00E+00	3.26E-02		1.40E+00	0.00E+00			
2024	Annual	Mon-Sun	2.27E+09	Forklifts	C4	120	Industrial FU	N	NHH	NP	Riverside	SS	SC	1.21E+02	5.99E+02	1.43E+03	8.80E-04	4.19E-01	4.19E-02	9.38E+00	0.00E+00	8.32E-04	0.00E+00	7.38E-03		1.40E+00	0.00E+00			
2024	Annual	Mon-Sun	2.27E+09	Forklifts	C4	120	Industrial FU	N	NHH	NP	San Bernar	SC	SC	7.58E+02	3.74E+03	8.90E+03	5.52E-03	2.62E+00	2.63E-01	5.84E+01	0.00E+00	5.19E-03	0.00E+00	4.63E-02		1.40E+00	0.00E+00			
2024	Annual	Mon-Sun	2.27E+09	Forklifts	C4	175	Industrial FU	N	NHH	NP	Los Angel	SC	SC	3.53E+02	1.74E+03	8.50E+03	3.26E-03	1.96E+00	1.67E-01	5.67E+01	0.00E+00	5.04E-03	0.00E+00	2.73E-02		2.26E+00	0.00E+00			
2024	Annual	Mon-Sun	2.27E+09	Forklifts	C4	175	Industrial FU	N	NHH	NP	Orange	SC	SC	1.01E+02	5.00E+02	2.44E+03	9.35E-04	5.64E-01	4.80E-02	1.63E+01	0.00E+00	1.45E-03	0.00E+00	7.84E-03		2.26E+00	0.00E+00			
2024	Annual	Mon-Sun	2.27E+09	Forklifts	C4	175	Industrial FU	N	NHH	NP	Riverside	MD	SC	4.98E-02	2.46E-01	1.20E+00	4.54E-07	2.76E-04	2.35E-05	8.00E-03	0.00E+00	7.12E-07	0.00E+00	3.80E-06		2.24E+00	0.00E+00			
2024	Annual	Mon-Sun	2.27E+09	Forklifts	C4	175	Industrial FU	N	NHH	NP	Riverside	SC	SC	1.97E+01	9.74E+01	4.75E+02	1.79E-04	1.09E-01	9.31E-03	3.17E+00	0.00E+00	2.82E-04	0.00E+00	1.50E-03		2.24E+00	0.00E+00			
2024	Annual	Mon-Sun	2.27E+09	Forklifts	C4	175	Industrial FU	N	NHH	NP	Riverside	SS	SC	4.44E+00	2.19E+01	1.07E+02	4.05E-05	2.46E-02	2.10E-03	7.14E-01	0.00E+00	6.35E-05	0.00E+00	3.39E-04		2.24E+00	0.00E+00			
2024	Annual	Mon-Sun	2.27E+09	Forklifts	C4	175	Industrial FU	N	NHH	NP	San Bernar	SC	SC	2.77E+01	1.37E+02	6.68E+02	2.54E-04	1.54E-01	1.31E-02	4.46E+00	0.00E+00	3.97E-04	0.00E+00	2.13E-03		2.25E+00	0.00E+00			
2024	Annual	Mon-Sun	2.27E+09	Generator	C4	120	Light Com U	N	NHH	P	Los Angel	SC	SC	5.64E+01	1.78E+01	1.11E+02	3.22E-05	2.35E-02	2.42E-03	7.45E-01	0.00E+00	6.63E-05	0.00E+00	2.70E-04		2.64E+00	0.00E+00			
2024	Annual	Mon-Sun	2.27E+09	Generator	C4	120	Light Com U	N	NHH	P	Orange	SC	SC	2.27E+01	7.15E+00	4.47E+01	1.24E-05	9.42E-03	9.50E-04	3.00E-01	0.00E+00	2.67E-05	0.00E+00	1.04E-04		2.63E+00	0.00E+00			
2024	Annual	Mon-Sun	2.27E+09	Generator	C4	120	Light Com U	N	NHH	P	Riverside	MD	SC	1.49E-02	4.68E-03	2.93E-02	8.22E-09	6.17E-06	6.25E-07	1.96E-04	0.00E+00	1.75E-08	0.00E+00	6.89E-08		2.64E+00	0.00E+00			
2024	Annual	Mon-Sun	2.27E+09	Generator	C4	120	Light Com U	N	NHH	P	Riverside	SC	SC	6.83E+00	2.15E+00	1.34E+01	3.63E-06	2.82E-03	2.80E-04	9.02E-02	0.00E+00	8.02E-06	0.00E+00	3.04E-05		2.63E+00	0.00E+00			
2024	Annual	Mon-Sun	2.27E+09	Generator	C4	120	Light Com U	N	NHH	P	Riverside	SS	SC	1.35E+00	4.26E-01	2.66E+00	7.47E-07	5.61E-04	5.69E-05	1.79E-02	0.00E+00	1.59E-06	0.00E+00	6.26E-06		2.64E+00	0.00E+00			
2024	Annual	Mon-Sun	2.27E+09	Generator	C4	120	Light Com U	N	NHH	P	San Bernar	SC	SC	7.36E+00	2.31E+00	1.45E+01	3.97E-06	3.05E-03	3.05E-04	9.72E-02	0.00E+00	8.64E-06	0.00E+00	3.33E-05		2.63E+00	0.00E+00			
2024	Annual	Mon-Sun	2.27E+09	Generator	C4	175	Light Com U	N	NHH	P	Los Angel	SC	SC	4.68E+01	1.47E+01	1.61E+02	3.57E-05	2.81E-02	3.33E-03	1.09E+00	0.00E+00	9.67E-05	0.00E+00	3.00E-04		3.82E+00	0.00E+00			
2024	Annual	Mon-Sun	2.27E+09	Generator	C4	175	Light Com U	N	NHH	P	Orange	SC	SC	1.88E-01	5.93E+00	6.47E-01	1.39E-05	1.13E-02	1.30E-03	4.38E-01	0.00E+00	3.89E-05	0.00E+00	1.16E-04		3.81E+00	0.00E+00			
2024	Annual	Mon-Sun	2.27E+09	Generator	C4	175	Light Com U	N	NHH	P	Riverside	MD	SC	1.23E-02	3.88E-03	4.23E-02	9.14E-09	7.40E-06	8.57E-07	2.87E-04	0.00E+00	2.55E-08	0.00E+00	7.66E-08		3.81E+00	0.00E+00			
2024	Annual	Mon-Sun	2.27E+09	Generator	C4	175	Light Com U	N	NHH	P	Riverside	SC	SC	5.66E+00	1.78E+00	1.94E+01	4.05E-06	3.39E-03	3.83E-04	1.31E-01	0.00E+00	1.17E-05	0.00E+00	3.40E-05		3.80E+00	0.00E+00			
2024	Annual	Mon-Sun	2.27E+09	Generator	C4	175	Light Com U	N	NHH	P	Riverside	SS	SC	1.12E+00	3.52E+01	3.85E+00	8.31E-07	6.73E-04	7.79E-05	2.61E-02	0.00E+00	2.32E-06	0.00E+00	6.97E-06		3.81E+00	0.00E+00			
2024	Annual	Mon-Sun	2.27E+09	Generator	C4	175	Light Com U	N	NHH	P	San Bernar	SC	SC	6.10E+00	1.93E+00	2.09E+01	4.43E-06	3.65E-03	4.18E-04	1.42E-01	0.00E+00	1.26E-05	0.00E+00	3.71E-05		3.81E+00	0.00E+00			
2021	Annual	Mon-Sun	2.27E+09	Forklifts	C4	25	Industrial FU	N	NHH	NP	Los Angel	SC	SC	3.93E+00	1.35E+01	1.32E+01	8.39E-05	1.33E-02	3.70E-04	6.91E-02	0.00E+00	4.55E-05	0.00E+00	7.04E-04		1.97E+00	0.00E+00			
2021	Annual	Mon-Sun	2.27E+09	Forklifts	C4	25	Industrial FU	N	NHH	NP	Orange	SC	SC	1.13E+00	3.88E+00	3.80E+00	2.41E-05	3.81E-03	1.07E-04	1.99E-02	0.00E+00	1.31E-05	0.00E+00	2.02E-04		1.97E+00	0.00E+00			
2021	Annual	Mon-Sun	2.27E+09	Forklifts	C4	25	Industrial FU	N	NHH	NP	Riverside	MD	SC	5.33E-04	1.83E-03	1.79E-03	1.14E-08	1.80E-06	5.02E-08	9.38E-06	0.00E+00	6.17E-09	0.00E+00	9.52E-08		1.97E+00	0.00E+00			
2021	Annual	Mon-Sun	2.27E+09	Forklifts	C4	25	Industrial FU	N	NHH	NP	Riverside	SC	SC	2.10E-01	7.19E-01	7.05E-01	4.44E-06	7.07E-04	1.97E-05	3.69E-03	0.00E+00	2.42E-06	0.00E+00	3.72E-05		1.97E+00	0.00E+00			
2021	Annual	Mon-Sun	2.27E+09	Forklifts	C4	25	Industrial FU	N	NHH	NP	Riverside	SS	SC	4.76E-02	1.63E-01	1.60E-01	1.01E-06	1.61E-04	4.48E-06	8.37E-04	0.00E+00	5.51E-07	0.00E+00	8.50E-06		1.97E+00	0.00E+00			
2021	Annual	Mon-Sun	2.27E+09	Forklifts	C4	25	Industrial FU	N	NHH	NP	San Bernar	SC	SC	3.04E-01	1.04E+00	1.02E+00	6.42E-06	1.02E-03	2.85E-05	5.34E-03	0.00E+00	3.50E-06	0.00E+00	5.38E-05		1.96E+00	0.00E+00			
2021	Annual	Mon-Sun	2.27E+09	Forklifts	C4	50	Industrial FU	N	NHH	NP	Los Angel	SC	SC	2.66E+03	1.31E+04	1.75E+04	1.16E-02	1.93E+00	5.05E-01	1.20E+02	0.00E+00	1.07E-02	0.00E+00	9.74E-02		2.94E-01	0.00E+00			
2021	Annual	Mon-Sun	2.27E+09	Forklifts	C4	50	Industrial FU	N	NHH	NP	Orange	SC	SC	7.66E+02	3.78E+03	5.05E+03	3.34E-03	5.55E-01	1.45E-01	3.64E+01	0.00E+00	3.08E-03	0.00E+00	2.80E-02		2.93E-01	0.00E+00			
2021	Annual	Mon-Sun	2.27E+09	Forklifts	C4	50																								

**Table C.19 CARB Offroad 2007 output**

used to calculate CO and SOx because Offroad2011 does not calculate CO and SOx

CY	Season	AvgDays	Code	Equipme nt	Fuel	MaxH P	Class	C/R	Pre	Hand	Port	County	Air Basin	Air Dist.	hr/day for	gal/day	ton/day										lb/hr/equi	lb/hr/equi
															populatio n	for total populatio n	Population	Activity	Consump tion	ROG Exhaust	CO Exhaust	NOX Exhaust	CO2 Exhaust	SO2 Exhaust	PM Exhaust	N2O Exhaust	CH4 Exhaust	CO
2021	Annual	Mon-Sun	2.27E+09	Generator !C4		120	Light Com U	N	NHH	P	Los Angele	SC	SC	5.68E+01	1.79E+01	1.12E+02	3.83E-05	2.36E-02	2.78E-03	7.50E-01	0.00E+00	6.67E-05	0.00E+00	3.21E-04		2.64E+00	0.00E+00	
2021	Annual	Mon-Sun	2.27E+09	Generator !C4		120	Light Com U	N	NHH	P	Orange	SC	SC	2.24E+01	7.04E+00	4.41E+01	1.43E-05	9.27E-03	1.06E-03	2.96E-01	0.00E+00	2.63E-05	0.00E+00	1.20E-04		2.63E+00	0.00E+00	
2021	Annual	Mon-Sun	2.27E+09	Generator !C4		120	Light Com U	N	NHH	P	Riverside	MD	SC	1.47E-02	4.62E-03	2.89E-02	9.50E-09	6.08E-06	6.98E-07	1.94E-04	0.00E+00	1.72E-08	0.00E+00	7.96E-08		2.63E+00	0.00E+00	
2021	Annual	Mon-Sun	2.27E+09	Generator !C4		120	Light Com U	N	NHH	P	Riverside	SC	SC	6.66E+00	2.10E+00	1.31E+01	4.09E-06	2.75E-03	3.05E-04	8.79E-02	0.00E+00	7.82E-06	0.00E+00	3.43E-05		2.63E+00	0.00E+00	
2021	Annual	Mon-Sun	2.27E+09	Generator !C4		120	Light Com U	N	NHH	P	Riverside	SS	SC	1.34E+00	4.20E-01	2.63E+00	8.64E-07	5.53E-04	6.35E-05	1.76E-02	0.00E+00	1.57E-06	0.00E+00	7.24E-06		2.63E+00	0.00E+00	
2021	Annual	Mon-Sun	2.27E+09	Generator !C4		120	Light Com U	N	NHH	P	San Bernar	SC	SC	7.17E+00	2.26E+00	1.41E+01	4.52E-06	2.97E-03	3.35E-04	9.48E-02	0.00E+00	8.43E-06	0.00E+00	3.79E-05		2.63E+00	0.00E+00	
2021	Annual	Mon-Sun	2.27E+09	Generator !C4		175	Light Com U	N	NHH	P	Los Angele	SC	SC	4.71E+01	1.48E+01	1.62E+02	4.30E-05	2.82E-02	3.87E-03	1.09E+00	0.00E+00	9.72E-05	0.00E+00	3.60E-04		3.81E+00	0.00E+00	
2021	Annual	Mon-Sun	2.27E+09	Generator !C4		175	Light Com U	N	NHH	P	Orange	SC	SC	1.86E+01	5.84E+00	6.37E+01	1.62E-05	1.11E-02	1.47E-03	4.31E-01	0.00E+00	3.83E-05	0.00E+00	1.35E-04		3.81E+00	0.00E+00	
2021	Annual	Mon-Sun	2.27E+09	Generator !C4		175	Light Com U	N	NHH	P	Riverside	MD	SC	1.22E-02	3.83E-03	4.18E-02	1.07E-08	7.29E-06	9.70E-07	2.83E-04	0.00E+00	2.51E-08	0.00E+00	8.96E-08		3.81E+00	0.00E+00	
2021	Annual	Mon-Sun	2.27E+09	Generator !C4		175	Light Com U	N	NHH	P	Riverside	SC	SC	5.52E+00	1.74E+00	1.90E+01	4.63E-06	3.30E-03	4.23E-04	1.28E-01	0.00E+00	1.14E-05	0.00E+00	3.88E-05		3.80E+00	0.00E+00	
2021	Annual	Mon-Sun	2.27E+09	Generator !C4		175	Light Com U	N	NHH	P	Riverside	SS	SC	1.11E+00	3.48E-01	3.80E+00	9.72E-07	6.63E-04	8.83E-05	2.57E-02	0.00E+00	2.29E-06	0.00E+00	8.15E-06		3.81E+00	0.00E+00	
2021	Annual	Mon-Sun	2.27E+09	Generator !C4		175	Light Com U	N	NHH	P	San Bernar	SC	SC	5.95E+00	1.87E+00	2.04E+01	5.09E-06	3.56E-03	4.65E-04	1.38E-01	0.00E+00	1.23E-05	0.00E+00	4.27E-05		3.80E+00	0.00E+00	

**Table C.20 CARB EMFAC 2011 output**

**offsite transit**

unmitigated - used for worker vehicles during construction and operations and for delivery trucks during operation; for trucks during construction, CAAP is required as project condition.

EMFAC 2011

2011 Estimated Annual Emissions

EMFAC 2011 Vehicle Categories

Los Angeles COUNTY

South Coast AIR BASIN

South Coast AQMD

Area	CalYr	Season	Veh	Fuel	MdYr	Speed (Miles/hr)	Pop (Vehicles)	VMT (Miles/day)	Trips (Trips/day)	ROG_RUNEX (Tons/day)	ROG_IDLEX (Tons/day)	ROG_STREX (Tons/day)	ROG_TOTEX (Tons/day)	
Los Angele	2011	Annual	LDA	GAS	AllMYr	AllSpeeds	3432809.297	1.14E+08	2.16E+07	9.806668338		0	8.604815583	18.41148392
Los Angele	2011	Annual	LDA	DSL	AllMYr	AllSpeeds	12305.80843	345697.8411	69210.91386	0.040185029		0	0	0.040185029
Los Angele	2011	Annual	LDT1	GAS	AllMYr	AllSpeeds	380782.8435	1.27E+07	2322656.398	2.824349864		0	1.709126456	4.53347632
Los Angele	2011	Annual	LDT1	DSL	AllMYr	AllSpeeds	565.952667	16216.95978	2974.67764	0.002763848		0	0	0.002763848
Los Angele	2011	Annual	T6 instate heavy	DSL	AllMYr	AllSpeeds	9438.661932	524764.8404		0	0.24473344	0.0043988	0	0.24913224
Los Angele	2011	Annual	LDA/LDT1	GAS&DSL	AllMYr	AllSpeeds	3826463.902	127372466.7	23992175.43	12.67396708		0	10.31394204	22.98790912

EMFAC 2011

2013 Estimated Annual Emission Rates

EMFAC 2011 Vehicle Categories

Los Angeles COUNTY

South Coast AIR BASIN

South Coast AQMD

Area	CalYr	Season	Veh	Fuel	MdYr	Speed (Miles/hr)	Pop (Vehicles)	VMT (Miles/day)	Trips (Trips/day)	ROG_RUNEX (Tons/day)	ROG_IDLEX (Tons/day)	ROG_STREX (Tons/day)	ROG_TOTEX (Tons/day)	
Los Angele	2013	Annual	LDA	GAS	AllMYr	AllSpeeds	3468117.5	1.16E+08	2.18E+07	7.16021536		0	6.372940714	13.53315607
Los Angele	2013	Annual	LDA	DSL	AllMYr	AllSpeeds	12432.38094	378377.9968	71454.51036	0.029345996		0	0	0.029345996
Los Angele	2013	Annual	LDT1	GAS	AllMYr	AllSpeeds	381381.5782	1.28E+07	2320501.249	2.169621042		0	1.423122042	3.592743084
Los Angele	2013	Annual	LDT1	DSL	AllMYr	AllSpeeds	566.842614	17205.74963	2967.77334	0.002327559		0	0	0.002327559
Los Angele	2013	Annual	T6 instate heavy	DSL	AllMYr	AllSpeeds	10508.75605	570311.1304		0	0.193907076	0.003536991	0	0.197444067
Los Angele	2013	Annual	LDA/LDT1	GAS&DSL	AllMYr	AllSpeeds	3862498.302	128728378.8	24243008.02	9.361509957		0	7.796062756	17.15757271

EMFAC 2011

2014 Estimated Annual Emissions

EMFAC 2011 Vehicle Categories

Los Angeles COUNTY

South Coast AIR BASIN

South Coast AQMD

Area	CalYr	Season	Veh	Fuel	MdYr	Speed (Miles/hr)	Pop (Vehicles)	VMT (Miles/day)	Trips (Trips/day)	ROG_RUNEX (Tons/day)	ROG_IDLEX (Tons/day)	ROG_STREX (Tons/day)	ROG_TOTEX (Tons/day)	
Los Angele	2014	Annual	LDA	GAS	AllMYr	AllSpeeds	3482857.315	1.16E+08	2.20E+07	6.01302799		0	5.462981748	11.47600974
Los Angele	2014	Annual	LDA	DSL	AllMYr	AllSpeeds	12485.21805	387550.4452	72558.51227	0.025186369		0	0	0.025186369
Los Angele	2014	Annual	LDT1	GAS	AllMYr	AllSpeeds	381804.9854	1.28E+07	2319766.572	1.876344305		0	1.295465582	3.171809887
Los Angele	2014	Annual	LDT1	DSL	AllMYr	AllSpeeds	567.471762	17653.03086	2988.91864	0.002110803		0	0	0.002110803
Los Angele	2014	Annual	T6 instate heavy	DSL	AllMYr	AllSpeeds	11040.89103	595239.5558		0	0.124463122	0.002574032	0	0.127037154
Los Angele	2014	Annual	LDA/LDT1	GAS&DSL	AllMYr	AllSpeeds	3877714.99	129190083	24347376.82	7.916669468		0	6.75844733	14.6751168

EMFAC 2011

2015 Estimated Annual Emissions

EMFAC 2011 Vehicle Categories

Los Angeles COUNTY

South Coast AIR BASIN

South Coast AQMD

Area	CalYr	Season	Veh	Fuel	MdYr	Speed	Pop	VMT	Trips	ROG_RUNEX	ROG_IDLEX	ROG_STREX	ROG_TOTEX
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**Table C.20 CARB EMFAC 2011 output**

**offsite transit**

unmitigated - used for worker vehicles during construction

EMFAC 2011

2011 Estimated Annual Emissions

EMFAC 2011 Vehicle Categories

Los Angeles COUNTY

South Coast AIR BASIN

South Coast AQMD

Area	CalYr	Season	Veh	ROG_DIURN (Tons/day)	ROG_HTSK (Tons/day)	ROG_RUNLS (Tons/day)	ROG_RESTL (Tons/day)	ROG_TOTAL (Tons/day)	TOG_RUNEX (Tons/day)	TOG_IDLEX (Tons/day)	TOG_STREX (Tons/day)	TOG_TOTEX (Tons/day)
Los Angeles	2011	Annual	LDA	2.519402279	4.975491688	12.68485584	1.819335979	40.41056971	12.80866554		9.201049626	22.00971517
Los Angeles	2011	Annual	LDA	0	0	0	0	0.040185029	0.045747982		0	0.045747982
Los Angeles	2011	Annual	LDT1	0.577829814	1.012403644	3.909773563	0.40107196	10.4345553	3.49657462		1.827271923	5.323846543
Los Angeles	2011	Annual	LDT1	0	0	0	0	0.002763848	0.003146457		0	0.003146457
Los Angeles	2011	Annual	T6 instate heavy	0	0	0	0	0.24913224	0.278610392	0.005007699	0	0.283618092
Los Angeles	2011	Annual	LDA/LDT1	3.097232093	5.987895332	16.5946294	2.220407939	50.88807389	16.3541346		11.02832155	27.38245615

EMFAC 2011

2013 Estimated Annual Emission Rates

EMFAC 2011 Vehicle Categories

Los Angeles COUNTY

South Coast AIR BASIN

South Coast AQMD

Area	CalYr	Season	Veh	ROG_DIURN (Tons/day)	ROG_HTSK (Tons/day)	ROG_RUNLS (Tons/day)	ROG_RESTL (Tons/day)	ROG_TOTAL (Tons/day)	TOG_RUNEX (Tons/day)	TOG_IDLEX (Tons/day)	TOG_STREX (Tons/day)	TOG_TOTEX (Tons/day)
Los Angeles	2013	Annual	LDA	2.013513212	4.292374915	10.13904375	1.573319393	31.55140735	9.595894908		6.813763654	16.40965856
Los Angeles	2013	Annual	LDA	0	0	0	0	0.029345996	0.033408464		0	0.033408464
Los Angeles	2013	Annual	LDT1	0.531991129	0.950186799	3.52144545	0.383008386	8.979374848	2.741639748		1.521036631	4.262676379
Los Angeles	2013	Annual	LDT1	0	0	0	0	0.002327559	0.002649771		0	0.002649771
Los Angeles	2013	Annual	T6 instate heavy	0	0	0	0	0.197444067	0.220748446	0.004026595	0	0.22477504
Los Angeles	2013	Annual	LDA/LDT1	2.545504341	5.242561715	13.6604892	1.956327779	40.56245575	12.37359289		8.334800285	20.70839318

EMFAC 2011

2014 Estimated Annual Emissions

EMFAC 2011 Vehicle Categories

Los Angeles COUNTY

South Coast AIR BASIN

South Coast AQMD

Area	CalYr	Season	Veh	ROG_DIURN (Tons/day)	ROG_HTSK (Tons/day)	ROG_RUNLS (Tons/day)	ROG_RESTL (Tons/day)	ROG_TOTAL (Tons/day)	TOG_RUNEX (Tons/day)	TOG_IDLEX (Tons/day)	TOG_STREX (Tons/day)	TOG_TOTEX (Tons/day)
Los Angeles	2014	Annual	LDA	1.800576792	3.966056198	9.049865605	1.461504664	27.754013	8.217431606		5.840076054	14.05750766
Los Angeles	2014	Annual	LDA	0	0	0	0	0.025186369	0.028673006		0	0.028673006
Los Angeles	2014	Annual	LDT1	0.511450647	0.920585671	3.337204026	0.375516137	8.316566369	2.404312694		1.38434597	3.788658664
Los Angeles	2014	Annual	LDT1	0	0	0	0	0.002110803	0.002403009		0	0.002403009
Los Angeles	2014	Annual	T6 instate heavy	0	0	0	0	0.127037154	0.14169179	0.002930339	0	0.144622129
Los Angeles	2014	Annual	LDA/LDT1	2.312027439	4.886641868	12.38706963	1.837020801	36.09787654	10.65282031		7.224422024	17.87724234

EMFAC 2011

2015 Estimated Annual Emissions

EMFAC 2011 Vehicle Categories

Los Angeles COUNTY

South Coast AIR BASIN

South Coast AQMD

Area	CalYr	Season	Veh	ROG_DIURN	ROG_HTSK	ROG_RUNLS	ROG_RESTL	ROG_TOTAL	TOG_RUNEX	TOG_IDLEX	TOG_STREX	TOG_TOTEX
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**Table C.20 CARB EMFAC 2011 output**

**offsite transit**

unmitigated - used for worker vehicles during construction

EMFAC 2011

2011 Estimated Annual Emissions

EMFAC 2011 Vehicle Categories

Los Angeles COUNTY

South Coast AIR BASIN

South Coast AQMD

Area	CalYr	Season	Veh	TOG_DIURN (Tons/day)	TOG_HTSK (Tons/day)	TOG_RUNLS (Tons/day)	TOG_RESTL (Tons/day)	TOG_TOTAL (Tons/day)	CO_RUNEX (Tons/day)	CO_IDLEX (Tons/day)	CO_STREX (Tons/day)	CO_TOTEX (Tons/day)
Los Angeles	2011	Annual	LDA	2.519402279	4.975491688	12.68485584	1.819335979	44.00880095	264.0364601	0	93.8600166	357.8964767
Los Angeles	2011	Annual	LDA	0	0	0	0	0.045747982	0.17911873	0	0	0.17911873
Los Angeles	2011	Annual	LDT1	0.577829814	1.012403644	3.909773563	0.40107196	11.22492552	73.5613958	0	20.87943448	94.44083028
Los Angeles	2011	Annual	LDT1	0	0	0	0	0.003146457	0.011874517	0	0	0.011874517
Los Angeles	2011	Annual	T6 instate heavy	0	0	0	0	0.283618092	0.888365885	0.035786924	0	0.924152808
Los Angeles	2011	Annual	LDA/LDT1	3.097232093	5.987895332	16.5946294	2.220407939	55.28262092	337.7888491	0	114.7394511	452.5283002

EMFAC 2011

2013 Estimated Annual Emission Rates

EMFAC 2011 Vehicle Categories

Los Angeles COUNTY

South Coast AIR BASIN

South Coast AQMD

Area	CalYr	Season	Veh	TOG_DIURN (Tons/day)	TOG_HTSK (Tons/day)	TOG_RUNLS (Tons/day)	TOG_RESTL (Tons/day)	TOG_TOTAL (Tons/day)	CO_RUNEX (Tons/day)	CO_IDLEX (Tons/day)	CO_STREX (Tons/day)	CO_TOTEX (Tons/day)
Los Angeles	2013	Annual	LDA	2.013513212	4.292374915	10.13904375	1.573319393	34.42790983	209.5706994	0	73.6751407	283.2458401
Los Angeles	2013	Annual	LDA	0	0	0	0	0.033408464	0.139383652	0	0	0.139383652
Los Angeles	2013	Annual	LDT1	0.531991129	0.950186799	3.52144545	0.383008386	9.649308142	60.93062425	0	17.75514617	78.68577042
Los Angeles	2013	Annual	LDT1	0	0	0	0	0.002649771	0.010186138	0	0	0.010186138
Los Angeles	2013	Annual	T6 instate heavy	0	0	0	0	0.22477504	0.716538695	0.030784188	0	0.747322883
Los Angeles	2013	Annual	LDA/LDT1	2.545504341	5.242561715	13.6604892	1.956327779	44.11327621	270.6508935	0	91.43028687	362.0811803

EMFAC 2011

2014 Estimated Annual Emissions

EMFAC 2011 Vehicle Categories

Los Angeles COUNTY

South Coast AIR BASIN

South Coast AQMD

Area	CalYr	Season	Veh	TOG_DIURN (Tons/day)	TOG_HTSK (Tons/day)	TOG_RUNLS (Tons/day)	TOG_RESTL (Tons/day)	TOG_TOTAL (Tons/day)	CO_RUNEX (Tons/day)	CO_IDLEX (Tons/day)	CO_STREX (Tons/day)	CO_TOTEX (Tons/day)
Los Angeles	2014	Annual	LDA	1.800576792	3.966056198	9.049865605	1.461504664	30.33551092	186.3524024	0	65.2920003	251.6444027
Los Angeles	2014	Annual	LDA	0	0	0	0	0.028673006	0.123318289	0	0	0.123318289
Los Angeles	2014	Annual	LDT1	0.511450647	0.920585671	3.337204026	0.375516137	8.933415146	55.3914896	0	16.36656238	71.75805198
Los Angeles	2014	Annual	LDT1	0	0	0	0	0.002403009	0.009304201	0	0	0.009304201
Los Angeles	2014	Annual	T6 instate heavy	0	0	0	0	0.144622129	0.458645905	0.022445788	0	0.481091694
Los Angeles	2014	Annual	LDA/LDT1	2.312027439	4.886641868	12.38706963	1.837020801	39.30000208	241.8765145	0	81.65856268	323.5350772

EMFAC 2011

2015 Estimated Annual Emissions

EMFAC 2011 Vehicle Categories

Los Angeles COUNTY

South Coast AIR BASIN

South Coast AQMD

Area	CalYr	Season	Veh	TOG_DIURN	TOG_HTSK	TOG_RUNLS	TOG_RESTL	TOG_TOTAL	CO_RUNEX	CO_IDLEX	CO_STREX	CO_TOTEX
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**Table C.20 CARB EMFAC 2011 output**

**offsite transit**

unmitigated - used for worker vehicles during const

EMFAC 2011

2011 Estimated Annual Emissions

EMFAC 2011 Vehicle Categories

Los Angeles COUNTY

South Coast AIR BASIN

South Coast AQMD

Area	CalYr	Season	Veh	NOX_RUNEX (Tons/day)	NOX_IDLEX (Tons/day)	NOX_STREX (Tons/day)	NOX_TOTEX (Tons/day)	CO2_RUNEX (Tons/day)	CO2_IDLEX (Tons/day)	CO2_STREX (Tons/day)	CO2_TOTEX (Tons/day)	CO2_RUNEX(Pavl) (Tons/day)
Los Angele	2011	Annual	LDA	23.43370493	0	6.463173495	29.89687842	46516.92097	0	1749.388359	48266.30933	45486.17429
Los Angele	2011	Annual	LDA	0.299116712	0	0	0.299116712	130.2563172	0	0	130.2563172	125.9597062
Los Angele	2011	Annual	LDT1	6.949248788	0	1.156471358	8.105720146	5954.482087	0	215.5732175	6170.055305	5852.07419
Los Angele	2011	Annual	LDT1	0.018329649	0	0	0.018329649	6.435160176	0	0	6.435160176	6.280202962
Los Angele	2011	Annual	T6 instate heavy	5.019070587	0.103156747	0	5.122227334	660.3902641	7.09628692	0	667.486551	658.7392885
Los Angele	2011	Annual	LDA/LDT1	30.70040008	0	7.619644853	38.32004493	52608.09454	0	1964.961576	54573.05611	51470.48839

EMFAC 2011

2013 Estimated Annual Emission Rates

EMFAC 2011 Vehicle Categories

Los Angeles COUNTY

South Coast AIR BASIN

South Coast AQMD

Area	CalYr	Season	Veh	NOX_RUNEX (Tons/day)	NOX_IDLEX (Tons/day)	NOX_STREX (Tons/day)	NOX_TOTEX (Tons/day)	CO2_RUNEX (Tons/day)	CO2_IDLEX (Tons/day)	CO2_STREX (Tons/day)	CO2_TOTEX (Tons/day)	CO2_RUNEX(Pavl) (Tons/day)
Los Angele	2013	Annual	LDA	18.3522692	0	5.042270129	23.39453933	47143.3137	0	1772.244301	48915.558	43422.46843
Los Angele	2013	Annual	LDA	0.247494157	0	0	0.247494157	139.1846493	0	0	139.1846493	125.0266108
Los Angele	2013	Annual	LDT1	5.803184204	0	0.993386023	6.796570227	5981.883352	0	215.2912129	6197.174565	5621.372297
Los Angele	2013	Annual	LDT1	0.015927692	0	0	0.015927692	6.642533762	0	0	6.642533762	6.125076778
Los Angele	2013	Annual	T6 instate heavy	4.767269973	0.110987559	0	4.878257532	718.1478676	8.099751409	0	726.247619	710.9663889
Los Angele	2013	Annual	LDA/LDT1	24.41887526	0	6.035656152	30.45453141	53271.02423	0	1987.535514	55258.55975	49174.99242

EMFAC 2011

2014 Estimated Annual Emissions

EMFAC 2011 Vehicle Categories

Los Angeles COUNTY

South Coast AIR BASIN

South Coast AQMD

Area	CalYr	Season	Veh	NOX_RUNEX (Tons/day)	NOX_IDLEX (Tons/day)	NOX_STREX (Tons/day)	NOX_TOTEX (Tons/day)	CO2_RUNEX (Tons/day)	CO2_IDLEX (Tons/day)	CO2_STREX (Tons/day)	CO2_TOTEX (Tons/day)	CO2_RUNEX(Pavl) (Tons/day)
Los Angele	2014	Annual	LDA	16.30578914	0	4.429637336	20.73542648	47345.68824	0	1781.890573	49127.57881	42298.83745
Los Angele	2014	Annual	LDA	0.226683583	0	0	0.226683583	141.4086501	0	0	141.4086501	123.1244887
Los Angele	2014	Annual	LDT1	5.317959196	0	0.920340021	6.238299218	5991.68699	0	215.2277525	6206.914742	5499.475956
Los Angele	2014	Annual	LDT1	0.014804645	0	0	0.014804645	6.734538702	0	0	6.734538702	6.024109613
Los Angele	2014	Annual	T6 instate heavy	4.631009045	0.115188073	0	4.746197118	751.9960119	8.638438816	0	760.6344507	740.7160717
Los Angele	2014	Annual	LDA/LDT1	21.86523657	0	5.349977357	27.21521393	53485.51842	0	1997.118326	55482.63674	47927.462

EMFAC 2011

2015 Estimated Annual Emissions

EMFAC 2011 Vehicle Categories

Los Angeles COUNTY

South Coast AIR BASIN

South Coast AQMD

Area	CalYr	Season	Veh	NOX_RUNEX	NOX_IDLEX	NOX_STREX	NOX_TOTEX	CO2_RUNEX	CO2_IDLEX	CO2_STREX	CO2_TOTEX	CO2_RUNEX(Pavl)
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**Table C.20 CARB EMFAC 2011 output**

**offsite transit**

unmitigated - used for worker vehicles during const

EMFAC 2011

2011 Estimated Annual Emissions

EMFAC 2011 Vehicle Categories

Los Angeles COUNTY

South Coast AIR BASIN

South Coast AQMD

Area	CalYr	Season	Veh	CO2_IDLEX(Pavle (Tons/day)	CO2_STREX(Pavk (Tons/day)	CO2_TOTEX(Pavk (Tons/day)	PM10_RUNEX (Tons/day)	PM10_IDLEX (Tons/day)	PM10_STREX (Tons/day)	PM10_TOTEX (Tons/day)	PM10_PMTW (Tons/day)	PM10_PMBW (Tons/day)
Los Angele	2011	Annual	LDA	0	1721.378097	47207.55239	0.42613094	0	0.095695995	0.521826935	1.007750673	4.629355176
Los Angele	2011	Annual	LDA	0	0	125.9597062	0.030754429	0	0	0.030754429	0.003048533	0.014004201
Los Angele	2011	Annual	LDT1	0	212.7001948	6064.774384	0.110343755	0	0.019146443	0.129490198	0.11229073	0.51583563
Los Angele	2011	Annual	LDT1	0	0	6.280202962	0.00236145	0	0	0.00236145	1.43E-04	6.57E-04
Los Angele	2011	Annual	T6 instate heavy	7.078546202	0	665.8178347	0.18507707	0.001391337	0	0.186468407	0.006941451	0.075395723
Los Angele	2011	Annual	LDA/LDT1	0	1934.078292	53404.56669	0.569590574	0	0.114842438	0.684433012	1.123232946	5.159851956

EMFAC 2011

2013 Estimated Annual Emission Rates

EMFAC 2011 Vehicle Categories

Los Angeles COUNTY

South Coast AIR BASIN

South Coast AQMD

Area	CalYr	Season	Veh	CO2_IDLEX(Pavle (Tons/day)	CO2_STREX(Pavk (Tons/day)	CO2_TOTEX(Pavk (Tons/day)	PM10_RUNEX (Tons/day)	PM10_IDLEX (Tons/day)	PM10_STREX (Tons/day)	PM10_TOTEX (Tons/day)	PM10_PMTW (Tons/day)	PM10_PMBW (Tons/day)
Los Angele	2013	Annual	LDA	0	1663.689201	45086.15763	0.327537971	0	0.076727877	0.404265849	1.019249438	4.682177476
Los Angele	2013	Annual	LDA	0	0	125.0266108	0.022251641	0	0	0.022251641	0.003336723	0.015328073
Los Angele	2013	Annual	LDT1	0	204.6221772	5825.994474	0.092503848	0	0.016188039	0.108691887	0.112452219	0.516577454
Los Angele	2013	Annual	LDT1	0	0	6.125076778	0.001965712	0	0	0.001965712	1.52E-04	6.97E-04
Los Angele	2013	Annual	T6 instate heavy	8.018753895	0	718.9851428	0.141345898	0.001025378	0	0.142371276	0.007543925	0.081939598
Los Angele	2013	Annual	LDA/LDT1	0	1868.311378	51043.3038	0.444259173	0	0.092915916	0.537175089	1.135190109	5.214780008

EMFAC 2011

2014 Estimated Annual Emissions

EMFAC 2011 Vehicle Categories

Los Angeles COUNTY

South Coast AIR BASIN

South Coast AQMD

Area	CalYr	Season	Veh	CO2_IDLEX(Pavle (Tons/day)	CO2_STREX(Pavk (Tons/day)	CO2_TOTEX(Pavk (Tons/day)	PM10_RUNEX (Tons/day)	PM10_IDLEX (Tons/day)	PM10_STREX (Tons/day)	PM10_TOTEX (Tons/day)	PM10_PMTW (Tons/day)	PM10_PMBW (Tons/day)
Los Angele	2014	Annual	LDA	0	1629.238317	43928.07577	0.296607443	0	0.071776816	0.368384258	1.023153471	4.700112048
Los Angele	2014	Annual	LDA	0	0	123.1244887	0.019005907	0	0	0.019005907	0.00341761	0.015699648
Los Angele	2014	Annual	LDT1	0	200.2748117	5699.750767	0.085386159	0	0.015097522	0.100483681	0.112534743	0.516956549
Los Angele	2014	Annual	LDT1	0	0	6.024109613	0.001771738	0	0	0.001771738	1.56E-04	7.15E-04
Los Angele	2014	Annual	T6 instate heavy	8.508862234	0	749.2249339	0.082456651	6.45E-04	0	0.083101401	0.007873672	0.085521196
Los Angele	2014	Annual	LDA/LDT1	0	1829.513129	49756.97513	0.402771246	0	0.086874338	0.489645584	1.139261496	5.233483369

EMFAC 2011

2015 Estimated Annual Emissions

EMFAC 2011 Vehicle Categories

Los Angeles COUNTY

South Coast AIR BASIN

South Coast AQMD

Area	CalYr	Season	Veh	CO2_IDLEX(Pavle (Tons/day)	CO2_STREX(Pavk (Tons/day)	CO2_TOTEX(Pavk (Tons/day)	PM10_RUNEX (Tons/day)	PM10_IDLEX (Tons/day)	PM10_STREX (Tons/day)	PM10_TOTEX (Tons/day)	PM10_PMTW (Tons/day)	PM10_PMBW (Tons/day)
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**Table C.20 CARB EMFAC 2011 output**

**offsite transit**

unmitigated - used for worker vehicles during const

EMFAC 2011

2011 Estimated Annual Emissions

EMFAC 2011 Vehicle Categories

Los Angeles COUNTY

South Coast AIR BASIN

South Coast AQMD

Area	CalYr	Season	Veh	PM10_TOTAL (Tons/day)	PM2_5_RUNEX (Tons/day)	PM2_5_IDLEX (Tons/day)	PM2_5_STREX (Tons/day)	PM2_5_TOTEX (Tons/day)	PM2_5_PMTW (Tons/day)	PM2_5_PMBW (Tons/day)	PM2_5_TOTAL (Tons/day)	SOX_RUNEX (Tons/day)
Los Angele	2011	Annual	LDA	6.158932785	0.38634057	0	0.086545331	0.472885902	0.251937668	1.98400923	2.7088328	0.468838561
Los Angele	2011	Annual	LDA	0.047807163	0.028294075	0	0	0.028294075	7.62E-04	0.0060018	0.035058008	0.001243508
Los Angele	2011	Annual	LDT1	0.757616559	0.100102155	0	0.017372551	0.117474706	0.028072682	0.221072398	0.366619787	0.060693141
Los Angele	2011	Annual	LDT1	0.003161408	0.002172534	0	0	0.002172534	3.58E-05	2.82E-04	0.002489836	6.14E-05
Los Angele	2011	Annual	T6 instate heavy	0.268805581	0.170270905	0.00128003	0	0.171550935	0.001735363	0.032312453	0.20559875	0.006300432
Los Angele	2011	Annual	LDA/LDT1	6.967517914	0.516909335	0	0.103917882	0.620827217	0.280808236	2.211364978	3.113000431	0.530836643

EMFAC 2011

2013 Estimated Annual Emission Rates

EMFAC 2011 Vehicle Categories

Los Angeles COUNTY

South Coast AIR BASIN

South Coast AQMD

Area	CalYr	Season	Veh	PM10_TOTAL (Tons/day)	PM2_5_RUNEX (Tons/day)	PM2_5_IDLEX (Tons/day)	PM2_5_STREX (Tons/day)	PM2_5_TOTEX (Tons/day)	PM2_5_PMTW (Tons/day)	PM2_5_PMBW (Tons/day)	PM2_5_TOTAL (Tons/day)	SOX_RUNEX (Tons/day)
Los Angele	2013	Annual	LDA	6.105692763	0.297642253	0	0.0696386	0.367280852	0.254812347	2.006647386	2.628740586	0.474141887
Los Angele	2013	Annual	LDA	0.040916437	0.020471511	0	0	0.020471511	8.34E-04	0.006569174	0.027874865	0.001328743
Los Angele	2013	Annual	LDT1	0.737721559	0.084330556	0	0.014764935	0.099095491	0.028113055	0.221390324	0.348598869	0.06074615
Los Angele	2013	Annual	LDT1	0.002814445	0.001808455	0	0	0.001808455	3.79E-05	2.99E-04	0.002145104	6.34E-05
Los Angele	2013	Annual	T6 instate heavy	0.231854798	0.130038226	9.43E-04	0	0.130981574	0.001885981	0.03511697	0.167984525	0.006851466
Los Angele	2013	Annual	LDA/LDT1	6.887145205	0.404252775	0	0.084403534	0.488656309	0.283797515	2.2349056	3.007359424	0.536280194

EMFAC 2011

2014 Estimated Annual Emissions

EMFAC 2011 Vehicle Categories

Los Angeles COUNTY

South Coast AIR BASIN

South Coast AQMD

Area	CalYr	Season	Veh	PM10_TOTAL (Tons/day)	PM2_5_RUNEX (Tons/day)	PM2_5_IDLEX (Tons/day)	PM2_5_STREX (Tons/day)	PM2_5_TOTEX (Tons/day)	PM2_5_PMTW (Tons/day)	PM2_5_PMBW (Tons/day)	PM2_5_TOTAL (Tons/day)	SOX_RUNEX (Tons/day)
Los Angele	2014	Annual	LDA	6.091649777	0.270294055	0	0.065379758	0.335673813	0.255788376	2.014333423	2.605795612	0.475757025
Los Angele	2014	Annual	LDA	0.038123165	0.017485436	0	0	0.017485436	8.54E-04	0.00672842	0.025068258	0.001349975
Los Angele	2014	Annual	LDT1	0.729974973	0.078080662	0	0.013814201	0.091894863	0.028133686	0.221552792	0.341581341	0.060747121
Los Angele	2014	Annual	LDT1	0.002642534	0.001629999	0	0	0.001629999	3.89E-05	3.06E-04	0.001975398	6.43E-05
Los Angele	2014	Annual	T6 instate heavy	0.176496268	0.075860119	5.93E-04	0	0.076453289	0.001968418	0.036651941	0.115073648	0.007174393
Los Angele	2014	Annual	LDA/LDT1	6.862390449	0.367490152	0	0.079193959	0.446684111	0.284815382	2.242921116	2.974420609	0.537918413

EMFAC 2011

2015 Estimated Annual Emissions

EMFAC 2011 Vehicle Categories

Los Angeles COUNTY

South Coast AIR BASIN

South Coast AQMD

Area	CalYr	Season	Veh	PM10_TOTAL	PM2_5_RUNEX	PM2_5_IDLEX	PM2_5_STREX	PM2_5_TOTEX	PM2_5_PMTW	PM2_5_PMBW	PM2_5_TOTAL	SOX_RUNEX
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**Table C.20 CARB EMFAC 2011 output**

**offsite transit**

unmitigated - used for worker vehicles during construction

EMFAC 2011

2011 Estimated Annual Emissions

EMFAC 2011 Vehicle Categories

Los Angeles COUNTY

South Coast AIR BASIN

South Coast AQMD

Area	CalYr	Season	Veh	SOX_IDLEX (Tons/day)	SOX_STREX (Tons/day)	SOX_TOTEX (Tons/day)	FUEL_GAS (1000 Gallons)	FUEL_DSL (1000 Gallons)	exhaust ROG lb/mile	exhaust CO lb/mile	exhaust NOx lb/mile	exhaust PM10 lb/mile	tire wear a PM10 lb/mile	exhaust PM2.5 lb/mile	tire wear a PM2.5 lb/mile	exhaust SOx lb/mile
Los Angeles	2011	Annual	LDA	0	0.019207972	0.488046533	5205.724794	0	7.07E-04	6.26E-03	5.23E-04	9.13E-06	9.87E-05	8.28E-06	3.91E-05	8.54E-06
Los Angeles	2011	Annual	LDA	0	0	0.001243508	0	11.72306908	2.32E-04	1.04E-03	1.73E-03	1.78E-04	9.87E-05	1.64E-04	3.91E-05	7.19E-06
Los Angeles	2011	Annual	LDT1	0	0.002533672	0.063226813	674.4057909	0	1.64E-03	1.48E-02	1.27E-03	2.03E-05	9.87E-05	1.85E-05	3.91E-05	9.93E-06
Los Angeles	2011	Annual	LDT1	0	0	6.14E-05	0	0.579164452	3.41E-04	1.46E-03	2.26E-03	2.91E-04	9.87E-05	2.68E-04	3.91E-05	7.58E-06
Los Angeles	2011	Annual	T6 instate heavy	6.77E-05	0	0.006368134	0	60.07378959	9.50E-04	3.52E-03	1.95E-02	7.11E-04	3.14E-04	6.54E-04	1.30E-04	2.43E-05
Los Angeles	2011	Annual	LDA/LDT1	0	0.021741644	0.552578287	5880.130585	12.30223354	7.99E-04	7.11E-03	6.02E-04	1.07E-05	9.87E-05	9.75E-06	3.91E-05	8.68E-06

EMFAC 2011

2013 Estimated Annual Emission Rates

EMFAC 2011 Vehicle Categories

Los Angeles COUNTY

South Coast AIR BASIN

South Coast AQMD

Area	CalYr	Season	Veh	SOX_IDLEX (Tons/day)	SOX_STREX (Tons/day)	SOX_TOTEX (Tons/day)	FUEL_GAS (1000 Gallons)	FUEL_DSL (1000 Gallons)	exhaust ROG lb/mile	exhaust CO lb/mile	exhaust NOx lb/mile	exhaust PM10 lb/mile	tire wear a PM10 lb/mile	exhaust PM2.5 lb/mile	tire wear a PM2.5 lb/mile	exhaust SOx lb/mile
Los Angeles	2013	Annual	LDA	0	0.019048483	0.49319037	5260.591709	0	5.46E-04	4.90E-03	4.05E-04	7.00E-06	9.87E-05	6.36E-06	3.91E-05	8.53E-06
Los Angeles	2013	Annual	LDA	0	0	0.001328743	0	12.52661932	1.55E-04	7.37E-04	1.31E-03	1.18E-04	9.87E-05	1.08E-04	3.91E-05	7.02E-06
Los Angeles	2013	Annual	LDT1	0	0.002472741	0.063218891	674.32128	0	1.41E-03	1.23E-02	1.07E-03	1.70E-05	9.87E-05	1.55E-05	3.91E-05	9.92E-06
Los Angeles	2013	Annual	LDT1	0	0	6.34E-05	0	0.597828042	2.71E-04	1.18E-03	1.85E-03	2.28E-04	9.87E-05	2.10E-04	3.91E-05	7.37E-06
Los Angeles	2013	Annual	T6 instate heavy	7.73E-05	0	0.006928742	0	65.36228571	6.92E-04	2.62E-03	1.71E-02	4.99E-04	3.14E-04	4.59E-04	1.30E-04	2.43E-05
Los Angeles	2013	Annual	LDA/LDT1	0	0.021521224	0.557801418	5934.912989	13.12444736	6.30E-04	5.63E-03	4.73E-04	8.35E-06	9.87E-05	7.59E-06	3.91E-05	8.67E-06

EMFAC 2011

2014 Estimated Annual Emissions

EMFAC 2011 Vehicle Categories

Los Angeles COUNTY

South Coast AIR BASIN

South Coast AQMD

Area	CalYr	Season	Veh	SOX_IDLEX (Tons/day)	SOX_STREX (Tons/day)	SOX_TOTEX (Tons/day)	FUEL_GAS (1000 Gallons)	FUEL_DSL (1000 Gallons)	exhaust ROG lb/mile	exhaust CO lb/mile	exhaust NOx lb/mile	exhaust PM10 lb/mile	tire wear a PM10 lb/mile	exhaust PM2.5 lb/mile	tire wear a PM2.5 lb/mile	exhaust SOx lb/mile
Los Angeles	2014	Annual	LDA	0	0.018984309	0.494741334	5277.135048	0	4.78E-04	4.34E-03	3.57E-04	6.35E-06	9.87E-05	5.79E-06	3.91E-05	8.53E-06
Los Angeles	2014	Annual	LDA	0	0	0.001349975	0	12.72677887	1.30E-04	6.36E-04	1.17E-03	9.81E-05	9.87E-05	9.02E-05	3.91E-05	6.97E-06
Los Angeles	2014	Annual	LDT1	0	0.002446261	0.063193382	674.0492145	0	1.30E-03	1.12E-02	9.78E-04	1.57E-05	9.87E-05	1.44E-05	3.91E-05	9.90E-06
Los Angeles	2014	Annual	LDT1	0	0	6.43E-05	0	0.606108461	2.39E-04	1.05E-03	1.68E-03	2.01E-04	9.87E-05	1.85E-04	3.91E-05	7.28E-06
Los Angeles	2014	Annual	T6 instate heavy	8.24E-05	0	0.007256808	0	68.45710056	4.27E-04	1.62E-03	1.59E-02	2.79E-04	3.14E-04	2.57E-04	1.30E-04	2.44E-05
Los Angeles	2014	Annual	LDA/LDT1	0	0.02143057	0.559348983	5951.184263	13.33288733	5.59E-04	5.01E-03	4.21E-04	7.58E-06	9.87E-05	6.92E-06	3.91E-05	8.66E-06

EMFAC 2011

2015 Estimated Annual Emissions

EMFAC 2011 Vehicle Categories

Los Angeles COUNTY

South Coast AIR BASIN

South Coast AQMD

Area	CalYr	Season	Veh	SOX_IDLEX (Tons/day)	SOX_STREX (Tons/day)	SOX_TOTEX (Tons/day)	FUEL_GAS (1000 Gallons)	FUEL_DSL (1000 Gallons)	exhaust ROG lb/mile	exhaust CO lb/mile	exhaust NOx lb/mile	exhaust PM10 lb/mile	tire wear a PM10 lb/mile	exhaust PM2.5 lb/mile	tire wear a PM2.5 lb/mile	exhaust SOx lb/mile
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**Table C.20 CARB EMFAC 2011 output**

**offsite transit**

unmitigated - used for worker vehicles during construction

EMFAC 2011

2011 Estimated Annual Emissions

EMFAC 2011 Vehicle Categories

Los Angeles COUNTY

South Coast AIR BASIN

South Coast AQMD

Area	CalYr	Season	Veh	exhaust CO2 ton/mile
Los Angeles	2011	Annual	LDA	4.13E-04
Los Angeles	2011	Annual	LDA	3.64E-04
Los Angeles	2011	Annual	LDT1	4.76E-04
Los Angeles	2011	Annual	LDT1	3.87E-04
Los Angeles	2011	Annual	T6 instate heavy	1.27E-03
Los Angeles	2011	Annual	LDA/LDT1	4.19E-04

EMFAC 2011

2013 Estimated Annual Emission Rates

EMFAC 2011 Vehicle Categories

Los Angeles COUNTY

South Coast AIR BASIN

South Coast AQMD

Area	CalYr	Season	Veh	exhaust CO2 ton/mile
Los Angeles	2013	Annual	LDA	3.90E-04
Los Angeles	2013	Annual	LDA	3.30E-04
Los Angeles	2013	Annual	LDT1	4.57E-04
Los Angeles	2013	Annual	LDT1	3.56E-04
Los Angeles	2013	Annual	T6 instate heavy	1.26E-03
Los Angeles	2013	Annual	LDA/LDT1	3.97E-04

EMFAC 2011

2014 Estimated Annual Emissions

EMFAC 2011 Vehicle Categories

Los Angeles COUNTY

South Coast AIR BASIN

South Coast AQMD

Area	CalYr	Season	Veh	exhaust CO2 ton/mile
Los Angeles	2014	Annual	LDA	3.79E-04
Los Angeles	2014	Annual	LDA	3.18E-04
Los Angeles	2014	Annual	LDT1	4.47E-04
Los Angeles	2014	Annual	LDT1	3.41E-04
Los Angeles	2014	Annual	T6 instate heavy	1.26E-03
Los Angeles	2014	Annual	LDA/LDT1	3.85E-04

EMFAC 2011

2015 Estimated Annual Emissions

EMFAC 2011 Vehicle Categories

Los Angeles COUNTY

South Coast AIR BASIN

South Coast AQMD

Area	CalYr	Season	Veh	exhaust CO2
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					(Miles/hr)	(Vehicles)	(Miles/day)	(Trips/day)	(Tons/day)	(Tons/day)	(Tons/day)	(Tons/day)
Los Angele	2015 Annual	LDA	GAS	AllMYr	AllSpeeds	3501386.042	1.17E+08	2.21E+07	5.084998045	0	4.697267714	9.782265759
Los Angele	2015 Annual	LDA	DSL	AllMYr	AllSpeeds	12551.63943	395369.6822	73788.41643	0.021641756	0	0	0.021641756
Los Angele	2015 Annual	LDT1	GAS	AllMYr	AllSpeeds	383076.3878	1.28E+07	2324273.827	1.619890005	0	1.178607585	2.79849759
Los Angele	2015 Annual	LDT1	DSL	AllMYr	AllSpeeds	569.36148	18089.76555	3031.38505	0.001909419	0	0	0.001909419
Los Angele	2015 Annual	T6 instate heavy	DSL	AllMYr	AllSpeeds	11394.37984	615283.3223	0	0.083122129	0.00176213	0	0.084884259
Los Angele	2015 Annual	LDA/LDT1	GAS&DSL	AllMYr	AllSpeeds	3897583.431	129836242.5	24477529.14	6.728439225	0	5.875875299	12.60431452

EMFAC 2011  
2016 Estimated Annual Emissions  
EMFAC 2011 Vehicle Categories  
Los Angeles COUNTY  
South Coast AIR BASIN  
South Coast AQMD

Area	CalYr	Season	Veh	Fuel	MdYr	Speed (Miles/hr)	Pop (Vehicles)	VMT (Miles/day)	Trips (Trips/day)	ROG_RUNEX (Tons/day)	ROG_IDLEX (Tons/day)	ROG_STREX (Tons/day)	ROG_TOTEX (Tons/day)
Los Angele	2016 Annual	LDA	GAS	AllMYr	AllSpeeds		3518438.309	1.17E+08	2.22E+07	4.320397237	0	4.064790799	8.385188036
Los Angele	2016 Annual	LDA	DSL	AllMYr	AllSpeeds		12612.7667	399872.7886	74943.12473	0.018521504	0	0	0.018521504
Los Angele	2016 Annual	LDT1	GAS	AllMYr	AllSpeeds		384382.6841	1.28E+07	2328572.021	1.395586674	0	1.074219345	2.46980602
Los Angele	2016 Annual	LDT1	DSL	AllMYr	AllSpeeds		571.302991	18725.63629	3106.25578	0.001658042	0	0	0.001658042
Los Angele	2016 Annual	T6 instate heavy	DSL	AllMYr	AllSpeeds		11472.97056	624127.5372	0	0.070481164	0.001670166	0	0.072151331
Los Angele	2016 Annual	LDA/LDT1	GAS&DSL	AllMYr	AllSpeeds		3916005.063	130360444.8	24593143.22	5.736163457	0	5.139010144	10.8751736

EMFAC 2011  
2017 Estimated Annual Emissions  
EMFAC 2011 Vehicle Categories  
Los Angeles COUNTY  
South Coast AIR BASIN  
South Coast AQMD

Area	CalYr	Season	Veh	Fuel	MdYr	Speed (Miles/hr)	Pop (Vehicles)	VMT (Miles/day)	Trips (Trips/day)	ROG_RUNEX (Tons/day)	ROG_IDLEX (Tons/day)	ROG_STREX (Tons/day)	ROG_TOTEX (Tons/day)
Los Angele	2017 Annual	LDA	GAS	AllMYr	AllSpeeds		3535572.866	1.18E+08	2.23E+07	3.57713703	0	3.522167205	7.099304235
Los Angele	2017 Annual	LDA	DSL	AllMYr	AllSpeeds		12674.19132	403728.496	76065.87044	0.015926345	0	0	0.015926345
Los Angele	2017 Annual	LDT1	GAS	AllMYr	AllSpeeds		385693.4081	1.29E+07	2333186.486	1.18907712	0	0.978307687	2.167384808
Los Angele	2017 Annual	LDT1	DSL	AllMYr	AllSpeeds		573.251066	18878.33086	3154.36268	0.001517128	0	0	0.001517128
Los Angele	2017 Annual	T6 instate heavy	DSL	AllMYr	AllSpeeds		11470.91099	629930.1334	0	0.065061438	0.00165245	0	0.066713887
Los Angele	2017 Annual	LDA/LDT1	GAS&DSL	AllMYr	AllSpeeds		3934513.716	130934804.1	24711322.87	4.783657624	0	4.500474892	9.284132516

EMFAC 2011  
2018 Estimated Annual Emissions  
EMFAC 2011 Vehicle Categories  
Los Angeles COUNTY  
South Coast AIR BASIN  
South Coast AQMD

Area	CalYr	Season	Veh	Fuel	MdYr	Speed (Miles/hr)	Pop (Vehicles)	VMT (Miles/day)	Trips (Trips/day)	ROG_RUNEX (Tons/day)	ROG_IDLEX (Tons/day)	ROG_STREX (Tons/day)	ROG_TOTEX (Tons/day)
Los Angele	2018 Annual	LDA	GAS	AllMYr	AllSpeeds		3551306.043	1.18E+08	2.24E+07	2.929479723	0	3.072971164	6.002450887
Los Angele	2018 Annual	LDA	DSL	AllMYr	AllSpeeds		12730.5916	405388.018	77019.66342	0.013708929	0	0	0.013708929
Los Angele	2018 Annual	LDT1	GAS	AllMYr	AllSpeeds		386804.2273	1.29E+07	2336859.545	1.008653233	0	0.891557019	1.900210252
Los Angele	2018 Annual	LDT1	DSL	AllMYr	AllSpeeds		574.902039	19077.15583	3205.85017	0.001357224	0	0	0.001357224
Los Angele	2018 Annual	T6 instate heavy	DSL	AllMYr	AllSpeeds		11369.74923	628364.8151	0	0.065191505	0.001686641	0	0.066878146
Los Angele	2018 Annual	LDA/LDT1	GAS&DSL	AllMYr	AllSpeeds		3951415.764	131437502.8	24817818.49	3.95319911	0	3.964528183	7.917727293

EMFAC 2011  
2019 Estimated Annual Emissions  
EMFAC 2011 Vehicle Categories

			(Tons/day)	(Tons/day)	(Tons/day)	(Tons/day)	(Tons/day)	(Tons/day)	(Tons/day)	(Tons/day)	(Tons/day)	(Tons/day)
Los Angele	2015 Annual	LDA	1.618499922	3.668957322	8.231872189	1.360725092	24.66232028	7.104145843	0	5.020719943	12.12486579	
Los Angele	2015 Annual	LDA	0	0	0	0	0.021641756	0.0246377	0	0	0.0246377	
Los Angele	2015 Annual	LDT1	0.49209876	0.893082637	3.198756661	0.368436208	7.750871855	2.109396978	0	1.25922748	3.368624458	
Los Angele	2015 Annual	LDT1	0	0	0	0	0.001909419	0.002173747	0	0	0.002173747	
Los Angele	2015 Annual	T6 instate heavy	0	0	0	0	0.084884259	0.094628217	0.00200605	0	0.096634267	
Los Angele	2015 Annual	LDA/LDT1	2.110598681	4.562039959	11.43062885	1.7291613	32.43674331	9.240354267	0	6.279947423	15.52030169	

EMFAC 2011  
2016 Estimated Annual Emissions  
EMFAC 2011 Vehicle Categories  
Los Angeles COUNTY  
South Coast AIR BASIN  
South Coast AQMD

Area	CalYr	Season	Veh	ROG_DIURN (Tons/day)	ROG_HTSK (Tons/day)	ROG_RUNLS (Tons/day)	ROG_RESTL (Tons/day)	ROG_TOTAL (Tons/day)	TOG_RUNEX (Tons/day)	TOG_IDLEX (Tons/day)	TOG_STREX (Tons/day)	TOG_TOTEX (Tons/day)
Los Angele	2016 Annual	LDA		1.465577292	3.396327158	7.548771497	1.270685005	22.06654899	6.181625076	0	4.343980697	10.52560577
Los Angele	2016 Annual	LDA		0	0	0	0	0.018521504	0.0210855	0	0	0.0210855
Los Angele	2016 Annual	LDT1		0.474808862	0.866938109	3.06830724	0.362427688	7.242287919	1.850216184	0	1.147488818	2.997705002
Los Angele	2016 Annual	LDT1		0	0	0	0	0.001658042	0.001887571	0	0	0.001887571
Los Angele	2016 Annual	T6 instate heavy		0	0	0	0	0.072151331	0.08023744	0.001901357	0	0.082138798
Los Angele	2016 Annual	LDA/LDT1		1.940386153	4.263265267	10.61707874	1.633112693	29.32901645	8.054814331	0	5.491469515	13.54628385

EMFAC 2011  
2017 Estimated Annual Emissions  
EMFAC 2011 Vehicle Categories  
Los Angeles COUNTY  
South Coast AIR BASIN  
South Coast AQMD

Area	CalYr	Season	Veh	ROG_DIURN (Tons/day)	ROG_HTSK (Tons/day)	ROG_RUNLS (Tons/day)	ROG_RESTL (Tons/day)	ROG_TOTAL (Tons/day)	TOG_RUNEX (Tons/day)	TOG_IDLEX (Tons/day)	TOG_STREX (Tons/day)	TOG_TOTEX (Tons/day)
Los Angele	2017 Annual	LDA		1.328410786	3.126234833	6.881677419	1.18267391	19.61830118	5.300506805	0	3.763101806	9.063608611
Los Angele	2017 Annual	LDA		0	0	0	0	0.015926345	0.018131084	0	0	0.018131084
Los Angele	2017 Annual	LDT1		0.457641685	0.839772377	2.940224681	0.355593403	6.760616955	1.611592825	0	1.044829951	2.656422776
Los Angele	2017 Annual	LDT1		0	0	0	0	0.001517128	0.00172715	0	0	0.00172715
Los Angele	2017 Annual	T6 instate heavy		0	0	0	0	0.066713887	0.074067494	0.001881188	0	0.075948682
Los Angele	2017 Annual	LDA/LDT1		1.786052472	3.96600721	9.8219021	1.538267313	26.39636161	6.931957863	0	4.807931757	11.73988962

EMFAC 2011  
2018 Estimated Annual Emissions  
EMFAC 2011 Vehicle Categories  
Los Angeles COUNTY  
South Coast AIR BASIN  
South Coast AQMD

Area	CalYr	Season	Veh	ROG_DIURN (Tons/day)	ROG_HTSK (Tons/day)	ROG_RUNLS (Tons/day)	ROG_RESTL (Tons/day)	ROG_TOTAL (Tons/day)	TOG_RUNEX (Tons/day)	TOG_IDLEX (Tons/day)	TOG_STREX (Tons/day)	TOG_TOTEX (Tons/day)
Los Angele	2018 Annual	LDA		1.21117634	2.875138134	6.28623499	1.102696024	17.47769637	4.537307412	0	3.282129943	7.819437355
Los Angele	2018 Annual	LDA		0	0	0	0	0.013708929	0.015606704	0	0	0.015606704
Los Angele	2018 Annual	LDT1		0.440964726	0.81274018	2.818411707	0.348452987	6.320779852	1.402128299	0	0.951995715	2.354124014
Los Angele	2018 Annual	LDT1		0	0	0	0	0.001357224	0.001545109	0	0	0.001545109
Los Angele	2018 Annual	T6 instate heavy		0	0	0	0	0.066878146	0.074215566	0.001920112	0	0.076135678
Los Angele	2018 Annual	LDA/LDT1		1.652141065	3.687878314	9.104646697	1.451149011	23.81354238	5.956587525	0	4.234125658	10.19071318

EMFAC 2011  
2019 Estimated Annual Emissions  
EMFAC 2011 Vehicle Categories

			(Tons/day)	(Tons/day)	(Tons/day)	(Tons/day)	(Tons/day)	(Tons/day)	(Tons/day)	(Tons/day)	(Tons/day)	(Tons/day)
Los Angele	2015 Annual	LDA	1.618499922	3.668957322	8.231872189	1.360725092	27.00492031	167.1741036	0	58.0931507	225.2672543	
Los Angele	2015 Annual	LDA	0	0	0	0	0.0246377	0.10943447	0	0	0.10943447	
Los Angele	2015 Annual	LDT1	0.49209876	0.893082637	3.198756661	0.368436208	8.320998724	50.52120283	0	15.09138039	65.61258323	
Los Angele	2015 Annual	LDT1	0	0	0	0	0.002173747	0.008514806	0	0	0.008514806	
Los Angele	2015 Annual	T6 instate heavy	0	0	0	0	0.096634267	0.32494477	0.01917552	0	0.344120289	
Los Angele	2015 Annual	LDA/LDT1	2.110598681	4.562039959	11.43062885	1.7291613	35.35273048	217.8132557	0	73.18453109	290.9977868	

EMFAC 2011  
2016 Estimated Annual Emissions  
EMFAC 2011 Vehicle Categories  
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Area	CalYr	Season	Veh	TOG_DIURN (Tons/day)	TOG_HTSK (Tons/day)	TOG_RUNLS (Tons/day)	TOG_RESTL (Tons/day)	TOG_TOTAL (Tons/day)	CO_RUNEX (Tons/day)	CO_IDLEX (Tons/day)	CO_STREX (Tons/day)	CO_TOTEX (Tons/day)
Los Angele	2016 Annual	LDA		1.465577292	3.396327158	7.548771497	1.270685005	24.20696672	150.8716957	0	51.9379761	202.8096718
Los Angele	2016 Annual	LDA		0	0	0	0	0.0210855	0.097303111	0	0	0.097303111
Los Angele	2016 Annual	LDT1		0.474808862	0.866938109	3.06830724	0.362427688	7.770186901	46.17107903	0	13.93507273	60.10615176
Los Angele	2016 Annual	LDT1		0	0	0	0	0.001887571	0.007572611	0	0	0.007572611
Los Angele	2016 Annual	T6 instate heavy		0	0	0	0	0.082138798	0.282686102	0.019153516	0	0.301839618
Los Angele	2016 Annual	LDA/LDT1		1.940386153	4.263265267	10.61707874	1.633112693	32.0001267	197.1476504	0	65.87304883	263.0206992

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Area	CalYr	Season	Veh	TOG_DIURN (Tons/day)	TOG_HTSK (Tons/day)	TOG_RUNLS (Tons/day)	TOG_RESTL (Tons/day)	TOG_TOTAL (Tons/day)	CO_RUNEX (Tons/day)	CO_IDLEX (Tons/day)	CO_STREX (Tons/day)	CO_TOTEX (Tons/day)
Los Angele	2017 Annual	LDA		1.328410786	3.126234833	6.881677419	1.18267391	21.58260556	135.8442389	0	46.5757653	182.4200042
Los Angele	2017 Annual	LDA		0	0	0	0	0.018131084	0.086473748	0	0	0.086473748
Los Angele	2017 Annual	LDT1		0.457641685	0.839772377	2.940224681	0.355593403	7.249654923	42.15497652	0	12.86551736	55.02049389
Los Angele	2017 Annual	LDT1		0	0	0	0	0.00172715	0.00695834	0	0	0.00695834
Los Angele	2017 Annual	T6 instate heavy		0	0	0	0	0.075948682	0.264377175	0.019213297	0	0.283590471
Los Angele	2017 Annual	LDA/LDT1		1.786052472	3.96600721	9.8219021	1.538267313	28.85211872	178.0926476	0	59.44128266	237.5339302

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Area	CalYr	Season	Veh	TOG_DIURN (Tons/day)	TOG_HTSK (Tons/day)	TOG_RUNLS (Tons/day)	TOG_RESTL (Tons/day)	TOG_TOTAL (Tons/day)	CO_RUNEX (Tons/day)	CO_IDLEX (Tons/day)	CO_STREX (Tons/day)	CO_TOTEX (Tons/day)
Los Angele	2018 Annual	LDA		1.21117634	2.875138134	6.28623499	1.102696024	19.29468284	122.8776277	0	42.0201335	164.8977612
Los Angele	2018 Annual	LDA		0	0	0	0	0.015606704	0.077245797	0	0	0.077245797
Los Angele	2018 Annual	LDT1		0.440964726	0.81274018	2.818411707	0.348452987	6.774693614	38.51675896	0	11.87968685	50.39644581
Los Angele	2018 Annual	LDT1		0	0	0	0	0.001545109	0.006321989	0	0	0.006321989
Los Angele	2018 Annual	T6 instate heavy		0	0	0	0	0.076135678	0.266028905	0.019676782	0	0.285705687
Los Angele	2018 Annual	LDA/LDT1		1.652141065	3.687878314	9.104646697	1.451149011	26.08652827	161.4779545	0	53.89982035	215.3777748

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			(Tons/day)	(Tons/day)	(Tons/day)	(Tons/day)	(Tons/day)	(Tons/day)	(Tons/day)	(Tons/day)	(Tons/day)	(Tons/day)
Los Angele	2015 Annual	LDA	14.62965892	0	3.890057355	18.51971628	47713.20191	0	1793.589174	49506.79109	41042.46155	
Los Angele	2015 Annual	LDA	0.208107239	0	0	0.208107239	143.2134611	0	0	143.2134611	120.2242781	
Los Angele	2015 Annual	LDT1	4.887623395	0	0.852331857	5.739955252	6032.32545	0	215.7162352	6248.041686	5369.607732	
Los Angele	2015 Annual	LDT1	0.013779255	0	0	0.013779255	6.82681625	0	0	6.82681625	5.88327811	
Los Angele	2015 Annual	T6 instate heavy	4.051714907	0.111757703	0	4.163472611	775.3911563	9.124532758	0	784.5156891	756.0063774	
Los Angele	2015 Annual	LDA/LDT1	19.73916881	0	4.742389212	24.48155802	53895.56764	0	2009.305409	55904.87305	46538.17683	

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Area	CalYr	Season	Veh	NOX_RUNEX (Tons/day)	NOX_IDLEX (Tons/day)	NOX_STREX (Tons/day)	NOX_TOTEX (Tons/day)	CO2_RUNEX (Tons/day)	CO2_IDLEX (Tons/day)	CO2_STREX (Tons/day)	CO2_TOTEX (Tons/day)	CO2_RUNEX(Pavt) (Tons/day)
Los Angele	2016 Annual	LDA		13.2457198	0	3.421419098	16.6671389	47931.9998	0	1804.335083	49736.33488	39634.51782
Los Angele	2016 Annual	LDA		0.19197564	0	0	0.19197564	144.0141045	0	0	144.0141045	116.7684737
Los Angele	2016 Annual	LDT1		4.502910749	0	0.789227277	5.292138026	6056.298972	0	216.2538444	6272.552816	5223.329622
Los Angele	2016 Annual	LDT1		0.012546604	0	0	0.012546604	6.976099844	0	0	6.976099844	5.74072968
Los Angele	2016 Annual	T6 instate heavy		3.555687827	0.104954897	0	3.660642723	785.4993713	9.273118115	0	794.7724894	758.0068933
Los Angele	2016 Annual	LDA/LDT1		17.95315279	0	4.210646375	22.16379917	54139.28898	0	2020.588927	56159.8779	44980.35665

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Area	CalYr	Season	Veh	NOX_RUNEX (Tons/day)	NOX_IDLEX (Tons/day)	NOX_STREX (Tons/day)	NOX_TOTEX (Tons/day)	CO2_RUNEX (Tons/day)	CO2_IDLEX (Tons/day)	CO2_STREX (Tons/day)	CO2_TOTEX (Tons/day)	CO2_RUNEX(Pavt) (Tons/day)
Los Angele	2017 Annual	LDA		12.0197187	0	3.013730497	15.0334492	48166.07148	0	1814.563483	49980.63496	38140.63369
Los Angele	2017 Annual	LDA		0.178068256	0	0	0.178068256	144.7028769	0	0	144.7028769	112.8876714
Los Angele	2017 Annual	LDT1		4.14561148	0	0.730018026	4.875629506	6080.645035	0	216.8318803	6297.476915	5059.114818
Los Angele	2017 Annual	LDT1		0.01183547	0	0	0.01183547	6.985523841	0	0	6.985523841	5.542572569
Los Angele	2017 Annual	T6 instate heavy		3.228914615	0.101966505	0	3.33088112	791.8390348	9.312741319	0	801.1517761	752.247083
Los Angele	2017 Annual	LDA/LDT1		16.35523391	0	3.743748523	20.09898243	54398.40491	0	2031.395363	56429.80028	43318.17875

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Area	CalYr	Season	Veh	NOX_RUNEX (Tons/day)	NOX_IDLEX (Tons/day)	NOX_STREX (Tons/day)	NOX_TOTEX (Tons/day)	CO2_RUNEX (Tons/day)	CO2_IDLEX (Tons/day)	CO2_STREX (Tons/day)	CO2_TOTEX (Tons/day)	CO2_RUNEX(Pavt) (Tons/day)
Los Angele	2018 Annual	LDA		10.98893335	0	2.668268923	13.65720228	48372.8541	0	1823.70025	50196.55435	36729.61795
Los Angele	2018 Annual	LDA		0.166584842	0	0	0.166584842	144.7676788	0	0	144.7676788	108.9314012
Los Angele	2018 Annual	LDT1		3.816957399	0	0.674948659	4.491906057	6099.222982	0	217.3447539	6316.567736	4899.518597
Los Angele	2018 Annual	LDT1		0.011137763	0	0	0.011137763	7.014613068	0	0	7.014613068	5.36113104
Los Angele	2018 Annual	T6 instate heavy		2.925801375	0.098895079	0	3.024696454	788.7392369	9.262133128	0	798.00137	737.4711865
Los Angele	2018 Annual	LDA/LDT1		14.98361336	0	3.343217582	18.32683094	54623.85937	0	2041.045004	56664.90438	41743.42908

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			(Tons/day)	(Tons/day)	(Tons/day)	(Tons/day)	(Tons/day)	(Tons/day)	(Tons/day)	(Tons/day)	(Tons/day)	(Tons/day)
Los Angele	2015 Annual	LDA	0	1585.193427	42627.65497	0.278509204	0	0.069851894	0.348361097	1.028364044	4.724047981	
Los Angele	2015 Annual	LDA	0	0	120.2242781	0.016212132	0	0	0.016212132	0.003486564	0.016016405	
Los Angele	2015 Annual	LDT1	0	195.1148168	5564.722549	0.079816042	0	0.014273945	0.094089987	0.112949564	0.51886214	
Los Angele	2015 Annual	LDT1	0	0	5.88327811	0.00159814	0	0	0.00159814	1.60E-04	7.33E-04	
Los Angele	2015 Annual	T6 instate heavy	8.896419439	0	764.9027968	0.048267899	2.85E-04	0	0.048552835	0.008138805	0.088400989	
Los Angele	2015 Annual	LDA/LDT1	0	1780.308244	48318.48508	0.376135518	0	0.084125838	0.460261356	1.144959696	5.259659342	

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Area	CalYr	Season	Veh	CO2_IDLEX(Pavle (Tons/day)	CO2_STREX(Pavk (Tons/day)	CO2_TOTEX(Pavk (Tons/day)	PM10_RUNEX (Tons/day)	PM10_IDLEX (Tons/day)	PM10_STREX (Tons/day)	PM10_TOTEX (Tons/day)	PM10_PMTW (Tons/day)	PM10_PMBW (Tons/day)
Los Angele	2016 Annual	LDA		0	1538.267273	41172.7851	0.268146886	0	0.07027061	0.338417495	1.032591714	4.743468909
Los Angele	2016 Annual	LDA		0	0	116.7684737	0.013742982	0	0	0.013742982	0.003526274	0.016198825
Los Angele	2016 Annual	LDT1		0	189.8760007	5413.205622	0.074917633	0	0.013658702	0.088576334	0.113299231	0.520468415
Los Angele	2016 Annual	LDT1		0	0	5.74072968	0.00138152	0	0	0.00138152	1.65E-04	7.59E-04
Los Angele	2016 Annual	T6 instate heavy		8.948558981	0	766.9554523	0.038431652	1.83E-04	0	0.038614479	0.008255794	0.089671684
Los Angele	2016 Annual	LDA/LDT1		0	1728.143274	46708.49992	0.35818902	0	0.083929311	0.442118332	1.149582352	5.280894724

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Area	CalYr	Season	Veh	CO2_IDLEX(Pavle (Tons/day)	CO2_STREX(Pavk (Tons/day)	CO2_TOTEX(Pavk (Tons/day)	PM10_RUNEX (Tons/day)	PM10_IDLEX (Tons/day)	PM10_STREX (Tons/day)	PM10_TOTEX (Tons/day)	PM10_PMTW (Tons/day)	PM10_PMBW (Tons/day)
Los Angele	2017 Annual	LDA		0	1484.282303	39624.91599	0.263131731	0	0.072211755	0.335343487	1.037259885	4.764913327
Los Angele	2017 Annual	LDA		0	0	112.8876714	0.011656567	0	0	0.011656567	0.003560276	0.016355021
Los Angele	2017 Annual	LDT1		0	183.8422004	5242.957018	0.070600751	0	0.013181929	0.08378268	0.113660763	0.522129216
Los Angele	2017 Annual	LDT1		0	0	5.542572569	0.001248128	0	0	0.001248128	1.66E-04	7.65E-04
Los Angele	2017 Annual	T6 instate heavy		8.847104253	0	761.0941873	0.033098479	1.48E-04	0	0.033246577	0.008332549	0.090505373
Los Angele	2017 Annual	LDA/LDT1		0	1668.124503	44986.30325	0.346637178	0	0.085393684	0.432030862	1.154647402	5.304162324

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Area	CalYr	Season	Veh	CO2_IDLEX(Pavle (Tons/day)	CO2_STREX(Pavk (Tons/day)	CO2_TOTEX(Pavk (Tons/day)	PM10_RUNEX (Tons/day)	PM10_IDLEX (Tons/day)	PM10_STREX (Tons/day)	PM10_TOTEX (Tons/day)	PM10_PMTW (Tons/day)	PM10_PMBW (Tons/day)
Los Angele	2018 Annual	LDA		0	1431.400486	38161.01844	0.262186109	0	0.075341607	0.337527716	1.041411288	4.783983564
Los Angele	2018 Annual	LDA		0	0	108.9314012	0.009967338	0	0	0.009967338	0.00357491	0.016422247
Los Angele	2018 Annual	LDT1		0	177.9714616	5077.490059	0.066741575	0	0.012812211	0.079553786	0.113926041	0.523347849
Los Angele	2018 Annual	LDT1		0	0	5.36113104	0.001118524	0	0	0.001118524	1.68E-04	7.73E-04
Los Angele	2018 Annual	T6 instate heavy		8.660094474	0	746.131281	0.032904185	1.43E-04	0	0.033046779	0.008311844	0.090280476
Los Angele	2018 Annual	LDA/LDT1		0	1609.371948	43352.80103	0.340013547	0	0.088153818	0.428167364	1.159080472	5.324526475

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			(Tons/day)	(Tons/day)	(Tons/day)	(Tons/day)	(Tons/day)	(Tons/day)	(Tons/day)	(Tons/day)	(Tons/day)	(Tons/day)
Los Angele	2015 Annual	LDA	6.100773122	0.254621594	0	0.063873944	0.318495538	0.257091008	2.024591914	2.60017846	0.479091721	
Los Angele	2015 Annual	LDA	0.035715101	0.014915163	0	0	0.014915163	8.72E-04	0.006864173	0.022650977	0.001367205	
Los Angele	2015 Annual	LDT1	0.725901691	0.073225385	0	0.013103971	0.086329357	0.028237391	0.222369474	0.336936222	0.061067625	
Los Angele	2015 Annual	LDT1	0.00249048	0.001470289	0	0	0.001470289	3.99E-05	3.14E-04	0.001824234	6.52E-05	
Los Angele	2015 Annual	T6 instate heavy	0.145092629	0.044406467	2.62E-04	0	0.044668608	0.002034701	0.037886138	0.084589448	0.007397594	
Los Angele	2015 Annual	LDA/LDT1	6.864880395	0.344232432	0	0.076977915	0.421210347	0.286239921	2.254139625	2.961589892	0.541591723	

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Area	CalYr	Season	Veh	PM10_TOTAL (Tons/day)	PM2_5_RUNEX (Tons/day)	PM2_5_IDLEX (Tons/day)	PM2_5_STREX (Tons/day)	PM2_5_TOTEX (Tons/day)	PM2_5_PMTW (Tons/day)	PM2_5_PMBW (Tons/day)	PM2_5_TOTAL (Tons/day)	SOX_RUNEX (Tons/day)
Los Angele	2016 Annual	LDA		6.114478119	0.245944444	0	0.06449457	0.310439013	0.258147935	2.032915189	2.601502136	0.480992742
Los Angele	2016 Annual	LDA		0.033468082	0.012643544	0	0	0.012643544	8.82E-04	0.006942354	0.020467466	0.001374848
Los Angele	2016 Annual	LDT1		0.722343981	0.068944029	0	0.012577872	0.081521901	0.028324808	0.223057882	0.33290459	0.061231007
Los Angele	2016 Annual	LDT1		0.002305226	0.001270999	0	0	0.001270999	4.13E-05	3.25E-04	0.001637385	6.66E-05
Los Angele	2016 Annual	T6 instate heavy		0.136541957	0.03535712	1.68E-04	0	0.035525321	0.002063949	0.038430722	0.076019991	0.007494031
Los Angele	2016 Annual	LDA/LDT1		6.872595407	0.328803015	0	0.077072441	0.405875456	0.287395594	2.263240527	2.956511578	0.543665195

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Area	CalYr	Season	Veh	PM10_TOTAL (Tons/day)	PM2_5_RUNEX (Tons/day)	PM2_5_IDLEX (Tons/day)	PM2_5_STREX (Tons/day)	PM2_5_TOTEX (Tons/day)	PM2_5_PMTW (Tons/day)	PM2_5_PMBW (Tons/day)	PM2_5_TOTAL (Tons/day)	SOX_RUNEX (Tons/day)
Los Angele	2017 Annual	LDA		6.137516699	0.242311401	0	0.066548006	0.308859407	0.259314962	2.04210545	2.610279819	0.483067399
Los Angele	2017 Annual	LDA		0.031571864	0.010724043	0	0	0.010724043	8.90E-04	0.007009294	0.018623406	0.001381423
Los Angele	2017 Annual	LDT1		0.719572659	0.065182018	0	0.01217644	0.077358459	0.028415191	0.223769652	0.329543302	0.061403955
Los Angele	2017 Annual	LDT1		0.002179366	0.001148278	0	0	0.001148278	4.16E-05	3.28E-04	0.001517651	6.67E-05
Los Angele	2017 Annual	T6 instate heavy		0.1320845	0.030450601	1.36E-04	0	0.030586851	0.002083137	0.038788017	0.071458006	0.007554515
Los Angele	2017 Annual	LDA/LDT1		6.890840588	0.31936574	0	0.078724446	0.398090186	0.288661841	2.27321215	2.959964177	0.545919465

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Area	CalYr	Season	Veh	PM10_TOTAL (Tons/day)	PM2_5_RUNEX (Tons/day)	PM2_5_IDLEX (Tons/day)	PM2_5_STREX (Tons/day)	PM2_5_TOTEX (Tons/day)	PM2_5_PMTW (Tons/day)	PM2_5_PMBW (Tons/day)	PM2_5_TOTAL (Tons/day)	SOX_RUNEX (Tons/day)
Los Angele	2018 Annual	LDA		6.162922568	0.242365877	0	0.069682305	0.312048182	0.260352815	2.050278558	2.622679554	0.484905498
Los Angele	2018 Annual	LDA		0.029964496	0.009169952	0	0	0.009169952	8.94E-04	0.007038106	0.017101785	0.001382042
Los Angele	2018 Annual	LDT1		0.716827676	0.061806984	0	0.011867733	0.073674716	0.028481511	0.224291924	0.32644815	0.06152612
Los Angele	2018 Annual	LDT1		0.002059571	0.001029042	0	0	0.001029042	4.21E-05	3.31E-04	0.001402307	6.70E-05
Los Angele	2018 Annual	T6 instate heavy		0.131639099	0.03027185	1.31E-04	0	0.030403037	0.002077961	0.038691633	0.071172631	0.007524941
Los Angele	2018 Annual	LDA/LDT1		6.911774311	0.314371855	0	0.081550038	0.395921893	0.289770111	2.281939793	2.967631797	0.547880626

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EMFAC 2011 Vehicle Categories

			(Tons/day)	(Tons/day)	(Tons/day)	(1000 Gallons)	(1000 Gallons)	lb/mile	lb/mile	lb/mile	lb/mile	lb/mile	lb/mile	lb/mile	lb/mile
Los Angele	2015 Annual	LDA	0	0.018963787	0.498055508	5312.485561	0	4.23E-04	3.86E-03	3.18E-04	5.97E-06	9.87E-05	5.46E-06	3.91E-05	8.54E-06
Los Angele	2015 Annual	LDA	0	0	0.001367205	0	12.88921252	1.09E-04	5.54E-04	1.05E-03	8.20E-05	9.87E-05	7.54E-05	3.91E-05	6.92E-06
Los Angele	2015 Annual	LDT1	0	0.002427413	0.063495038	677.2668149	0	1.21E-03	1.02E-02	8.96E-04	1.47E-05	9.87E-05	1.35E-05	3.91E-05	9.91E-06
Los Angele	2015 Annual	LDT1	0	0	6.52E-05	0	0.61441348	2.11E-04	9.41E-04	1.52E-03	1.77E-04	9.87E-05	1.63E-04	3.91E-05	7.21E-06
Los Angele	2015 Annual	T6 instate heavy	8.71E-05	0	0.007484646	0	70.60641202	2.76E-04	1.12E-03	1.35E-02	1.58E-04	3.14E-04	1.45E-04	1.30E-04	2.43E-05
Los Angele	2015 Annual	LDA/LDT1	0	0.0213912	0.562982923	5989.752376	13.503626	5.00E-04	4.48E-03	3.77E-04	7.09E-06	9.87E-05	6.49E-06	3.91E-05	8.67E-06

EMFAC 2011

2016 Estimated Annual Emissions

EMFAC 2011 Vehicle Categories

Los Angeles COUNTY

South Coast AIR BASIN

South Coast AQMD

Area	CalYr	Season	Veh	SOX_IDLEX (Tons/day)	SOX_STREX (Tons/day)	SOX_TOTEX (Tons/day)	FUEL_GAS (1000 Gallons)	FUEL_DSL (1000 Gallons)	exhaust ROG lb/mile	exhaust CO lb/mile	exhaust NOx lb/mile	exhaust PM10 lb/mile	tire wear a PM10 lb/mile	exhaust PM2.5 lb/mile	tire wear a PM2.5 lb/mile	exhaust SOx lb/mile
Los Angele	2016 Annual	LDA		0	0.01895437	0.499947112	5332.662154	0	3.77E-04	3.46E-03	2.85E-04	5.78E-06	9.87E-05	5.30E-06	3.91E-05	8.54E-06
Los Angele	2016 Annual	LDA		0	0	0.001374848	0	12.96126827	9.26E-05	4.87E-04	9.60E-04	6.87E-05	9.87E-05	6.32E-05	3.91E-05	6.88E-06
Los Angele	2016 Annual	LDT1		0	0.002411318	0.063642325	678.8378551	0	1.13E-03	9.36E-03	8.24E-04	1.38E-05	9.87E-05	1.27E-05	3.91E-05	9.91E-06
Los Angele	2016 Annual	LDT1		0	0	6.66E-05	0	0.627848986	1.77E-04	8.09E-04	1.34E-03	1.48E-04	9.87E-05	1.36E-04	3.91E-05	7.11E-06
Los Angele	2016 Annual	T6 instate heavy		8.85E-05	0	0.007582501	0	71.52952404	2.31E-04	9.67E-04	1.17E-02	1.24E-04	3.14E-04	1.14E-04	1.30E-04	2.43E-05
Los Angele	2016 Annual	LDA/LDT1		0	0.021365688	0.565030883	6011.500009	13.58911725	4.50E-04	4.04E-03	3.40E-04	6.78E-06	9.87E-05	6.23E-06	3.91E-05	8.67E-06

EMFAC 2011

2017 Estimated Annual Emissions

EMFAC 2011 Vehicle Categories

Los Angeles COUNTY

South Coast AIR BASIN

South Coast AQMD

Area	CalYr	Season	Veh	SOX_IDLEX (Tons/day)	SOX_STREX (Tons/day)	SOX_TOTEX (Tons/day)	FUEL_GAS (1000 Gallons)	FUEL_DSL (1000 Gallons)	exhaust ROG lb/mile	exhaust CO lb/mile	exhaust NOx lb/mile	exhaust PM10 lb/mile	tire wear a PM10 lb/mile	exhaust PM2.5 lb/mile	tire wear a PM2.5 lb/mile	exhaust SOx lb/mile
Los Angele	2017 Annual	LDA		0	0.01895508	0.502022478	5354.79889	0	3.34E-04	3.10E-03	2.56E-04	5.70E-06	9.87E-05	5.25E-06	3.91E-05	8.54E-06
Los Angele	2017 Annual	LDA		0	0	0.001381423	0	13.02325974	7.89E-05	4.28E-04	8.82E-04	5.77E-05	9.87E-05	5.31E-05	3.91E-05	6.84E-06
Los Angele	2017 Annual	LDT1		0	0.002397257	0.063801212	680.5326003	0	1.05E-03	8.54E-03	7.57E-04	1.30E-05	9.87E-05	1.20E-05	3.91E-05	9.90E-06
Los Angele	2017 Annual	LDT1		0	0	6.67E-05	0	0.628697203	1.61E-04	7.37E-04	1.25E-03	1.32E-04	9.87E-05	1.22E-04	3.91E-05	7.07E-06
Los Angele	2017 Annual	T6 instate heavy		8.88E-05	0	0.007643362	0	72.10365985	2.12E-04	9.00E-04	1.06E-02	1.06E-04	3.14E-04	9.71E-05	1.30E-04	2.43E-05
Los Angele	2017 Annual	LDA/LDT1		0	0.021352337	0.567271802	6035.33149	13.65195694	4.03E-04	3.63E-03	3.07E-04	6.60E-06	9.87E-05	6.08E-06	3.91E-05	8.66E-06

EMFAC 2011

2018 Estimated Annual Emissions

EMFAC 2011 Vehicle Categories

Los Angeles COUNTY

South Coast AIR BASIN

South Coast AQMD

Area	CalYr	Season	Veh	SOX_IDLEX (Tons/day)	SOX_STREX (Tons/day)	SOX_TOTEX (Tons/day)	FUEL_GAS (1000 Gallons)	FUEL_DSL (1000 Gallons)	exhaust ROG lb/mile	exhaust CO lb/mile	exhaust NOx lb/mile	exhaust PM10 lb/mile	tire wear a PM10 lb/mile	exhaust PM2.5 lb/mile	tire wear a PM2.5 lb/mile	exhaust SOx lb/mile
Los Angele	2018 Annual	LDA		0	0.018960515	0.503866012	5374.463019	0	2.96E-04	2.79E-03	2.31E-04	5.72E-06	9.87E-05	5.28E-06	3.91E-05	8.53E-06
Los Angele	2018 Annual	LDA		0	0	0.001382042	0	13.02909035	6.76E-05	3.81E-04	8.22E-04	4.92E-05	9.87E-05	4.52E-05	3.91E-05	6.82E-06
Los Angele	2018 Annual	LDT1		0	0.002384152	0.063910272	681.6959187	0	9.79E-04	7.80E-03	6.95E-04	1.23E-05	9.87E-05	1.14E-05	3.91E-05	9.89E-06
Los Angele	2018 Annual	LDT1		0	0	6.70E-05	0	0.631315215	1.42E-04	6.63E-04	1.17E-03	1.17E-04	9.87E-05	1.08E-04	3.91E-05	7.02E-06
Los Angele	2018 Annual	T6 instate heavy		8.84E-05	0	0.007613306	0	71.8201233	2.13E-04	9.09E-04	9.63E-03	1.05E-04	3.14E-04	9.68E-05	1.30E-04	2.42E-05
Los Angele	2018 Annual	LDA/LDT1		0	0.021344667	0.569225292	6056.158938	13.66040556	3.62E-04	3.28E-03	2.79E-04	6.52E-06	9.87E-05	6.02E-06	3.91E-05	8.66E-06

EMFAC 2011

2019 Estimated Annual Emissions

EMFAC 2011 Vehicle Categories

				ton/mile
Los Angele	2015 Annual	LDA		3.66E-04
Los Angele	2015 Annual	LDA		3.04E-04
Los Angele	2015 Annual	LDT1		4.34E-04
Los Angele	2015 Annual	LDT1		3.25E-04
Los Angele	2015 Annual	T6 instate heavy		1.24E-03
Los Angele	2015 Annual	LDA/LDT1		3.72E-04

EMFAC 2011

2016 Estimated Annual Emissions

EMFAC 2011 Vehicle Categories

Los Angeles COUNTY

South Coast AIR BASIN

South Coast AQMD

				exhaust
Area	CalYr	Season	Veh	CO2
				ton/mile
Los Angele	2016 Annual	LDA		3.52E-04
Los Angele	2016 Annual	LDA		2.92E-04
Los Angele	2016 Annual	LDT1		4.21E-04
Los Angele	2016 Annual	LDT1		3.07E-04
Los Angele	2016 Annual	T6 instate heavy		1.23E-03
Los Angele	2016 Annual	LDA/LDT1		3.58E-04

EMFAC 2011

2017 Estimated Annual Emissions

EMFAC 2011 Vehicle Categories

Los Angeles COUNTY

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				exhaust
Area	CalYr	Season	Veh	CO2
				ton/mile
Los Angele	2017 Annual	LDA		3.37E-04
Los Angele	2017 Annual	LDA		2.80E-04
Los Angele	2017 Annual	LDT1		4.07E-04
Los Angele	2017 Annual	LDT1		2.94E-04
Los Angele	2017 Annual	T6 instate heavy		1.21E-03
Los Angele	2017 Annual	LDA/LDT1		3.44E-04

EMFAC 2011

2018 Estimated Annual Emissions

EMFAC 2011 Vehicle Categories

Los Angeles COUNTY

South Coast AIR BASIN

South Coast AQMD

				exhaust
Area	CalYr	Season	Veh	CO2
				ton/mile
Los Angele	2018 Annual	LDA		3.23E-04
Los Angele	2018 Annual	LDA		2.69E-04
Los Angele	2018 Annual	LDT1		3.93E-04
Los Angele	2018 Annual	LDT1		2.81E-04
Los Angele	2018 Annual	T6 instate heavy		1.19E-03
Los Angele	2018 Annual	LDA/LDT1		3.30E-04

EMFAC 2011

2019 Estimated Annual Emissions

EMFAC 2011 Vehicle Categories

Los Angeles COUNTY  
 South Coast AIR BASIN  
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Area	CalYr	Season	Veh	Fuel	MdYr	Speed (Miles/hr)	Pop (Vehicles)	VMT (Miles/day)	Trips (Trips/day)	ROG_RUNEX (Tons/day)	ROG_IDLEX (Tons/day)	ROG_STREX (Tons/day)	ROG_TOTEX (Tons/day)
Los Angele	2019	Annual	LDA	GAS	AllMYr	AllSpeeds	3567855.171	1.19E+08	2.25E+07	2.429675569	0	2.72186307	5.151538639
Los Angele	2019	Annual	LDA	DSL	AllMYr	AllSpeeds	12789.91564	406383.6895	77908.90733	0.01168923	0	0	0.01168923
Los Angele	2019	Annual	LDT1	GAS	AllMYr	AllSpeeds	388030.3952	1.29E+07	2340479.437	0.906018174	0	0.820789872	1.726808047
Los Angele	2019	Annual	LDT1	DSL	AllMYr	AllSpeeds	576.724497	19394.51835	3269.28245	0.001182834	0	0	0.001182834
Los Angele	2019	Annual	T6 instate heavy	DSL	AllMYr	AllSpeeds	11359.65126	630361.7022	0	0.064089308	0.001726825	0	0.065816133
Los Angele	2019	Annual	LDA/LDT1	GAS&DSL	AllMYr	AllSpeeds	3969252.206	131965104.4	24926450.77	3.348565807	0	3.542652942	6.89121875

EMFAC 2011  
 2020 Estimated Annual Emissions  
 EMFAC 2011 Vehicle Categories  
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Area	CalYr	Season	Veh	Fuel	MdYr	Speed (Miles/hr)	Pop (Vehicles)	VMT (Miles/day)	Trips (Trips/day)	ROG_RUNEX (Tons/day)	ROG_IDLEX (Tons/day)	ROG_STREX (Tons/day)	ROG_TOTEX (Tons/day)
Los Angele	2020	Annual	LDA	GAS	AllMYr	AllSpeeds	3584481.251	1.19E+08	2.26E+07	2.256314464	0	2.466326069	4.722640533
Los Angele	2020	Annual	LDA	DSL	AllMYr	AllSpeeds	12849.51645	405604.2468	78652.14439	0.010209751	0	0	0.010209751
Los Angele	2020	Annual	LDT1	GAS	AllMYr	AllSpeeds	389260.4246	1.30E+07	2344831.01	0.829002813	0	0.755707161	1.584709975
Los Angele	2020	Annual	LDT1	DSL	AllMYr	AllSpeeds	578.55275	19518.17747	3317.336232	0.001066953	0	0	0.001066953
Los Angele	2020	Annual	T6 instate heavy	DSL	AllMYr	AllSpeeds	11416.43544	635392.9847	0	0.063662012	0.001899306	0	0.065561318
Los Angele	2020	Annual	LDA/LDT1	GAS&DSL	AllMYr	AllSpeeds	3987169.745	132464764.3	25031114.11	3.096593981	0	3.22203323	6.318627211

EMFAC 2011  
 2021 Estimated Annual Emissions  
 EMFAC 2011 Vehicle Categories  
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Area	CalYr	Season	Veh	Fuel	MdYr	Speed (Miles/hr)	Pop (Vehicles)	VMT (Miles/day)	Trips (Trips/day)	ROG_RUNEX (Tons/day)	ROG_IDLEX (Tons/day)	ROG_STREX (Tons/day)	ROG_TOTEX (Tons/day)
Los Angele	2021	Annual	LDA	GAS	AllMYr	AllSpeeds	3586158.974	1.19E+08	2.26E+07	2.126982475	0	2.262296272	4.389278747
Los Angele	2021	Annual	LDA	DSL	AllMYr	AllSpeeds	12855.5308	402118.8702	78977.55307	0.008937007	0	0	0.008937007
Los Angele	2021	Annual	LDT1	GAS	AllMYr	AllSpeeds	391058.826	1.30E+07	2353654.277	0.769894113	0	0.696931257	1.466825371
Los Angele	2021	Annual	LDT1	DSL	AllMYr	AllSpeeds	581.22566	19441.80285	3345.015444	0.001008104	0	0	0.001008104
Los Angele	2021	Annual	T6 instate heavy	DSL	AllMYr	AllSpeeds	11407.64691	638032.4948	0	0.067988192	0.002315694	0	0.070303886
Los Angele	2021	Annual	LDA/LDT1	GAS&DSL	AllMYr	AllSpeeds	3990654.556	132252294	25042019.63	2.906821699	0	2.959227529	5.866049229

EMFAC 2011  
 2022 Estimated Annual Emissions  
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Area	CalYr	Season	Veh	Fuel	MdYr	Speed (Miles/hr)	Pop (Vehicles)	VMT (Miles/day)	Trips (Trips/day)	ROG_RUNEX (Tons/day)	ROG_IDLEX (Tons/day)	ROG_STREX (Tons/day)	ROG_TOTEX (Tons/day)
Los Angele	2022	Annual	LDA	GAS	AllMYr	AllSpeeds	3587837.337	1.19E+08	2.26E+07	2.013019541	0	2.097582849	4.11060239
Los Angele	2022	Annual	LDA	DSL	AllMYr	AllSpeeds	12861.5466	398576.8894	79209.02303	0.007872821	0	0	0.007872821
Los Angele	2022	Annual	LDT1	GAS	AllMYr	AllSpeeds	392865.5214	1.31E+07	2363327.814	0.709038755	0	0.642033713	1.351072468
Los Angele	2022	Annual	LDT1	DSL	AllMYr	AllSpeeds	583.91089	19307.61832	3362.311197	9.61E-04	0	0	9.61E-04
Los Angele	2022	Annual	T6 instate heavy	DSL	AllMYr	AllSpeeds	11316.1726	638440.7338	0	0.07175839	0.002618385	0	0.074376774
Los Angele	2022	Annual	LDA/LDT1	GAS&DSL	AllMYr	AllSpeeds	3994148.316	132185484.3	25056347.11	2.730891842	0	2.739616562	5.470508404

Los Angeles COUNTY  
 South Coast AIR BASIN  
 South Coast AQMD

Area	CalYr	Season	Veh	ROG_DIURN (Tons/day)	ROG_HTSK (Tons/day)	ROG_RUNLS (Tons/day)	ROG_RESTL (Tons/day)	ROG_TOTAL (Tons/day)	TOG_RUNEX (Tons/day)	TOG_IDLEX (Tons/day)	TOG_STREX (Tons/day)	TOG_TOTEX (Tons/day)	
Los Angele	2019	Annual	LDA	1.111331732	2.657743611	5.92366825	1.025927241	15.87020947	3.938733759		0	2.906274268	6.845008027
Los Angele	2019	Annual	LDA	0	0	0	0	0.01168923	0.01330741		0	0	0.01330741
Los Angele	2019	Annual	LDT1	0.426974499	0.792078906	2.718680629	0.342267407	6.006809488	1.275844953		0	0.876380806	2.152225759
Los Angele	2019	Annual	LDT1	0	0	0	0	0.001182834	0.001346577		0	0	0.001346577
Los Angele	2019	Annual	T6 instate heavy	0	0	0	0	0.065816133	0.072960799	0.001965859		0	0.074926658
Los Angele	2019	Annual	LDA/LDT1	1.53830623	3.449822517	8.642348879	1.368194648	21.88989102	5.229232699		0	3.782655074	9.011887774

EMFAC 2011  
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Area	CalYr	Season	Veh	ROG_DIURN (Tons/day)	ROG_HTSK (Tons/day)	ROG_RUNLS (Tons/day)	ROG_RESTL (Tons/day)	ROG_TOTAL (Tons/day)	TOG_RUNEX (Tons/day)	TOG_IDLEX (Tons/day)	TOG_STREX (Tons/day)	TOG_TOTEX (Tons/day)	
Los Angele	2020	Annual	LDA	1.039037489	2.484775556	5.676512801	0.968366266	14.89133265	3.707568265		0	2.63340203	6.340970295
Los Angele	2020	Annual	LDA	0	0	0	0	0.010209751	0.011623122		0	0	0.011623122
Los Angele	2020	Annual	LDT1	0.41259628	0.77042986	2.615653115	0.335397168	5.718786399	1.179009075		0	0.806875994	1.985885069
Los Angele	2020	Annual	LDT1	0	0	0	0	0.001066953	0.001214655		0	0	0.001214655
Los Angele	2020	Annual	T6 instate heavy	0	0	0	0	0.065561318	0.072474355	0.002162215		0	0.07463657
Los Angele	2020	Annual	LDA/LDT1	1.451633769	3.255205416	8.292165916	1.303763434	20.62139575	4.899415116		0	3.440278024	8.33969314

EMFAC 2011  
 2021 Estimated Annual Emissions  
 EMFAC 2011 Vehicle Categories  
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Area	CalYr	Season	Veh	ROG_DIURN (Tons/day)	ROG_HTSK (Tons/day)	ROG_RUNLS (Tons/day)	ROG_RESTL (Tons/day)	ROG_TOTAL (Tons/day)	TOG_RUNEX (Tons/day)	TOG_IDLEX (Tons/day)	TOG_STREX (Tons/day)	TOG_TOTEX (Tons/day)	
Los Angele	2021	Annual	LDA	0.976662108	2.327309267	5.459467659	0.915994559	14.06871234	3.533412428		0	2.415525817	5.948938245
Los Angele	2021	Annual	LDA	0	0	0	0	0.008937007	0.010174188		0	0	0.010174188
Los Angele	2021	Annual	LDT1	0.397599504	0.747450956	2.511320127	0.327119367	5.450315324	1.102898281		0	0.744117726	1.847016007
Los Angele	2021	Annual	LDT1	0	0	0	0	0.001008104	0.001147659		0	0	0.001147659
Los Angele	2021	Annual	T6 instate heavy	0	0	0	0	0.070303886	0.077399381	0.002636242		0	0.080035623
Los Angele	2021	Annual	LDA/LDT1	1.374261613	3.074760223	7.970787786	1.243113925	19.52897278	4.647632557		0	3.159643543	7.807276099

EMFAC 2011  
 2022 Estimated Annual Emissions  
 EMFAC 2011 Vehicle Categories  
 Los Angeles COUNTY  
 South Coast AIR BASIN  
 South Coast AQMD

Area	CalYr	Season	Veh	ROG_DIURN (Tons/day)	ROG_HTSK (Tons/day)	ROG_RUNLS (Tons/day)	ROG_RESTL (Tons/day)	ROG_TOTAL (Tons/day)	TOG_RUNEX (Tons/day)	TOG_IDLEX (Tons/day)	TOG_STREX (Tons/day)	TOG_TOTEX (Tons/day)	
Los Angele	2022	Annual	LDA	0.919652827	2.205946511	5.25935428	0.868384158	13.36394017	3.378859353		0	2.239630873	5.618490226
Los Angele	2022	Annual	LDA	0	0	0	0	0.007872821	0.008962684		0	0	0.008962684
Los Angele	2022	Annual	LDT1	0.381442291	0.7220332	2.404512695	0.317270859	5.176331513	1.024991089		0	0.68550036	1.710491449
Los Angele	2022	Annual	LDT1	0	0	0	0	9.61E-04	0.001093721		0	0	0.001093721
Los Angele	2022	Annual	T6 instate heavy	0	0	0	0	0.074376774	0.081691464	0.002980832		0	0.084672296
Los Angele	2022	Annual	LDA/LDT1	1.301095119	2.927979711	7.663866975	1.185655017	18.54910523	4.413906846		0	2.925131233	7.339038079

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Area	CalYr	Season	Veh	TOG_DIURN (Tons/day)	TOG_HTSK (Tons/day)	TOG_RUNLS (Tons/day)	TOG_RESTL (Tons/day)	TOG_TOTAL (Tons/day)	CO_RUNEX (Tons/day)	CO_IDLEX (Tons/day)	CO_STREX (Tons/day)	CO_TOTEX (Tons/day)	
Los Angele	2019	Annual	LDA	1.111331732	2.657743611	5.92366825	1.025927241	17.56367886	112.2794834		0	38.2972215	150.5767049
Los Angele	2019	Annual	LDA	0	0	0	0	0.01330741	0.068900647		0	0	0.068900647
Los Angele	2019	Annual	LDT1	0.426974499	0.792078906	2.718680629	0.342267407	6.4322272	35.72581815		0	11.01045163	46.73626978
Los Angele	2019	Annual	LDT1	0	0	0	0	0.001346577	0.005659455		0	0	0.005659455
Los Angele	2019	Annual	T6 instate heavy	0	0	0	0	0.074926658	0.265464407	0.020207874		0	0.285672281
Los Angele	2019	Annual	LDA/LDT1	1.53830623	3.449822517	8.642348879	1.368194648	24.01056005	148.0798617		0	49.30767313	197.3875348

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Area	CalYr	Season	Veh	TOG_DIURN (Tons/day)	TOG_HTSK (Tons/day)	TOG_RUNLS (Tons/day)	TOG_RESTL (Tons/day)	TOG_TOTAL (Tons/day)	CO_RUNEX (Tons/day)	CO_IDLEX (Tons/day)	CO_STREX (Tons/day)	CO_TOTEX (Tons/day)	
Los Angele	2020	Annual	LDA	1.039037489	2.484775556	5.676512801	0.968366266	16.50966241	106.2923515		0	35.283375	141.5757265
Los Angele	2020	Annual	LDA	0	0	0	0	0.011623122	0.062798387		0	0	0.062798387
Los Angele	2020	Annual	LDT1	0.41259628	0.77042986	2.615653115	0.335397168	6.119961493	33.30176948		0	10.18999473	43.49176421
Los Angele	2020	Annual	LDT1	0	0	0	0	0.001214655	0.005199581		0	0	0.005199581
Los Angele	2020	Annual	T6 instate heavy	0	0	0	0	0.07463657	0.26596363	0.02238949		0	0.28835312
Los Angele	2020	Annual	LDA/LDT1	1.451633769	3.255205416	8.292165916	1.303763434	22.64246168	139.6621189		0	45.47336973	185.1354886

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Area	CalYr	Season	Veh	TOG_DIURN (Tons/day)	TOG_HTSK (Tons/day)	TOG_RUNLS (Tons/day)	TOG_RESTL (Tons/day)	TOG_TOTAL (Tons/day)	CO_RUNEX (Tons/day)	CO_IDLEX (Tons/day)	CO_STREX (Tons/day)	CO_TOTEX (Tons/day)	
Los Angele	2021	Annual	LDA	0.976662108	2.327309267	5.459467659	0.915994559	15.62837184	101.476214		0	32.8130255	134.2892395
Los Angele	2021	Annual	LDA	0	0	0	0	0.010174188	0.057445399		0	0	0.057445399
Los Angele	2021	Annual	LDT1	0.397599504	0.747450956	2.511320127	0.327119367	5.83050596	31.11208551		0	9.422630715	40.53471622
Los Angele	2021	Annual	LDT1	0	0	0	0	0.001147659	0.00491928		0	0	0.00491928
Los Angele	2021	Annual	T6 instate heavy	0	0	0	0	0.080035623	0.286089539	0.027383237		0	0.313472777
Los Angele	2021	Annual	LDA/LDT1	1.374261613	3.074760223	7.970787786	1.243113925	21.47019965	132.6506642		0	42.23565621	174.8863204

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Area	CalYr	Season	Veh	TOG_DIURN (Tons/day)	TOG_HTSK (Tons/day)	TOG_RUNLS (Tons/day)	TOG_RESTL (Tons/day)	TOG_TOTAL (Tons/day)	CO_RUNEX (Tons/day)	CO_IDLEX (Tons/day)	CO_STREX (Tons/day)	CO_TOTEX (Tons/day)	
Los Angele	2022	Annual	LDA	0.919652827	2.205946511	5.25935428	0.868384158	14.871828	97.28776258		0	30.755076	128.0428386
Los Angele	2022	Annual	LDA	0	0	0	0	0.008962684	0.052902707		0	0	0.052902707
Los Angele	2022	Annual	LDT1	0.381442291	0.7220332	2.404512695	0.317270859	5.535750494	28.91917371		0	8.69815295	37.61732666
Los Angele	2022	Annual	LDT1	0	0	0	0	0.001093721	0.004712648		0	0	0.004712648
Los Angele	2022	Annual	T6 instate heavy	0	0	0	0	0.084672296	0.301954267	0.030962571		0	0.332916838
Los Angele	2022	Annual	LDA/LDT1	1.301095119	2.927979711	7.663866975	1.185655017	20.4176349	126.2645516		0	39.45322895	165.7177806

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Los Angele	2019	Annual	LDA	10.16957171		0	2.384950983	12.55452269	48410.74631	0	1833.192427	50243.93874	35286.16247
Los Angele	2019	Annual	LDA	0.15640497		0	0	0.15640497	144.7809319	0	0	144.7809319	105.2723012
Los Angele	2019	Annual	LDT1	3.548352607		0	0.625944857	4.174297464	6094.011155	0	218.0713346	6312.08249	4730.374671
Los Angele	2019	Annual	LDT1	0.010355007		0	0	0.010355007	7.08188629	0	0	7.08188629	5.197755156
Los Angele	2019	Annual	T6 instate heavy	2.647659211	0.097002722		0	2.744661933	786.5359468	9.284421676	0	795.8203685	723.6130711
Los Angele	2019	Annual	LDA/LDT1	13.88468429		0	3.01089584	16.89558013	54656.62029	0	2051.263762	56707.88405	40127.0072

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Los Angele	2020	Annual	LDA	9.628903488		0	2.166911823	11.79581531	48614.8093	0	1843.493868	50458.30317	33869.84615
Los Angele	2020	Annual	LDA	0.148005028		0	0	0.148005028	144.125189	0	0	144.125189	101.0172855
Los Angele	2020	Annual	LDT1	3.303682079		0	0.580710841	3.88439292	6112.940663	0	218.8963409	6331.837004	4561.436572
Los Angele	2020	Annual	LDT1	0.009790641		0	0	0.009790641	7.088663468	0	0	7.088663468	4.997040336
Los Angele	2020	Annual	T6 instate heavy	2.109326715	0.089352295		0	2.19867901	790.9485505	9.397901636	0	800.3464521	711.8536954
Los Angele	2020	Annual	LDA/LDT1	13.09038124		0	2.747622664	15.8380039	54878.96382	0	2062.390209	56941.35403	38537.29705

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Area	CalYr	Season	Veh	NOX_RUNEX (Tons/day)	NOX_IDLEX (Tons/day)	NOX_STREX (Tons/day)	NOX_TOTEX (Tons/day)	CO2_RUNEX (Tons/day)	CO2_IDLEX (Tons/day)	CO2_STREX (Tons/day)	CO2_TOTEX (Tons/day)	CO2_RUNEX(Pavh) (Tons/day)	
Los Angele	2021	Annual	LDA	9.208912502		0	1.991737824	11.20065033	48608.28233	0	1845.301403	50453.58373	33164.60647
Los Angele	2021	Annual	LDA	0.1402104		0	0	0.1402104	142.4940137	0	0	142.4940137	98.60825259
Los Angele	2021	Annual	LDT1	3.074763152		0	0.538741732	3.613504885	6159.613248	0	220.1298165	6379.743064	4517.05388
Los Angele	2021	Annual	LDT1	0.009558038		0	0	0.009558038	7.043317376	0	0	7.043317376	4.913127247
Los Angele	2021	Annual	T6 instate heavy	1.343815612	0.065979221		0	1.409794833	791.6171843	9.405192737	0	801.022377	712.4554659
Los Angele	2021	Annual	LDA/LDT1	12.43344409		0	2.530479556	14.96392365	54917.4329	0	2065.43122	56982.86412	37785.18173

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Area	CalYr	Season	Veh	NOX_RUNEX (Tons/day)	NOX_IDLEX (Tons/day)	NOX_STREX (Tons/day)	NOX_TOTEX (Tons/day)	CO2_RUNEX (Tons/day)	CO2_IDLEX (Tons/day)	CO2_STREX (Tons/day)	CO2_TOTEX (Tons/day)	CO2_RUNEX(Pavh) (Tons/day)	
Los Angele	2022	Annual	LDA	8.868119522		0	1.854623495	10.72274302	48558.63448	0	1846.828245	50405.46272	32483.53089
Los Angele	2022	Annual	LDA	0.133545171		0	0	0.133545171	140.9682069	0	0	140.9682069	96.39697866
Los Angele	2022	Annual	LDT1	2.851809082		0	0.499809241	3.351618323	6194.603317	0	221.4065797	6416.009897	4467.390622
Los Angele	2022	Annual	LDT1	0.009428139		0	0	0.009428139	6.987541721	0	0	6.987541721	4.838464839
Los Angele	2022	Annual	T6 instate heavy	0.954218568	0.04677809		0	1.000996658	790.0978178	9.302918792	0	799.4007366	711.0880361
Los Angele	2022	Annual	LDA/LDT1	11.86290191		0	2.354432736	14.21733465	54901.19354	0	2068.234825	56969.42837	37052.15695

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Los Angele	2019	Annual	LDA	0	1380.867213	36667.02968	0.262728823	0	0.079404023	0.342132846	1.045817827	4.804226258
Los Angele	2019	Annual	LDA	0	0	105.2723012	0.008451913	0	0	0.008451913	0.003583691	0.016462582
Los Angele	2019	Annual	LDT1	0	172.5242373	4902.898908	0.063414015	0	0.012616064	0.07603008	0.114160488	0.524424822
Los Angele	2019	Annual	LDT1	0	0	5.197755156	9.68E-04	0	0	9.68E-04	1.71E-04	7.86E-04
Los Angele	2019	Annual	T6 instate heavy	8.541667942	0	732.154739	0.033148286	1.38E-04	0	0.033286749	0.008338258	0.090567379
Los Angele	2019	Annual	LDA/LDT1	0	1553.39145	41680.39865	0.335562669	0	0.092020087	0.427582756	1.163733036	5.345899333

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Area	CalYr	Season	Veh	CO2_IDLEX(Pavle (Tons/day)	CO2_STREX(Pavk (Tons/day)	CO2_TOTEX(Pavk (Tons/day)	PM10_RUNEX (Tons/day)	PM10_IDLEX (Tons/day)	PM10_STREX (Tons/day)	PM10_TOTEX (Tons/day)	PM10_PMTW (Tons/day)	PM10_PMBW (Tons/day)
Los Angele	2020	Annual	LDA	0	1326.120395	35195.96654	0.268051054	0	0.084283079	0.352334133	1.049959108	4.823250418
Los Angele	2020	Annual	LDA	0	0	101.0172855	0.007296913	0	0	0.007296913	0.003576817	0.016431007
Los Angele	2020	Annual	LDT1	0	166.4052591	4727.841832	0.060826177	0	0.012490265	0.073316442	0.114431297	0.52566885
Los Angele	2020	Annual	LDT1	0	0	4.997040336	8.61E-04	0	0	8.61E-04	1.72E-04	7.91E-04
Los Angele	2020	Annual	T6 instate heavy	8.458111472	0	720.3118069	0.032655302	1.28E-04	0	0.032783369	0.00840481	0.09129025
Los Angele	2020	Annual	LDA/LDT1	0	1492.525654	40029.8227	0.337034792	0	0.096773344	0.433808137	1.168139343	5.366140955

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Los Angele	2021	Annual	LDA	0	1297.755454	34462.36192	0.27367702	0	0.088935086	0.362612105	1.047548812	4.812177731
Los Angele	2021	Annual	LDA	0	0	98.60825259	0.006321211	0	0	0.006321211	0.003546082	0.016289814
Los Angele	2021	Annual	LDT1	0	164.3691646	4681.423044	0.058647513	0	0.012423214	0.071070727	0.114999324	0.528278238
Los Angele	2021	Annual	LDT1	0	0	4.913127247	8.10E-04	0	0	8.10E-04	1.71E-04	7.88E-04
Los Angele	2021	Annual	T6 instate heavy	8.464673463	0	720.9201393	0.031013264	1.16E-04	0	0.031129697	0.008439725	0.091669482
Los Angele	2021	Annual	LDA/LDT1	0	1462.124619	39247.30635	0.339455361	0	0.1013583	0.440813661	1.166265665	5.35753337

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Area	CalYr	Season	Veh	CO2_IDLEX(Pavle (Tons/day)	CO2_STREX(Pavk (Tons/day)	CO2_TOTEX(Pavk (Tons/day)	PM10_RUNEX (Tons/day)	PM10_IDLEX (Tons/day)	PM10_STREX (Tons/day)	PM10_TOTEX (Tons/day)	PM10_PMTW (Tons/day)	PM10_PMBW (Tons/day)
Los Angele	2022	Annual	LDA	0	1270.867286	33754.39817	0.278873219	0	0.093672437	0.372545656	1.046404025	4.806919383
Los Angele	2022	Annual	LDA	0	0	96.39697866	0.005493923	0	0	0.005493923	0.003514847	0.016146329
Los Angele	2022	Annual	LDT1	0	162.4527285	4629.843351	0.056264542	0	0.012382668	0.06864721	0.115587337	0.530979422
Los Angele	2022	Annual	LDT1	0	0	4.838464839	7.75E-04	0	0	7.75E-04	1.70E-04	7.82E-04
Los Angele	2022	Annual	T6 instate heavy	8.372626913	0	719.460663	0.029534046	1.10E-04	0	0.02964399	0.008445125	0.091728136
Los Angele	2022	Annual	LDA/LDT1	0	1433.320015	38485.47697	0.341406911	0	0.106055105	0.447462016	1.165676472	5.354827286



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Area	CalYr	Season	Veh	PM10_TOTAL (Tons/day)	PM2_5_RUNEX (Tons/day)	PM2_5_IDLEX (Tons/day)	PM2_5_STREX (Tons/day)	PM2_5_TOTEX (Tons/day)	PM2_5_PMTW (Tons/day)	PM2_5_PMBW (Tons/day)	PM2_5_TOTAL (Tons/day)	SOX_RUNEX (Tons/day)
Los Angele	2019	Annual	LDA	6.192176931	0.243572803	0	0.073625079	0.317197882	0.261454469	2.058954105	2.637606456	0.485099783
Los Angele	2019	Annual	LDA	0.028498186	0.00777576	0	0	0.00777576	8.96E-04	0.007055392	0.015727075	0.001382169
Los Angele	2019	Annual	LDT1	0.714615389	0.058781553	0	0.011696093	0.070477646	0.028540122	0.224753481	0.323771249	0.061426597
Los Angele	2019	Annual	LDT1	0.001924619	8.90E-04	0	0	8.90E-04	4.28E-05	3.37E-04	0.001269958	6.76E-05
Los Angele	2019	Annual	T6 instate heavy	0.132192386	0.030496423	1.27E-04	0	0.030623809	0.002084565	0.038814591	0.071522965	0.007503921
Los Angele	2019	Annual	LDA/LDT1	6.937215125	0.311020601	0	0.085321172	0.396341773	0.290933271	2.291099694	2.978374739	0.547976157

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Area	CalYr	Season	Veh	PM10_TOTAL (Tons/day)	PM2_5_RUNEX (Tons/day)	PM2_5_IDLEX (Tons/day)	PM2_5_STREX (Tons/day)	PM2_5_TOTEX (Tons/day)	PM2_5_PMTW (Tons/day)	PM2_5_PMBW (Tons/day)	PM2_5_TOTAL (Tons/day)	SOX_RUNEX (Tons/day)
Los Angele	2020	Annual	LDA	6.225543659	0.248549816	0	0.078161712	0.326711529	0.262489763	2.067107085	2.656308377	0.487036008
Los Angele	2020	Annual	LDA	0.027304737	0.00671316	0	0	0.00671316	8.94E-04	0.00704186	0.014649224	0.001375908
Los Angele	2020	Annual	LDT1	0.713416588	0.056402282	0	0.011583073	0.067985355	0.028607824	0.225286639	0.321879818	0.061574674
Los Angele	2020	Annual	LDT1	0.001823451	7.92E-04	0	0	7.92E-04	4.30E-05	3.39E-04	0.001173691	6.77E-05
Los Angele	2020	Annual	T6 instate heavy	0.132478429	0.030042878	1.18E-04	0	0.030160699	0.002101203	0.039124393	0.071386294	0.007546019
Los Angele	2020	Annual	LDA/LDT1	6.968088434	0.312457056	0	0.089744785	0.402201841	0.292034822	2.299774447	2.99401111	0.550054263

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Los Angele	2021	Annual	LDA	6.222338649	0.253813301	0	0.082488887	0.336302189	0.2618872	2.062361884	2.660551272	0.486890204
Los Angele	2021	Annual	LDA	0.026157106	0.005815514	0	0	0.005815514	8.87E-04	0.006981349	0.013683383	0.001360336
Los Angele	2021	Annual	LDT1	0.714348289	0.054388698	0	0.01152223	0.065910927	0.028749831	0.226404932	0.32106569	0.062003968
Los Angele	2021	Annual	LDT1	0.001768652	7.45E-04	0	0	7.45E-04	4.29E-05	3.38E-04	0.001125247	6.72E-05
Los Angele	2021	Annual	T6 instate heavy	0.131238904	0.028532203	1.07E-04	0	0.028639321	0.002109931	0.039286921	0.070036173	0.007552398
Los Angele	2021	Annual	LDA/LDT1	6.964612696	0.314762362	0	0.094011117	0.408773479	0.291566413	2.296085701	2.996425593	0.550321748

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Area	CalYr	Season	Veh	PM10_TOTAL (Tons/day)	PM2_5_RUNEX (Tons/day)	PM2_5_IDLEX (Tons/day)	PM2_5_STREX (Tons/day)	PM2_5_TOTEX (Tons/day)	PM2_5_PMTW (Tons/day)	PM2_5_PMBW (Tons/day)	PM2_5_TOTAL (Tons/day)	SOX_RUNEX (Tons/day)
Los Angele	2022	Annual	LDA	6.225869064	0.25867421	0	0.086894215	0.345568425	0.261601002	2.060108083	2.66727751	0.486324403
Los Angele	2022	Annual	LDA	0.025155099	0.005054409	0	0	0.005054409	8.79E-04	0.006919855	0.012852976	0.00134577
Los Angele	2022	Annual	LDT1	0.715213969	0.052185686	0	0.011485969	0.063671655	0.028896834	0.22756259	0.320131079	0.062316543
Los Angele	2022	Annual	LDT1	0.001727641	7.13E-04	0	0	7.13E-04	4.26E-05	3.35E-04	0.001090982	6.67E-05
Los Angele	2022	Annual	T6 instate heavy	0.129817251	0.027171322	1.01E-04	0	0.02727247	0.002111281	0.039312058	0.06869581	0.007537903
Los Angele	2022	Annual	LDA/LDT1	6.967965774	0.316627514	0	0.098380184	0.415007698	0.291419115	2.294925735	3.001352548	0.550053424

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Area	CalYr	Season	Veh	SOX_IDLEX (Tons/day)	SOX_STREX (Tons/day)	SOX_TOTEX (Tons/day)	FUEL_GAS (1000 Gallons)	FUEL_DSL (1000 Gallons)	exhaust ROG lb/mile	exhaust CO lb/mile	exhaust NOx lb/mile	exhaust PM10 lb/mile	tire wear a PM10 lb/mile	exhaust PM2.5 lb/mile	tire wear a PM2.5 lb/mile	exhaust SOx lb/mile
Los Angele	2019	Annual	LDA	0	0.018985687	0.50408547	5376.803887	0	2.68E-04	2.54E-03	2.12E-04	5.77E-06	9.87E-05	5.35E-06	3.91E-05	8.50E-06
Los Angele	2019	Annual	LDA	0	0	0.001382169	0	13.03028346	5.75E-05	3.39E-04	7.70E-04	4.16E-05	9.87E-05	3.83E-05	3.91E-05	6.80E-06
Los Angele	2019	Annual	LDT1	0	0.00237552	0.063802117	680.5422564	0	9.28E-04	7.22E-03	6.45E-04	1.17E-05	9.87E-05	1.09E-05	3.91E-05	9.86E-06
Los Angele	2019	Annual	LDT1	0	0	6.76E-05	0	0.637369795	1.22E-04	5.84E-04	1.07E-03	9.98E-05	9.87E-05	9.18E-05	3.91E-05	6.97E-06
Los Angele	2019	Annual	T6 instate heavy	8.86E-05	0	0.007592498	0	71.62383316	2.09E-04	9.06E-04	8.71E-03	1.06E-04	3.14E-04	9.72E-05	1.30E-04	2.41E-05
Los Angele	2019	Annual	LDA/LDT1	0	0.021361207	0.569337364	6057.346143	13.66765326	3.32E-04	2.99E-03	2.56E-04	6.48E-06	9.87E-05	6.01E-06	3.91E-05	8.63E-06

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Area	CalYr	Season	Veh	SOX_IDLEX (Tons/day)	SOX_STREX (Tons/day)	SOX_TOTEX (Tons/day)	FUEL_GAS (1000 Gallons)	FUEL_DSL (1000 Gallons)	exhaust ROG lb/mile	exhaust CO lb/mile	exhaust NOx lb/mile	exhaust PM10 lb/mile	tire wear a PM10 lb/mile	exhaust PM2.5 lb/mile	tire wear a PM2.5 lb/mile	exhaust SOx lb/mile
Los Angele	2020	Annual	LDA	0	0.019033121	0.506069129	5397.962378	0	2.50E-04	2.38E-03	1.98E-04	5.92E-06	9.87E-05	5.49E-06	3.91E-05	8.50E-06
Los Angele	2020	Annual	LDA	0	0	0.001375908	0	12.97126722	5.03E-05	3.10E-04	7.30E-04	3.60E-05	9.87E-05	3.31E-05	3.91E-05	6.78E-06
Los Angele	2020	Annual	LDT1	0	0.002368817	0.063943491	682.0502214	0	8.81E-04	6.70E-03	5.99E-04	1.13E-05	9.87E-05	1.05E-05	3.91E-05	9.86E-06
Los Angele	2020	Annual	LDT1	0	0	6.77E-05	0	0.637979738	1.09E-04	5.33E-04	1.00E-03	8.82E-05	9.87E-05	8.11E-05	3.91E-05	6.93E-06
Los Angele	2020	Annual	T6 instate heavy	8.97E-05	0	0.007635679	0	72.03118069	2.06E-04	9.08E-04	6.92E-03	1.03E-04	3.14E-04	9.49E-05	1.30E-04	2.40E-05
Los Angele	2020	Annual	LDA/LDT1	0	0.021401938	0.571456201	6080.012599	13.60924696	3.11E-04	2.80E-03	2.39E-04	6.55E-06	9.87E-05	6.07E-06	3.91E-05	8.63E-06

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Area	CalYr	Season	Veh	SOX_IDLEX (Tons/day)	SOX_STREX (Tons/day)	SOX_TOTEX (Tons/day)	FUEL_GAS (1000 Gallons)	FUEL_DSL (1000 Gallons)	exhaust ROG lb/mile	exhaust CO lb/mile	exhaust NOx lb/mile	exhaust PM10 lb/mile	tire wear a PM10 lb/mile	exhaust PM2.5 lb/mile	tire wear a PM2.5 lb/mile	exhaust SOx lb/mile
Los Angele	2021	Annual	LDA	0	0.01900593	0.505896134	5396.117151	0	2.37E-04	2.26E-03	1.89E-04	6.11E-06	9.87E-05	5.66E-06	3.91E-05	8.52E-06
Los Angele	2021	Annual	LDA	0	0	0.001360336	0	12.8244621	4.44E-05	2.86E-04	6.97E-04	3.14E-05	9.87E-05	2.89E-05	3.91E-05	6.77E-06
Los Angele	2021	Annual	LDT1	0	0.002367225	0.064371193	686.6122934	0	8.36E-04	6.22E-03	5.54E-04	1.09E-05	9.87E-05	1.01E-05	3.91E-05	9.87E-06
Los Angele	2021	Annual	LDT1	0	0	6.72E-05	0	0.633898589	1.04E-04	5.06E-04	9.83E-04	8.33E-05	9.87E-05	7.66E-05	3.91E-05	6.92E-06
Los Angele	2021	Annual	T6 instate heavy	8.97E-05	0	0.007642128	0	72.09201393	2.20E-04	9.83E-04	4.42E-03	9.76E-05	3.14E-04	8.98E-05	1.30E-04	2.40E-05
Los Angele	2021	Annual	LDA/LDT1	0	0.021373155	0.571694903	6082.729444	13.45836069	2.95E-04	2.64E-03	2.26E-04	6.67E-06	9.87E-05	6.18E-06	3.91E-05	8.65E-06

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Area	CalYr	Season	Veh	SOX_IDLEX (Tons/day)	SOX_STREX (Tons/day)	SOX_TOTEX (Tons/day)	FUEL_GAS (1000 Gallons)	FUEL_DSL (1000 Gallons)	exhaust ROG lb/mile	exhaust CO lb/mile	exhaust NOx lb/mile	exhaust PM10 lb/mile	tire wear a PM10 lb/mile	exhaust PM2.5 lb/mile	tire wear a PM2.5 lb/mile	exhaust SOx lb/mile
Los Angele	2022	Annual	LDA	0	0.018983657	0.505308061	5389.844555	0	2.25E-04	2.16E-03	1.81E-04	6.28E-06	9.87E-05	5.82E-06	3.91E-05	8.52E-06
Los Angele	2022	Annual	LDA	0	0	0.00134577	0	12.68713929	3.95E-05	2.65E-04	6.70E-04	2.76E-05	9.87E-05	2.54E-05	3.91E-05	6.75E-06
Los Angele	2022	Annual	LDT1	0	0.002366862	0.064683405	689.9424853	0	7.90E-04	5.74E-03	5.11E-04	1.05E-05	9.87E-05	9.72E-06	3.91E-05	9.87E-06
Los Angele	2022	Annual	LDT1	0	0	6.67E-05	0	0.628878795	9.95E-05	4.88E-04	9.77E-04	8.03E-05	9.87E-05	7.39E-05	3.91E-05	6.91E-06
Los Angele	2022	Annual	T6 instate heavy	8.88E-05	0	0.007626657	0	71.9460663	2.33E-04	1.04E-03	3.14E-03	9.29E-05	3.14E-04	8.54E-05	1.30E-04	2.39E-05
Los Angele	2022	Annual	LDA/LDT1	0	0.021350519	0.571403942	6079.78704	13.31601808	2.81E-04	2.51E-03	2.15E-04	6.77E-06	9.87E-05	6.28E-06	3.91E-05	8.65E-06

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Los Angele	2019	Annual	LDA	3.09E-04
Los Angele	2019	Annual	LDA	2.59E-04
Los Angele	2019	Annual	LDT1	3.79E-04
Los Angele	2019	Annual	LDT1	2.68E-04
Los Angele	2019	Annual	T6 instate heavy	1.16E-03
Los Angele	2019	Annual	LDA/LDT1	3.16E-04

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 ton/mile

Los Angele	2020	Annual	LDA	2.96E-04
Los Angele	2020	Annual	LDA	2.49E-04
Los Angele	2020	Annual	LDT1	3.64E-04
Los Angele	2020	Annual	LDT1	2.56E-04
Los Angele	2020	Annual	T6 instate heavy	1.13E-03
Los Angele	2020	Annual	LDA/LDT1	3.02E-04

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 ton/mile

Los Angele	2021	Annual	LDA	2.90E-04
Los Angele	2021	Annual	LDA	2.45E-04
Los Angele	2021	Annual	LDT1	3.59E-04
Los Angele	2021	Annual	LDT1	2.53E-04
Los Angele	2021	Annual	T6 instate heavy	1.13E-03
Los Angele	2021	Annual	LDA/LDT1	2.97E-04

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 ton/mile

Los Angele	2022	Annual	LDA	2.84E-04
Los Angele	2022	Annual	LDA	2.42E-04
Los Angele	2022	Annual	LDT1	3.53E-04
Los Angele	2022	Annual	LDT1	2.51E-04
Los Angele	2022	Annual	T6 instate heavy	1.13E-03
Los Angele	2022	Annual	LDA/LDT1	2.91E-04

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Area	CalYr	Season	Veh	Fuel	MdYr	Speed (Miles/hr)	Pop (Vehicles)	VMT (Miles/day)	Trips (Trips/day)	ROG_RUNEX (Tons/day)	ROG_IDLEX (Tons/day)	ROG_STREX (Tons/day)	ROG_TOTEX (Tons/day)
Los Angele	2023	Annual	LDA	GAS	AllMYr	AllSpeeds	3589516.331	1.19E+08	2.26E+07	1.902484288	0	1.957394544	3.859878832
Los Angele	2023	Annual	LDA	DSL	AllMYr	AllSpeeds	12867.56528	395616.5171	79393.1482	0.006911958	0	0	0.006911958
Los Angele	2023	Annual	LDT1	GAS	AllMYr	AllSpeeds	394680.5366	1.32E+07	2373441.668	0.650488963	0	0.591295332	1.241784295
Los Angele	2023	Annual	LDT1	DSL	AllMYr	AllSpeeds	586.608603	19387.19475	3393.565927	8.89E-04	0	0	8.89E-04
Los Angele	2023	Annual	T6 instate heavy	DSL	AllMYr	AllSpeeds	11144.24544	636570.279	0	0.062067437	0.002578603	0	0.06464604
Los Angele	2023	Annual	LDA/LDT1	GAS&DSL	AllMYr	AllSpeeds	3997651.041	132214336.6	25073585.72	2.560774393	0	2.548689876	5.109464269

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Area	CalYr	Season	Veh	Fuel	MdYr	Speed (Miles/hr)	Pop (Vehicles)	VMT (Miles/day)	Trips (Trips/day)	ROG_RUNEX (Tons/day)	ROG_IDLEX (Tons/day)	ROG_STREX (Tons/day)	ROG_TOTEX (Tons/day)
Los Angele	2024	Annual	LDA	GAS	AllMYr	AllSpeeds	3591486.385	1.19E+08	2.26E+07	1.821490492	0	1.838692439	3.660182931
Los Angele	2024	Annual	LDA	DSL	AllMYr	AllSpeeds	12874.62846	393938.1249	79586.46724	0.005980748	0	0	0.005980748
Los Angele	2024	Annual	LDT1	GAS	AllMYr	AllSpeeds	396649.9834	1.32E+07	2384983.675	0.607625245	0	0.545079377	1.152704622
Los Angele	2024	Annual	LDT1	DSL	AllMYr	AllSpeeds	589.535813	19592.7736	3435.614494	8.19E-04	0	0	8.19E-04
Los Angele	2024	Annual	T6 instate heavy	DSL	AllMYr	AllSpeeds	11076.4441	639644.8768	0	0.064161679	0.002562915	0	0.066724594
Los Angele	2024	Annual	LDA/LDT1	GAS&DSL	AllMYr	AllSpeeds	4001600.533	132329247.5	25096466.79	2.435915971	0	2.383771816	4.819687787

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Area	CalYr	Season	Veh	Fuel	MdYr	Speed (Miles/hr)	Pop (Vehicles)	VMT (Miles/day)	Trips (Trips/day)	ROG_RUNEX (Tons/day)	ROG_IDLEX (Tons/day)	ROG_STREX (Tons/day)	ROG_TOTEX (Tons/day)
Los Angele	2025	Annual	LDA	GAS	AllMYr	AllSpeeds	3593458.432	1.19E+08	2.26E+07	1.765606562	0	1.7578077	3.523414262
Los Angele	2025	Annual	LDA	DSL	AllMYr	AllSpeeds	12881.69662	392528.0442	79718.58049	0.005353777	0	0	0.005353777
Los Angele	2025	Annual	LDT1	GAS	AllMYr	AllSpeeds	398629.268	1.33E+07	2396674.753	0.559055844	0	0.502597453	1.061653297
Los Angele	2025	Annual	LDT1	DSL	AllMYr	AllSpeeds	592.477637	19908.68417	3489.504185	7.23E-04	0	0	7.23E-04
Los Angele	2025	Annual	T6 instate heavy	DSL	AllMYr	AllSpeeds	11091.34154	644898.3828	0	0.065504392	0.002566362	0	0.068070755
Los Angele	2025	Annual	LDA/LDT1	GAS&DSL	AllMYr	AllSpeeds	4005561.874	132420777.6	25115884.28	2.330739535	0	2.260405153	4.591144689

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Area	CalYr	Season	Veh	Fuel	MdYr	Speed (Miles/hr)	Pop (Vehicles)	VMT (Miles/day)	Trips (Trips/day)	ROG_RUNEX (Tons/day)	ROG_IDLEX (Tons/day)	ROG_STREX (Tons/day)	ROG_TOTEX (Tons/day)
Los Angele	2026	Annual	LDA	GAS	AllMYr	AllSpeeds	3594974.473	1.19E+08	2.26E+07	1.720692842	0	1.693761025	3.414453867
Los Angele	2026	Annual	LDA	DSL	AllMYr	AllSpeeds	12887.1329	391957.5306	79831.41901	0.004807799	0	0	0.004807799

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Area	CalYr	Season	Veh	ROG_DIURN (Tons/day)	ROG_HTSK (Tons/day)	ROG_RUNLS (Tons/day)	ROG_RESTL (Tons/day)	ROG_TOTAL (Tons/day)	TOG_RUNEX (Tons/day)	TOG_IDLEX (Tons/day)	TOG_STREX (Tons/day)	TOG_TOTEX (Tons/day)
Los Angele	2023	Annual	LDA	0.865443434	2.098239716	5.06113882	0.822323641	12.70702444	3.23415588	0	2.08993136	5.32408724
Los Angele	2023	Annual	LDA	0	0	0	0	0.006911958	0.007868804	0	0	0.007868804
Los Angele	2023	Annual	LDT1	0.364109637	0.694521326	2.296218209	0.306277405	4.902910872	0.950444658	0	0.631323478	1.581768136
Los Angele	2023	Annual	LDT1	0	0	0	0	8.89E-04	0.001012278	0	0	0.001012278
Los Angele	2023	Annual	T6 instate heavy	0	0	0	0	0.06464604	0.070659052	0.002935544	0	0.073594596
Los Angele	2023	Annual	LDA/LDT1	1.22955307	2.792761042	7.357357029	1.128601046	17.61773646	4.19348162	0	2.721254838	6.914736458

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Area	CalYr	Season	Veh	ROG_DIURN (Tons/day)	ROG_HTSK (Tons/day)	ROG_RUNLS (Tons/day)	ROG_RESTL (Tons/day)	ROG_TOTAL (Tons/day)	TOG_RUNEX (Tons/day)	TOG_IDLEX (Tons/day)	TOG_STREX (Tons/day)	TOG_TOTEX (Tons/day)
Los Angele	2024	Annual	LDA	0.814771789	2.003768256	4.874316407	0.778879521	12.1319189	3.141828197	0	1.963156476	5.104984673
Los Angele	2024	Annual	LDA	0	0	0	0	0.005980748	0.006808683	0	0	0.006808683
Los Angele	2024	Annual	LDT1	0.346215394	0.665521653	2.18769117	0.294522536	4.646655374	0.895668018	0	0.581977772	1.477645789
Los Angele	2024	Annual	LDT1	0	0	0	0	8.19E-04	9.33E-04	0	0	9.33E-04
Los Angele	2024	Annual	T6 instate heavy	0	0	0	0	0.066724594	0.073043188	0.002917684	0	0.075960872
Los Angele	2024	Annual	LDA/LDT1	1.160987183	2.669289909	7.062007577	1.073402058	16.78537451	4.04523783	0	2.545134248	6.590372077

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Area	CalYr	Season	Veh	ROG_DIURN (Tons/day)	ROG_HTSK (Tons/day)	ROG_RUNLS (Tons/day)	ROG_RESTL (Tons/day)	ROG_TOTAL (Tons/day)	TOG_RUNEX (Tons/day)	TOG_IDLEX (Tons/day)	TOG_STREX (Tons/day)	TOG_TOTEX (Tons/day)
Los Angele	2025	Annual	LDA	0.781407352	1.925407712	4.759078456	0.748957637	11.73826542	3.066160779	0	1.876796575	4.942957354
Los Angele	2025	Annual	LDA	0	0	0	0	0.005353777	0.006094919	0	0	0.006094919
Los Angele	2025	Annual	LDT1	0.328396255	0.635656067	2.080687971	0.282610839	4.38900443	0.833458884	0	0.536619087	1.370077971
Los Angele	2025	Annual	LDT1	0	0	0	0	7.23E-04	8.23E-04	0	0	8.23E-04
Los Angele	2025	Annual	T6 instate heavy	0	0	0	0	0.068070755	0.074571764	0.002921608	0	0.077493372
Los Angele	2025	Annual	LDA/LDT1	1.109803608	2.561063779	6.839766427	1.031568477	16.13334698	3.906538072	0	2.413415662	6.319953734

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Area	CalYr	Season	Veh	ROG_DIURN (Tons/day)	ROG_HTSK (Tons/day)	ROG_RUNLS (Tons/day)	ROG_RESTL (Tons/day)	ROG_TOTAL (Tons/day)	TOG_RUNEX (Tons/day)	TOG_IDLEX (Tons/day)	TOG_STREX (Tons/day)	TOG_TOTEX (Tons/day)
Los Angele	2026	Annual	LDA	0.750723292	1.856578382	4.659605797	0.720991772	11.40235311	3.004915852	0	1.808414393	4.813330245
Los Angele	2026	Annual	LDA	0	0	0	0	0.004807799	0.005473359	0	0	0.005473359

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Area	CalYr	Season	Veh	TOG_DIURN (Tons/day)	TOG_HTSK (Tons/day)	TOG_RUNLS (Tons/day)	TOG_RESTL (Tons/day)	TOG_TOTAL (Tons/day)	CO_RUNEX (Tons/day)	CO_IDLEX (Tons/day)	CO_STREX (Tons/day)	CO_TOTEX (Tons/day)	
Los Angele	2023	Annual	LDA	0.865443434	2.098239716	5.06113882	0.822323641	14.17123285	93.56068364		0	28.9846599	122.5453435
Los Angele	2023	Annual	LDA	0	0	0	0	0.007868804	0.048942566		0	0	0.048942566
Los Angele	2023	Annual	LDT1	0.364109637	0.694521326	2.296218209	0.306277405	5.242894712	26.81618065		0	8.021705607	34.83788626
Los Angele	2023	Annual	LDT1	0	0	0	0	0.001012278	0.004475525		0	0	0.004475525
Los Angele	2023	Annual	T6 instate heavy	0	0	0	0	0.073594596	0.261175417	0.030492155		0	0.291667572
Los Angele	2023	Annual	LDA/LDT1	1.22955307	2.792761042	7.357357029	1.128601046	19.42300865	120.4302824		0	37.00636551	157.4366479

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Area	CalYr	Season	Veh	TOG_DIURN (Tons/day)	TOG_HTSK (Tons/day)	TOG_RUNLS (Tons/day)	TOG_RESTL (Tons/day)	TOG_TOTAL (Tons/day)	CO_RUNEX (Tons/day)	CO_IDLEX (Tons/day)	CO_STREX (Tons/day)	CO_TOTEX (Tons/day)	
Los Angele	2024	Annual	LDA	0.814771789	2.003768256	4.874316407	0.778879521	13.57672065	90.7790984		0	27.4842913	118.2633897
Los Angele	2024	Annual	LDA	0	0	0	0	0.006808683	0.045437898		0	0	0.045437898
Los Angele	2024	Annual	LDT1	0.346215394	0.665521653	2.18769117	0.294522536	4.971596542	25.13733812		0	7.421163593	32.55850172
Los Angele	2024	Annual	LDT1	0	0	0	0	9.33E-04	0.004258674		0	0	0.004258674
Los Angele	2024	Annual	T6 instate heavy	0	0	0	0	0.075960872	0.267106039	0.030306641		0	0.29741268
Los Angele	2024	Annual	LDA/LDT1	1.160987183	2.669289909	7.062007577	1.073402058	18.5560588	115.9661331		0	34.90545489	150.871588

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Area	CalYr	Season	Veh	TOG_DIURN (Tons/day)	TOG_HTSK (Tons/day)	TOG_RUNLS (Tons/day)	TOG_RESTL (Tons/day)	TOG_TOTAL (Tons/day)	CO_RUNEX (Tons/day)	CO_IDLEX (Tons/day)	CO_STREX (Tons/day)	CO_TOTEX (Tons/day)	
Los Angele	2025	Annual	LDA	0.781407352	1.925407712	4.759078456	0.748957637	13.15780851	88.64145887		0	26.4139687	115.0554276
Los Angele	2025	Annual	LDA	0	0	0	0	0.006094919	0.042379556		0	0	0.042379556
Los Angele	2025	Annual	LDT1	0.328396255	0.635656067	2.080687971	0.282610839	4.697429104	23.45204551		0	6.873194339	30.32523984
Los Angele	2025	Annual	LDT1	0	0	0	0	8.23E-04	0.00391621		0	0	0.00391621
Los Angele	2025	Annual	T6 instate heavy	0	0	0	0	0.077493372	0.272695774	0.030347403		0	0.303043177
Los Angele	2025	Annual	LDA/LDT1	1.109803608	2.561063779	6.839766427	1.031568477	17.86215602	112.1398001		0	33.28716304	145.4269632

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Area	CalYr	Season	Veh	TOG_DIURN (Tons/day)	TOG_HTSK (Tons/day)	TOG_RUNLS (Tons/day)	TOG_RESTL (Tons/day)	TOG_TOTAL (Tons/day)	CO_RUNEX (Tons/day)	CO_IDLEX (Tons/day)	CO_STREX (Tons/day)	CO_TOTEX (Tons/day)	
Los Angele	2026	Annual	LDA	0.750723292	1.856578382	4.659605797	0.720991772	12.80122949	86.94221531		0	25.5788155	112.5210308
Los Angele	2026	Annual	LDA	0	0	0	0	0.005473359	0.039782599		0	0	0.039782599

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Area	CalYr	Season	Veh	NOX_RUNEX (Tons/day)	NOX_IDLEX (Tons/day)	NOX_STREX (Tons/day)	NOX_TOTEX (Tons/day)	CO2_RUNEX (Tons/day)	CO2_IDLEX (Tons/day)	CO2_STREX (Tons/day)	CO2_TOTEX (Tons/day)	CO2_RUNEX(Pavh) (Tons/day)
Los Angele	2023	Annual	LDA	8.569283663	0	1.747287549	10.31657121	48543.96391	0	1848.145832	50392.10974	31883.35727
Los Angele	2023	Annual	LDA	0.127700263	0	0	0.127700263	139.6822659	0	0	139.6822659	94.41928036
Los Angele	2023	Annual	LDT1	2.642978772	0	0.464310636	3.107289408	6228.274824	0	222.6813368	6450.956161	4420.996686
Los Angele	2023	Annual	LDT1	0.0091332	0	0	0.0091332	6.994796733	0	0	6.994796733	4.786083756
Los Angele	2023	Annual	T6 instate heavy	0.70198794	0.046067388	0	0.748055329	784.8828966	9.161579092	0	794.0444757	706.394607
Los Angele	2023	Annual	LDA/LDT1	11.3490959	0	2.211598185	13.56069408	54918.91579	0	2070.827169	56989.74296	36403.55932

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Area	CalYr	Season	Veh	NOX_RUNEX (Tons/day)	NOX_IDLEX (Tons/day)	NOX_STREX (Tons/day)	NOX_TOTEX (Tons/day)	CO2_RUNEX (Tons/day)	CO2_IDLEX (Tons/day)	CO2_STREX (Tons/day)	CO2_TOTEX (Tons/day)	CO2_RUNEX(Pavh) (Tons/day)
Los Angele	2024	Annual	LDA	8.334414578	0	1.663024108	9.997438686	48907.95423	0	1849.398782	50757.35301	31589.04996
Los Angele	2024	Annual	LDA	0.122351468	0	0	0.122351468	138.8398426	0	0	138.8398426	92.74439208
Los Angele	2024	Annual	LDT1	2.462506889	0	0.431917913	2.894424802	6311.272501	0	224.0629147	6535.335416	4412.277246
Los Angele	2024	Annual	LDT1	0.00876547	0	0	0.00876547	7.038490407	0	0	7.038490407	4.747168279
Los Angele	2024	Annual	T6 instate heavy	0.726979052	0.045787116	0	0.772766167	790.6364876	9.105840247	0	799.7423278	711.5728388
Los Angele	2024	Annual	LDA/LDT1	10.9280384	0	2.094942021	13.02298043	55365.10506	0	2073.461697	57438.56676	36098.81877

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Area	CalYr	Season	Veh	NOX_RUNEX (Tons/day)	NOX_IDLEX (Tons/day)	NOX_STREX (Tons/day)	NOX_TOTEX (Tons/day)	CO2_RUNEX (Tons/day)	CO2_IDLEX (Tons/day)	CO2_STREX (Tons/day)	CO2_TOTEX (Tons/day)	CO2_RUNEX(Pavh) (Tons/day)
Los Angele	2025	Annual	LDA	8.160270338	0	1.59955349	9.759823828	48914.79259	0	1850.455342	50765.24793	31128.75751
Los Angele	2025	Annual	LDA	0.11775376	0	0	0.11775376	138.1594228	0	0	138.1594228	91.23141723
Los Angele	2025	Annual	LDT1	2.288832713	0	0.402626317	2.691459031	6347.700255	0	225.4333043	6573.13356	4375.092158
Los Angele	2025	Annual	LDT1	0.008318474	0	0	0.008318474	7.118304237	0	0	7.118304237	4.720248647
Los Angele	2025	Annual	T6 instate heavy	0.746692467	0.045848698	0	0.792541165	797.1363359	9.118087297	0	806.2544232	717.4227023
Los Angele	2025	Annual	LDA/LDT1	10.57517529	0	2.002179807	12.57735509	55407.77057	0	2075.888646	57483.65922	35599.80133

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Area	CalYr	Season	Veh	NOX_RUNEX (Tons/day)	NOX_IDLEX (Tons/day)	NOX_STREX (Tons/day)	NOX_TOTEX (Tons/day)	CO2_RUNEX (Tons/day)	CO2_IDLEX (Tons/day)	CO2_STREX (Tons/day)	CO2_TOTEX (Tons/day)	CO2_RUNEX(Pavh) (Tons/day)
Los Angele	2026	Annual	LDA	8.018607836	0	1.549973992	9.568581828	48927.65084	0	1851.412754	50779.0636	30736.68703
Los Angele	2026	Annual	LDA	0.113525191	0	0	0.113525191	137.7876328	0	0	137.7876328	89.92457153

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Area	CalYr	Season	Veh	CO2_IDLEX(Pavle (Tons/day)	CO2_STREX(Pavk (Tons/day)	CO2_TOTEX(Pavk (Tons/day)	PM10_RUNEX (Tons/day)	PM10_IDLEX (Tons/day)	PM10_STREX (Tons/day)	PM10_TOTEX (Tons/day)	PM10_PMTW (Tons/day)	PM10_PMBW (Tons/day)
Los Angele	2023	Annual	LDA	0	1245.719737	33129.07701	0.28409689	0	0.098311509	0.382408399	1.046106995	4.805554559
Los Angele	2023	Annual	LDA	0	0	94.41928036	0.004736859	0	0	0.004736859	0.003488741	0.016026405
Los Angele	2023	Annual	LDT1	0	160.6563494	4581.653035	0.053952646	0	0.012363785	0.066316431	0.11616425	0.533629612
Los Angele	2023	Annual	LDT1	0	0	4.786083756	7.16E-04	0	0	7.16E-04	1.71E-04	7.85E-04
Los Angele	2023	Annual	T6 instate heavy	8.245421182	0	714.6400282	0.02785465	1.08E-04	0	0.027962924	0.008420383	0.091459398
Los Angele	2023	Annual	LDA/LDT1	0	1406.376086	37809.93541	0.343502105	0	0.110675294	0.454177399	1.165930952	5.35599595

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Area	CalYr	Season	Veh	CO2_IDLEX(Pavle (Tons/day)	CO2_STREX(Pavk (Tons/day)	CO2_TOTEX(Pavk (Tons/day)	PM10_RUNEX (Tons/day)	PM10_IDLEX (Tons/day)	PM10_STREX (Tons/day)	PM10_TOTEX (Tons/day)	PM10_PMTW (Tons/day)	PM10_PMBW (Tons/day)
Los Angele	2024	Annual	LDA	0	1222.69531	32811.74527	0.293296268	0	0.102787069	0.396083338	1.046473628	4.807238871
Los Angele	2024	Annual	LDA	0	0	92.74439208	0.004038391	0	0	0.004038391	0.00347394	0.015958413
Los Angele	2024	Annual	LDT1	0	159.0367066	4571.313953	0.052577401	0	0.012388598	0.064965999	0.116823926	0.536659995
Los Angele	2024	Annual	LDT1	0	0	4.747168279	6.49E-04	0	0	6.49E-04	1.73E-04	7.94E-04
Los Angele	2024	Annual	T6 instate heavy	8.195256223	0	719.768095	0.028414088	1.08E-04	0	0.028521703	0.008461053	0.091901142
Los Angele	2024	Annual	LDA/LDT1	0	1381.732016	37480.55079	0.35056089	0	0.115175667	0.465736557	1.166944272	5.360650982

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Area	CalYr	Season	Veh	CO2_IDLEX(Pavle (Tons/day)	CO2_STREX(Pavk (Tons/day)	CO2_TOTEX(Pavk (Tons/day)	PM10_RUNEX (Tons/day)	PM10_IDLEX (Tons/day)	PM10_STREX (Tons/day)	PM10_TOTEX (Tons/day)	PM10_PMTW (Tons/day)	PM10_PMBW (Tons/day)
Los Angele	2025	Annual	LDA	0	1202.181147	32330.93866	0.299512752	0	0.107369903	0.406882654	1.046655845	4.80807569
Los Angele	2025	Annual	LDA	0	0	91.23141723	0.003561119	0	0	0.003561119	0.003461505	0.015901291
Los Angele	2025	Annual	LDT1	0	157.5554724	4532.64763	0.050684762	0	0.012446453	0.063131215	0.117458516	0.539575149
Los Angele	2025	Annual	LDT1	0	0	4.720248647	5.61E-04	0	0	5.61E-04	1.76E-04	8.06E-04
Los Angele	2025	Annual	T6 instate heavy	8.206278567	0	725.6289808	0.029115966	1.08E-04	0	0.029223725	0.008530545	0.09265594
Los Angele	2025	Annual	LDA/LDT1	0	1359.736619	36959.53795	0.354320028	0	0.119816355	0.474136383	1.16775143	5.364358629

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Area	CalYr	Season	Veh	CO2_IDLEX(Pavle (Tons/day)	CO2_STREX(Pavk (Tons/day)	CO2_TOTEX(Pavk (Tons/day)	PM10_RUNEX (Tons/day)	PM10_IDLEX (Tons/day)	PM10_STREX (Tons/day)	PM10_TOTEX (Tons/day)	PM10_PMTW (Tons/day)	PM10_PMBW (Tons/day)
Los Angele	2026	Annual	LDA	0	1184.182843	31920.86988	0.306466713	0	0.111956968	0.41842368	1.046884856	4.809127878
Los Angele	2026	Annual	LDA	0	0	89.92457153	0.00314245	0	0	0.00314245	0.003456474	0.01587818



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Los Angele	2023	Annual	LDA	6.234069953	0.263547918	0	0.0912052	0.354753118	0.261526741	2.059523407	2.675803267	0.486115256
Los Angele	2023	Annual	LDA	0.024252005	0.004357911	0	0	0.004357911	8.72E-04	0.006868459	0.012098555	0.001333493
Los Angele	2023	Annual	LDT1	0.716110294	0.050048913	0	0.011469843	0.061518757	0.029041063	0.228698389	0.319258208	0.062617467
Los Angele	2023	Annual	LDT1	0.00167205	6.58E-04	0	0	6.58E-04	4.27E-05	3.37E-04	0.001037783	6.68E-05
Los Angele	2023	Annual	T6 instate heavy	0.127842705	0.025626278	9.96E-05	0	0.02572589	0.002105096	0.039196885	0.067027871	0.00748815
Los Angele	2023	Annual	LDA/LDT1	6.976104301	0.318613195	0	0.102675044	0.421288239	0.29148273	2.295426844	3.008197813	0.550132994

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Area	CalYr	Season	Veh	PM10_TOTAL (Tons/day)	PM2_5_RUNEX (Tons/day)	PM2_5_IDLEX (Tons/day)	PM2_5_STREX (Tons/day)	PM2_5_TOTEX (Tons/day)	PM2_5_PMTW (Tons/day)	PM2_5_PMBW (Tons/day)	PM2_5_TOTAL (Tons/day)	SOX_RUNEX (Tons/day)
Los Angele	2024	Annual	LDA	6.249795836	0.272130557	0	0.09536944	0.367499998	0.261618403	2.060244997	2.689363398	0.489702161
Los Angele	2024	Annual	LDA	0.023470744	0.00371532	0	0	0.00371532	8.68E-04	0.006839319	0.011423124	0.001325451
Los Angele	2024	Annual	LDT1	0.71844992	0.048778389	0	0.01149379	0.060272179	0.029205982	0.229997123	0.319475284	0.063417984
Los Angele	2024	Annual	LDT1	0.00161531	5.97E-04	0	0	5.97E-04	4.32E-05	3.40E-04	9.80E-04	6.72E-05
Los Angele	2024	Annual	T6 instate heavy	0.128883898	0.026140961	9.90E-05	0	0.026239967	0.002115263	0.039386204	0.067741433	0.007543042
Los Angele	2024	Annual	LDA/LDT1	6.99333181	0.325221189	0	0.10686323	0.432084419	0.291736065	2.297421598	3.021242082	0.554512789

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Area	CalYr	Season	Veh	PM10_TOTAL (Tons/day)	PM2_5_RUNEX (Tons/day)	PM2_5_IDLEX (Tons/day)	PM2_5_STREX (Tons/day)	PM2_5_TOTEX (Tons/day)	PM2_5_PMTW (Tons/day)	PM2_5_PMBW (Tons/day)	PM2_5_TOTAL (Tons/day)	SOX_RUNEX (Tons/day)
Los Angele	2025	Annual	LDA	6.261614189	0.277898429	0	0.099621554	0.377519983	0.261663959	2.060603717	2.699787659	0.489734673
Los Angele	2025	Annual	LDA	0.022923915	0.003276229	0	0	0.003276229	8.65E-04	0.006814838	0.010956444	0.001318955
Los Angele	2025	Annual	LDT1	0.720164879	0.047027097	0	0.011548255	0.058575351	0.029364629	0.231246471	0.319186451	0.063753335
Los Angele	2025	Annual	LDT1	0.001543459	5.16E-04	0	0	5.16E-04	4.39E-05	3.46E-04	9.06E-04	6.80E-05
Los Angele	2025	Annual	T6 instate heavy	0.130410211	0.026786689	9.91E-05	0	0.026885827	0.002132636	0.039709689	0.068728153	0.007605053
Los Angele	2025	Annual	LDA/LDT1	7.006246442	0.328718239	0	0.111169809	0.439888047	0.291937855	2.299010669	3.030836571	0.55487492

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Area	CalYr	Season	Veh	PM10_TOTAL (Tons/day)	PM2_5_RUNEX (Tons/day)	PM2_5_IDLEX (Tons/day)	PM2_5_STREX (Tons/day)	PM2_5_TOTEX (Tons/day)	PM2_5_PMTW (Tons/day)	PM2_5_PMBW (Tons/day)	PM2_5_TOTAL (Tons/day)	SOX_RUNEX (Tons/day)
Los Angele	2026	Annual	LDA	6.274436415	0.284350558	0	0.103877596	0.388228154	0.261721213	2.061054752	2.711004119	0.489834579
Los Angele	2026	Annual	LDA	0.022477103	0.002891054	0	0	0.002891054	8.64E-04	0.006804933	0.010560106	0.001315406

EMFAC 2011

2023 Estimated Annual Emissions

EMFAC 2011 Vehicle Categories

Los Angeles COUNTY

South Coast AIR BASIN

South Coast AQMD

Area	CalYr	Season	Veh	SOX_IDLEX (Tons/day)	SOX_STREX (Tons/day)	SOX_TOTEX (Tons/day)	FUEL_GAS (1000 Gallons)	FUEL_DSL (1000 Gallons)	exhaust ROG lb/mile	exhaust CO lb/mile	exhaust NOx lb/mile	exhaust PM10 lb/mile	tire wear a PM10 lb/mile	exhaust PM2.5 lb/mile	tire wear a PM2.5 lb/mile	exhaust SOx lb/mile
Los Angele	2023	Annual	LDA	0	0.018964584	0.505079841	5387.41056	0	2.14E-04	2.07E-03	1.74E-04	6.45E-06	9.87E-05	5.98E-06	3.91E-05	8.52E-06
Los Angele	2023	Annual	LDA	0	0	0.001333493	0	12.57140407	3.49E-05	2.47E-04	6.46E-04	2.39E-05	9.87E-05	2.20E-05	3.91E-05	6.74E-06
Los Angele	2023	Annual	LDT1	0	0.002367364	0.064984831	693.1576271	0	7.44E-04	5.29E-03	4.72E-04	1.01E-05	9.87E-05	9.34E-06	3.91E-05	9.87E-06
Los Angele	2023	Annual	LDT1	0	0	6.68E-05	0	0.629531739	9.17E-05	4.62E-04	9.42E-04	7.38E-05	9.87E-05	6.79E-05	3.91E-05	6.89E-06
Los Angele	2023	Annual	T6 instate heavy	8.74E-05	0	0.007575556	0	71.46400282	2.03E-04	9.16E-04	2.35E-03	8.79E-05	3.14E-04	8.08E-05	1.30E-04	2.38E-05
Los Angele	2023	Annual	LDA/LDT1	0	0.021331948	0.571464942	6080.568187	13.2009358	2.67E-04	2.38E-03	2.05E-04	6.87E-06	9.87E-05	6.37E-06	3.91E-05	8.64E-06

EMFAC 2011

2024 Estimated Annual Emissions

EMFAC 2011 Vehicle Categories

Los Angeles COUNTY

South Coast AIR BASIN

South Coast AQMD

Area	CalYr	Season	Veh	SOX_IDLEX (Tons/day)	SOX_STREX (Tons/day)	SOX_TOTEX (Tons/day)	FUEL_GAS (1000 Gallons)	FUEL_DSL (1000 Gallons)	exhaust ROG lb/mile	exhaust CO lb/mile	exhaust NOx lb/mile	exhaust PM10 lb/mile	tire wear a PM10 lb/mile	exhaust PM2.5 lb/mile	tire wear a PM2.5 lb/mile	exhaust SOx lb/mile
Los Angele	2024	Annual	LDA	0	0.018949784	0.508651944	5425.511452	0	2.04E-04	1.99E-03	1.68E-04	6.68E-06	9.87E-05	6.19E-06	3.91E-05	8.57E-06
Los Angele	2024	Annual	LDA	0	0	0.001325451	0	12.4955865	3.04E-05	2.31E-04	6.21E-04	2.05E-05	9.87E-05	1.89E-05	3.91E-05	6.73E-06
Los Angele	2024	Annual	LDT1	0	0.002370266	0.065788249	701.7272946	0	7.02E-04	4.92E-03	4.37E-04	9.81E-06	9.87E-05	9.10E-06	3.91E-05	9.93E-06
Los Angele	2024	Annual	LDT1	0	0	6.72E-05	0	0.633464175	8.37E-05	4.35E-04	8.95E-04	6.62E-05	9.87E-05	6.09E-05	3.91E-05	6.86E-06
Los Angele	2024	Annual	T6 instate heavy	8.69E-05	0	0.007629916	0	71.9768095	2.09E-04	9.30E-04	2.42E-03	8.92E-05	3.14E-04	8.20E-05	1.30E-04	2.39E-05
Los Angele	2024	Annual	LDA/LDT1	0	0.02132005	0.575832839	6127.238747	13.12905067	2.54E-04	2.28E-03	1.97E-04	7.04E-06	9.87E-05	6.53E-06	3.91E-05	8.70E-06

EMFAC 2011

2025 Estimated Annual Emissions

EMFAC 2011 Vehicle Categories

Los Angeles COUNTY

South Coast AIR BASIN

South Coast AQMD

Area	CalYr	Season	Veh	SOX_IDLEX (Tons/day)	SOX_STREX (Tons/day)	SOX_TOTEX (Tons/day)	FUEL_GAS (1000 Gallons)	FUEL_DSL (1000 Gallons)	exhaust ROG lb/mile	exhaust CO lb/mile	exhaust NOx lb/mile	exhaust PM10 lb/mile	tire wear a PM10 lb/mile	exhaust PM2.5 lb/mile	tire wear a PM2.5 lb/mile	exhaust SOx lb/mile
Los Angele	2025	Annual	LDA	0	0.018940972	0.508675645	5425.764266	0	1.98E-04	1.94E-03	1.64E-04	6.86E-06	9.87E-05	6.36E-06	3.91E-05	8.57E-06
Los Angele	2025	Annual	LDA	0	0	0.001318955	0	12.43434877	2.73E-05	2.16E-04	6.00E-04	1.81E-05	9.87E-05	1.67E-05	3.91E-05	6.72E-06
Los Angele	2025	Annual	LDT1	0	0.002374	0.066127335	705.3440973	0	6.59E-04	4.55E-03	4.04E-04	9.48E-06	9.87E-05	8.80E-06	3.91E-05	9.93E-06
Los Angele	2025	Annual	LDT1	0	0	6.80E-05	0	0.640647409	7.27E-05	3.93E-04	8.36E-04	5.64E-05	9.87E-05	5.19E-05	3.91E-05	6.83E-06
Los Angele	2025	Annual	T6 instate heavy	8.70E-05	0	0.007692044	0	72.56289808	2.11E-04	9.40E-04	2.46E-03	9.06E-05	3.14E-04	8.34E-05	1.30E-04	2.39E-05
Los Angele	2025	Annual	LDA/LDT1	0	0.021314972	0.576189892	6131.108363	13.07499618	2.44E-04	2.20E-03	1.90E-04	7.16E-06	9.87E-05	6.64E-06	3.91E-05	8.70E-06

EMFAC 2011

2026 Estimated Annual Emissions

EMFAC 2011 Vehicle Categories

Los Angeles COUNTY

South Coast AIR BASIN

South Coast AQMD

Area	CalYr	Season	Veh	SOX_IDLEX (Tons/day)	SOX_STREX (Tons/day)	SOX_TOTEX (Tons/day)	FUEL_GAS (1000 Gallons)	FUEL_DSL (1000 Gallons)	exhaust ROG lb/mile	exhaust CO lb/mile	exhaust NOx lb/mile	exhaust PM10 lb/mile	tire wear a PM10 lb/mile	exhaust PM2.5 lb/mile	tire wear a PM2.5 lb/mile	exhaust SOx lb/mile
Los Angele	2026	Annual	LDA	0	0.018935395	0.508769974	5426.770995	0	1.92E-04	1.90E-03	1.61E-04	7.05E-06	9.87E-05	6.54E-06	3.91E-05	8.57E-06
Los Angele	2026	Annual	LDA	0	0	0.001315406	0	12.40088726	2.45E-05	2.03E-04	5.79E-04	1.60E-05	9.87E-05	1.48E-05	3.91E-05	6.71E-06

EMFAC 2011

2023 Estimated Annual Emissions

EMFAC 2011 Vehicle Categories

Los Angeles COUNTY

South Coast AIR BASIN

South Coast AQMD

Area	CalYr	Season	Veh	exhaust CO2 ton/mile
Los Angele	2023	Annual	LDA	2.79E-04
Los Angele	2023	Annual	LDA	2.39E-04
Los Angele	2023	Annual	LDT1	3.48E-04
Los Angele	2023	Annual	LDT1	2.47E-04
Los Angele	2023	Annual	T6 instate heavy	1.12E-03
Los Angele	2023	Annual	LDA/LDT1	2.86E-04

EMFAC 2011

2024 Estimated Annual Emissions

EMFAC 2011 Vehicle Categories

Los Angeles COUNTY

South Coast AIR BASIN

South Coast AQMD

Area	CalYr	Season	Veh	exhaust CO2 ton/mile
Los Angele	2024	Annual	LDA	2.77E-04
Los Angele	2024	Annual	LDA	2.35E-04
Los Angele	2024	Annual	LDT1	3.45E-04
Los Angele	2024	Annual	LDT1	2.42E-04
Los Angele	2024	Annual	T6 instate heavy	1.13E-03
Los Angele	2024	Annual	LDA/LDT1	2.83E-04

EMFAC 2011

2025 Estimated Annual Emissions

EMFAC 2011 Vehicle Categories

Los Angeles COUNTY

South Coast AIR BASIN

South Coast AQMD

Area	CalYr	Season	Veh	exhaust CO2 ton/mile
Los Angele	2025	Annual	LDA	2.72E-04
Los Angele	2025	Annual	LDA	2.32E-04
Los Angele	2025	Annual	LDT1	3.40E-04
Los Angele	2025	Annual	LDT1	2.37E-04
Los Angele	2025	Annual	T6 instate heavy	1.13E-03
Los Angele	2025	Annual	LDA/LDT1	2.79E-04

EMFAC 2011

2026 Estimated Annual Emissions

EMFAC 2011 Vehicle Categories

Los Angeles COUNTY

South Coast AIR BASIN

South Coast AQMD

Area	CalYr	Season	Veh	exhaust CO2 ton/mile
Los Angele	2026	Annual	LDA	2.69E-04
Los Angele	2026	Annual	LDA	2.29E-04

Los Angele	2026 Annual	LDT1	GAS	AllMYr	AllSpeeds	400618.4327	1.34E+07	2408640.772	0.514154471	0	0.463332204	0.977486675
Los Angele	2026 Annual	LDT1	DSL	AllMYr	AllSpeeds	595.434107	20154.29487	3537.817011	6.47E-04	0	0	6.47E-04
Los Angele	2026 Annual	T6 instate heavy	DSL	AllMYr	AllSpeeds	11189.94084	652790.4413	0	0.066994879	0.002589177	0	0.069584055
Los Angele	2026 Annual	LDA/LDT1	GAS&DSL	AllMYr	AllSpeeds	4009075.473	132519328.9	25133664.69	2.24030252	0	2.157093229	4.397395749

**onsite transit**

unmitigated - used for worker vehicles during construction and operations and for delivery trucks during operation; for trucks during construction, CAAP is required as project condition.

EMFAC 2011

2011 Estimated Annual Emissions

EMFAC 2011 Vehicle Categories

Los Angeles COUNTY

South Coast AIR BASIN

South Coast AQMD

Area	CalYr	Season	Veh	Fuel	MdlYr	Speed (Miles/hr)	Pop (Vehicles)	VMT (Miles/day)	Trips (Trips/day)	ROG_RUNEX (Tons/day)	ROG_IDLEX (Tons/day)	ROG_STREX (Tons/day)	ROG_TOTEX (Tons/day)
Los Angele	2011 Annual	T6 instate heavy	DSL	AllMYr			5	0 693.098378		0 0.004164066	0	0	0

EMFAC 2011

2013 Estimated Annual Emissions

EMFAC 2011 Vehicle Categories

Los Angeles COUNTY

South Coast AIR BASIN

South Coast AQMD

Area	CalYr	Season	Veh	Fuel	MdlYr	Speed (Miles/hr)	Pop (Vehicles)	VMT (Miles/day)	Trips (Trips/day)	ROG_RUNEX (Tons/day)	ROG_IDLEX (Tons/day)	ROG_STREX (Tons/day)	ROG_TOTEX (Tons/day)
Los Angele	2013 Annual	T6 instate heavy	DSL	AllMYr			5	0 809.2207082		0 0.003545014	0	0	0

EMFAC 2011

2014 Estimated Annual Emissions

EMFAC 2011 Vehicle Categories

Los Angeles COUNTY

South Coast AIR BASIN

South Coast AQMD

Area	CalYr	Season	Veh	Fuel	MdlYr	Speed (Miles/hr)	Pop (Vehicles)	VMT (Miles/day)	Trips (Trips/day)	ROG_RUNEX (Tons/day)	ROG_IDLEX (Tons/day)	ROG_STREX (Tons/day)	ROG_TOTEX (Tons/day)
Los Angele	2014 Annual	T6 instate heavy	DSL	AllMYr			5	0 844.591924		0 0.002213503	0	0	0

EMFAC 2011

2015 Estimated Annual Emissions

EMFAC 2011 Vehicle Categories

Los Angeles COUNTY

South Coast AIR BASIN

South Coast AQMD

Area	CalYr	Season	Veh	Fuel	MdlYr	Speed (Miles/hr)	Pop (Vehicles)	VMT (Miles/day)	Trips (Trips/day)	ROG_RUNEX (Tons/day)	ROG_IDLEX (Tons/day)	ROG_STREX (Tons/day)	ROG_TOTEX (Tons/day)
Los Angele	2015 Annual	T6 instate heavy	DSL	AllMYr			5	0 915.2611706		0 0.001621393	0	0	0

EMFAC 2011

2016 Estimated Annual Emissions

EMFAC 2011 Vehicle Categories

Los Angeles COUNTY

South Coast AIR BASIN

South Coast AQMD

Area	CalYr	Season	Veh	Fuel	MdlYr	Speed	Pop	VMT	Trips	ROG_RUNEX	ROG_IDLEX	ROG_STREX	ROG_TOTEX
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Los Angele	2026 Annual	LDT1	0.310271417	0.605714266	1.975063674	0.270310703	4.138846736	0.775937672	0	0.494695912	1.270633585
Los Angele	2026 Annual	LDT1	0	0	0	0	6.47E-04	7.37E-04	0	0	7.37E-04
Los Angele	2026 Annual	T6 instate heavy	0	0	0	0	0.069584055	0.07626857	0.002947581	0	0.07921615
Los Angele	2026 Annual	LDA/LDT1	1.06099471	2.462292649	6.634669471	0.991302476	15.54665505	3.787063914	0	2.303110306	6.09017422

**onsite transit**

unmitigated - used for worker vehicles during const:

EMFAC 2011

2011 Estimated Annual Emissions

EMFAC 2011 Vehicle Categories

Los Angeles COUNTY

South Coast AIR BASIN

South Coast AQMD

Area	CalYr	Season	Veh	ROG_DIURN (Tons/day)	ROG_HTSK (Tons/day)	ROG_RUNLS (Tons/day)	ROG_RESTL (Tons/day)	ROG_TOTAL (Tons/day)	TOG_RUNEX (Tons/day)	TOG_IDLEX (Tons/day)	TOG_STREX (Tons/day)	TOG_TOTEX (Tons/day)
Los Angele	2011 Annual		T6 instate heavy	0	0	0	0	0	0.004740472		0	0

EMFAC 2011

2013 Estimated Annual Emissions

EMFAC 2011 Vehicle Categories

Los Angeles COUNTY

South Coast AIR BASIN

South Coast AQMD

Area	CalYr	Season	Veh	ROG_DIURN (Tons/day)	ROG_HTSK (Tons/day)	ROG_RUNLS (Tons/day)	ROG_RESTL (Tons/day)	ROG_TOTAL (Tons/day)	TOG_RUNEX (Tons/day)	TOG_IDLEX (Tons/day)	TOG_STREX (Tons/day)	TOG_TOTEX (Tons/day)
Los Angele	2013 Annual		T6 instate heavy	0	0	0	0	0	0.004035728		0	0

EMFAC 2011

2014 Estimated Annual Emissions

EMFAC 2011 Vehicle Categories

Los Angeles COUNTY

South Coast AIR BASIN

South Coast AQMD

Area	CalYr	Season	Veh	ROG_DIURN (Tons/day)	ROG_HTSK (Tons/day)	ROG_RUNLS (Tons/day)	ROG_RESTL (Tons/day)	ROG_TOTAL (Tons/day)	TOG_RUNEX (Tons/day)	TOG_IDLEX (Tons/day)	TOG_STREX (Tons/day)	TOG_TOTEX (Tons/day)
Los Angele	2014 Annual		T6 instate heavy	0	0	0	0	0	0.002519905		0	0

EMFAC 2011

2015 Estimated Annual Emissions

EMFAC 2011 Vehicle Categories

Los Angeles COUNTY

South Coast AIR BASIN

South Coast AQMD

Area	CalYr	Season	Veh	ROG_DIURN (Tons/day)	ROG_HTSK (Tons/day)	ROG_RUNLS (Tons/day)	ROG_RESTL (Tons/day)	ROG_TOTAL (Tons/day)	TOG_RUNEX (Tons/day)	TOG_IDLEX (Tons/day)	TOG_STREX (Tons/day)	TOG_TOTEX (Tons/day)
Los Angele	2015 Annual		T6 instate heavy	0	0	0	0	0	0.001845832		0	0

EMFAC 2011

2016 Estimated Annual Emissions

EMFAC 2011 Vehicle Categories

Los Angeles COUNTY

South Coast AIR BASIN

South Coast AQMD

Area	CalYr	Season	Veh	ROG_DIURN	ROG_HTSK	ROG_RUNLS	ROG_RESTL	ROG_TOTAL	TOG_RUNEX	TOG_IDLEX	TOG_STREX	TOG_TOTEX
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Los Angele	2026 Annual	LDT1	0.310271417	0.605714266	1.975063674	0.270310703	4.431993646	21.91328862	0	6.371541279	28.2848299
Los Angele	2026 Annual	LDT1	0	0	0	0	7.37E-04	0.003607718	0	0	0.003607718
Los Angele	2026 Annual	T6 instate heavy	0	0	0	0	0.07921615	0.278900692	0.030617184	0	0.309517876
Los Angele	2026 Annual	LDA/LDT1	1.06099471	2.462292649	6.634669471	0.991302476	17.23943352	108.8988943	0	31.95035678	140.849251

**onsite transit**

unmitigated - used for worker vehicles during const:

EMFAC 2011

2011 Estimated Annual Emissions

EMFAC 2011 Vehicle Categories

Los Angeles COUNTY

South Coast AIR BASIN

South Coast AQMD

Area	CalYr	Season	Veh	TOG_DIURN (Tons/day)	TOG_HTSK (Tons/day)	TOG_RUNLS (Tons/day)	TOG_RESTL (Tons/day)	TOG_TOTAL (Tons/day)	CO_RUNEX (Tons/day)	CO_IDLEX (Tons/day)	CO_STREX (Tons/day)	CO_TOTEX (Tons/day)
Los Angele	2011 Annual		T6 instate heavy	0	0	0	0	0	0.005449468		0	0

EMFAC 2011

2013 Estimated Annual Emissions

EMFAC 2011 Vehicle Categories

Los Angeles COUNTY

South Coast AIR BASIN

South Coast AQMD

Area	CalYr	Season	Veh	TOG_DIURN (Tons/day)	TOG_HTSK (Tons/day)	TOG_RUNLS (Tons/day)	TOG_RESTL (Tons/day)	TOG_TOTAL (Tons/day)	CO_RUNEX (Tons/day)	CO_IDLEX (Tons/day)	CO_STREX (Tons/day)	CO_TOTEX (Tons/day)
Los Angele	2013 Annual		T6 instate heavy	0	0	0	0	0	0.004809204		0	0

EMFAC 2011

2014 Estimated Annual Emissions

EMFAC 2011 Vehicle Categories

Los Angeles COUNTY

South Coast AIR BASIN

South Coast AQMD

Area	CalYr	Season	Veh	TOG_DIURN (Tons/day)	TOG_HTSK (Tons/day)	TOG_RUNLS (Tons/day)	TOG_RESTL (Tons/day)	TOG_TOTAL (Tons/day)	CO_RUNEX (Tons/day)	CO_IDLEX (Tons/day)	CO_STREX (Tons/day)	CO_TOTEX (Tons/day)
Los Angele	2014 Annual		T6 instate heavy	0	0	0	0	0	0.00303833		0	0

EMFAC 2011

2015 Estimated Annual Emissions

EMFAC 2011 Vehicle Categories

Los Angeles COUNTY

South Coast AIR BASIN

South Coast AQMD

Area	CalYr	Season	Veh	TOG_DIURN (Tons/day)	TOG_HTSK (Tons/day)	TOG_RUNLS (Tons/day)	TOG_RESTL (Tons/day)	TOG_TOTAL (Tons/day)	CO_RUNEX (Tons/day)	CO_IDLEX (Tons/day)	CO_STREX (Tons/day)	CO_TOTEX (Tons/day)
Los Angele	2015 Annual		T6 instate heavy	0	0	0	0	0	0.00244492		0	0

EMFAC 2011

2016 Estimated Annual Emissions

EMFAC 2011 Vehicle Categories

Los Angeles COUNTY

South Coast AIR BASIN

South Coast AQMD

Area	CalYr	Season	Veh	TOG_DIURN	TOG_HTSK	TOG_RUNLS	TOG_RESTL	TOG_TOTAL	CO_RUNEX	CO_IDLEX	CO_STREX	CO_TOTEX
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Los Angele	2026 Annual	LDT1	2.131745975	0	0.376201158	2.507947133	6385.158459	0	226.836843	6611.995302	4342.528217
Los Angele	2026 Annual	LDT1	0.007977982	0	0	0.007977982	7.180718462	0	0	7.180718462	4.692128526
Los Angele	2026 Annual	T6 instate heavy	0.765665582	0.046256281	0	0.811921864	806.8975815	9.19914485	0	816.0967263	726.2078233
Los Angele	2026 Annual	LDA/LDT1	10.27185698	0	1.926175151	12.19803213	55457.77765	0	2078.249597	57536.02725	35173.83195

**onsite transit**

unmitigated - used for worker vehicles during const:

EMFAC 2011

2011 Estimated Annual Emissions

EMFAC 2011 Vehicle Categories

Los Angeles COUNTY

South Coast AIR BASIN

South Coast AQMD

Area	CalYr	Season	Veh	NOX_RUNEX (Tons/day)	NOX_IDLEX (Tons/day)	NOX_STREX (Tons/day)	NOX_TOTEX (Tons/day)	CO2_RUNEX (Tons/day)	CO2_IDLEX (Tons/day)	CO2_STREX (Tons/day)	CO2_TOTEX (Tons/day)	CO2_RUNEX(Pavh (Tons/day)
Los Angele	2011 Annual		T6 instate heavy	0.020178665	0	0	0	1.991402397	0	0	0	1.986423891

EMFAC 2011

2013 Estimated Annual Emissions

EMFAC 2011 Vehicle Categories

Los Angeles COUNTY

South Coast AIR BASIN

South Coast AQMD

Area	CalYr	Season	Veh	NOX_RUNEX (Tons/day)	NOX_IDLEX (Tons/day)	NOX_STREX (Tons/day)	NOX_TOTEX (Tons/day)	CO2_RUNEX (Tons/day)	CO2_IDLEX (Tons/day)	CO2_STREX (Tons/day)	CO2_TOTEX (Tons/day)	CO2_RUNEX(Pavh (Tons/day)
Los Angele	2013 Annual		T6 instate heavy	0.020713894	0	0	0	2.325778154	0	0	0	2.302520372

EMFAC 2011

2014 Estimated Annual Emissions

EMFAC 2011 Vehicle Categories

Los Angeles COUNTY

South Coast AIR BASIN

South Coast AQMD

Area	CalYr	Season	Veh	NOX_RUNEX (Tons/day)	NOX_IDLEX (Tons/day)	NOX_STREX (Tons/day)	NOX_TOTEX (Tons/day)	CO2_RUNEX (Tons/day)	CO2_IDLEX (Tons/day)	CO2_STREX (Tons/day)	CO2_TOTEX (Tons/day)	CO2_RUNEX(Pavh (Tons/day)
Los Angele	2014 Annual		T6 instate heavy	0.020180166	0	0	0	2.435398022	0	0	0	2.398867052

EMFAC 2011

2015 Estimated Annual Emissions

EMFAC 2011 Vehicle Categories

Los Angeles COUNTY

South Coast AIR BASIN

South Coast AQMD

Area	CalYr	Season	Veh	NOX_RUNEX (Tons/day)	NOX_IDLEX (Tons/day)	NOX_STREX (Tons/day)	NOX_TOTEX (Tons/day)	CO2_RUNEX (Tons/day)	CO2_IDLEX (Tons/day)	CO2_STREX (Tons/day)	CO2_TOTEX (Tons/day)	CO2_RUNEX(Pavh (Tons/day)
Los Angele	2015 Annual		T6 instate heavy	0.018722321	0	0	0	2.630058369	0	0	0	2.56430691

EMFAC 2011

2016 Estimated Annual Emissions

EMFAC 2011 Vehicle Categories

Los Angeles COUNTY

South Coast AIR BASIN

South Coast AQMD

Area	CalYr	Season	Veh	NOX_RUNEX	NOX_IDLEX	NOX_STREX	NOX_TOTEX	CO2_RUNEX	CO2_IDLEX	CO2_STREX	CO2_TOTEX	CO2_RUNEX(Pavh
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Los Angele	2026 Annual	LDT1		0	156.23007	4498.758287	0.049170617	0	0.012562496	0.061733114	0.118101463	0.542528677
Los Angele	2026 Annual	LDT1		0	0	4.692128526	4.91E-04	0	0	4.91E-04	1.78E-04	8.16E-04
Los Angele	2026 Annual	T6 instate heavy		8.279230365	0	734.4870537	0.029867382	1.09E-04	0	0.029976099	0.008634939	0.093789834
Los Angele	2026 Annual	LDA/LDT1		0	1340.412913	36514.24486	0.359270688	0	0.124519464	0.483790152	1.168620524	5.368351184

**onsite transit**

unmitigated - used for worker vehicles during const:

EMFAC 2011

2011 Estimated Annual Emissions

EMFAC 2011 Vehicle Categories

Los Angeles COUNTY

South Coast AIR BASIN

South Coast AQMD

Area	CalYr	Season	Veh	CO2_IDLEX(Pavle (Tons/day)	CO2_STREX(Pavk (Tons/day)	CO2_TOTEX(Pavb (Tons/day)	PM10_RUNEX (Tons/day)	PM10_IDLEX (Tons/day)	PM10_STREX (Tons/day)	PM10_TOTEX (Tons/day)	PM10_PMTW (Tons/day)	PM10_PMBW (Tons/day)
Los Angele	2011 Annual		T6 instate heavy	0	0	0	0.001177101	0	0	0	0	0

EMFAC 2011

2013 Estimated Annual Emissions

EMFAC 2011 Vehicle Categories

Los Angeles COUNTY

South Coast AIR BASIN

South Coast AQMD

Area	CalYr	Season	Veh	CO2_IDLEX(Pavle (Tons/day)	CO2_STREX(Pavk (Tons/day)	CO2_TOTEX(Pavb (Tons/day)	PM10_RUNEX (Tons/day)	PM10_IDLEX (Tons/day)	PM10_STREX (Tons/day)	PM10_TOTEX (Tons/day)	PM10_PMTW (Tons/day)	PM10_PMBW (Tons/day)
Los Angele	2013 Annual		T6 instate heavy	0	0	0	9.22E-04	0	0	0.00E+00	0	0

EMFAC 2011

2014 Estimated Annual Emissions

EMFAC 2011 Vehicle Categories

Los Angeles COUNTY

South Coast AIR BASIN

South Coast AQMD

Area	CalYr	Season	Veh	CO2_IDLEX(Pavle (Tons/day)	CO2_STREX(Pavk (Tons/day)	CO2_TOTEX(Pavb (Tons/day)	PM10_RUNEX (Tons/day)	PM10_IDLEX (Tons/day)	PM10_STREX (Tons/day)	PM10_TOTEX (Tons/day)	PM10_PMTW (Tons/day)	PM10_PMBW (Tons/day)
Los Angele	2014 Annual		T6 instate heavy	0	0	0	5.35E-04	0	0	0.00E+00	0	0

EMFAC 2011

2015 Estimated Annual Emissions

EMFAC 2011 Vehicle Categories

Los Angeles COUNTY

South Coast AIR BASIN

South Coast AQMD

Area	CalYr	Season	Veh	CO2_IDLEX(Pavle (Tons/day)	CO2_STREX(Pavk (Tons/day)	CO2_TOTEX(Pavb (Tons/day)	PM10_RUNEX (Tons/day)	PM10_IDLEX (Tons/day)	PM10_STREX (Tons/day)	PM10_TOTEX (Tons/day)	PM10_PMTW (Tons/day)	PM10_PMBW (Tons/day)
Los Angele	2015 Annual		T6 instate heavy	0	0	0	2.88E-04	0	0	0	0	0

EMFAC 2011

2016 Estimated Annual Emissions

EMFAC 2011 Vehicle Categories

Los Angeles COUNTY

South Coast AIR BASIN

South Coast AQMD

Area	CalYr	Season	Veh	CO2_IDLEX(Pavle (Tons/day)	CO2_STREX(Pavk (Tons/day)	CO2_TOTEX(Pavb (Tons/day)	PM10_RUNEX (Tons/day)	PM10_IDLEX (Tons/day)	PM10_STREX (Tons/day)	PM10_TOTEX (Tons/day)	PM10_PMTW (Tons/day)	PM10_PMBW (Tons/day)
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Los Angele	2026 Annual	LDT1	0.722363254	0.045622221	0	0.011655924	0.057278145	0.029525366	0.232512283	0.319315795	0.064101412
Los Angele	2026 Annual	LDT1	0.001485088	4.52E-04	0	0	4.52E-04	4.44E-05	3.50E-04	8.46E-04	6.86E-05
Los Angele	2026 Annual	T6 instate heavy	0.132400873	0.027477991	1.00E-04	0	0.027578011	0.002158735	0.040195643	0.069932389	0.00769818
Los Angele	2026 Annual	LDA/LDT1	7.020761859	0.333315468	0	0.11553352	0.448848988	0.29215513	2.300721876	3.041725994	0.555319948

**onsite transit**

unmitigated - used for worker vehicles during const:

EMFAC 2011

2011 Estimated Annual Emissions

EMFAC 2011 Vehicle Categories

Los Angeles COUNTY

South Coast AIR BASIN

South Coast AQMD

Area	CalYr	Season	Veh	PM10_TOTAL (Tons/day)	PM2_5_RUNEX (Tons/day)	PM2_5_IDLEX (Tons/day)	PM2_5_STREX (Tons/day)	PM2_5_TOTEX (Tons/day)	PM2_5_PMTW (Tons/day)	PM2_5_PMBW (Tons/day)	PM2_5_TOTAL (Tons/day)	SOX_RUNEX (Tons/day)
Los Angele	2011 Annual		T6 instate heavy	0	0.001082933	0	0	0	0	0	0	0

EMFAC 2011

2013 Estimated Annual Emissions

EMFAC 2011 Vehicle Categories

Los Angeles COUNTY

South Coast AIR BASIN

South Coast AQMD

Area	CalYr	Season	Veh	PM10_TOTAL (Tons/day)	PM2_5_RUNEX (Tons/day)	PM2_5_IDLEX (Tons/day)	PM2_5_STREX (Tons/day)	PM2_5_TOTEX (Tons/day)	PM2_5_PMTW (Tons/day)	PM2_5_PMBW (Tons/day)	PM2_5_TOTAL (Tons/day)	SOX_RUNEX (Tons/day)
Los Angele	2013 Annual		T6 instate heavy	0	8.48E-04	0	0	0.00E+00	0	0	0	0

EMFAC 2011

2014 Estimated Annual Emissions

EMFAC 2011 Vehicle Categories

Los Angeles COUNTY

South Coast AIR BASIN

South Coast AQMD

Area	CalYr	Season	Veh	PM10_TOTAL (Tons/day)	PM2_5_RUNEX (Tons/day)	PM2_5_IDLEX (Tons/day)	PM2_5_STREX (Tons/day)	PM2_5_TOTEX (Tons/day)	PM2_5_PMTW (Tons/day)	PM2_5_PMBW (Tons/day)	PM2_5_TOTAL (Tons/day)	SOX_RUNEX (Tons/day)
Los Angele	2014 Annual		T6 instate heavy	0	4.92E-04	0	0	0.00E+00	0	0	0	0

EMFAC 2011

2015 Estimated Annual Emissions

EMFAC 2011 Vehicle Categories

Los Angeles COUNTY

South Coast AIR BASIN

South Coast AQMD

Area	CalYr	Season	Veh	PM10_TOTAL (Tons/day)	PM2_5_RUNEX (Tons/day)	PM2_5_IDLEX (Tons/day)	PM2_5_STREX (Tons/day)	PM2_5_TOTEX (Tons/day)	PM2_5_PMTW (Tons/day)	PM2_5_PMBW (Tons/day)	PM2_5_TOTAL (Tons/day)	SOX_RUNEX (Tons/day)
Los Angele	2015 Annual		T6 instate heavy	0	2.65E-04	0	0	0	0	0	0	0

EMFAC 2011

2016 Estimated Annual Emissions

EMFAC 2011 Vehicle Categories

Los Angeles COUNTY

South Coast AIR BASIN

South Coast AQMD

Area	CalYr	Season	Veh	PM10_TOTAL	PM2_5_RUNEX	PM2_5_IDLEX	PM2_5_STREX	PM2_5_TOTEX	PM2_5_PMTW	PM2_5_PMBW	PM2_5_TOTAL	SOX_RUNEX
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Los Angele	2026 Annual	LDT1	0	0.002378893	0.066480305	709.1090097	0	6.18E-04	4.22E-03	3.75E-04	9.22E-06	9.87E-05	8.55E-06	3.91E-05	9.93E-06
Los Angele	2026 Annual	LDT1	0	0	6.86E-05	0	0.646264687	6.42E-05	3.58E-04	7.92E-04	4.87E-05	9.87E-05	4.48E-05	3.91E-05	6.80E-06
Los Angele	2026 Annual	T6 instate heavy	8.78E-05	0	0.007785944	0	73.44870537	2.13E-04	9.48E-04	2.49E-03	9.18E-05	3.14E-04	8.45E-05	1.30E-04	2.39E-05
Los Angele	2026 Annual	LDA/LDT1	0	0.021314288	0.576634236	6135.880005	13.04715195	2.35E-04	2.13E-03	1.84E-04	7.30E-06	9.87E-05	6.77E-06	3.91E-05	8.70E-06

**onsite transit**

unmitigated - used for worker vehicles during const:

EMFAC 2011

2011 Estimated Annual Emissions

EMFAC 2011 Vehicle Categories

Los Angeles COUNTY

South Coast AIR BASIN

South Coast AQMD

Area	CalYr	Season	Veh	SOX_IDLEX (Tons/day)	SOX_STREX (Tons/day)	SOX_TOTEX (Tons/day)	FUEL_GAS (1000 Gallons)	FUEL_DSL (1000 Gallons)	exhaust ROG lb/mile	exhaust CO lb/mile	exhaust NOx lb/mile	exhaust PM10 lb/mile	tire wear a PM10 lb/mile	exhaust PM2.5 lb/mile	tire wear a PM2.5 lb/mile	exhaust SOx lb/mile
Los Angele	2011 Annual		T6 instate heavy	0	0	0	0	0	1.20E-02	1.57E-02	5.82E-02	3.40E-03	0.00E+00	3.12E-03	0.00E+00	0.00E+00

EMFAC 2011

2013 Estimated Annual Emissions

EMFAC 2011 Vehicle Categories

Los Angeles COUNTY

South Coast AIR BASIN

South Coast AQMD

Area	CalYr	Season	Veh	SOX_IDLEX (Tons/day)	SOX_STREX (Tons/day)	SOX_TOTEX (Tons/day)	FUEL_GAS (1000 Gallons)	FUEL_DSL (1000 Gallons)	exhaust ROG lb/mile	exhaust CO lb/mile	exhaust NOx lb/mile	exhaust PM10 lb/mile	tire wear a PM10 lb/mile	exhaust PM2.5 lb/mile	tire wear a PM2.5 lb/mile	exhaust SOx lb/mile
Los Angele	2013 Annual		T6 instate heavy	0	0	0.00E+00	0	65.36228571	8.76E-03	1.19E-02	5.12E-02	2.28E-03	0.00E+00	2.10E-03	0.00E+00	0.00E+00

EMFAC 2011

2014 Estimated Annual Emissions

EMFAC 2011 Vehicle Categories

Los Angeles COUNTY

South Coast AIR BASIN

South Coast AQMD

Area	CalYr	Season	Veh	SOX_IDLEX (Tons/day)	SOX_STREX (Tons/day)	SOX_TOTEX (Tons/day)	FUEL_GAS (1000 Gallons)	FUEL_DSL (1000 Gallons)	exhaust ROG lb/mile	exhaust CO lb/mile	exhaust NOx lb/mile	exhaust PM10 lb/mile	tire wear a PM10 lb/mile	exhaust PM2.5 lb/mile	tire wear a PM2.5 lb/mile	exhaust SOx lb/mile
Los Angele	2014 Annual		T6 instate heavy	0	0	0.00E+00	0	68.45710056	5.24E-03	7.19E-03	4.78E-02	1.27E-03	0.00E+00	1.17E-03	0.00E+00	0.00E+00

EMFAC 2011

2015 Estimated Annual Emissions

EMFAC 2011 Vehicle Categories

Los Angeles COUNTY

South Coast AIR BASIN

South Coast AQMD

Area	CalYr	Season	Veh	SOX_IDLEX (Tons/day)	SOX_STREX (Tons/day)	SOX_TOTEX (Tons/day)	FUEL_GAS (1000 Gallons)	FUEL_DSL (1000 Gallons)	exhaust ROG lb/mile	exhaust CO lb/mile	exhaust NOx lb/mile	exhaust PM10 lb/mile	tire wear a PM10 lb/mile	exhaust PM2.5 lb/mile	tire wear a PM2.5 lb/mile	exhaust SOx lb/mile
Los Angele	2015 Annual		T6 instate heavy	0	0	0	0	70.60641202	3.54E-03	5.34E-03	4.09E-02	6.30E-04	0.00E+00	5.79E-04	0.00E+00	0.00E+00

EMFAC 2011

2016 Estimated Annual Emissions

EMFAC 2011 Vehicle Categories

Los Angeles COUNTY

South Coast AIR BASIN

South Coast AQMD

Area	CalYr	Season	Veh	SOX_IDLEX (Tons/day)	SOX_STREX (Tons/day)	SOX_TOTEX (Tons/day)	FUEL_GAS (1000 Gallons)	FUEL_DSL (1000 Gallons)	exhaust ROG lb/mile	exhaust CO lb/mile	exhaust NOx lb/mile	exhaust PM10 lb/mile	tire wear a PM10 lb/mile	exhaust PM2.5 lb/mile	tire wear a PM2.5 lb/mile	exhaust SOx lb/mile
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Los Angele	2026 Annual	LDT1	3.36E-04
Los Angele	2026 Annual	LDT1	2.33E-04
Los Angele	2026 Annual	T6 instate heavy	1.13E-03
Los Angele	2026 Annual	LDA/LDT1	2.76E-04

**onsite transit**

unmitigated - used for worker vehicles during const:

EMFAC 2011

2011 Estimated Annual Emissions

EMFAC 2011 Vehicle Categories

Los Angeles COUNTY

South Coast AIR BASIN

South Coast AQMD exhaust

Area CalYr Season Veh CO2

ton/mile

Los Angele 2011 Annual T6 instate heavy 2.87E-03

EMFAC 2011

2013 Estimated Annual Emissions

EMFAC 2011 Vehicle Categories

Los Angeles COUNTY

South Coast AIR BASIN

South Coast AQMD exhaust

Area CalYr Season Veh CO2

ton/mile

Los Angele 2013 Annual T6 instate heavy 2.85E-03

EMFAC 2011

2014 Estimated Annual Emissions

EMFAC 2011 Vehicle Categories

Los Angeles COUNTY

South Coast AIR BASIN

South Coast AQMD exhaust

Area CalYr Season Veh CO2

ton/mile

Los Angele 2014 Annual T6 instate heavy 2.84E-03

EMFAC 2011

2015 Estimated Annual Emissions

EMFAC 2011 Vehicle Categories

Los Angeles COUNTY

South Coast AIR BASIN

South Coast AQMD exhaust

Area CalYr Season Veh CO2

ton/mile

Los Angele 2015 Annual T6 instate heavy 2.80E-03

EMFAC 2011

2016 Estimated Annual Emissions

EMFAC 2011 Vehicle Categories

Los Angeles COUNTY

South Coast AIR BASIN

South Coast AQMD exhaust

Area CalYr Season Veh CO2

Los Angele	2016 Annual	T6 instate heavy	DSL	AllMYr	(Miles/hr)	(Vehicles)	(Miles/day)	(Trips/day)	(Tons/day)	(Tons/day)	(Tons/day)	(Tons/day)	0
						5	0 928.4173317		0	0.001338933	0	0	0

EMFAC 2011  
 2017 Estimated Annual Emissions  
 EMFAC 2011 Vehicle Categories  
 Los Angeles COUNTY  
 South Coast AIR BASIN  
 South Coast AQMD

Area	CalYr	Season	Veh	Fuel	MdlYr	Speed (Miles/hr)	Pop (Vehicles)	VMT (Miles/day)	Trips (Trips/day)	ROG_RUNEX (Tons/day)	ROG_IDLEX (Tons/day)	ROG_STREX (Tons/day)	ROG_TOTEX (Tons/day)	
Los Angele	2017 Annual	T6 instate heavy	DSL	AllMYr		5	0	937.0489504		0	0.001218578	0	0	0

EMFAC 2011  
 2018 Estimated Annual Emissions  
 EMFAC 2011 Vehicle Categories  
 Los Angeles COUNTY  
 South Coast AIR BASIN  
 South Coast AQMD

Area	CalYr	Season	Veh	Fuel	MdlYr	Speed (Miles/hr)	Pop (Vehicles)	VMT (Miles/day)	Trips (Trips/day)	ROG_RUNEX (Tons/day)	ROG_IDLEX (Tons/day)	ROG_STREX (Tons/day)	ROG_TOTEX (Tons/day)	
Los Angele	2018 Annual	T6 instate heavy	DSL	AllMYr		5	0	934.72047		0	0.001213418	0	0	0

EMFAC 2011  
 2019 Estimated Annual Emissions  
 EMFAC 2011 Vehicle Categories  
 Los Angeles COUNTY  
 South Coast AIR BASIN  
 South Coast AQMD

Area	CalYr	Season	Veh	Fuel	MdlYr	Speed (Miles/hr)	Pop (Vehicles)	VMT (Miles/day)	Trips (Trips/day)	ROG_RUNEX (Tons/day)	ROG_IDLEX (Tons/day)	ROG_STREX (Tons/day)	ROG_TOTEX (Tons/day)	
Los Angele	2019 Annual	T6 instate heavy	DSL	AllMYr		5	0	1172.47193		0	0.001500196	0	0	0

EMFAC 2011  
 2020 Estimated Annual Emissions  
 EMFAC 2011 Vehicle Categories  
 Los Angeles COUNTY  
 South Coast AIR BASIN  
 South Coast AQMD

Area	CalYr	Season	Veh	Fuel	MdlYr	Speed (Miles/hr)	Pop (Vehicles)	VMT (Miles/day)	Trips (Trips/day)	ROG_RUNEX (Tons/day)	ROG_IDLEX (Tons/day)	ROG_STREX (Tons/day)	ROG_TOTEX (Tons/day)	
Los Angele	2020 Annual	T6 instate heavy	DSL	AllMYr		5	0	1181.830108		0	0.001471864	0	0	0

EMFAC 2011  
 2021 Estimated Annual Emissions  
 EMFAC 2011 Vehicle Categories  
 Los Angeles COUNTY  
 South Coast AIR BASIN  
 South Coast AQMD

Area	CalYr	Season	Veh	Fuel	MdlYr	Speed (Miles/hr)	Pop (Vehicles)	VMT (Miles/day)	Trips (Trips/day)	ROG_RUNEX (Tons/day)	ROG_IDLEX (Tons/day)	ROG_STREX (Tons/day)	ROG_TOTEX (Tons/day)	
Los Angele	2021 Annual	T6 instate heavy	DSL	AllMYr		5	0	1229.161756		0	0.001605852	0	0	0

EMFAC 2011  
 2022 Estimated Annual Emissions  
 EMFAC 2011 Vehicle Categories

			(Tons/day)	(Tons/day)	(Tons/day)	(Tons/day)	(Tons/day)	(Tons/day)	(Tons/day)	(Tons/day)	(Tons/day)	(Tons/day)
Los Angele	2016 Annual	T6 instate heavy	0	0	0	0	0	0	0.001524273	0	0	0

EMFAC 2011  
 2017 Estimated Annual Emissions  
 EMFAC 2011 Vehicle Categories  
 Los Angeles COUNTY  
 South Coast AIR BASIN  
 South Coast AQMD

Area	CalYr	Season	Veh	ROG_DIURN (Tons/day)	ROG_HTSK (Tons/day)	ROG_RUNLS (Tons/day)	ROG_RESTL (Tons/day)	ROG_TOTAL (Tons/day)	TOG_RUNEX (Tons/day)	TOG_IDLEX (Tons/day)	TOG_STREX (Tons/day)	TOG_TOTEX (Tons/day)
Los Angele	2017 Annual	T6 instate heavy		0	0	0	0	0	0.001387258	0	0	0

EMFAC 2011  
 2018 Estimated Annual Emissions  
 EMFAC 2011 Vehicle Categories  
 Los Angeles COUNTY  
 South Coast AIR BASIN  
 South Coast AQMD

Area	CalYr	Season	Veh	ROG_DIURN (Tons/day)	ROG_HTSK (Tons/day)	ROG_RUNLS (Tons/day)	ROG_RESTL (Tons/day)	ROG_TOTAL (Tons/day)	TOG_RUNEX (Tons/day)	TOG_IDLEX (Tons/day)	TOG_STREX (Tons/day)	TOG_TOTEX (Tons/day)
Los Angele	2018 Annual	T6 instate heavy		0	0	0	0	0	0.001381383	0	0	0

EMFAC 2011  
 2019 Estimated Annual Emissions  
 EMFAC 2011 Vehicle Categories  
 Los Angeles COUNTY  
 South Coast AIR BASIN  
 South Coast AQMD

Area	CalYr	Season	Veh	ROG_DIURN (Tons/day)	ROG_HTSK (Tons/day)	ROG_RUNLS (Tons/day)	ROG_RESTL (Tons/day)	ROG_TOTAL (Tons/day)	TOG_RUNEX (Tons/day)	TOG_IDLEX (Tons/day)	TOG_STREX (Tons/day)	TOG_TOTEX (Tons/day)
Los Angele	2019 Annual	T6 instate heavy		0	0	0	0	0	0.001707859	0	0	0

EMFAC 2011  
 2020 Estimated Annual Emissions  
 EMFAC 2011 Vehicle Categories  
 Los Angeles COUNTY  
 South Coast AIR BASIN  
 South Coast AQMD

Area	CalYr	Season	Veh	ROG_DIURN (Tons/day)	ROG_HTSK (Tons/day)	ROG_RUNLS (Tons/day)	ROG_RESTL (Tons/day)	ROG_TOTAL (Tons/day)	TOG_RUNEX (Tons/day)	TOG_IDLEX (Tons/day)	TOG_STREX (Tons/day)	TOG_TOTEX (Tons/day)
Los Angele	2020 Annual	T6 instate heavy		0	0	0	0	0	0.001675606	0	0	0

EMFAC 2011  
 2021 Estimated Annual Emissions  
 EMFAC 2011 Vehicle Categories  
 Los Angeles COUNTY  
 South Coast AIR BASIN  
 South Coast AQMD

Area	CalYr	Season	Veh	ROG_DIURN (Tons/day)	ROG_HTSK (Tons/day)	ROG_RUNLS (Tons/day)	ROG_RESTL (Tons/day)	ROG_TOTAL (Tons/day)	TOG_RUNEX (Tons/day)	TOG_IDLEX (Tons/day)	TOG_STREX (Tons/day)	TOG_TOTEX (Tons/day)
Los Angele	2021 Annual	T6 instate heavy		0	0	0	0	0	0.00182814	0	0	0

EMFAC 2011  
 2022 Estimated Annual Emissions  
 EMFAC 2011 Vehicle Categories

				(Tons/day)	(Tons/day)	(Tons/day)	(Tons/day)	(Tons/day)	(Tons/day)	(Tons/day)	(Tons/day)	(Tons/day)	(Tons/day)
Los Angele	2016 Annual	T6 instate heavy		0	0	0	0	0	0.00214808	0	0	0	0

EMFAC 2011  
 2017 Estimated Annual Emissions  
 EMFAC 2011 Vehicle Categories  
 Los Angeles COUNTY  
 South Coast AIR BASIN  
 South Coast AQMD

Area	CalYr	Season	Veh	TOG_DIURN (Tons/day)	TOG_HTSK (Tons/day)	TOG_RUNLS (Tons/day)	TOG_RESTL (Tons/day)	TOG_TOTAL (Tons/day)	CO_RUNEX (Tons/day)	CO_IDLEX (Tons/day)	CO_STREX (Tons/day)	CO_TOTEX (Tons/day)
Los Angele	2017 Annual	T6 instate heavy		0	0	0	0	0	0.002020757	0	0	0

EMFAC 2011  
 2018 Estimated Annual Emissions  
 EMFAC 2011 Vehicle Categories  
 Los Angeles COUNTY  
 South Coast AIR BASIN  
 South Coast AQMD

Area	CalYr	Season	Veh	TOG_DIURN (Tons/day)	TOG_HTSK (Tons/day)	TOG_RUNLS (Tons/day)	TOG_RESTL (Tons/day)	TOG_TOTAL (Tons/day)	CO_RUNEX (Tons/day)	CO_IDLEX (Tons/day)	CO_STREX (Tons/day)	CO_TOTEX (Tons/day)
Los Angele	2018 Annual	T6 instate heavy		0	0	0	0	0	0.002036233	0	0	0

EMFAC 2011  
 2019 Estimated Annual Emissions  
 EMFAC 2011 Vehicle Categories  
 Los Angeles COUNTY  
 South Coast AIR BASIN  
 South Coast AQMD

Area	CalYr	Season	Veh	TOG_DIURN (Tons/day)	TOG_HTSK (Tons/day)	TOG_RUNLS (Tons/day)	TOG_RESTL (Tons/day)	TOG_TOTAL (Tons/day)	CO_RUNEX (Tons/day)	CO_IDLEX (Tons/day)	CO_STREX (Tons/day)	CO_TOTEX (Tons/day)
Los Angele	2019 Annual	T6 instate heavy		0	0	0	0	0	0.002544673	0	0	0

EMFAC 2011  
 2020 Estimated Annual Emissions  
 EMFAC 2011 Vehicle Categories  
 Los Angeles COUNTY  
 South Coast AIR BASIN  
 South Coast AQMD

Area	CalYr	Season	Veh	TOG_DIURN (Tons/day)	TOG_HTSK (Tons/day)	TOG_RUNLS (Tons/day)	TOG_RESTL (Tons/day)	TOG_TOTAL (Tons/day)	CO_RUNEX (Tons/day)	CO_IDLEX (Tons/day)	CO_STREX (Tons/day)	CO_TOTEX (Tons/day)
Los Angele	2020 Annual	T6 instate heavy		0	0	0	0	0	0.00255334	0	0	0

EMFAC 2011  
 2021 Estimated Annual Emissions  
 EMFAC 2011 Vehicle Categories  
 Los Angeles COUNTY  
 South Coast AIR BASIN  
 South Coast AQMD

Area	CalYr	Season	Veh	TOG_DIURN (Tons/day)	TOG_HTSK (Tons/day)	TOG_RUNLS (Tons/day)	TOG_RESTL (Tons/day)	TOG_TOTAL (Tons/day)	CO_RUNEX (Tons/day)	CO_IDLEX (Tons/day)	CO_STREX (Tons/day)	CO_TOTEX (Tons/day)
Los Angele	2021 Annual	T6 instate heavy		0	0	0	0	0	0.00284763	0	0	0

EMFAC 2011  
 2022 Estimated Annual Emissions  
 EMFAC 2011 Vehicle Categories

Area	CalYr	Season	Veh	NOX_RUNEX (Tons/day)	NOX_IDLEX (Tons/day)	NOX_STREX (Tons/day)	NOX_TOTEX (Tons/day)	CO2_RUNEX (Tons/day)	CO2_IDLEX (Tons/day)	CO2_STREX (Tons/day)	CO2_TOTEX (Tons/day)	CO2_RUNEX(Pavh) (Tons/day)	
Los Angele	2016 Annual		T6 instate heavy	0.01648839		0	0	0	2.664344542	0	0	0	2.571092483

EMFAC 2011  
 2017 Estimated Annual Emissions  
 EMFAC 2011 Vehicle Categories  
 Los Angeles COUNTY  
 South Coast AIR BASIN  
 South Coast AQMD

Area	CalYr	Season	Veh	NOX_RUNEX (Tons/day)	NOX_IDLEX (Tons/day)	NOX_STREX (Tons/day)	NOX_TOTEX (Tons/day)	CO2_RUNEX (Tons/day)	CO2_IDLEX (Tons/day)	CO2_STREX (Tons/day)	CO2_TOTEX (Tons/day)	CO2_RUNEX(Pavh) (Tons/day)	
Los Angele	2017 Annual		T6 instate heavy	0.015034613		0	0	0	2.685848122	0	0	0	2.551555715

EMFAC 2011  
 2018 Estimated Annual Emissions  
 EMFAC 2011 Vehicle Categories  
 Los Angeles COUNTY  
 South Coast AIR BASIN  
 South Coast AQMD

Area	CalYr	Season	Veh	NOX_RUNEX (Tons/day)	NOX_IDLEX (Tons/day)	NOX_STREX (Tons/day)	NOX_TOTEX (Tons/day)	CO2_RUNEX (Tons/day)	CO2_IDLEX (Tons/day)	CO2_STREX (Tons/day)	CO2_TOTEX (Tons/day)	CO2_RUNEX(Pavh) (Tons/day)	
Los Angele	2018 Annual		T6 instate heavy	0.013673993		0	0	0	2.675333881	0	0	0	2.501437179

EMFAC 2011  
 2019 Estimated Annual Emissions  
 EMFAC 2011 Vehicle Categories  
 Los Angeles COUNTY  
 South Coast AIR BASIN  
 South Coast AQMD

Area	CalYr	Season	Veh	NOX_RUNEX (Tons/day)	NOX_IDLEX (Tons/day)	NOX_STREX (Tons/day)	NOX_TOTEX (Tons/day)	CO2_RUNEX (Tons/day)	CO2_IDLEX (Tons/day)	CO2_STREX (Tons/day)	CO2_TOTEX (Tons/day)	CO2_RUNEX(Pavh) (Tons/day)	
Los Angele	2019 Annual		T6 instate heavy	0.015594678		0	0	0	3.350546315	0	0	0	3.082502609

EMFAC 2011  
 2020 Estimated Annual Emissions  
 EMFAC 2011 Vehicle Categories  
 Los Angeles COUNTY  
 South Coast AIR BASIN  
 South Coast AQMD

Area	CalYr	Season	Veh	NOX_RUNEX (Tons/day)	NOX_IDLEX (Tons/day)	NOX_STREX (Tons/day)	NOX_TOTEX (Tons/day)	CO2_RUNEX (Tons/day)	CO2_IDLEX (Tons/day)	CO2_STREX (Tons/day)	CO2_TOTEX (Tons/day)	CO2_RUNEX(Pavh) (Tons/day)	
Los Angele	2020 Annual		T6 instate heavy	0.012577542		0	0	0	3.369343463	0	0	0	3.032409117

EMFAC 2011  
 2021 Estimated Annual Emissions  
 EMFAC 2011 Vehicle Categories  
 Los Angeles COUNTY  
 South Coast AIR BASIN  
 South Coast AQMD

Area	CalYr	Season	Veh	NOX_RUNEX (Tons/day)	NOX_IDLEX (Tons/day)	NOX_STREX (Tons/day)	NOX_TOTEX (Tons/day)	CO2_RUNEX (Tons/day)	CO2_IDLEX (Tons/day)	CO2_STREX (Tons/day)	CO2_TOTEX (Tons/day)	CO2_RUNEX(Pavh) (Tons/day)	
Los Angele	2021 Annual		T6 instate heavy	0.008435535		0	0	0	3.490667492	0	0	0	3.141600743

EMFAC 2011  
 2022 Estimated Annual Emissions  
 EMFAC 2011 Vehicle Categories

				(Tons/day)	(Tons/day)	(Tons/day)	(Tons/day)	(Tons/day)	(Tons/day)	(Tons/day)	(Tons/day)	(Tons/day)
Los Angele	2016 Annual	T6	instate heavy	0	0	0	1.74E-04	0	0	0	0	0

EMFAC 2011  
 2017 Estimated Annual Emissions  
 EMFAC 2011 Vehicle Categories  
 Los Angeles COUNTY  
 South Coast AIR BASIN  
 South Coast AQMD

Area	CalYr	Season	Veh	CO2_IDLEX(Pavle (Tons/day)	CO2_STREX(Pavlk (Tons/day)	CO2_TOTEX(Pavlb (Tons/day)	PM10_RUNEX (Tons/day)	PM10_IDLEX (Tons/day)	PM10_STREX (Tons/day)	PM10_TOTEX (Tons/day)	PM10_PMTW (Tons/day)	PM10_PMBW (Tons/day)
Los Angele	2017 Annual	T6	instate heavy	0	0	0	1.22E-04	0	0	0	0	0

EMFAC 2011  
 2018 Estimated Annual Emissions  
 EMFAC 2011 Vehicle Categories  
 Los Angeles COUNTY  
 South Coast AIR BASIN  
 South Coast AQMD

Area	CalYr	Season	Veh	CO2_IDLEX(Pavle (Tons/day)	CO2_STREX(Pavlk (Tons/day)	CO2_TOTEX(Pavlb (Tons/day)	PM10_RUNEX (Tons/day)	PM10_IDLEX (Tons/day)	PM10_STREX (Tons/day)	PM10_TOTEX (Tons/day)	PM10_PMTW (Tons/day)	PM10_PMBW (Tons/day)
Los Angele	2018 Annual	T6	instate heavy	0	0	0	1.09E-04	0	0	0	0	0

EMFAC 2011  
 2019 Estimated Annual Emissions  
 EMFAC 2011 Vehicle Categories  
 Los Angeles COUNTY  
 South Coast AIR BASIN  
 South Coast AQMD

Area	CalYr	Season	Veh	CO2_IDLEX(Pavle (Tons/day)	CO2_STREX(Pavlk (Tons/day)	CO2_TOTEX(Pavlb (Tons/day)	PM10_RUNEX (Tons/day)	PM10_IDLEX (Tons/day)	PM10_STREX (Tons/day)	PM10_TOTEX (Tons/day)	PM10_PMTW (Tons/day)	PM10_PMBW (Tons/day)
Los Angele	2019 Annual	T6	instate heavy	0	0	0	1.21E-04	0	0	0	0	0

EMFAC 2011  
 2020 Estimated Annual Emissions  
 EMFAC 2011 Vehicle Categories  
 Los Angeles COUNTY  
 South Coast AIR BASIN  
 South Coast AQMD

Area	CalYr	Season	Veh	CO2_IDLEX(Pavle (Tons/day)	CO2_STREX(Pavlk (Tons/day)	CO2_TOTEX(Pavlb (Tons/day)	PM10_RUNEX (Tons/day)	PM10_IDLEX (Tons/day)	PM10_STREX (Tons/day)	PM10_TOTEX (Tons/day)	PM10_PMTW (Tons/day)	PM10_PMBW (Tons/day)
Los Angele	2020 Annual	T6	instate heavy	0	0	0	8.85E-05	0	0	0	0	0

EMFAC 2011  
 2021 Estimated Annual Emissions  
 EMFAC 2011 Vehicle Categories  
 Los Angeles COUNTY  
 South Coast AIR BASIN  
 South Coast AQMD

Area	CalYr	Season	Veh	CO2_IDLEX(Pavle (Tons/day)	CO2_STREX(Pavlk (Tons/day)	CO2_TOTEX(Pavlb (Tons/day)	PM10_RUNEX (Tons/day)	PM10_IDLEX (Tons/day)	PM10_STREX (Tons/day)	PM10_TOTEX (Tons/day)	PM10_PMTW (Tons/day)	PM10_PMBW (Tons/day)
Los Angele	2021 Annual	T6	instate heavy	0	0	0	6.13E-05	0	0	0	0	0

EMFAC 2011  
 2022 Estimated Annual Emissions  
 EMFAC 2011 Vehicle Categories



			(Tons/day)	(Tons/day)	(Tons/day)	(Tons/day)	(Tons/day)	(Tons/day)	(Tons/day)	(Tons/day)	(Tons/day)	(Tons/day)
Los Angele	2016 Annual	T6 instate heavy	0	1.60E-04	0	0	0	0	0	0	0	0

EMFAC 2011  
 2017 Estimated Annual Emissions  
 EMFAC 2011 Vehicle Categories  
 Los Angeles COUNTY  
 South Coast AIR BASIN  
 South Coast AQMD

Area	CalYr	Season	Veh	PM10_TOTAL (Tons/day)	PM2_5_RUNEX (Tons/day)	PM2_5_IDLEX (Tons/day)	PM2_5_STREX (Tons/day)	PM2_5_TOTEX (Tons/day)	PM2_5_PMTW (Tons/day)	PM2_5_PMBW (Tons/day)	PM2_5_TOTAL (Tons/day)	SOX_RUNEX (Tons/day)
Los Angele	2017 Annual	T6 instate heavy		0	1.12E-04	0	0	0	0	0	0	0

EMFAC 2011  
 2018 Estimated Annual Emissions  
 EMFAC 2011 Vehicle Categories  
 Los Angeles COUNTY  
 South Coast AIR BASIN  
 South Coast AQMD

Area	CalYr	Season	Veh	PM10_TOTAL (Tons/day)	PM2_5_RUNEX (Tons/day)	PM2_5_IDLEX (Tons/day)	PM2_5_STREX (Tons/day)	PM2_5_TOTEX (Tons/day)	PM2_5_PMTW (Tons/day)	PM2_5_PMBW (Tons/day)	PM2_5_TOTAL (Tons/day)	SOX_RUNEX (Tons/day)
Los Angele	2018 Annual	T6 instate heavy		0	1.00E-04	0	0	0	0	0	0	0

EMFAC 2011  
 2019 Estimated Annual Emissions  
 EMFAC 2011 Vehicle Categories  
 Los Angeles COUNTY  
 South Coast AIR BASIN  
 South Coast AQMD

Area	CalYr	Season	Veh	PM10_TOTAL (Tons/day)	PM2_5_RUNEX (Tons/day)	PM2_5_IDLEX (Tons/day)	PM2_5_STREX (Tons/day)	PM2_5_TOTEX (Tons/day)	PM2_5_PMTW (Tons/day)	PM2_5_PMBW (Tons/day)	PM2_5_TOTAL (Tons/day)	SOX_RUNEX (Tons/day)
Los Angele	2019 Annual	T6 instate heavy		0	1.12E-04	0	0	0	0	0	0	0

EMFAC 2011  
 2020 Estimated Annual Emissions  
 EMFAC 2011 Vehicle Categories  
 Los Angeles COUNTY  
 South Coast AIR BASIN  
 South Coast AQMD

Area	CalYr	Season	Veh	PM10_TOTAL (Tons/day)	PM2_5_RUNEX (Tons/day)	PM2_5_IDLEX (Tons/day)	PM2_5_STREX (Tons/day)	PM2_5_TOTEX (Tons/day)	PM2_5_PMTW (Tons/day)	PM2_5_PMBW (Tons/day)	PM2_5_TOTAL (Tons/day)	SOX_RUNEX (Tons/day)
Los Angele	2020 Annual	T6 instate heavy		0	8.14E-05	0	0	0	0	0	0	0

EMFAC 2011  
 2021 Estimated Annual Emissions  
 EMFAC 2011 Vehicle Categories  
 Los Angeles COUNTY  
 South Coast AIR BASIN  
 South Coast AQMD

Area	CalYr	Season	Veh	PM10_TOTAL (Tons/day)	PM2_5_RUNEX (Tons/day)	PM2_5_IDLEX (Tons/day)	PM2_5_STREX (Tons/day)	PM2_5_TOTEX (Tons/day)	PM2_5_PMTW (Tons/day)	PM2_5_PMBW (Tons/day)	PM2_5_TOTAL (Tons/day)	SOX_RUNEX (Tons/day)
Los Angele	2021 Annual	T6 instate heavy		0	5.64E-05	0	0	0	0	0	0	0

EMFAC 2011  
 2022 Estimated Annual Emissions  
 EMFAC 2011 Vehicle Categories

Area	CalYr	Season	Veh	SOX_IDLEX (Tons/day)	SOX_STREX (Tons/day)	SOX_TOTEX (Tons/day)	FUEL_GAS (1000 Gallons)	FUEL_DSL (1000 Gallons)	exhaust ROG lb/mile	exhaust CO lb/mile	exhaust NOx lb/mile	exhaust PM10 lb/mile	tire wear a PM10 lb/mile	exhaust PM2.5 lb/mile	tire wear a PM2.5 lb/mile	exhaust SOx lb/mile
Los Angeles	2016 Annual		T6 instate heavy	0	0	0	0	71.52952404	2.88E-03	4.63E-03	3.55E-02	3.74E-04	0.00E+00	3.45E-04	0.00E+00	0.00E+00

EMFAC 2011  
 2017 Estimated Annual Emissions  
 EMFAC 2011 Vehicle Categories  
 Los Angeles COUNTY  
 South Coast AIR BASIN  
 South Coast AQMD

Area	CalYr	Season	Veh	SOX_IDLEX (Tons/day)	SOX_STREX (Tons/day)	SOX_TOTEX (Tons/day)	FUEL_GAS (1000 Gallons)	FUEL_DSL (1000 Gallons)	exhaust ROG lb/mile	exhaust CO lb/mile	exhaust NOx lb/mile	exhaust PM10 lb/mile	tire wear a PM10 lb/mile	exhaust PM2.5 lb/mile	tire wear a PM2.5 lb/mile	exhaust SOx lb/mile
Los Angeles	2017 Annual		T6 instate heavy	0	0	0	0	72.10365985	2.60E-03	4.31E-03	3.21E-02	2.60E-04	0.00E+00	2.39E-04	0.00E+00	0.00E+00

EMFAC 2011  
 2018 Estimated Annual Emissions  
 EMFAC 2011 Vehicle Categories  
 Los Angeles COUNTY  
 South Coast AIR BASIN  
 South Coast AQMD

Area	CalYr	Season	Veh	SOX_IDLEX (Tons/day)	SOX_STREX (Tons/day)	SOX_TOTEX (Tons/day)	FUEL_GAS (1000 Gallons)	FUEL_DSL (1000 Gallons)	exhaust ROG lb/mile	exhaust CO lb/mile	exhaust NOx lb/mile	exhaust PM10 lb/mile	tire wear a PM10 lb/mile	exhaust PM2.5 lb/mile	tire wear a PM2.5 lb/mile	exhaust SOx lb/mile
Los Angeles	2018 Annual		T6 instate heavy	0	0	0	0	71.8201233	2.60E-03	4.36E-03	2.93E-02	2.33E-04	0.00E+00	2.14E-04	0.00E+00	0.00E+00

EMFAC 2011  
 2019 Estimated Annual Emissions  
 EMFAC 2011 Vehicle Categories  
 Los Angeles COUNTY  
 South Coast AIR BASIN  
 South Coast AQMD

Area	CalYr	Season	Veh	SOX_IDLEX (Tons/day)	SOX_STREX (Tons/day)	SOX_TOTEX (Tons/day)	FUEL_GAS (1000 Gallons)	FUEL_DSL (1000 Gallons)	exhaust ROG lb/mile	exhaust CO lb/mile	exhaust NOx lb/mile	exhaust PM10 lb/mile	tire wear a PM10 lb/mile	exhaust PM2.5 lb/mile	tire wear a PM2.5 lb/mile	exhaust SOx lb/mile
Los Angeles	2019 Annual		T6 instate heavy	0	0	0	0	71.62383316	2.56E-03	4.34E-03	2.66E-02	2.07E-04	0.00E+00	1.91E-04	0.00E+00	0.00E+00

EMFAC 2011  
 2020 Estimated Annual Emissions  
 EMFAC 2011 Vehicle Categories  
 Los Angeles COUNTY  
 South Coast AIR BASIN  
 South Coast AQMD

Area	CalYr	Season	Veh	SOX_IDLEX (Tons/day)	SOX_STREX (Tons/day)	SOX_TOTEX (Tons/day)	FUEL_GAS (1000 Gallons)	FUEL_DSL (1000 Gallons)	exhaust ROG lb/mile	exhaust CO lb/mile	exhaust NOx lb/mile	exhaust PM10 lb/mile	tire wear a PM10 lb/mile	exhaust PM2.5 lb/mile	tire wear a PM2.5 lb/mile	exhaust SOx lb/mile
Los Angeles	2020 Annual		T6 instate heavy	0	0	0	0	72.03118069	2.49E-03	4.32E-03	2.13E-02	1.50E-04	0.00E+00	1.38E-04	0.00E+00	0.00E+00

EMFAC 2011  
 2021 Estimated Annual Emissions  
 EMFAC 2011 Vehicle Categories  
 Los Angeles COUNTY  
 South Coast AIR BASIN  
 South Coast AQMD

Area	CalYr	Season	Veh	SOX_IDLEX (Tons/day)	SOX_STREX (Tons/day)	SOX_TOTEX (Tons/day)	FUEL_GAS (1000 Gallons)	FUEL_DSL (1000 Gallons)	exhaust ROG lb/mile	exhaust CO lb/mile	exhaust NOx lb/mile	exhaust PM10 lb/mile	tire wear a PM10 lb/mile	exhaust PM2.5 lb/mile	tire wear a PM2.5 lb/mile	exhaust SOx lb/mile
Los Angeles	2021 Annual		T6 instate heavy	0	0	0	0	72.09201393	2.61E-03	4.63E-03	1.37E-02	9.97E-05	0.00E+00	9.17E-05	0.00E+00	0.00E+00

EMFAC 2011  
 2022 Estimated Annual Emissions  
 EMFAC 2011 Vehicle Categories

Los Angeles 2016 Annual T6 instate heavy 2.77E-03 ton/mile

EMFAC 2011  
2017 Estimated Annual Emissions  
EMFAC 2011 Vehicle Categories  
Los Angeles COUNTY  
South Coast AIR BASIN

South Coast AQMD exhaust  
Area CalYr Season Veh CO2  
ton/mile  
Los Angeles 2017 Annual T6 instate heavy 2.72E-03

EMFAC 2011  
2018 Estimated Annual Emissions  
EMFAC 2011 Vehicle Categories  
Los Angeles COUNTY  
South Coast AIR BASIN

South Coast AQMD exhaust  
Area CalYr Season Veh CO2  
ton/mile  
Los Angeles 2018 Annual T6 instate heavy 2.68E-03

EMFAC 2011  
2019 Estimated Annual Emissions  
EMFAC 2011 Vehicle Categories  
Los Angeles COUNTY  
South Coast AIR BASIN

South Coast AQMD exhaust  
Area CalYr Season Veh CO2  
ton/mile  
Los Angeles 2019 Annual T6 instate heavy 2.63E-03

EMFAC 2011  
2020 Estimated Annual Emissions  
EMFAC 2011 Vehicle Categories  
Los Angeles COUNTY  
South Coast AIR BASIN

South Coast AQMD exhaust  
Area CalYr Season Veh CO2  
ton/mile  
Los Angeles 2020 Annual T6 instate heavy 2.57E-03

EMFAC 2011  
2021 Estimated Annual Emissions  
EMFAC 2011 Vehicle Categories  
Los Angeles COUNTY  
South Coast AIR BASIN

South Coast AQMD exhaust  
Area CalYr Season Veh CO2  
ton/mile  
Los Angeles 2021 Annual T6 instate heavy 2.56E-03

EMFAC 2011  
2022 Estimated Annual Emissions  
EMFAC 2011 Vehicle Categories

Los Angeles COUNTY  
 South Coast AIR BASIN  
 South Coast AQMD

Area	CalYr	Season	Veh	Fuel	MdlYr	Speed (Miles/hr)	Pop (Vehicles)	VMT (Miles/day)	Trips (Trips/day)	ROG_RUNEX (Tons/day)	ROG_IDLEX (Tons/day)	ROG_STREX (Tons/day)	ROG_TOTEX (Tons/day)
Los Angele	2022	Annual	T6 instate heavy	DSL	AllMYr		5	0 1229.948223		0 0.001694902		0	0 0

EMFAC 2011  
 2023 Estimated Annual Emissions  
 EMFAC 2011 Vehicle Categories

Los Angeles COUNTY  
 South Coast AIR BASIN  
 South Coast AQMD

Area	CalYr	Season	Veh	Fuel	MdlYr	Speed (Miles/hr)	Pop (Vehicles)	VMT (Miles/day)	Trips (Trips/day)	ROG_RUNEX (Tons/day)	ROG_IDLEX (Tons/day)	ROG_STREX (Tons/day)	ROG_TOTEX (Tons/day)
Los Angele	2023	Annual	T6 instate heavy	DSL	AllMYr		5	0 1226.344815		0 0.001466006		0	0 0

EMFAC 2011  
 2024 Estimated Annual Emissions  
 EMFAC 2011 Vehicle Categories

Los Angeles COUNTY  
 South Coast AIR BASIN  
 South Coast AQMD

Area	CalYr	Season	Veh	Fuel	MdlYr	Speed (Miles/hr)	Pop (Vehicles)	VMT (Miles/day)	Trips (Trips/day)	ROG_RUNEX (Tons/day)	ROG_IDLEX (Tons/day)	ROG_STREX (Tons/day)	ROG_TOTEX (Tons/day)
Los Angele	2024	Annual	T6 instate heavy	DSL	AllMYr		5	0 1149.741686		0 0.001396518		0	0 0

EMFAC 2011  
 2025 Estimated Annual Emissions  
 EMFAC 2011 Vehicle Categories

Los Angeles COUNTY  
 South Coast AIR BASIN  
 South Coast AQMD

Area	CalYr	Season	Veh	Fuel	MdlYr	Speed (Miles/hr)	Pop (Vehicles)	VMT (Miles/day)	Trips (Trips/day)	ROG_RUNEX (Tons/day)	ROG_IDLEX (Tons/day)	ROG_STREX (Tons/day)	ROG_TOTEX (Tons/day)
Los Angele	2025	Annual	T6 instate heavy	DSL	AllMYr		5	0 1159.184699		0 0.001425743		0	0 0

EMFAC 2011  
 2026 Estimated Annual Emissions  
 EMFAC 2011 Vehicle Categories

Los Angeles COUNTY  
 South Coast AIR BASIN  
 South Coast AQMD

Area	CalYr	Season	Veh	Fuel	MdlYr	Speed (Miles/hr)	Pop (Vehicles)	VMT (Miles/day)	Trips (Trips/day)	ROG_RUNEX (Tons/day)	ROG_IDLEX (Tons/day)	ROG_STREX (Tons/day)	ROG_TOTEX (Tons/day)
Los Angele	2026	Annual	T6 instate heavy	DSL	AllMYr		5	0 1173.370428		0 0.001458184		0	0 0

**offsite transit**

Clean Trucks Program  
 EMFAC 2011  
 2013 Estimated Annual Emissions  
 EMFAC 2011 Vehicle Categories  
 Los Angeles COUNTY  
 South Coast AIR BASIN  
 South Coast AQMD

Los Angeles COUNTY  
 South Coast AIR BASIN  
 South Coast AQMD

Area	CalYr	Season	Veh	ROG_DIURN (Tons/day)	ROG_HTSK (Tons/day)	ROG_RUNLS (Tons/day)	ROG_RESTL (Tons/day)	ROG_TOTAL (Tons/day)	TOG_RUNEX (Tons/day)	TOG_IDLEX (Tons/day)	TOG_STREX (Tons/day)	TOG_TOTEX (Tons/day)
Los Angele	2022	Annual	T6 instate heavy	0	0	0	0	0	0.001929517		0	0

EMFAC 2011  
 2023 Estimated Annual Emissions  
 EMFAC 2011 Vehicle Categories

Los Angeles COUNTY  
 South Coast AIR BASIN  
 South Coast AQMD

Area	CalYr	Season	Veh	ROG_DIURN (Tons/day)	ROG_HTSK (Tons/day)	ROG_RUNLS (Tons/day)	ROG_RESTL (Tons/day)	ROG_TOTAL (Tons/day)	TOG_RUNEX (Tons/day)	TOG_IDLEX (Tons/day)	TOG_STREX (Tons/day)	TOG_TOTEX (Tons/day)
Los Angele	2023	Annual	T6 instate heavy	0	0	0	0	0	0.001668936		0	0

EMFAC 2011  
 2024 Estimated Annual Emissions  
 EMFAC 2011 Vehicle Categories

Los Angeles COUNTY  
 South Coast AIR BASIN  
 South Coast AQMD

Area	CalYr	Season	Veh	ROG_DIURN (Tons/day)	ROG_HTSK (Tons/day)	ROG_RUNLS (Tons/day)	ROG_RESTL (Tons/day)	ROG_TOTAL (Tons/day)	TOG_RUNEX (Tons/day)	TOG_IDLEX (Tons/day)	TOG_STREX (Tons/day)	TOG_TOTEX (Tons/day)
Los Angele	2024	Annual	T6 instate heavy	0	0	0	0	0	0.00158983		0	0

EMFAC 2011  
 2025 Estimated Annual Emissions  
 EMFAC 2011 Vehicle Categories

Los Angeles COUNTY  
 South Coast AIR BASIN  
 South Coast AQMD

Area	CalYr	Season	Veh	ROG_DIURN (Tons/day)	ROG_HTSK (Tons/day)	ROG_RUNLS (Tons/day)	ROG_RESTL (Tons/day)	ROG_TOTAL (Tons/day)	TOG_RUNEX (Tons/day)	TOG_IDLEX (Tons/day)	TOG_STREX (Tons/day)	TOG_TOTEX (Tons/day)
Los Angele	2025	Annual	T6 instate heavy	0	0	0	0	0	0.0016231		0	0

EMFAC 2011  
 2026 Estimated Annual Emissions  
 EMFAC 2011 Vehicle Categories

Los Angeles COUNTY  
 South Coast AIR BASIN  
 South Coast AQMD

Area	CalYr	Season	Veh	ROG_DIURN (Tons/day)	ROG_HTSK (Tons/day)	ROG_RUNLS (Tons/day)	ROG_RESTL (Tons/day)	ROG_TOTAL (Tons/day)	TOG_RUNEX (Tons/day)	TOG_IDLEX (Tons/day)	TOG_STREX (Tons/day)	TOG_TOTEX (Tons/day)
Los Angele	2026	Annual	T6 instate heavy	0	0	0	0	0	0.001660032		0	0

**offsite transit**

Clean Trucks Program  
 EMFAC 2011  
 2013 Estimated Annual Emissions  
 EMFAC 2011 Vehicle Categories  
 Los Angeles COUNTY  
 South Coast AIR BASIN  
 South Coast AQMD

Los Angeles COUNTY  
 South Coast AIR BASIN  
 South Coast AQMD

Area	CalYr	Season	Veh	TOG_DIURN (Tons/day)	TOG_HTSK (Tons/day)	TOG_RUNLS (Tons/day)	TOG_RESTL (Tons/day)	TOG_TOTAL (Tons/day)	CO_RUNEX (Tons/day)	CO_IDLEX (Tons/day)	CO_STREX (Tons/day)	CO_TOTEX (Tons/day)
Los Angele	2022	Annual	T6 instate heavy	0	0	0	0	0	0.003005541		0	0

EMFAC 2011  
 2023 Estimated Annual Emissions  
 EMFAC 2011 Vehicle Categories

Los Angeles COUNTY  
 South Coast AIR BASIN  
 South Coast AQMD

Area	CalYr	Season	Veh	TOG_DIURN (Tons/day)	TOG_HTSK (Tons/day)	TOG_RUNLS (Tons/day)	TOG_RESTL (Tons/day)	TOG_TOTAL (Tons/day)	CO_RUNEX (Tons/day)	CO_IDLEX (Tons/day)	CO_STREX (Tons/day)	CO_TOTEX (Tons/day)
Los Angele	2023	Annual	T6 instate heavy	0	0	0	0	0	0.002599644		0	0

EMFAC 2011  
 2024 Estimated Annual Emissions  
 EMFAC 2011 Vehicle Categories

Los Angeles COUNTY  
 South Coast AIR BASIN  
 South Coast AQMD

Area	CalYr	Season	Veh	TOG_DIURN (Tons/day)	TOG_HTSK (Tons/day)	TOG_RUNLS (Tons/day)	TOG_RESTL (Tons/day)	TOG_TOTAL (Tons/day)	CO_RUNEX (Tons/day)	CO_IDLEX (Tons/day)	CO_STREX (Tons/day)	CO_TOTEX (Tons/day)
Los Angele	2024	Annual	T6 instate heavy	0	0	0	0	0	0.002476422		0	0

EMFAC 2011  
 2025 Estimated Annual Emissions  
 EMFAC 2011 Vehicle Categories

Los Angeles COUNTY  
 South Coast AIR BASIN  
 South Coast AQMD

Area	CalYr	Season	Veh	TOG_DIURN (Tons/day)	TOG_HTSK (Tons/day)	TOG_RUNLS (Tons/day)	TOG_RESTL (Tons/day)	TOG_TOTAL (Tons/day)	CO_RUNEX (Tons/day)	CO_IDLEX (Tons/day)	CO_STREX (Tons/day)	CO_TOTEX (Tons/day)
Los Angele	2025	Annual	T6 instate heavy	0	0	0	0	0	0.002528246		0	0

EMFAC 2011  
 2026 Estimated Annual Emissions  
 EMFAC 2011 Vehicle Categories

Los Angeles COUNTY  
 South Coast AIR BASIN  
 South Coast AQMD

Area	CalYr	Season	Veh	TOG_DIURN (Tons/day)	TOG_HTSK (Tons/day)	TOG_RUNLS (Tons/day)	TOG_RESTL (Tons/day)	TOG_TOTAL (Tons/day)	CO_RUNEX (Tons/day)	CO_IDLEX (Tons/day)	CO_STREX (Tons/day)	CO_TOTEX (Tons/day)
Los Angele	2026	Annual	T6 instate heavy	0	0	0	0	0	0.002585774		0	0

**offsite transit**

Clean Trucks Program  
 EMFAC 2011  
 2013 Estimated Annual Emissions  
 EMFAC 2011 Vehicle Categories  
 Los Angeles COUNTY  
 South Coast AIR BASIN  
 South Coast AQMD

Los Angeles COUNTY  
 South Coast AIR BASIN  
 South Coast AQMD

Area	CalYr	Season	Veh	NOX_RUNEX (Tons/day)	NOX_IDLEX (Tons/day)	NOX_STREX (Tons/day)	NOX_TOTEX (Tons/day)	CO2_RUNEX (Tons/day)	CO2_IDLEX (Tons/day)	CO2_STREX (Tons/day)	CO2_TOTEX (Tons/day)	CO2_RUNEX(Pavh (Tons/day)
Los Angele	2022	Annual	T6 instate heavy	0.005989917	0	0	0	3.483967785	0	0	0	3.135571007

EMFAC 2011  
 2023 Estimated Annual Emissions  
 EMFAC 2011 Vehicle Categories  
 Los Angeles COUNTY  
 South Coast AIR BASIN  
 South Coast AQMD

Area	CalYr	Season	Veh	NOX_RUNEX (Tons/day)	NOX_IDLEX (Tons/day)	NOX_STREX (Tons/day)	NOX_TOTEX (Tons/day)	CO2_RUNEX (Tons/day)	CO2_IDLEX (Tons/day)	CO2_STREX (Tons/day)	CO2_TOTEX (Tons/day)	CO2_RUNEX(Pavh (Tons/day)
Los Angele	2023	Annual	T6 instate heavy	0.004406589	0	0	0	3.460972383	0	0	0	3.114875144

EMFAC 2011  
 2024 Estimated Annual Emissions  
 EMFAC 2011 Vehicle Categories  
 Los Angeles COUNTY  
 South Coast AIR BASIN  
 South Coast AQMD

Area	CalYr	Season	Veh	NOX_RUNEX (Tons/day)	NOX_IDLEX (Tons/day)	NOX_STREX (Tons/day)	NOX_TOTEX (Tons/day)	CO2_RUNEX (Tons/day)	CO2_IDLEX (Tons/day)	CO2_STREX (Tons/day)	CO2_TOTEX (Tons/day)	CO2_RUNEX(Pavh (Tons/day)
Los Angele	2024	Annual	T6 instate heavy	0.004241077	0	0	0	3.244806554	0	0	0	2.920325899

EMFAC 2011  
 2025 Estimated Annual Emissions  
 EMFAC 2011 Vehicle Categories  
 Los Angeles COUNTY  
 South Coast AIR BASIN  
 South Coast AQMD

Area	CalYr	Season	Veh	NOX_RUNEX (Tons/day)	NOX_IDLEX (Tons/day)	NOX_STREX (Tons/day)	NOX_TOTEX (Tons/day)	CO2_RUNEX (Tons/day)	CO2_IDLEX (Tons/day)	CO2_STREX (Tons/day)	CO2_TOTEX (Tons/day)	CO2_RUNEX(Pavh (Tons/day)
Los Angele	2025	Annual	T6 instate heavy	0.004356082	0	0	0	3.271482215	0	0	0	2.944333993

EMFAC 2011  
 2026 Estimated Annual Emissions  
 EMFAC 2011 Vehicle Categories  
 Los Angeles COUNTY  
 South Coast AIR BASIN  
 South Coast AQMD

Area	CalYr	Season	Veh	NOX_RUNEX (Tons/day)	NOX_IDLEX (Tons/day)	NOX_STREX (Tons/day)	NOX_TOTEX (Tons/day)	CO2_RUNEX (Tons/day)	CO2_IDLEX (Tons/day)	CO2_STREX (Tons/day)	CO2_TOTEX (Tons/day)	CO2_RUNEX(Pavh (Tons/day)
Los Angele	2026	Annual	T6 instate heavy	0.004466768	0	0	0	3.311542791	0	0	0	2.980388512

**offsite transit**

Clean Trucks Program  
 EMFAC 2011  
 2013 Estimated Annual Emissions  
 EMFAC 2011 Vehicle Categories  
 Los Angeles COUNTY  
 South Coast AIR BASIN  
 South Coast AQMD

Los Angeles COUNTY  
 South Coast AIR BASIN  
 South Coast AQMD

Area	CalYr	Season	Veh	CO2_IDLEX(Pavk (Tons/day)	CO2_STREX(Pavk (Tons/day)	CO2_TOTEX(Pavk (Tons/day)	PM10_RUNEX (Tons/day)	PM10_IDLEX (Tons/day)	PM10_STREX (Tons/day)	PM10_TOTEX (Tons/day)	PM10_PMTW (Tons/day)	PM10_PMBW (Tons/day)
Los Angele	2022	Annual	T6 instate heavy	0	0	0	5.84E-05	0	0	0	0	0

EMFAC 2011  
 2023 Estimated Annual Emissions  
 EMFAC 2011 Vehicle Categories

Los Angeles COUNTY  
 South Coast AIR BASIN  
 South Coast AQMD

Area	CalYr	Season	Veh	CO2_IDLEX(Pavk (Tons/day)	CO2_STREX(Pavk (Tons/day)	CO2_TOTEX(Pavk (Tons/day)	PM10_RUNEX (Tons/day)	PM10_IDLEX (Tons/day)	PM10_STREX (Tons/day)	PM10_TOTEX (Tons/day)	PM10_PMTW (Tons/day)	PM10_PMBW (Tons/day)
Los Angele	2023	Annual	T6 instate heavy	0	0	0	5.50E-05	0	0	0	0	0

EMFAC 2011  
 2024 Estimated Annual Emissions  
 EMFAC 2011 Vehicle Categories

Los Angeles COUNTY  
 South Coast AIR BASIN  
 South Coast AQMD

Area	CalYr	Season	Veh	CO2_IDLEX(Pavk (Tons/day)	CO2_STREX(Pavk (Tons/day)	CO2_TOTEX(Pavk (Tons/day)	PM10_RUNEX (Tons/day)	PM10_IDLEX (Tons/day)	PM10_STREX (Tons/day)	PM10_TOTEX (Tons/day)	PM10_PMTW (Tons/day)	PM10_PMBW (Tons/day)
Los Angele	2024	Annual	T6 instate heavy	0	0	0	5.27E-05	0	0	0	0	0

EMFAC 2011  
 2025 Estimated Annual Emissions  
 EMFAC 2011 Vehicle Categories

Los Angeles COUNTY  
 South Coast AIR BASIN  
 South Coast AQMD

Area	CalYr	Season	Veh	CO2_IDLEX(Pavk (Tons/day)	CO2_STREX(Pavk (Tons/day)	CO2_TOTEX(Pavk (Tons/day)	PM10_RUNEX (Tons/day)	PM10_IDLEX (Tons/day)	PM10_STREX (Tons/day)	PM10_TOTEX (Tons/day)	PM10_PMTW (Tons/day)	PM10_PMBW (Tons/day)
Los Angele	2025	Annual	T6 instate heavy	0	0	0	5.40E-05	0	0	0	0	0

EMFAC 2011  
 2026 Estimated Annual Emissions  
 EMFAC 2011 Vehicle Categories

Los Angeles COUNTY  
 South Coast AIR BASIN  
 South Coast AQMD

Area	CalYr	Season	Veh	CO2_IDLEX(Pavk (Tons/day)	CO2_STREX(Pavk (Tons/day)	CO2_TOTEX(Pavk (Tons/day)	PM10_RUNEX (Tons/day)	PM10_IDLEX (Tons/day)	PM10_STREX (Tons/day)	PM10_TOTEX (Tons/day)	PM10_PMTW (Tons/day)	PM10_PMBW (Tons/day)
Los Angele	2026	Annual	T6 instate heavy	0	0	0	5.54E-05	0	0	0	0	0

**offsite transit**

Clean Trucks Program  
 EMFAC 2011  
 2013 Estimated Annual Emissions  
 EMFAC 2011 Vehicle Categories  
 Los Angeles COUNTY  
 South Coast AIR BASIN  
 South Coast AQMD



Los Angeles COUNTY  
 South Coast AIR BASIN  
 South Coast AQMD

Area	CalYr	Season	Veh	PM10_TOTAL (Tons/day)	PM2_5_RUNEX (Tons/day)	PM2_5_IDLEX (Tons/day)	PM2_5_STREX (Tons/day)	PM2_5_TOTEX (Tons/day)	PM2_5_PMTW (Tons/day)	PM2_5_PMBW (Tons/day)	PM2_5_TOTAL (Tons/day)	SOX_RUNEX (Tons/day)
Los Angele	2022	Annual	T6 instate heavy	0	5.37E-05	0	0	0	0	0	0	0

EMFAC 2011  
 2023 Estimated Annual Emissions  
 EMFAC 2011 Vehicle Categories

Los Angeles COUNTY  
 South Coast AIR BASIN  
 South Coast AQMD

Area	CalYr	Season	Veh	PM10_TOTAL (Tons/day)	PM2_5_RUNEX (Tons/day)	PM2_5_IDLEX (Tons/day)	PM2_5_STREX (Tons/day)	PM2_5_TOTEX (Tons/day)	PM2_5_PMTW (Tons/day)	PM2_5_PMBW (Tons/day)	PM2_5_TOTAL (Tons/day)	SOX_RUNEX (Tons/day)
Los Angele	2023	Annual	T6 instate heavy	0	5.06E-05	0	0	0	0	0	0	0

EMFAC 2011  
 2024 Estimated Annual Emissions  
 EMFAC 2011 Vehicle Categories

Los Angeles COUNTY  
 South Coast AIR BASIN  
 South Coast AQMD

Area	CalYr	Season	Veh	PM10_TOTAL (Tons/day)	PM2_5_RUNEX (Tons/day)	PM2_5_IDLEX (Tons/day)	PM2_5_STREX (Tons/day)	PM2_5_TOTEX (Tons/day)	PM2_5_PMTW (Tons/day)	PM2_5_PMBW (Tons/day)	PM2_5_TOTAL (Tons/day)	SOX_RUNEX (Tons/day)
Los Angele	2024	Annual	T6 instate heavy	0	4.85E-05	0	0	0	0	0	0	0

EMFAC 2011  
 2025 Estimated Annual Emissions  
 EMFAC 2011 Vehicle Categories

Los Angeles COUNTY  
 South Coast AIR BASIN  
 South Coast AQMD

Area	CalYr	Season	Veh	PM10_TOTAL (Tons/day)	PM2_5_RUNEX (Tons/day)	PM2_5_IDLEX (Tons/day)	PM2_5_STREX (Tons/day)	PM2_5_TOTEX (Tons/day)	PM2_5_PMTW (Tons/day)	PM2_5_PMBW (Tons/day)	PM2_5_TOTAL (Tons/day)	SOX_RUNEX (Tons/day)
Los Angele	2025	Annual	T6 instate heavy	0	4.97E-05	0	0	0	0	0	0	0

EMFAC 2011  
 2026 Estimated Annual Emissions  
 EMFAC 2011 Vehicle Categories

Los Angeles COUNTY  
 South Coast AIR BASIN  
 South Coast AQMD

Area	CalYr	Season	Veh	PM10_TOTAL (Tons/day)	PM2_5_RUNEX (Tons/day)	PM2_5_IDLEX (Tons/day)	PM2_5_STREX (Tons/day)	PM2_5_TOTEX (Tons/day)	PM2_5_PMTW (Tons/day)	PM2_5_PMBW (Tons/day)	PM2_5_TOTAL (Tons/day)	SOX_RUNEX (Tons/day)
Los Angele	2026	Annual	T6 instate heavy	0	5.09E-05	0	0	0	0	0	0	0

**offsite transit**

Clean Trucks Program  
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 EMFAC 2011 Vehicle Categories  
 Los Angeles COUNTY  
 South Coast AIR BASIN  
 South Coast AQMD

Los Angeles COUNTY  
 South Coast AIR BASIN

South Coast AQMD

Area	CalYr	Season	Veh	SOX_IDLEX (Tons/day)	SOX_STREX (Tons/day)	SOX_TOTEX (Tons/day)	FUEL_GAS (1000 Gallons)	FUEL_DSL (1000 Gallons)	exhaust ROG lb/mile	exhaust CO lb/mile	exhaust NOx lb/mile	exhaust PM10 lb/mile	tire wear a PM10 lb/mile	exhaust PM2.5 lb/mile	tire wear a PM2.5 lb/mile	exhaust SOx lb/mile
Los Angele	2022	Annual	T6 instate heavy	0	0	0	0	71.9460663	2.76E-03	4.89E-03	9.74E-03	9.49E-05	0.00E+00	8.73E-05	0.00E+00	0.00E+00

EMFAC 2011

2023 Estimated Annual Emissions

EMFAC 2011 Vehicle Categories

Los Angeles COUNTY

South Coast AIR BASIN

South Coast AQMD

Area	CalYr	Season	Veh	SOX_IDLEX (Tons/day)	SOX_STREX (Tons/day)	SOX_TOTEX (Tons/day)	FUEL_GAS (1000 Gallons)	FUEL_DSL (1000 Gallons)	exhaust ROG lb/mile	exhaust CO lb/mile	exhaust NOx lb/mile	exhaust PM10 lb/mile	tire wear a PM10 lb/mile	exhaust PM2.5 lb/mile	tire wear a PM2.5 lb/mile	exhaust SOx lb/mile
Los Angele	2023	Annual	T6 instate heavy	0	0	0	0	71.46400282	2.39E-03	4.24E-03	7.19E-03	8.97E-05	0.00E+00	8.26E-05	0.00E+00	0.00E+00

EMFAC 2011

2024 Estimated Annual Emissions

EMFAC 2011 Vehicle Categories

Los Angeles COUNTY

South Coast AIR BASIN

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Area	CalYr	Season	Veh	SOX_IDLEX (Tons/day)	SOX_STREX (Tons/day)	SOX_TOTEX (Tons/day)	FUEL_GAS (1000 Gallons)	FUEL_DSL (1000 Gallons)	exhaust ROG lb/mile	exhaust CO lb/mile	exhaust NOx lb/mile	exhaust PM10 lb/mile	tire wear a PM10 lb/mile	exhaust PM2.5 lb/mile	tire wear a PM2.5 lb/mile	exhaust SOx lb/mile
Los Angele	2024	Annual	T6 instate heavy	0	0	0	0	71.9768095	2.43E-03	4.31E-03	7.38E-03	9.16E-05	0.00E+00	8.43E-05	0.00E+00	0.00E+00

EMFAC 2011

2025 Estimated Annual Emissions

EMFAC 2011 Vehicle Categories

Los Angeles COUNTY

South Coast AIR BASIN

South Coast AQMD

Area	CalYr	Season	Veh	SOX_IDLEX (Tons/day)	SOX_STREX (Tons/day)	SOX_TOTEX (Tons/day)	FUEL_GAS (1000 Gallons)	FUEL_DSL (1000 Gallons)	exhaust ROG lb/mile	exhaust CO lb/mile	exhaust NOx lb/mile	exhaust PM10 lb/mile	tire wear a PM10 lb/mile	exhaust PM2.5 lb/mile	tire wear a PM2.5 lb/mile	exhaust SOx lb/mile
Los Angele	2025	Annual	T6 instate heavy	0	0	0	0	72.56289808	2.46E-03	4.36E-03	7.52E-03	9.31E-05	0.00E+00	8.57E-05	0.00E+00	0.00E+00

EMFAC 2011

2026 Estimated Annual Emissions

EMFAC 2011 Vehicle Categories

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Area	CalYr	Season	Veh	SOX_IDLEX (Tons/day)	SOX_STREX (Tons/day)	SOX_TOTEX (Tons/day)	FUEL_GAS (1000 Gallons)	FUEL_DSL (1000 Gallons)	exhaust ROG lb/mile	exhaust CO lb/mile	exhaust NOx lb/mile	exhaust PM10 lb/mile	tire wear a PM10 lb/mile	exhaust PM2.5 lb/mile	tire wear a PM2.5 lb/mile	exhaust SOx lb/mile
Los Angele	2026	Annual	T6 instate heavy	0	0	0	0	73.44870537	2.49E-03	4.41E-03	7.61E-03	9.44E-05	0.00E+00	8.68E-05	0.00E+00	0.00E+00

**offsite transit**

Clean Trucks Program

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exhaust ROG lb/mile	exhaust CO lb/mile	exhaust NOx lb/mile	exhaust PM10 lb/mile	tire wear a PM10 lb/mile	exhaust PM2.5 lb/mile	tire wear a PM2.5 lb/mile	exhaust SOx lb/mile
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Los Angeles COUNTY  
 South Coast AIR BASIN  
 South Coast AQMD exhaust  
 Area CalYr Season Veh CO2  
 ton/mile  
 Los Angeles 2022 Annual T6 instate heavy 2.55E-03

EMFAC 2011  
 2023 Estimated Annual Emissions  
 EMFAC 2011 Vehicle Categories  
 Los Angeles COUNTY  
 South Coast AIR BASIN  
 South Coast AQMD exhaust  
 Area CalYr Season Veh CO2  
 ton/mile  
 Los Angeles 2023 Annual T6 instate heavy 2.54E-03

EMFAC 2011  
 2024 Estimated Annual Emissions  
 EMFAC 2011 Vehicle Categories  
 Los Angeles COUNTY  
 South Coast AIR BASIN  
 South Coast AQMD exhaust  
 Area CalYr Season Veh CO2  
 ton/mile  
 Los Angeles 2024 Annual T6 instate heavy 2.54E-03

EMFAC 2011  
 2025 Estimated Annual Emissions  
 EMFAC 2011 Vehicle Categories  
 Los Angeles COUNTY  
 South Coast AIR BASIN  
 South Coast AQMD exhaust  
 Area CalYr Season Veh CO2  
 ton/mile  
 Los Angeles 2025 Annual T6 instate heavy 2.54E-03

EMFAC 2011  
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 EMFAC 2011 Vehicle Categories  
 Los Angeles COUNTY  
 South Coast AIR BASIN  
 South Coast AQMD exhaust  
 Area CalYr Season Veh CO2  
 ton/mile  
 Los Angeles 2026 Annual T6 instate heavy 2.54E-03

**offsite transit**

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 Los Angeles COUNTY  
 South Coast AIR BASIN  
 South Coast AQMD exhaust

Area	CalYr	Season	Veh	Fuel	MdlYr	Speed (Miles/hr)	Pop (Vehicles)	VMT (Miles/day)	Trips (Trips/day)	ROG_RUNEX (Tons/day)	ROG_IDLEX (Tons/day)	ROG_STREX (Tons/day)	ROG_TOTEX (Tons/day)
Los Angele	2013	Annual	LDA	GAS	2007	AllSpeeds	248063.9	8204179.588	1597372	0.098157854	0	0.090031363	0.188189217
Los Angele	2013	Annual	LDA	DSL	2007	AllSpeeds	0	0	0	0	0	0	0
Los Angele	2013	Annual	LDA	GAS	2008	AllSpeeds	246393.3	8521047.199	1594005	0.090839169	0	0.077462792	0.168301961
Los Angele	2013	Annual	LDA	DSL	2008	AllSpeeds	23.88152	825.9042766	154.4979	5.70E-06	0	0	5.70E-06
Los Angele	2013	Annual	LDA	GAS	2009	AllSpeeds	203844.4	7413305.006	1322818	0.073164538	0	0.060777053	0.133941591
Los Angele	2013	Annual	LDA	DSL	2009	AllSpeeds	768.488	27947.99276	4986.988	1.82E-04	0	0	1.82E-04
Los Angele	2013	Annual	LDA	GAS	2010	AllSpeeds	248570	9582184.898	1615543	0.08959958	0	0.070038974	0.159638554
Los Angele	2013	Annual	LDA	DSL	2010	AllSpeeds	1351.746	52108.88205	8785.472	3.17E-04	0	0	3.17E-04
Los Angele	2013	Annual	LDA	GAS	2011	AllSpeeds	239898.6	9923446.465	1563983	0.087888028	0	0.063870423	0.151758451
Los Angele	2013	Annual	LDA	DSL	2011	AllSpeeds	1226.225	50723.05928	7994.186	2.85E-04	0	0	2.85E-04
Los Angele	2013	Annual	LDA	GAS	2012	AllSpeeds	247746.8	1.12E+07	1620102	0.093318477	0	0.061479289	0.154797766
Los Angele	2013	Annual	LDA	DSL	2012	AllSpeeds	1124.676	50986.04158	7354.644	2.62E-04	0	0	2.62E-04
Los Angele	2013	Annual	LDA	GAS	2013	AllSpeeds	240185.4	1.25E+07	1575459	0.094956573	0	0.053757761	0.148714334
Los Angele	2013	Annual	LDA	DSL	2013	AllSpeeds	1044.155	54423.00195	6848.974	2.51E-04	0	0	2.51E-04
Los Angele	2013	Annual	LDT1	GAS	2007	AllSpeeds	11362.47	407819.2829	73166.98	0.004933252	0	0.004163683	0.009096935
Los Angele	2013	Annual	LDT1	DSL	2007	AllSpeeds	0	0	0	0	0	0	0
Los Angele	2013	Annual	LDT1	GAS	2008	AllSpeeds	22860.94	846609.184	147895.5	0.009082794	0	0.007220728	0.016303522
Los Angele	2013	Annual	LDT1	DSL	2008	AllSpeeds	0	0	0	0	0	0	0
Los Angele	2013	Annual	LDT1	GAS	2009	AllSpeeds	20013.67	768110.1203	129875.7	0.007526386	0	0.005911965	0.013438351
Los Angele	2013	Annual	LDT1	DSL	2009	AllSpeeds	0	0	0	0	0	0	0
Los Angele	2013	Annual	LDT1	GAS	2010	AllSpeeds	21567.9	863314.9294	140177.3	0.008055179	0	0.006066503	0.014121682
Los Angele	2013	Annual	LDT1	DSL	2010	AllSpeeds	34.69507	1388.770331	225.4954	1.00E-05	0	0	1.00E-05
Los Angele	2013	Annual	LDT1	GAS	2011	AllSpeeds	20139.92	849110.2554	131299.1	0.007494463	0	0.005344772	0.012839235
Los Angele	2013	Annual	LDT1	DSL	2011	AllSpeeds	47.30273	1994.316343	308.383	1.33E-05	0	0	1.33E-05
Los Angele	2013	Annual	LDT1	GAS	2012	AllSpeeds	19374.13	875009.197	126694.2	0.007236405	0	0.004785345	0.01202175
Los Angele	2013	Annual	LDT1	DSL	2012	AllSpeeds	33.45337	1510.886189	218.7631	9.21E-06	0	0	9.21E-06
Los Angele	2013	Annual	LDT1	GAS	2013	AllSpeeds	19266.41	968819.3096	126375	0.007306644	0	0.004286777	0.011593421
Los Angele	2013	Annual	LDT1	DSL	2013	AllSpeeds	42.63757	2144.055964	279.6745	1.17E-05	0	0	1.17E-05
Los Angele	2013	Annual	T6 instate heavy	DSL	2007	AllSpeeds	508.7522966	36598.29577	0	0.006639742	1.18E-04	0	0.00675746
Los Angele	2013	Annual	T6 instate heavy	DSL	2008	AllSpeeds	429.3837814	32629.65299	0	0.005499851	9.94E-05	0	0.005599203
Los Angele	2013	Annual	T6 instate heavy	DSL	2009	AllSpeeds	268.8764939	21415.53246	0	0.003318552	6.22E-05	0	0.003380766
Los Angele	2013	Annual	T6 instate heavy	DSL	2010	AllSpeeds	334.138356	27566.76727	0	0.002655549	7.73E-05	0	0.002732864
Los Angele	2013	Annual	T6 instate heavy	DSL	2011	AllSpeeds	390.2522835	32799.58987	0	0.002919413	9.03E-05	0	0.003009711
Los Angele	2013	Annual	T6 instate heavy	DSL	2012	AllSpeeds	457.3212719	38271.19459	0	0.003120873	1.06E-04	0	0.00322669
Los Angele	2013	Annual	T6 instate heavy	DSL	2013	AllSpeeds	429.7618788	35964.87087	0	0.002572372	9.94E-05	0	0.002671812
Los Angele	2013	Annual	T6 instate heavy	DSL	2014	AllSpeeds	115.9233664	4042.130759	0	2.70E-04	2.68E-05	0	2.96E-04
Los Angele	2013	Annual	LDA/LDT1	GAS&DSL	>2007	AllSpeeds	1814985.1	73217157.2	11801922.86	0.680906415	0	0.515197428	1.196103843
Los Angele	2013	Annual	T6 instate heavy	DSL	>2007	AllSpeeds	2934.409729	65049575.91	10204550.86	0.589388304	0.000117717	0.425166065	1.014672086

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Area	CalYr	Season	Veh	Fuel	MdlYr	Speed (Miles/hr)	Pop (Vehicles)	VMT (Miles/day)	Trips (Trips/day)	ROG_RUNEX (Tons/day)	ROG_IDLEX (Tons/day)	ROG_STREX (Tons/day)	ROG_TOTEX (Tons/day)
Los Angele	2014	Annual	LDA	GAS	2007	AllSpeeds	240319.6	7634983.605	1542697	0.094162606	0	0.089589827	0.183752433
Los Angele	2014	Annual	LDA	DSL	2007	AllSpeeds	0	0	0	0	0	0	0
Los Angele	2014	Annual	LDA	GAS	2008	AllSpeeds	238164.7	7876788.405	1533627	0.088557414	0	0.078015074	0.166572488
Los Angele	2014	Annual	LDA	DSL	2008	AllSpeeds	23.88152	789.8369735	153.7816	5.76E-06	0	0	5.76E-06
Los Angele	2014	Annual	LDA	GAS	2009	AllSpeeds	200886.2	6947324.277	1299604	0.076334461	0	0.064781092	0.141115553
Los Angele	2014	Annual	LDA	DSL	2009	AllSpeeds	768.488	26576.93802	4971.621	1.83E-04	0	0	1.83E-04
Los Angele	2014	Annual	LDA	GAS	2010	AllSpeeds	247037.9	8984137.833	1603116	0.090091334	0	0.074082188	0.164173522

Area	CalYr	Season	Veh	ROG_DIURN (Tons/day)	ROG_HTSK (Tons/day)	ROG_RUNLS (Tons/day)	ROG_RESTL (Tons/day)	ROG_TOTAL (Tons/day)	TOG_RUNEX (Tons/day)	TOG_IDLEX (Tons/day)	TOG_STREX (Tons/day)	TOG_TOTEX (Tons/day)
Los Angele	2013	Annual	LDA	0.016824311	0.049531654	0.2239677	0.017362908	0.49587579	0.182684194	0	0.096125722	0.278809916
Los Angele	2013	Annual	LDA	0	0	0	0	0	0	0	0	0
Los Angele	2013	Annual	LDA	0.013281424	0.03429684	0.2005928	0.01267767	0.429150695	0.169063191	0	0.082706369	0.25176956
Los Angele	2013	Annual	LDA	0	0	0	0	5.70E-06	6.49E-06	0	0	6.49E-06
Los Angele	2013	Annual	LDA	0.009010568	0.019805474	0.1521274	0.007883037	0.32276807	0.136168469	0	0.064891152	0.201059621
Los Angele	2013	Annual	LDA	0	0	0	0	1.82E-04	2.07E-04	0	0	2.07E-04
Los Angele	2013	Annual	LDA	0.009392045	0.017279083	0.1723691	0.007534524	0.366213306	0.166756166	0	0.074780025	0.241536191
Los Angele	2013	Annual	LDA	0	0	0	0	3.17E-04	3.60E-04	0	0	3.60E-04
Los Angele	2013	Annual	LDA	0.008028825	0.012340296	0.1566605	0.00594867	0.334682742	0.163570749	0	0.068193898	0.231764647
Los Angele	2013	Annual	LDA	0	0	0	0	2.85E-04	3.25E-04	0	0	3.25E-04
Los Angele	2013	Annual	LDA	0.007525827	0.009742696	0.1537543	0.005208999	0.331029588	0.173677489	0	0.065640926	0.239318415
Los Angele	2013	Annual	LDA	0	0	0	0	2.62E-04	2.99E-04	0	0	2.99E-04
Los Angele	2013	Annual	LDA	0.006952722	0.007856849	0.1429662	0.004584564	0.311074668	0.176726199	0	0.057396714	0.234122913
Los Angele	2013	Annual	LDA	0	0	0	0	2.51E-04	2.86E-04	0	0	2.86E-04
Los Angele	2013	Annual	LDT1	0.001003019	0.002342308	0.009792146	0.001035129	0.023269538	0.009181405	0	0.00444553	0.013626935
Los Angele	2013	Annual	LDT1	0	0	0	0	0	0	0	0	0
Los Angele	2013	Annual	LDT1	0.001602289	0.003323668	0.016656542	0.001529452	0.039415472	0.016904228	0	0.00770951	0.024613738
Los Angele	2013	Annual	LDT1	0	0	0	0	0	0	0	0	0
Los Angele	2013	Annual	LDT1	0.001150372	0.002066662	0.012621982	0.001006421	0.030283788	0.014007557	0	0.006312155	0.020319712
Los Angele	2013	Annual	LDT1	0	0	0	0	0	0	0	0	0
Los Angele	2013	Annual	LDT1	0.0010591	0.001627929	0.011951362	8.50E-04	0.029609707	0.014991708	0	0.006477154	0.021468861
Los Angele	2013	Annual	LDT1	0	0	0	0	1.00E-05	1.14E-05	0	0	1.14E-05
Los Angele	2013	Annual	LDT1	8.76E-04	0.001154533	0.010256294	6.49E-04	0.025774929	0.013948144	0	0.005706569	0.019654713
Los Angele	2013	Annual	LDT1	0	0	0	0	1.33E-05	1.52E-05	0	0	1.52E-05
Los Angele	2013	Annual	LDT1	7.65E-04	8.74E-04	0.009319048	5.29E-04	0.023508913	0.013467865	0	0.005109272	0.018577137
Los Angele	2013	Annual	LDT1	0	0	0	0	9.21E-06	1.05E-05	0	0	1.05E-05
Los Angele	2013	Annual	LDT1	7.25E-04	7.42E-04	0.00856759	4.78E-04	0.022105576	0.013598589	0	0.004576956	0.018175545
Los Angele	2013	Annual	LDT1	0	0	0	0	1.17E-05	1.34E-05	0	0	1.34E-05
Los Angele	2013	Annual	T6 instate heavy	0	0	0	0	0.00675746	0.007558841	1.34E-04	0	0.007692853
Los Angele	2013	Annual	T6 instate heavy	0	0	0	0	0.005599203	0.006261161	1.13E-04	0	0.006374267
Los Angele	2013	Annual	T6 instate heavy	0	0	0	0	0.003380766	0.003777919	7.08E-05	0	0.003848744
Los Angele	2013	Annual	T6 instate heavy	0	0	0	0	0.002732864	0.003023141	8.80E-05	0	0.003111157
Los Angele	2013	Annual	T6 instate heavy	0	0	0	0	0.003009711	0.00332353	1.03E-04	0	0.003426327
Los Angele	2013	Annual	T6 instate heavy	0	0	0	0	0.00322669	0.003552876	1.20E-04	0	0.003673341
Los Angele	2013	Annual	T6 instate heavy	0	0	0	0	0.002671812	0.002928449	1.13E-04	0	0.003041655
Los Angele	2013	Annual	T6 instate heavy	0	0	0	0	2.96E-04	3.07E-04	3.05E-05	0	3.37E-04
Los Angele	2013	Annual	LDA/LDT1	0.078195842	0.162984056	1.281548965	0.067277153	2.786109859	1.266279508	0	0.550071952	1.81635146
Los Angele	2013	Annual	T6 instate heavy	0.061371531	0.113452402	1.057581265	0.049914245	2.296991528	1.091154156	0.000134012	0.45394623	1.545234398

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Area	CalYr	Season	Veh	ROG_DIURN (Tons/day)	ROG_HTSK (Tons/day)	ROG_RUNLS (Tons/day)	ROG_RESTL (Tons/day)	ROG_TOTAL (Tons/day)	TOG_RUNEX (Tons/day)	TOG_IDLEX (Tons/day)	TOG_STREX (Tons/day)	TOG_TOTEX (Tons/day)
Los Angele	2014	Annual	LDA	0.020411622	0.066329338	0.2615325	0.022022355	0.554048248	0.175248538	0	0.095654309	0.270902847
Los Angele	2014	Annual	LDA	0	0	0	0	0	0	0	0	0
Los Angele	2014	Annual	LDA	0.015685163	0.04582946	0.212996	0.016115477	0.457198588	0.16481656	0	0.083296031	0.248112591
Los Angele	2014	Annual	LDA	0	0	0	0	5.76E-06	6.55E-06	0	0	6.55E-06
Los Angele	2014	Annual	LDA	0.010483874	0.026762808	0.1623283	0.009943793	0.350634327	0.142068097	0	0.069166228	0.211234325
Los Angele	2014	Annual	LDA	0	0	0	0	1.83E-04	2.09E-04	0	0	2.09E-04
Los Angele	2014	Annual	LDA	0.010630494	0.02310062	0.1832797	0.009245927	0.390430262	0.16767138	0	0.079096928	0.246768308

Area	CalYr	Season	Veh	TOG_DIURN (Tons/day)	TOG_HTSK (Tons/day)	TOG_RUNLS (Tons/day)	TOG_RESTL (Tons/day)	TOG_TOTAL (Tons/day)	CO_RUNEX (Tons/day)	CO_IDLEX (Tons/day)	CO_STREX (Tons/day)	CO_TOTEX (Tons/day)
Los Angele	2013	Annual	LDA	0.016824311	0.049531654	0.2239677	0.017362908	0.586496489	6.178388894	0	1.678577	7.856965894
Los Angele	2013	Annual	LDA	0	0	0	0	0	0	0	0	0
Los Angele	2013	Annual	LDA	0.013281424	0.03429684	0.2005928	0.01267767	0.512618294	5.54567262	0	1.390369	6.93604162
Los Angele	2013	Annual	LDA	0	0	0	0	6.49E-06	5.33E-05	0	0	5.33E-05
Los Angele	2013	Annual	LDA	0.009010568	0.019805474	0.1521274	0.007883037	0.389886101	4.285529793	0	0.9889135	5.274443293
Los Angele	2013	Annual	LDA	0	0	0	0	2.07E-04	0.001694933	0	0	0.001694933
Los Angele	2013	Annual	LDA	0.009392045	0.017279083	0.1723691	0.007534524	0.448110944	4.998102294	0	1.053867	6.051969294
Los Angele	2013	Annual	LDA	0	0	0	0	3.60E-04	0.002949497	0	0	0.002949497
Los Angele	2013	Annual	LDA	0.008028825	0.012340296	0.1566065	0.00594867	0.414688938	4.836065737	0	0.9400933	5.776159037
Los Angele	2013	Annual	LDA	0	0	0	0	3.25E-04	0.002653657	0	0	0.002653657
Los Angele	2013	Annual	LDA	0.007525827	0.009742696	0.1537543	0.005208999	0.415550237	5.134827491	0	0.9052902	6.040117691
Los Angele	2013	Annual	LDA	0	0	0	0	2.99E-04	0.002432928	0	0	0.002432928
Los Angele	2013	Annual	LDA	0.006952722	0.007856849	0.1429662	0.004584564	0.396483247	5.380316496	0	0.825644	6.205960496
Los Angele	2013	Annual	LDA	0	0	0	0	2.86E-04	0.002320763	0	0	0.002320763
Los Angele	2013	Annual	LDT1	0.001003019	0.002342308	0.009792146	0.001035129	0.027799538	0.31057364	0	0.078022182	0.388595822
Los Angele	2013	Annual	LDT1	0	0	0	0	0	0	0	0	0
Los Angele	2013	Annual	LDT1	0.001602289	0.003323668	0.016656542	0.001529452	0.047725689	0.554060321	0	0.1300489	0.684109221
Los Angele	2013	Annual	LDT1	0	0	0	0	0	0	0	0	0
Los Angele	2013	Annual	LDT1	0.001150372	0.002066662	0.012621982	0.001006421	0.037165149	0.441719682	0	0.096605442	0.538325124
Los Angele	2013	Annual	LDT1	0	0	0	0	0	0	0	0	0
Los Angele	2013	Annual	LDT1	0.0010591	0.001627929	0.011951362	8.50E-04	0.036956887	0.448917803	0	0.091229059	0.540146862
Los Angele	2013	Annual	LDT1	0	0	0	0	1.14E-05	9.28E-05	0	0	9.28E-05
Los Angele	2013	Annual	LDT1	8.76E-04	0.001154533	0.010256294	6.49E-04	0.032590407	0.412019179	0	0.078635357	0.490654536
Los Angele	2013	Annual	LDT1	0	0	0	0	1.52E-05	1.23E-04	0	0	1.23E-04
Los Angele	2013	Annual	LDT1	7.65E-04	8.74E-04	0.009319048	5.29E-04	0.0300643	0.398183683	0	0.070531555	0.468715238
Los Angele	2013	Annual	LDT1	0	0	0	0	1.05E-05	8.45E-05	0	0	8.45E-05
Los Angele	2013	Annual	LDT1	7.25E-04	7.42E-04	0.00856759	4.78E-04	0.0286877	0.414754019	0	0.066059209	0.480813228
Los Angele	2013	Annual	LDT1	0	0	0	0	1.34E-05	1.07E-04	0	0	1.07E-04
Los Angele	2013	Annual	T6 instate heavy	0	0	0	0	0.007692853	0.027677801	0.001392015	0	0.029069815
Los Angele	2013	Annual	T6 instate heavy	0	0	0	0	0.006374267	0.022926156	0.001174852	0	0.024101007
Los Angele	2013	Annual	T6 instate heavy	0	0	0	0	0.003848744	0.0138334	7.36E-04	0	0.014569083
Los Angele	2013	Annual	T6 instate heavy	0	0	0	0	0.003111157	0.01106967	9.14E-04	0	0.011983918
Los Angele	2013	Annual	T6 instate heavy	0	0	0	0	0.003426327	0.012169589	0.001067783	0	0.013237372
Los Angele	2013	Annual	T6 instate heavy	0	0	0	0	0.003673341	0.013009374	0.001251293	0	0.014260667
Los Angele	2013	Annual	T6 instate heavy	0	0	0	0	0.003041655	0.010722945	0.001175886	0	0.011898831
Los Angele	2013	Annual	T6 instate heavy	0	0	0	0	3.37E-04	0.001123666	3.17E-04	0	0.001440848
Los Angele	2013	Annual	LDA/LDT1	0.078195842	0.162984056	1.281548965	0.067277153	3.406357475	39.3516437	0	8.393885704	47.7455294
Los Angele	2013	Annual	T6 instate heavy	0.061371531	0.113452402	1.057581265	0.049914245	2.82755384	33.2009326	0.001392015	6.715308704	39.91763332

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Los Angele	2014	Annual	LDA	0.020411622	0.066329338	0.2615325	0.022022355	0.641198662	5.976363701	0	1.697667	7.674030701
Los Angele	2014	Annual	LDA	0	0	0	0	0	0	0	0	0
Los Angele	2014	Annual	LDA	0.015685163	0.04582946	0.212996	0.016115477	0.538738691	5.473612859	0	1.446453	6.920065859
Los Angele	2014	Annual	LDA	0	0	0	0	6.55E-06	5.38E-05	0	0	5.38E-05
Los Angele	2014	Annual	LDA	0.010483874	0.026762808	0.1623283	0.009943793	0.4207531	4.506308967	0	1.1199	5.626208967
Los Angele	2014	Annual	LDA	0	0	0	0	2.09E-04	0.001713974	0	0	0.001713974
Los Angele	2014	Annual	LDA	0.010630494	0.02310062	0.1832797	0.009245927	0.473025049	5.108530424	0	1.164108	6.272638424

Area	CalYr	Season	Veh	NOX_RUNEX (Tons/day)	NOX_IDLEX (Tons/day)	NOX_STREX (Tons/day)	NOX_TOTEX (Tons/day)	CO2_RUNEX (Tons/day)	CO2_IDLEX (Tons/day)	CO2_STREX (Tons/day)	CO2_TOTEX (Tons/day)	CO2_RUNEX(Pavt) (Tons/day)
Los Angele	2013	Annual	LDA	0.480427542	0	0.08381702	0.564244562	3350.543909	0	130.6236	3481.167509	3317.03847
Los Angele	2013	Annual	LDA	0	0	0	0	0	0	0	0	0
Los Angele	2013	Annual	LDA	0.456384032	0	0.073842876	0.530226908	3481.389591	0	130.3615	3611.751091	3446.575695
Los Angele	2013	Annual	LDA	1.77E-04	0	0	1.77E-04	0.289167044	0	0	0.289167044	0.286275374
Los Angele	2013	Annual	LDA	0.395191662	0	0.060451131	0.455642793	3034.743223	0	108.3622	3143.105423	3004.395791
Los Angele	2013	Annual	LDA	0.005684107	0	0	0.005684107	9.785199201	0	0	9.785199201	9.687347209
Los Angele	2013	Annual	LDA	0.491682352	0	0.06892167	0.560604022	3923.574732	0	132.333	4055.907732	3748.38712
Los Angele	2013	Annual	LDA	0.009973691	0	0	0.009973691	18.24445236	0	0	18.24445236	17.42983756
Los Angele	2013	Annual	LDA	0.47652598	0	0.059320509	0.535846489	4064.565418	0	128.1092	4192.674618	3444.475318
Los Angele	2013	Annual	LDA	0.009064293	0	0	0.009064293	17.75924558	0	0	17.75924558	15.04989508
Los Angele	2013	Annual	LDA	0.502024171	0	0.053651277	0.555675448	4601.452372	0	132.6988	4734.151172	3402.912072
Los Angele	2013	Annual	LDA	0.008416502	0	0	0.008416502	17.85132175	0	0	17.85132175	13.20158798
Los Angele	2013	Annual	LDA	0.515980143	0	0.044228621	0.560208764	5130.31061	0	129.0367	5259.34731	3697.517463
Los Angele	2013	Annual	LDA	0.008165572	0	0	0.008165572	19.05467573	0	0	19.05467573	13.73308589
Los Angele	2013	Annual	LDT1	0.024076241	0	0.003884341	0.027960582	194.035776	0	6.97457	201.010346	192.0954183
Los Angele	2013	Annual	LDT1	0	0	0	0	0	0	0	0	0
Los Angele	2013	Annual	LDT1	0.045433076	0	0.006875516	0.052308592	402.571046	0	14.08541	416.656456	398.5453356
Los Angele	2013	Annual	LDT1	0	0	0	0	0	0	0	0	0
Los Angele	2013	Annual	LDT1	0.040684848	0	0.005883759	0.046568607	365.9792749	0	12.39047	378.3697449	362.3194821
Los Angele	2013	Annual	LDT1	0	0	0	0	0	0	0	0	0
Los Angele	2013	Annual	LDT1	0.044193481	0	0.005960771	0.050154252	411.2120103	0	13.36499	424.5770003	392.8513941
Los Angele	2013	Annual	LDT1	3.19E-04	0	0	3.19E-04	0.486238663	0	0	0.486238663	0.464528107
Los Angele	2013	Annual	LDT1	0.040618998	0	0.004950474	0.045569472	404.5258394	0	12.51719	417.0430294	342.8113773
Los Angele	2013	Annual	LDT1	4.26E-04	0	0	4.26E-04	0.69825347	0	0	0.69825347	0.591727921
Los Angele	2013	Annual	LDT1	0.03892705	0	0.004162028	0.043089078	416.959875	0	12.07729	429.037165	308.3543363
Los Angele	2013	Annual	LDT1	2.98E-04	0	0	2.98E-04	0.528994194	0	0	0.528994194	0.391207076
Los Angele	2013	Annual	LDT1	0.039756452	0	0.003520005	0.043276457	461.7445861	0	12.04537	473.7899561	332.7885581
Los Angele	2013	Annual	LDT1	3.84E-04	0	0	3.84E-04	0.750680656	0	0	0.750680656	0.541030562
Los Angele	2013	Annual	T6 instate heavy	0.17738577	0.002103049	0	0.179488818	46.91652708	0.418240466	0	47.33476754	46.4473618
Los Angele	2013	Annual	T6 instate heavy	0.143320596	0.00177496	0	0.145095556	41.82899683	0.352992358	0	42.18198919	41.41070686
Los Angele	2013	Annual	T6 instate heavy	0.080197749	0.001111465	0	0.081309213	27.4532567	0.22104083	0	27.67429753	27.17872413
Los Angele	2013	Annual	T6 instate heavy	0.035450709	0.00138124	0	0.03683195	34.15797085	0.274691992	0	34.43266284	33.81639114
Los Angele	2013	Annual	T6 instate heavy	0.034412948	0.001613201	0	0.036026149	40.64195933	0.320822722	0	40.96278205	40.23553974
Los Angele	2013	Annual	T6 instate heavy	0.029609323	0.001890446	0	0.03149977	47.42182266	0.375959505	0	47.79778216	46.94760443
Los Angele	2013	Annual	T6 instate heavy	0.022815035	0.001776523	0	0.024591558	44.46149381	0.353303188	0	44.814797	44.01687887
Los Angele	2013	Annual	T6 instate heavy	0.002210126	4.79E-04	0	0.002689323	4.997075407	0.095299506	0	5.092374914	4.947104653
Los Angele	2013	Annual	LDA/LDT1	3.634813858	0	0.479469997	4.114283855	30329.05649	0	974.98029	31304.03678	26462.44435
Los Angele	2013	Annual	T6 instate heavy	3.331772086	0.002103049	0.395652977	3.729528112	27025.42911	0.418240466	844.35669	27870.20404	23191.85324

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Area	CalYr	Season	Veh	NOX_RUNEX (Tons/day)	NOX_IDLEX (Tons/day)	NOX_STREX (Tons/day)	NOX_TOTEX (Tons/day)	CO2_RUNEX (Tons/day)	CO2_IDLEX (Tons/day)	CO2_STREX (Tons/day)	CO2_TOTEX (Tons/day)	CO2_RUNEX(Pavt) (Tons/day)
Los Angele	2014	Annual	LDA	0.461334981	0	0.084710449	0.54604543	3117.059058	0	126.1504	3243.209458	3070.303172
Los Angele	2014	Annual	LDA	0	0	0	0	0	0	0	0	0
Los Angele	2014	Annual	LDA	0.44991021	0	0.077663027	0.527573237	3217.066521	0	125.4198	3342.486321	3168.810523
Los Angele	2014	Annual	LDA	1.78E-04	0	0	1.78E-04	0.276539104	0	0	0.276539104	0.272391017
Los Angele	2014	Annual	LDA	0.39014721	0	0.064416617	0.454563827	2843.100772	0	106.4606	2949.561372	2800.45426
Los Angele	2014	Annual	LDA	0.005708047	0	0	0.005708047	9.305164045	0	0	9.305164045	9.165586585
Los Angele	2014	Annual	LDA	0.496211227	0	0.077041693	0.57325292	3677.552947	0	131.3152	3808.868147	3495.606015

Area	CalYr	Season	Veh	CO2_IDLEX(Pavk (Tons/day)	CO2_STREX(Pavk (Tons/day)	CO2_TOTEX(Pavk (Tons/day)	PM10_RUNEX (Tons/day)	PM10_IDLEX (Tons/day)	PM10_STREX (Tons/day)	PM10_TOTEX (Tons/day)	PM10_PMTW (Tons/day)	PM10_PMBW (Tons/day)
Los Angele	2013	Annual	LDA	0	129.317364	3446.355834	0.002587623	0	3.15E-04	0.002902882	0.07234849	0.3323509
Los Angele	2013	Annual	LDA	0	0	0	0	0	0	0	0	0
Los Angele	2013	Annual	LDA	0	129.057885	3575.63358	0.002687836	0	4.09E-04	0.00309685	0.075142764	0.3451872
Los Angele	2013	Annual	LDA	0	0	0.286275374	3.52E-06	0	0	3.52E-06	7.28E-06	3.35E-05
Los Angele	2013	Annual	LDA	0	107.278578	3111.674369	0.003123023	0	5.37E-04	0.003660035	0.065374166	0.3003126
Los Angele	2013	Annual	LDA	0	0	9.687347209	1.13E-04	0	0	1.13E-04	2.46E-04	0.001132172
Los Angele	2013	Annual	LDA	0	126.4243316	3874.811451	0.004036451	0	8.09E-04	0.004845559	0.084500417	0.3881738
Los Angele	2013	Annual	LDA	0	0	17.42983756	1.98E-04	0	0	1.98E-04	4.60E-04	0.002110928
Los Angele	2013	Annual	LDA	0	108.5648604	3553.040178	0.006270291	0	0.00145938	0.00772967	0.087509833	0.4019983
Los Angele	2013	Annual	LDA	0	0	15.04989508	1.80E-04	0	0	1.80E-04	4.47E-04	0.002054788
Los Angele	2013	Annual	LDA	0	98.13474356	3501.046816	0.009461757	0	0.002126578	0.011588335	0.099043429	0.4549808
Los Angele	2013	Annual	LDA	0	0	13.20158798	1.67E-04	0	0	1.67E-04	4.50E-04	0.002065442
Los Angele	2013	Annual	LDA	0	92.99933042	3790.516794	0.015818908	0	0.003874179	0.019693086	0.1103971	0.5071365
Los Angele	2013	Annual	LDA	0	0	13.73308589	1.62E-04	0	0	1.62E-04	4.80E-04	0.002204673
Los Angele	2013	Annual	LDT1	0	6.9048243	199.0002426	1.29E-04	0	1.45E-05	1.43E-04	0.00359635	0.016520739
Los Angele	2013	Annual	LDT1	0	0	0	0	0	0	0	0	0
Los Angele	2013	Annual	LDT1	0	13.9445559	412.4898915	2.67E-04	0	3.80E-05	3.05E-04	0.007465816	0.034296099
Los Angele	2013	Annual	LDT1	0	0	0	0	0	0	0	0	0
Los Angele	2013	Annual	LDT1	0	12.2665653	374.5860474	3.24E-04	0	5.27E-05	3.76E-04	0.006773572	0.031116102
Los Angele	2013	Annual	LDT1	0	0	0	0	0	0	0	0	0
Los Angele	2013	Annual	LDT1	0	12.7682432	405.6196373	3.64E-04	0	7.02E-05	4.34E-04	0.007613136	0.034972843
Los Angele	2013	Annual	LDT1	0	0	0.464528107	5.28E-06	0	0	5.28E-06	1.22E-05	5.63E-05
Los Angele	2013	Annual	LDT1	0	10.60756749	353.4189448	5.36E-04	0	1.22E-04	6.59E-04	0.007487872	0.034397408
Los Angele	2013	Annual	LDT1	0	0	0.591727921	7.06E-06	0	0	7.06E-06	1.76E-05	8.08E-05
Los Angele	2013	Annual	LDT1	0	8.931518274	317.2858546	7.37E-04	0	1.66E-04	9.03E-04	0.00771626	0.03544658
Los Angele	2013	Annual	LDT1	0	0	0.391207076	4.93E-06	0	0	4.93E-06	1.33E-05	6.12E-05
Los Angele	2013	Annual	LDT1	0	8.681339066	341.4698972	0.001223608	0	3.11E-04	0.001534221	0.008543524	0.039246816
Los Angele	2013	Annual	LDT1	0	0	0.541030562	6.37E-06	0	0	6.37E-06	1.89E-05	8.69E-05
Los Angele	2013	Annual	T6 instate heavy	0.414058061	0	46.86141987	0.001951258	4.94E-06	0	0.0019562	4.84E-04	0.00525827
Los Angele	2013	Annual	T6 instate heavy	0.349462434	0	41.7601693	0.001621754	4.17E-06	0	0.001625925	4.32E-04	0.004688074
Los Angele	2013	Annual	T6 instate heavy	0.218830422	0	27.39755455	9.83E-04	2.61E-06	0	9.85E-04	2.83E-04	0.003076882
Los Angele	2013	Annual	T6 instate heavy	0.271945072	0	34.08833621	0.001154589	3.25E-06	0	0.001157836	3.65E-04	0.003960662
Los Angele	2013	Annual	T6 instate heavy	0.317614495	0	40.55315423	0.001237824	3.79E-06	0	0.001241615	4.34E-04	0.004712489
Los Angele	2013	Annual	T6 instate heavy	0.37219991	0	47.31980434	0.00128273	4.44E-06	0	0.001287173	5.06E-04	0.005498624
Los Angele	2013	Annual	T6 instate heavy	0.349770156	0	44.36664903	0.001004689	4.18E-06	0	0.001008864	4.76E-04	0.005167262
Los Angele	2013	Annual	T6 instate heavy	0.094346511	0	5.041451164	1.01E-04	1.13E-06	0	1.03E-04	5.35E-05	5.81E-04
Los Angele	2013	Annual	LDA/LDT1	0	865.8817065	27328.32606	0.048412868	0	0.010305181	0.05871805	0.645664907	2.966023258
Los Angele	2013	Annual	T6 instate heavy	0.414058061	736.5643425	23928.83165	0.047776503	4.94286E-06	0.009989922	0.057771368	0.57380053	2.638930627

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Area	CalYr	Season	Veh	CO2_IDLEX(Pavk (Tons/day)	CO2_STREX(Pavk (Tons/day)	CO2_TOTEX(Pavk (Tons/day)	PM10_RUNEX (Tons/day)	PM10_IDLEX (Tons/day)	PM10_STREX (Tons/day)	PM10_TOTEX (Tons/day)	PM10_PMTW (Tons/day)	PM10_PMBW (Tons/day)
Los Angele	2014	Annual	LDA	0	124.258144	3194.561316	0.002408055	0	3.04E-04	0.002712518	0.067329019	0.3092928
Los Angele	2014	Annual	LDA	0	0	0	0	0	0	0	0	0
Los Angele	2014	Annual	LDA	0	123.538503	3292.349026	0.002484538	0	3.94E-04	0.002878048	0.069461383	0.3190882
Los Angele	2014	Annual	LDA	0	0	0.272391017	3.53E-06	0	0	3.53E-06	6.97E-06	3.20E-05
Los Angele	2014	Annual	LDA	0	104.863691	2905.317951	0.002926719	0	5.28E-04	0.003454307	0.061264914	0.2814358
Los Angele	2014	Annual	LDA	0	0	9.165586585	1.13E-04	0	0	1.13E-04	2.34E-04	0.00107663
Los Angele	2014	Annual	LDA	0	124.8183805	3620.424395	0.003784532	0	8.03E-04	0.004587417	0.079226531	0.3639469



Area	CalYr	Season	Veh	PM10_TOTAL (Tons/day)	PM2_5_RUNEX (Tons/day)	PM2_5_IDLEX (Tons/day)	PM2_5_STREX (Tons/day)	PM2_5_TOTEX (Tons/day)	PM2_5_PMTW (Tons/day)	PM2_5_PMBW (Tons/day)	PM2_5_TOTAL (Tons/day)	SOX_RUNEX (Tons/day)
Los Angele	2013	Annual	LDA	0.407602272	0.002400887	0	2.93E-04	0.002693396	0.018087123	0.1424361	0.163216619	0.033546504
Los Angele	2013	Annual	LDA	0	0	0	0	0	0	0	0	0
Los Angele	2013	Annual	LDA	0.423426814	0.002493868	0	3.79E-04	0.002873366	0.018785691	0.1479373	0.169596357	0.034842253
Los Angele	2013	Annual	LDA	4.43E-05	3.24E-06	0	0	3.24E-06	1.82E-06	1.43E-05	1.94E-05	2.76E-06
Los Angele	2013	Annual	LDA	0.369346801	0.00289765	0	4.98E-04	0.003395908	0.016343541	0.1287054	0.148444849	0.030363221
Los Angele	2013	Annual	LDA	0.001491371	1.04E-04	0	0	1.04E-04	6.16E-05	4.85E-04	6.51E-04	9.34E-05
Los Angele	2013	Annual	LDA	0.477519776	0.00374516	0	7.51E-04	0.004495879	0.021125104	0.1663602	0.191981183	0.039247379
Los Angele	2013	Annual	LDA	0.002768335	1.82E-04	0	0	1.82E-04	1.15E-04	9.05E-04	0.001201618	1.74E-04
Los Angele	2013	Annual	LDA	0.497237803	0.005817795	0	0.001354063	0.007171858	0.021877458	0.172285	0.201334316	0.040652085
Los Angele	2013	Annual	LDA	0.002682003	1.66E-04	0	0	1.66E-04	1.12E-04	8.81E-04	0.001157969	1.70E-04
Los Angele	2013	Annual	LDA	0.565612564	0.008778949	0	0.001973113	0.010752063	0.024760857	0.1949918	0.23050472	0.046016142
Los Angele	2013	Annual	LDA	0.002682201	1.54E-04	0	0	1.54E-04	1.12E-04	8.85E-04	0.001151362	1.70E-04
Los Angele	2013	Annual	LDA	0.637226686	0.014677335	0	0.003594599	0.018271933	0.027599264	0.2173442	0.263215397	0.051299013
Los Angele	2013	Annual	LDA	0.002846863	1.49E-04	0	0	1.49E-04	1.20E-04	9.45E-04	0.001214122	1.82E-04
Los Angele	2013	Annual	LDT1	0.020260328	1.19E-04	0	1.34E-05	1.33E-04	8.99E-04	0.007080315	0.008112304	0.001941955
Los Angele	2013	Annual	LDT1	0	0	0	0	0	0	0	0	0
Los Angele	2013	Annual	LDT1	0.042066975	2.48E-04	0	3.52E-05	2.83E-04	0.001866454	0.014698325	0.016847825	0.004027546
Los Angele	2013	Annual	LDT1	0	0	0	0	0	0	0	0	0
Los Angele	2013	Annual	LDT1	0.038266082	3.00E-04	0	4.89E-05	3.49E-04	0.001693393	0.013335472	0.015378109	0.00366045
Los Angele	2013	Annual	LDT1	0	0	0	0	0	0	0	0	0
Los Angele	2013	Annual	LDT1	0.043019725	3.37E-04	0	6.51E-05	4.02E-04	0.001903284	0.014988361	0.01729409	0.004112093
Los Angele	2013	Annual	LDT1	7.38E-05	4.86E-06	0	0	4.86E-06	3.06E-06	2.41E-05	3.20E-05	4.64E-06
Los Angele	2013	Annual	LDT1	0.042544064	4.98E-04	0	1.14E-04	6.11E-04	0.001871968	0.014741745	0.017224956	0.004044745
Los Angele	2013	Annual	LDT1	1.05E-04	6.50E-06	0	0	6.50E-06	4.40E-06	3.46E-05	4.55E-05	6.67E-06
Los Angele	2013	Annual	LDT1	0.044065916	6.84E-04	0	1.54E-04	8.38E-04	0.001929065	0.015191391	0.017958361	0.004168627
Los Angele	2013	Annual	LDT1	7.95E-05	4.54E-06	0	0	4.54E-06	3.33E-06	2.62E-05	3.41E-05	5.05E-06
Los Angele	2013	Annual	LDT1	0.049324561	0.001135306	0	2.88E-04	0.001423504	0.002135881	0.016820064	0.020379449	0.004615921
Los Angele	2013	Annual	LDT1	1.12E-04	5.86E-06	0	0	5.86E-06	4.73E-06	3.72E-05	4.78E-05	7.17E-06
Los Angele	2013	Annual	T6 instate heavy	0.007698583	0.001795157	4.55E-06	0	0.001799704	1.21E-04	0.002253544	0.004174277	4.48E-04
Los Angele	2013	Annual	T6 instate heavy	0.006745616	0.001492013	3.84E-06	0	0.001495851	1.08E-04	0.002009174	0.00361293	3.99E-04
Los Angele	2013	Annual	T6 instate heavy	0.004345414	9.04E-04	2.40E-06	0	9.06E-04	7.08E-05	0.001318664	0.002295916	2.62E-04
Los Angele	2013	Annual	T6 instate heavy	0.005483144	0.001062222	2.99E-06	0	0.001065209	9.12E-05	0.001697427	0.002853797	3.26E-04
Los Angele	2013	Annual	T6 instate heavy	0.006387969	0.001138798	3.49E-06	0	0.001142286	1.08E-04	0.002019638	0.00327039	3.88E-04
Los Angele	2013	Annual	T6 instate heavy	0.007292038	0.001180111	4.09E-06	0	0.001184199	1.27E-04	0.002356553	0.003667312	4.52E-04
Los Angele	2013	Annual	T6 instate heavy	0.00665186	9.24E-04	3.84E-06	0	9.28E-04	1.19E-04	0.002214541	0.003261629	4.24E-04
Los Angele	2013	Annual	T6 instate heavy	7.37E-04	9.34E-05	1.04E-06	0	9.44E-05	1.34E-05	2.49E-04	3.57E-04	4.77E-05
Los Angele	2013	Annual	LDA/LDT1	3.670406215	0.044912514	0	0.009561508	0.054474022	0.161416215	1.271152775	1.487043011	0.303353674
Los Angele	2013	Annual	T6 instate heavy	3.270502525	0.044306784	4.54743E-06	0.009268999	0.053580331	0.14345012	1.130970219	1.328000669	0.270254776

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Area	CalYr	Season	Veh	PM10_TOTAL (Tons/day)	PM2_5_RUNEX (Tons/day)	PM2_5_IDLEX (Tons/day)	PM2_5_STREX (Tons/day)	PM2_5_TOTEX (Tons/day)	PM2_5_PMTW (Tons/day)	PM2_5_PMBW (Tons/day)	PM2_5_TOTAL (Tons/day)	SOX_RUNEX (Tons/day)
Los Angele	2014	Annual	LDA	0.379334337	0.002234277	0	2.82E-04	0.002516769	0.016832255	0.132554	0.151903024	0.031212525
Los Angele	2014	Annual	LDA	0	0	0	0	0	0	0	0	0
Los Angele	2014	Annual	LDA	0.391427631	0.002305241	0	3.65E-04	0.002670354	0.017365346	0.1367521	0.1567878	0.03220259
Los Angele	2014	Annual	LDA	4.25E-05	3.25E-06	0	0	3.25E-06	1.74E-06	1.37E-05	1.87E-05	2.64E-06
Los Angele	2014	Annual	LDA	0.346155021	0.002715512	0	4.90E-04	0.003205027	0.015316228	0.1206153	0.139136555	0.028453924
Los Angele	2014	Annual	LDA	0.001424182	1.04E-04	0	0	1.04E-04	5.86E-05	4.61E-04	6.24E-04	8.88E-05
Los Angele	2014	Annual	LDA	0.447760848	0.003511421	0	7.45E-04	0.004256366	0.019806633	0.1559772	0.180040199	0.036793411

Area	CalYr	Season	Veh	SOX_IDLEX (Tons/day)	SOX_STREX (Tons/day)	SOX_TOTEX (Tons/day)	FUEL_GAS (1000 Gallons)	FUEL_DSL (1000 Gallons)	ROG lb/mile	CO lb/mile	NOx lb/mile	PM10 lb/mile	PM10 lb/mile	PM2.5 lb/mile	PM2.5 lb/mile	SOx lb/mile
Los Angele	2013	Annual	LDA	0	0.001333044	0.034879548	372.041	0	1.21E-04	1.92E-03	1.38E-04	7.08E-07	9.87E-05	6.57E-07	3.91E-05	8.50E-06
Los Angele	2013	Annual	LDA	0	0	0	0	0								
Los Angele	2013	Annual	LDA	0	0.001325508	0.036167761	385.7817	0	1.01E-04	1.63E-03	1.24E-04	7.27E-07	9.87E-05	6.74E-07	3.91E-05	8.49E-06
Los Angele	2013	Annual	LDA	0	0	2.76E-06	0	0.026025034	1.38E-05	1.29E-04	4.30E-04	8.52E-06	9.87E-05	7.84E-06	3.91E-05	6.68E-06
Los Angele	2013	Annual	LDA	0	0.001099089	0.03146231	335.5912	0	8.71E-05	1.42E-03	1.23E-04	9.87E-07	9.87E-05	9.16E-07	3.91E-05	8.49E-06
Los Angele	2013	Annual	LDA	0	0	9.34E-05	0	0.880668	1.30E-05	1.21E-04	4.07E-04	8.07E-06	9.87E-05	7.42E-06	3.91E-05	6.68E-06
Los Angele	2013	Annual	LDA	0	0.001339672	0.040587051	432.9199	0	7.64E-05	1.26E-03	1.17E-04	1.01E-06	9.87E-05	9.38E-07	3.91E-05	8.47E-06
Los Angele	2013	Annual	LDA	0	0	1.74E-04	0	1.642001	1.22E-05	1.13E-04	3.83E-04	7.60E-06	9.87E-05	6.99E-06	3.91E-05	6.68E-06
Los Angele	2013	Annual	LDA	0	0.001295531	0.041947616	447.4323	0	6.75E-05	1.16E-03	1.08E-04	1.56E-06	9.87E-05	1.45E-06	3.91E-05	8.45E-06
Los Angele	2013	Annual	LDA	0	0	1.70E-04	0	1.598332	1.13E-05	1.05E-04	3.57E-04	7.09E-06	9.87E-05	6.53E-06	3.91E-05	6.68E-06
Los Angele	2013	Annual	LDA	0	0.001340722	0.047356864	505.1297	0	5.89E-05	1.08E-03	9.90E-05	2.06E-06	9.87E-05	1.91E-06	3.91E-05	8.43E-06
Los Angele	2013	Annual	LDA	0	0	1.70E-04	0	1.606619	1.03E-05	9.54E-05	3.30E-04	6.56E-06	9.87E-05	6.03E-06	3.91E-05	6.68E-06
Los Angele	2013	Annual	LDA	0	0.001302672	0.052601685	561.0734	0	4.97E-05	9.91E-04	8.95E-05	3.15E-06	9.87E-05	2.92E-06	3.91E-05	8.40E-06
Los Angele	2013	Annual	LDA	0	0	1.82E-04	0	1.714921	9.22E-06	8.53E-05	3.00E-04	5.96E-06	9.87E-05	5.49E-06	3.91E-05	6.68E-06
Los Angele	2013	Annual	LDT1	0	7.10E-05	0.002012929	21.47082	0	1.14E-04	1.91E-03	1.37E-04	7.02E-07	9.87E-05	6.52E-07	3.91E-05	9.87E-06
Los Angele	2013	Annual	LDT1	0	0	0	0	0								
Los Angele	2013	Annual	LDT1	0	1.43E-04	0.004170412	44.4835	0	9.31E-05	1.62E-03	1.24E-04	7.21E-07	9.87E-05	6.69E-07	3.91E-05	9.85E-06
Los Angele	2013	Annual	LDT1	0	0	0	0	0								
Los Angele	2013	Annual	LDT1	0	1.25E-04	0.003785832	40.38139	0	7.89E-05	1.40E-03	1.21E-04	9.80E-07	9.87E-05	9.09E-07	3.91E-05	9.86E-06
Los Angele	2013	Annual	LDT1	0	0	0	0	0								
Los Angele	2013	Annual	LDT1	0	1.35E-04	0.004247123	45.30173	0	6.86E-05	1.25E-03	1.16E-04	1.00E-06	9.87E-05	9.32E-07	3.91E-05	9.84E-06
Los Angele	2013	Annual	LDT1	0	0	4.64E-06	0	0.043761484	1.45E-05	1.34E-04	4.59E-04	7.61E-06	9.87E-05	7.00E-06	3.91E-05	6.68E-06
Los Angele	2013	Annual	LDT1	0	1.26E-04	0.004171092	44.49074	0	6.07E-05	1.16E-03	1.07E-04	1.55E-06	9.87E-05	1.44E-06	3.91E-05	9.82E-06
Los Angele	2013	Annual	LDT1	0	0	6.67E-06	0	0.062842816	1.34E-05	1.23E-04	4.27E-04	7.08E-06	9.87E-05	6.52E-06	3.91E-05	6.68E-06
Los Angele	2013	Annual	LDT1	0	1.22E-04	0.004290438	45.76375	0	5.37E-05	1.07E-03	9.85E-05	2.06E-06	9.87E-05	1.92E-06	3.91E-05	9.81E-06
Los Angele	2013	Annual	LDT1	0	0	5.05E-06	0	0.047609478	1.22E-05	1.12E-04	3.94E-04	6.53E-06	9.87E-05	6.01E-06	3.91E-05	6.68E-06
Los Angele	2013	Annual	LDT1	0	1.21E-04	0.004737327	50.53048	0	4.56E-05	9.93E-04	8.93E-05	3.17E-06	9.87E-05	2.94E-06	3.91E-05	9.78E-06
Los Angele	2013	Annual	LDT1	0	0	7.17E-06	0	0.067561261	1.09E-05	9.99E-05	3.58E-04	5.94E-06	9.87E-05	5.46E-06	3.91E-05	6.68E-06
Los Angele	2013	Annual	T6 instate heavy	3.99E-06	0	4.52E-04	0	4.260129079	3.69E-04	1.59E-03	9.81E-03	1.07E-04	3.14E-04	9.83E-05	1.30E-04	2.47E-05
Los Angele	2013	Annual	T6 instate heavy	3.37E-06	0	4.02E-04	0	3.796379027	3.43E-04	1.48E-03	8.89E-03	9.97E-05	3.14E-04	9.17E-05	1.30E-04	2.47E-05
Los Angele	2013	Annual	T6 instate heavy	2.11E-06	0	2.64E-04	0	2.490686778	3.16E-04	1.36E-03	7.59E-03	9.20E-05	3.14E-04	8.47E-05	1.30E-04	2.47E-05
Los Angele	2013	Annual	T6 instate heavy	2.62E-06	0	3.29E-04	0	3.098939655	1.98E-04	8.69E-04	2.67E-03	8.40E-05	3.14E-04	7.73E-05	1.30E-04	2.38E-05
Los Angele	2013	Annual	T6 instate heavy	3.06E-06	0	3.91E-04	0	3.686650385	1.84E-04	8.07E-04	2.20E-03	7.57E-05	3.14E-04	6.97E-05	1.30E-04	2.38E-05
Los Angele	2013	Annual	T6 instate heavy	3.59E-06	0	4.56E-04	0	4.301800395	1.69E-04	7.45E-04	1.65E-03	6.73E-05	3.14E-04	6.19E-05	1.30E-04	2.38E-05
Los Angele	2013	Annual	T6 instate heavy	3.37E-06	0	4.28E-04	0	4.03333173	1.49E-04	6.62E-04	1.37E-03	5.61E-05	3.14E-04	5.16E-05	1.30E-04	2.38E-05
Los Angele	2013	Annual	T6 instate heavy	9.09E-07	0	4.86E-05	0	0.458313742	1.47E-04	7.13E-04	1.33E-03	5.08E-05	3.14E-04	4.67E-05	1.30E-04	2.40E-05
Los Angele	2013	Annual	LDA/LDT1	0	0.009880054	0.313233728	3332.39161	7.690341073	7.61E-05	1.30E-03	1.12E-04	1.60E-06	9.87E-05	1.49E-06	3.91E-05	8.56E-06
Los Angele	2013	Annual	T6 instate heavy	3.99021E-06	0.00854701	0.278805776	2960.35061	11.95047015	7.06E-05	1.23E-03	1.15E-04	1.78E-06	9.88E-05	1.65E-06	3.92E-05	8.57E-06

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Area	CalYr	Season	Veh	SOX_IDLEX (Tons/day)	SOX_STREX (Tons/day)	SOX_TOTEX (Tons/day)	FUEL_GAS (1000 Gallons)	FUEL_DSL (1000 Gallons)	exhaust ROG lb/mile	exhaust CO lb/mile	exhaust NOx lb/mile	exhaust PM10 lb/mile	tire wear a PM10 lb/mile	exhaust PM2.5 lb/mile	tire wear a PM2.5 lb/mile	SOx lb/mile
Los Angele	2014	Annual	LDA	0	0.001288679	0.032501204	346.6725	0	1.45E-04	2.01E-03	1.43E-04	7.11E-07	9.87E-05	6.59E-07	3.91E-05	8.51E-06
Los Angele	2014	Annual	LDA	0	0	0	0	0								
Los Angele	2014	Annual	LDA	0	0.001277078	0.033479668	357.1092	0	1.16E-04	1.76E-03	1.34E-04	7.31E-07	9.87E-05	6.78E-07	3.91E-05	8.50E-06
Los Angele	2014	Annual	LDA	0	0	2.64E-06	0	0.024888519	1.46E-05	1.36E-04	4.51E-04	8.95E-06	9.87E-05	8.23E-06	3.91E-05	6.68E-06
Los Angele	2014	Annual	LDA	0	0.001082289	0.029536213	315.0467	0	1.01E-04	1.62E-03	1.31E-04	9.94E-07	9.87E-05	9.23E-07	3.91E-05	8.50E-06
Los Angele	2014	Annual	LDA	0	0	8.88E-05	0	0.8374649	1.38E-05	1.29E-04	4.30E-04	8.52E-06	9.87E-05	7.84E-06	3.91E-05	6.68E-06
Los Angele	2014	Annual	LDA	0	0.00133137	0.038124781	406.6562	0	8.69E-05	1.40E-03	1.28E-04	1.02E-06	9.87E-05	9.48E-07	3.91E-05	8.49E-06

Area	CalYr	Season	Veh	CO2 ton/mile
Los Angele	2013	Annual	LDA	4.20E-04
Los Angele	2013	Annual	LDA	
Los Angele	2013	Annual	LDA	4.20E-04
Los Angele	2013	Annual	LDA	3.47E-04
Los Angele	2013	Annual	LDA	4.20E-04
Los Angele	2013	Annual	LDA	3.47E-04
Los Angele	2013	Annual	LDA	4.04E-04
Los Angele	2013	Annual	LDA	3.34E-04
Los Angele	2013	Annual	LDA	3.58E-04
Los Angele	2013	Annual	LDA	2.97E-04
Los Angele	2013	Annual	LDA	3.12E-04
Los Angele	2013	Annual	LDA	2.59E-04
Los Angele	2013	Annual	LDA	3.03E-04
Los Angele	2013	Annual	LDA	2.52E-04
Los Angele	2013	Annual	LDT1	4.88E-04
Los Angele	2013	Annual	LDT1	
Los Angele	2013	Annual	LDT1	4.87E-04
Los Angele	2013	Annual	LDT1	
Los Angele	2013	Annual	LDT1	4.88E-04
Los Angele	2013	Annual	LDT1	
Los Angele	2013	Annual	LDT1	4.70E-04
Los Angele	2013	Annual	LDT1	3.34E-04
Los Angele	2013	Annual	LDT1	4.16E-04
Los Angele	2013	Annual	LDT1	2.97E-04
Los Angele	2013	Annual	LDT1	3.63E-04
Los Angele	2013	Annual	LDT1	2.59E-04
Los Angele	2013	Annual	LDT1	3.52E-04
Los Angele	2013	Annual	LDT1	2.52E-04
Los Angele	2013	Annual	T6 instate heavy	1.28E-03
Los Angele	2013	Annual	T6 instate heavy	1.28E-03
Los Angele	2013	Annual	T6 instate heavy	1.28E-03
Los Angele	2013	Annual	T6 instate heavy	1.24E-03
Los Angele	2013	Annual	T6 instate heavy	1.24E-03
Los Angele	2013	Annual	T6 instate heavy	1.24E-03
Los Angele	2013	Annual	T6 instate heavy	1.24E-03
Los Angele	2013	Annual	T6 instate heavy	1.23E-03
Los Angele	2013	Annual	T6 instate heavy	1.25E-03
Los Angele	2013	Annual	LDA/LDT1	3.73E-04
Los Angele	2013	Annual	T6 instate heavy	3.68E-04

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Area	CalYr	Season	Veh	exhaust CO2 ton/mile
Los Angele	2014	Annual	LDA	4.18E-04
Los Angele	2014	Annual	LDA	
Los Angele	2014	Annual	LDA	4.18E-04
Los Angele	2014	Annual	LDA	3.45E-04
Los Angele	2014	Annual	LDA	4.18E-04
Los Angele	2014	Annual	LDA	3.45E-04
Los Angele	2014	Annual	LDA	4.03E-04

Los Angele	2014 Annual	LDA	DSL	2010 AllSpeeds	1351.746	49159.64469	8771.957	3.20E-04	0	0	3.20E-04
Los Angele	2014 Annual	LDA	GAS	2011 AllSpeeds	237881.2	9170140.694	1546073	0.085746645	0	0.067027174	0.152773819
Los Angele	2014 Annual	LDA	DSL	2011 AllSpeeds	1217.972	46951.97602	7916.027	2.85E-04	0	0	2.85E-04
Los Angele	2014 Annual	LDA	GAS	2012 AllSpeeds	243193.1	1.01E+07	1585460	0.089095611	0	0.064750224	0.153845835
Los Angele	2014 Annual	LDA	DSL	2012 AllSpeeds	1124.676	46522.46744	7332.152	2.62E-04	0	0	2.62E-04
Los Angele	2014 Annual	LDA	GAS	2013 AllSpeeds	240185.4	1.09E+07	1570656	0.090463891	0	0.059598226	0.150062117
Los Angele	2014 Annual	LDA	DSL	2013 AllSpeeds	1044.155	47335.73193	6828.092	2.44E-04	0	0	2.44E-04
Los Angele	2014 Annual	LDA	GAS	2014 AllSpeeds	240198.9	1.25E+07	1575547	0.094956214	0	0.05375737	0.148713584
Los Angele	2014 Annual	LDA	DSL	2014 AllSpeeds	915.3193	47707.87139	6003.895	2.20E-04	0	0	2.20E-04
Los Angele	2014 Annual	LDT1	GAS	2007 AllSpeeds	11135.48	388696.1443	71482.59	0.004860651	0	0.004202496	0.009063147
Los Angele	2014 Annual	LDT1	DSL	2007 AllSpeeds	0	0	0	0	0	0	0
Los Angele	2014 Annual	LDT1	GAS	2008 AllSpeeds	22425.05	804871.643	144402.9	0.009134546	0	0.007400754	0.0165353
Los Angele	2014 Annual	LDT1	DSL	2008 AllSpeeds	0	0	0	0	0	0	0
Los Angele	2014 Annual	LDT1	GAS	2009 AllSpeeds	19675.49	728648.1167	127287.7	0.008001544	0	0.00631844	0.014319984
Los Angele	2014 Annual	LDT1	DSL	2009 AllSpeeds	0	0	0	0	0	0	0
Los Angele	2014 Annual	LDT1	GAS	2010 AllSpeeds	21221.78	814474.1883	137715.6	0.008166529	0	0.006365635	0.014532165
Los Angele	2014 Annual	LDT1	DSL	2010 AllSpeeds	34.69507	1331.571613	225.1485	1.03E-05	0	0	1.03E-05
Los Angele	2014 Annual	LDT1	GAS	2011 AllSpeeds	19845.79	794382.2365	128984.7	0.007411222	0	0.005581527	0.012992749
Los Angele	2014 Annual	LDT1	DSL	2011 AllSpeeds	47.30273	1893.428408	307.4371	1.37E-05	0	0	1.37E-05
Los Angele	2014 Annual	LDT1	GAS	2012 AllSpeeds	18970.26	799796.4454	123673.7	0.007058878	0	0.00503443	0.012093308
Los Angele	2014 Annual	LDT1	DSL	2012 AllSpeeds	33.45337	1410.417359	218.0941	9.42E-06	0	0	9.42E-06
Los Angele	2014 Annual	LDT1	GAS	2013 AllSpeeds	19266.41	870143.854	125989.8	0.007195174	0	0.004758063	0.011953237
Los Angele	2014 Annual	LDT1	DSL	2013 AllSpeeds	42.63757	1925.681339	278.8218	1.17E-05	0	0	1.17E-05
Los Angele	2014 Annual	LDT1	GAS	2014 AllSpeeds	19015.58	956205.5065	124729.7	0.007211099	0	0.004230706	0.011441804
Los Angele	2014 Annual	LDT1	DSL	2014 AllSpeeds	39.16486	1969.428281	256.8958	1.08E-05	0	0	1.08E-05
Los Angele	2014 Annual	T6 instate heavy	DSL	2007 AllSpeeds	446.8065374	30290.1926	0	0.005862644	1.03E-04	0	0.005966028
Los Angele	2014 Annual	T6 instate heavy	DSL	2008 AllSpeeds	406.5080784	29243.11691	0	0.00530535	9.41E-05	0	0.005399409
Los Angele	2014 Annual	T6 instate heavy	DSL	2009 AllSpeeds	283.0211889	21507.29389	0	0.003625135	6.55E-05	0	0.003690622
Los Angele	2014 Annual	T6 instate heavy	DSL	2010 AllSpeeds	342.9931285	27318.79002	0	0.002824824	7.94E-05	0	0.002904187
Los Angele	2014 Annual	T6 instate heavy	DSL	2011 AllSpeeds	391.3480657	32286.62875	0	0.003110221	9.06E-05	0	0.003200772
Los Angele	2014 Annual	T6 instate heavy	DSL	2012 AllSpeeds	441.9038007	37140.75237	0	0.00330581	1.02E-04	0	0.003408059
Los Angele	2014 Annual	T6 instate heavy	DSL	2013 AllSpeeds	505.2486086	42282.02142	0	0.00322871	1.17E-04	0	0.003345616
Los Angele	2014 Annual	T6 instate heavy	DSL	2014 AllSpeeds	487.0159712	40756.21263	0	0.00291507	1.13E-04	0	0.003027758
Los Angele	2014 Annual	T6 instate heavy	DSL	2015 AllSpeeds	129.1463076	4503.201369	0	3.00E-04	2.99E-05	0	3.30E-04
Los Angele	2014 Annual	LDA/LDT1	GAS&DSL >2007	AllSpeeds	2046066.331	80511947.2	13284310.61	0.770023232	0	0.595493226	1.365516459
Los Angele	2014 Annual	T6 instate heavy	DSL >2007	AllSpeeds	3433.991687	265328.21	0	0.030478072	0.000794572	0	0.031272644

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Area	CalYr	Season	Veh	Fuel	MdlYr	Speed (Miles/hr)	Pop (Vehicles)	VMT (Miles/day)	Trips (Trips/day)	ROG_RUNEX (Tons/day)	ROG_IDLEX (Tons/day)	ROG_STREX (Tons/day)	ROG_TOTEX (Tons/day)
Los Angele	2015 Annual	LDA	GAS	2007 AllSpeeds			229447.9	7024395.798	1466025	0.089348553	0	0.087437667	0.17678622
Los Angele	2015 Annual	LDA	DSL	2007 AllSpeeds			0	0	0	0	0	0	0
Los Angele	2015 Annual	LDA	GAS	2008 AllSpeeds			230729.3	7330300.651	1481134	0.085264363	0	0.077632949	0.162897312
Los Angele	2015 Annual	LDA	DSL	2008 AllSpeeds			23.88152	758.7257476	153.304	5.80E-06	0	0	5.80E-06
Los Angele	2015 Annual	LDA	GAS	2009 AllSpeeds			194172.3	6421882.46	1250345	0.074690068	0	0.06524308	0.139933148
Los Angele	2015 Annual	LDA	DSL	2009 AllSpeeds			768.488	25416.32508	4948.568	1.85E-04	0	0	1.85E-04
Los Angele	2015 Annual	LDA	GAS	2010 AllSpeeds			243452.8	8419416.907	1574982	0.094339188	0	0.078963287	0.173302475
Los Angele	2015 Annual	LDA	DSL	2010 AllSpeeds			1351.746	46747.99683	8744.924	3.23E-04	0	0	3.23E-04
Los Angele	2015 Annual	LDA	GAS	2011 AllSpeeds			236414.9	8597809.236	1534180	0.086533792	0	0.070896521	0.157430313
Los Angele	2015 Annual	LDA	DSL	2011 AllSpeeds			1217.972	44294.6043	7903.848	2.88E-04	0	0	2.88E-04
Los Angele	2015 Annual	LDA	GAS	2012 AllSpeeds			241147.8	9296065.13	1567304	0.08724393	0	0.06795048	0.15519441

Los Angele	2014 Annual	LDA	0	0	0	0	3.20E-04	3.64E-04	0	0	3.64E-04
Los Angele	2014 Annual	LDA	0.008768849	0.0159334	0.1642521	0.006993662	0.348721829	0.159585362	0	0.071564376	0.231149738
Los Angele	2014 Annual	LDA	0	0	0	0	2.85E-04	3.25E-04	0	0	3.25E-04
Los Angele	2014 Annual	LDA	0.007909124	0.011965998	0.1581367	0.005820551	0.337678208	0.165818207	0	0.069133274	0.234951481
Los Angele	2014 Annual	LDA	0	0	0	0	2.62E-04	2.98E-04	0	0	2.98E-04
Los Angele	2014 Annual	LDA	0.007295821	0.009444939	0.1490553	0.005049801	0.320907979	0.168364756	0	0.06363254	0.231997296
Los Angele	2014 Annual	LDA	0	0	0	0	2.44E-04	2.77E-04	0	0	2.77E-04
Los Angele	2014 Annual	LDA	0.006952794	0.007856932	0.1429676	0.004584612	0.311075521	0.176725545	0	0.057396289	0.234121834
Los Angele	2014 Annual	LDA	0	0	0	0	2.20E-04	2.51E-04	0	0	2.51E-04
Los Angele	2014 Annual	LDT1	0.001231027	0.003157395	0.013848078	0.001328171	0.028627818	0.009046286	0	0.00448697	0.013533257
Los Angele	2014 Annual	LDT1	0	0	0	0	0	0	0	0	0
Los Angele	2014 Annual	LDT1	0.00192039	0.004453686	0.019197199	0.001973075	0.044079649	0.017000546	0	0.007901722	0.024902268
Los Angele	2014 Annual	LDT1	0	0	0	0	0	0	0	0	0
Los Angele	2014 Annual	LDT1	0.001335227	0.002741091	0.014394047	0.001266443	0.034056792	0.014891885	0	0.006746146	0.021638031
Los Angele	2014 Annual	LDT1	0	0	0	0	0	0	0	0	0
Los Angele	2014 Annual	LDT1	0.00118683	0.002110675	0.013522633	0.001032251	0.032384554	0.015198945	0	0.006796536	0.021995481
Los Angele	2014 Annual	LDT1	0	0	0	0	1.03E-05	1.17E-05	0	0	1.17E-05
Los Angele	2014 Annual	LDT1	9.51E-04	0.00144559	0.011227475	7.58E-04	0.027374671	0.013793223	0	0.00595935	0.019752573
Los Angele	2014 Annual	LDT1	0	0	0	0	1.37E-05	1.56E-05	0	0	1.56E-05
Los Angele	2014 Annual	LDT1	8.02E-04	0.001042754	0.010004485	5.90E-04	0.024532245	0.013137466	0	0.005375218	0.018512683
Los Angele	2014 Annual	LDT1	0	0	0	0	9.42E-06	1.07E-05	0	0	1.07E-05
Los Angele	2014 Annual	LDT1	7.60E-04	8.69E-04	0.009266081	5.26E-04	0.02337511	0.01339113	0	0.005080144	0.018471274
Los Angele	2014 Annual	LDT1	0	0	0	0	1.17E-05	1.34E-05	0	0	1.34E-05
Los Angele	2014 Annual	LDT1	7.15E-04	7.32E-04	0.008455677	4.72E-04	0.021816645	0.013420768	0	0.00451709	0.017937857
Los Angele	2014 Annual	LDT1	0	0	0	0	1.08E-05	1.23E-05	0	0	1.23E-05
Los Angele	2014 Annual	T6 instate heavy	0	0	0	0	0.005966028	0.006674174	1.18E-04	0	0.006791869
Los Angele	2014 Annual	T6 instate heavy	0	0	0	0	0.005399409	0.006039737	1.07E-04	0	0.006146817
Los Angele	2014 Annual	T6 instate heavy	0	0	0	0	0.003690622	0.00412694	7.46E-05	0	0.004201492
Los Angele	2014 Annual	T6 instate heavy	0	0	0	0	0.002904187	0.003215847	9.03E-05	0	0.003306196
Los Angele	2014 Annual	T6 instate heavy	0	0	0	0	0.003200772	0.003540749	1.03E-04	0	0.003643836
Los Angele	2014 Annual	T6 instate heavy	0	0	0	0	0.003408059	0.003763413	1.16E-04	0	0.003879816
Los Angele	2014 Annual	T6 instate heavy	0	0	0	0	0.003345616	0.00367564	1.33E-04	0	0.00380873
Los Angele	2014 Annual	T6 instate heavy	0	0	0	0	0.003027758	0.003318586	1.28E-04	0	0.003446872
Los Angele	2014 Annual	T6 instate heavy	0	0	0	0	3.30E-04	3.42E-04	3.40E-05	0	3.76E-04
Los Angele	2014 Annual	LDA/LDT1	0.097039198	0.223776088	1.534463875	0.087722239	3.30851786	1.431972198	0	0.635803149	2.067775347
Los Angele	2014 Annual	T6 instate heavy	0	0	0	0	0.031272644	0.034696965	0.000904559	0	0.035601525

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Area	CalYr	Season	Veh	ROG_DIURN (Tons/day)	ROG_HTSK (Tons/day)	ROG_RUNLS (Tons/day)	ROG_RESTL (Tons/day)	ROG_TOTAL (Tons/day)	TOG_RUNEX (Tons/day)	TOG_IDLEX (Tons/day)	TOG_STREX (Tons/day)	TOG_TOTEX (Tons/day)
Los Angele	2015 Annual	LDA		0.023249147	0.080102608	0.2774191	0.026005588	0.583562663	0.166288984	0	0.093356483	0.259645467
Los Angele	2015 Annual	LDA		0	0	0	0	0	0	0	0	0
Los Angele	2015 Annual	LDA		0.018997177	0.06134744	0.2484782	0.020412557	0.512132686	0.158687774	0	0.082888052	0.241575826
Los Angele	2015 Annual	LDA		0	0	0	0	5.80E-06	6.60E-06	0	0	6.60E-06
Los Angele	2015 Annual	LDA		0.012345483	0.035716388	0.1719171	0.012610998	0.372523117	0.139007671	0	0.069659501	0.208667172
Los Angele	2015 Annual	LDA		0	0	0	0	1.85E-04	2.11E-04	0	0	2.11E-04
Los Angele	2015 Annual	LDA		0.012336387	0.031166229	0.1952018	0.011634153	0.423641044	0.175577173	0	0.084308438	0.259885611
Los Angele	2015 Annual	LDA		0	0	0	0	3.23E-04	3.68E-04	0	0	3.68E-04
Los Angele	2015 Annual	LDA		0.009900183	0.021255542	0.1743849	0.008557925	0.371528862	0.16105034	0	0.075695619	0.236745959
Los Angele	2015 Annual	LDA		0	0	0	0	2.88E-04	3.28E-04	0	0	3.28E-04
Los Angele	2015 Annual	LDA		0.008614065	0.015396421	0.1656164	0.006817671	0.351638967	0.162372002	0	0.072550163	0.234922165

Los Angele	2014 Annual	LDA	0	0	0	0	3.64E-04	0.002981334	0	0	0.002981334
Los Angele	2014 Annual	LDA	0.008768849	0.0159334	0.1642521	0.006993662	0.427097749	4.783176101	0	1.008548	5.791724101
Los Angele	2014 Annual	LDA	0	0	0	0	3.25E-04	0.002657602	0	0	0.002657602
Los Angele	2014 Annual	LDA	0.007909124	0.011965998	0.1581367	0.005820551	0.418783853	4.902557017	0	0.953043	5.855600017
Los Angele	2014 Annual	LDA	0	0	0	0	2.98E-04	0.002433897	0	0	0.002433897
Los Angele	2014 Annual	LDA	0.007295821	0.009444939	0.1490553	0.005049801	0.402843157	4.977818216	0	0.8776068	5.855425016
Los Angele	2014 Annual	LDA	0	0	0	0	2.77E-04	0.002258744	0	0	0.002258744
Los Angele	2014 Annual	LDA	0.006952794	0.007856932	0.1429676	0.004584612	0.396483772	5.38033112	0	0.8256451	6.20597622
Los Angele	2014 Annual	LDA	0	0	0	0	2.51E-04	0.002033441	0	0	0.002033441
Los Angele	2014 Annual	LDT1	0.001231027	0.003157395	0.013848078	0.001328171	0.033097927	0.308741549	0	0.080135264	0.388876813
Los Angele	2014 Annual	LDT1	0	0	0	0	0	0	0	0	0
Los Angele	2014 Annual	LDT1	0.00192039	0.004453686	0.019197199	0.001973075	0.052446617	0.564479946	0	0.1378774	0.702357346
Los Angele	2014 Annual	LDT1	0	0	0	0	0	0	0	0	0
Los Angele	2014 Annual	LDT1	0.001335227	0.002741091	0.014394047	0.001266443	0.041374839	0.473315488	0	0.1100414	0.583356888
Los Angele	2014 Annual	LDT1	0	0	0	0	0	0	0	0	0
Los Angele	2014 Annual	LDT1	0.00118683	0.002110675	0.013522633	0.001032251	0.03984787	0.462843017	0	0.1000751	0.562918117
Los Angele	2014 Annual	LDT1	0	0	0	0	1.17E-05	9.55E-05	0	0	9.55E-05
Los Angele	2014 Annual	LDT1	9.51E-04	0.00144559	0.011227475	7.58E-04	0.034134495	0.413029891	0	0.083935909	0.4969658
Los Angele	2014 Annual	LDT1	0	0	0	0	1.56E-05	1.26E-04	0	0	1.26E-04
Los Angele	2014 Annual	LDT1	8.02E-04	0.001042754	0.010004485	5.90E-04	0.03095162	0.38810322	0	0.074075133	0.462178353
Los Angele	2014 Annual	LDT1	0	0	0	0	1.07E-05	8.67E-05	0	0	8.67E-05
Los Angele	2014 Annual	LDT1	7.60E-04	8.69E-04	0.009266081	5.26E-04	0.029893147	0.395917474	0	0.070130065	0.466047539
Los Angele	2014 Annual	LDT1	0	0	0	0	1.34E-05	1.08E-04	0	0	1.08E-04
Los Angele	2014 Annual	LDT1	7.15E-04	7.32E-04	0.008455677	4.72E-04	0.028312698	0.409333073	0	0.065195732	0.474528805
Los Angele	2014 Annual	LDT1	0	0	0	0	1.23E-05	9.84E-05	0	0	9.84E-05
Los Angele	2014 Annual	T6 instate heavy	0	0	0	0	0.006791869	0.024438463	0.001222523	0	0.025660985
Los Angele	2014 Annual	T6 instate heavy	0	0	0	0	0.006146817	0.022115378	0.001112261	0	0.023227639
Los Angele	2014 Annual	T6 instate heavy	0	0	0	0	0.004201492	0.015111395	7.74E-04	0	0.015885779
Los Angele	2014 Annual	T6 instate heavy	0	0	0	0	0.003306196	0.011775293	9.38E-04	0	0.012713768
Los Angele	2014 Annual	T6 instate heavy	0	0	0	0	0.003643836	0.012964971	0.001070781	0	0.014035752
Los Angele	2014 Annual	T6 instate heavy	0	0	0	0	0.003879816	0.013780285	0.001209108	0	0.014989393
Los Angele	2014 Annual	T6 instate heavy	0	0	0	0	0.00380873	0.013458893	0.001382428	0	0.014841322
Los Angele	2014 Annual	T6 instate heavy	0	0	0	0	0.003446872	0.012151486	0.001332541	0	0.013484027
Los Angele	2014 Annual	T6 instate heavy	0	0	0	0	3.76E-04	0.001251839	3.53E-04	0	0.0016052
Los Angele	2014 Annual	LDA/LDT1	0.097039198	0.223776088	1.534463875	0.087722239	4.010776748	44.53911064	0	9.814436903	54.35354754
Los Angele	2014 Annual	T6 instate heavy	0	0	0	0	0.035601525	0.127048003	0.009395863	0	0.136443866

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Area	CalYr	Season	Veh	TOG_DIURN (Tons/day)	TOG_HTSK (Tons/day)	TOG_RUNLS (Tons/day)	TOG_RESTL (Tons/day)	TOG_TOTAL (Tons/day)	CO_RUNEX (Tons/day)	CO_IDLEX (Tons/day)	CO_STREX (Tons/day)	CO_TOTEX (Tons/day)
Los Angele	2015 Annual	LDA		0.023249147	0.080102608	0.2774191	0.026005588	0.66642191	5.667409455	0	1.668774	7.336183455
Los Angele	2015 Annual	LDA		0	0	0	0	0	0	0	0	0
Los Angele	2015 Annual	LDA		0.018997177	0.06134744	0.2484782	0.020412557	0.5908112	5.305932988	0	1.462866	6.768798988
Los Angele	2015 Annual	LDA		0	0	0	0	6.60E-06	5.44E-05	0	0	5.44E-05
Los Angele	2015 Annual	LDA		0.012345483	0.035716388	0.1719171	0.012610998	0.441257141	4.457858025	0	1.165076	5.622934025
Los Angele	2015 Annual	LDA		0	0	0	0	2.11E-04	0.001736259	0	0	0.001736259
Los Angele	2015 Annual	LDA		0.012336387	0.031166229	0.1952018	0.011634153	0.51022418	5.384429301	0	1.318358	6.702787301
Los Angele	2015 Annual	LDA		0	0	0	0	3.68E-04	0.003021221	0	0	0.003021221
Los Angele	2015 Annual	LDA		0.009900183	0.021255542	0.1743849	0.008557925	0.450844509	4.900068294	0	1.114405	6.014118294
Los Angele	2015 Annual	LDA		0	0	0	0	3.28E-04	0.002691988	0	0	0.002691988
Los Angele	2015 Annual	LDA		0.008614065	0.015396421	0.1656164	0.006817671	0.431366721	4.860065348	0	1.022441	5.882506348

Los Angele	2014 Annual	LDA	0.009998165	0	0	0.009998165	17.21186013	0	0	17.21186013	16.36030335
Los Angele	2014 Annual	LDA	0.470539155	0	0.065957926	0.536497081	3754.85445	0	126.6424	3881.49685	3165.943078
Los Angele	2014 Annual	LDA	0.008986655	0	0	0.008986655	16.4389067	0	0	16.4389067	13.86062858
Los Angele	2014 Annual	LDA	0.483060418	0	0.060134709	0.543195127	4120.17482	0	129.8619	4250.03672	3031.604032
Los Angele	2014 Annual	LDA	0.008313641	0	0	0.008313641	16.28852534	0	0	16.28852534	11.9850155
Los Angele	2014 Annual	LDA	0.486667425	0	0.052009504	0.538676929	4460.822036	0	128.6433	4589.465336	3198.766266
Los Angele	2014 Annual	LDA	0.007813928	0	0	0.007813928	16.57326676	0	0	16.57326676	11.88435813
Los Angele	2014 Annual	LDA	0.515978218	0	0.044228204	0.560206422	5130.364031	0	129.038	5259.402031	3598.026902
Los Angele	2014 Annual	LDA	0.007158041	0	0	0.007158041	16.70356286	0	0	16.70356286	11.71454271
Los Angele	2014 Annual	LDT1	0.023740241	0	0.003985933	0.027726174	184.8812229	0	6.814009	191.6952319	182.1080045
Los Angele	2014 Annual	LDT1	0	0	0	0	0	0	0	0	0
Los Angele	2014 Annual	LDT1	0.046300523	0	0.007390683	0.053691206	382.6085409	0	13.75277	396.3613109	376.8694128
Los Angele	2014 Annual	LDT1	0	0	0	0	0	0	0	0	0
Los Angele	2014 Annual	LDT1	0.040724854	0	0.006270791	0.046995644	347.07182	0	12.14357	359.21539	341.8657427
Los Angele	2014 Annual	LDT1	0	0	0	0	0	0	0	0	0
Los Angele	2014 Annual	LDT1	0.044983564	0	0.006622637	0.051606201	387.8308542	0	13.13027	400.9611242	368.6429227
Los Angele	2014 Annual	LDT1	3.26E-04	0	0	3.26E-04	0.466212126	0	0	0.466212126	0.443146281
Los Angele	2014 Annual	LDT1	0.040660511	0	0.005484248	0.046144759	378.3383538	0	12.29655	390.6349038	318.9997664
Los Angele	2014 Annual	LDT1	4.35E-04	0	0	4.35E-04	0.662930515	0	0	0.662930515	0.558956493
Los Angele	2014 Annual	LDT1	0.038255454	0	0.00466233	0.042917784	381.0041931	0	11.78936	392.7935531	280.3409803
Los Angele	2014 Annual	LDT1	3.01E-04	0	0	3.01E-04	0.493817789	0	0	0.493817789	0.36334866
Los Angele	2014 Annual	LDT1	0.038705254	0	0.004138291	0.042843546	414.589981	0	12.00864	426.598621	297.2941836
Los Angele	2014 Annual	LDT1	3.79E-04	0	0	3.79E-04	0.674222936	0	0	0.674222936	0.483471783
Los Angele	2014 Annual	LDT1	0.039236576	0	0.003473956	0.042710531	455.712955	0	11.88802	467.600975	319.6006096
Los Angele	2014 Annual	LDT1	3.52E-04	0	0	3.52E-04	0.689539659	0	0	0.689539659	0.483587953
Los Angele	2014 Annual	T6 instate heavy	0.150240014	0.001846981	0	0.152086995	38.82996767	0.367315441	0	39.19728311	38.24751815
Los Angele	2014 Annual	T6 instate heavy	0.131872225	0.001680398	0	0.133552623	37.48768781	0.334186458	0	37.82187427	36.92537249
Los Angele	2014 Annual	T6 instate heavy	0.083132521	0.001169935	0	0.084302456	27.57088862	0.232669051	0	27.80355767	27.15732529
Los Angele	2014 Annual	T6 instate heavy	0.03813154	0.001417844	0	0.039549384	33.85070232	0.281971417	0	34.13267374	33.34294179
Los Angele	2014 Annual	T6 instate heavy	0.037546947	0.00161773	0	0.039164677	40.0063494	0.321723555	0	40.32807295	39.40625416
Los Angele	2014 Annual	T6 instate heavy	0.03296656	0.001826714	0	0.034793274	46.02109214	0.363284948	0	46.38437708	45.33077576
Los Angele	2014 Annual	T6 instate heavy	0.030526242	0.002088565	0	0.032614808	52.27105752	0.415360117	0	52.68641764	51.48699166
Los Angele	2014 Annual	T6 instate heavy	0.025854519	0.002013196	0	0.027867715	50.3847797	0.400371238	0	50.78515094	49.62900801
Los Angele	2014 Annual	T6 instate heavy	0.002462227	5.34E-04	0	0.002996084	5.567072951	0.106169962	0	5.673242913	5.483566857
Los Angele	2014 Annual	LDA/LDT1	4.116405936	0	0.568190997	4.684596933	33348.8171	0	1097.354789	34446.17189	28092.81121
Los Angele	2014 Annual	T6 instate heavy	0.532732795	0.014195221	0	0.546928016	331.9895981	2.823052185	0	334.8126503	327.0097542

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Area	CalYr	Season	Veh	NOX_RUNEX (Tons/day)	NOX_IDLEX (Tons/day)	NOX_STREX (Tons/day)	NOX_TOTEX (Tons/day)	CO2_RUNEX (Tons/day)	CO2_IDLEX (Tons/day)	CO2_STREX (Tons/day)	CO2_TOTEX (Tons/day)	CO2_RUNEX(Pavh) (Tons/day)
Los Angele	2015 Annual	LDA		0.431765815	0	0.082488403	0.514254218	2873.002337	0	119.8763	2992.878637	2801.177278
Los Angele	2015 Annual	LDA		0	0	0	0	0	0	0	0	0
Los Angele	2015 Annual	LDA		0.432606896	0	0.078490838	0.511097734	2999.37822	0	121.1249	3120.50312	2924.393764
Los Angele	2015 Annual	LDA		1.79E-04	0	0	1.79E-04	0.265535129	0	0	0.265535129	0.258896751
Los Angele	2015 Annual	LDA		0.385126401	0	0.067749135	0.452875536	2632.941191	0	102.425	2735.366191	2567.117661
Los Angele	2015 Annual	LDA		0.00573713	0	0	0.00573713	8.895080318	0	0	8.895080318	8.67270331
Los Angele	2015 Annual	LDA		0.49053133	0	0.082095504	0.572626834	3452.794833	0	129.0108	3581.805633	3248.648339
Los Angele	2015 Annual	LDA		0.010042786	0	0	0.010042786	16.3606358	0	0	16.3606358	15.39331321
Los Angele	2015 Annual	LDA		0.475506964	0	0.07372877	0.549235734	3527.050056	0	125.6684	3652.718456	2943.675977
Los Angele	2015 Annual	LDA		0.009010959	0	0	0.009010959	15.50200952	0	0	15.50200952	12.93797714
Los Angele	2015 Annual	LDA		0.477628034	0	0.066863216	0.54449125	3814.486338	0	128.3751	3942.861438	2778.185762

Los Angele	2014 Annual	LDA	0	0	16.36030335	1.98E-04	0	0	1.98E-04	4.34E-04	0.001991455
Los Angele	2014 Annual	LDA	0	106.779806	3272.722884	0.005794315	0	0.001442671	0.007236986	0.080866799	0.3714819
Los Angele	2014 Annual	LDA	0	0	13.86062858	1.78E-04	0	0	1.78E-04	4.14E-04	0.001902022
Los Angele	2014 Annual	LDA	0	95.55173671	3127.155768	0.00847477	0	0.002081114	0.010555885	0.088711545	0.4075187
Los Angele	2014 Annual	LDA	0	0	11.9850155	1.65E-04	0	0	1.65E-04	4.10E-04	0.001884623
Los Angele	2014 Annual	LDA	0	92.24753756	3291.013803	0.013758878	0	0.003862367	0.017621245	0.09602052	0.4410943
Los Angele	2014 Annual	LDA	0	0	11.88435813	1.55E-04	0	0	1.55E-04	4.17E-04	0.001917568
Los Angele	2014 Annual	LDA	0	90.49693016	3688.523832	0.021092094	0	0.005481211	0.026573304	0.1104032	0.507165
Los Angele	2014 Annual	LDA	0	0	11.71454271	1.42E-04	0	0	1.42E-04	4.21E-04	0.001932643
Los Angele	2014 Annual	LDT1	0	6.711798865	188.8198034	1.23E-04	0	1.41E-05	1.37E-04	0.003427714	0.015746063
Los Angele	2014 Annual	LDT1	0	0	0	0	0	0	0	0	0
Los Angele	2014 Annual	LDT1	0	13.54647845	390.4158912	2.54E-04	0	3.71E-05	2.91E-04	0.007097754	0.032605309
Los Angele	2014 Annual	LDT1	0	0	0	0	0	0	0	0	0
Los Angele	2014 Annual	LDT1	0	11.96141645	353.8271592	3.07E-04	0	5.17E-05	3.59E-04	0.006425577	0.029517498
Los Angele	2014 Annual	LDT1	0	0	0	0	0	0	0	0	0
Los Angele	2014 Annual	LDT1	0	12.48064989	381.1235726	3.43E-04	0	6.90E-05	4.12E-04	0.007182432	0.032994308
Los Angele	2014 Annual	LDT1	0	0	0.443146281	5.39E-06	0	0	5.39E-06	1.17E-05	5.39E-05
Los Angele	2014 Annual	LDT1	0	10.3679591	329.3677255	5.02E-04	0	1.20E-04	6.22E-04	0.007005252	0.032180388
Los Angele	2014 Annual	LDT1	0	0	0.558956493	7.20E-06	0	0	7.20E-06	1.67E-05	7.67E-05
Los Angele	2014 Annual	LDT1	0	8.674552141	289.0155324	6.74E-04	0	1.62E-04	8.36E-04	0.007052999	0.032399714
Los Angele	2014 Annual	LDT1	0	0	0.36334866	4.99E-06	0	0	4.99E-06	1.24E-05	5.71E-05
Los Angele	2014 Annual	LDT1	0	8.611155571	305.9053392	0.001098982	0	3.10E-04	0.001408648	0.007673355	0.035249475
Los Angele	2014 Annual	LDT1	0	0	0.483471783	6.29E-06	0	0	6.29E-06	1.70E-05	7.80E-05
Los Angele	2014 Annual	LDT1	0	8.337306186	327.9379158	0.001610166	0	4.34E-04	0.002043878	0.00843229	0.038735837
Los Angele	2014 Annual	LDT1	0	0	0.483587953	5.85E-06	0	0	5.85E-06	1.74E-05	7.98E-05
Los Angele	2014 Annual	T6 instate heavy	0.36180571	0	38.60932386	0.001718091	4.34E-06	0	0.001722432	4.01E-04	0.004351951
Los Angele	2014 Annual	T6 instate heavy	0.329173661	0	37.25454616	0.001559112	3.95E-06	0	0.001563062	3.87E-04	0.004201512
Los Angele	2014 Annual	T6 instate heavy	0.229179015	0	27.3865043	0.001068952	2.75E-06	0	0.001071702	2.84E-04	0.003090066
Los Angele	2014 Annual	T6 instate heavy	0.277741845	0	33.62068364	0.001253508	3.33E-06	0	0.00125684	3.61E-04	0.003925034
Los Angele	2014 Annual	T6 instate heavy	0.316897701	0	39.72315186	0.001352273	3.80E-06	0	0.001356075	4.27E-04	0.00463879
Los Angele	2014 Annual	T6 instate heavy	0.357835673	0	45.68861143	0.001401655	4.29E-06	0	0.001405948	4.91E-04	0.005336207
Los Angele	2014 Annual	T6 instate heavy	0.409129715	0	51.89612137	0.001300663	4.91E-06	0	0.001305572	5.59E-04	0.00607488
Los Angele	2014 Annual	T6 instate heavy	0.394365669	0	50.02337367	0.001138536	4.73E-06	0	0.001143268	5.39E-04	0.005855659
Los Angele	2014 Annual	T6 instate heavy	0.104577412	0	5.588144269	1.13E-04	1.25E-06	0	1.14E-04	5.96E-05	6.47E-04
Los Angele	2014 Annual	LDA/LDT1	0	943.2460456	29036.05725	0.066620485	0	0.016093591	0.082714076	0.709993802	3.2615347
Los Angele	2014 Annual	T6 instate heavy	2.780706402	0	329.7904606	0.010905862	3.33635E-05	0	0.010939225	0.003509691	0.038121099

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Area	CalYr	Season	Veh	CO2_IDLEX (Tons/day)	CO2_STREX (Tons/day)	CO2_TOTEX (Tons/day)	PM10_RUNEX (Tons/day)	PM10_IDLEX (Tons/day)	PM10_STREX (Tons/day)	PM10_TOTEX (Tons/day)	PM10_PMTW (Tons/day)	PM10_PMBW (Tons/day)
Los Angele	2015 Annual	LDA		0	116.8793925	2918.056671	0.002223548	0	2.89E-04	0.002512869	0.061944567	0.2845579
Los Angele	2015 Annual	LDA		0	0	0	0	0	0	0	0	0
Los Angele	2015 Annual	LDA		0	118.0967775	3042.490542	0.002320632	0	3.80E-04	0.002700666	0.064642183	0.2969501
Los Angele	2015 Annual	LDA		0	0	0.258896751	3.54E-06	0	0	3.54E-06	6.69E-06	3.07E-05
Los Angele	2015 Annual	LDA		0	99.864375	2666.982036	0.002715309	0	5.08E-04	0.003222897	0.056631312	0.2601501
Los Angele	2015 Annual	LDA		0	0	8.67270331	1.14E-04	0	0	1.14E-04	2.24E-04	0.001029614
Los Angele	2015 Annual	LDA		0	121.3830365	3370.031375	0.003559699	0	7.89E-04	0.004348495	0.074246541	0.3410701
Los Angele	2015 Annual	LDA		0	0	15.39331321	1.99E-04	0	0	1.99E-04	4.12E-04	0.001893759
Los Angele	2015 Annual	LDA		0	104.8828466	3048.558823	0.005452677	0	0.001431575	0.006884253	0.075819694	0.3482968
Los Angele	2015 Annual	LDA		0	0	12.93797714	1.79E-04	0	0	1.79E-04	3.91E-04	0.001794372
Los Angele	2015 Annual	LDA		0	93.49879471	2871.684557	0.007860273	0	0.002057287	0.00991756	0.081977263	0.3765832



Los Angele	2014 Annual	LDA	0.002623274	1.82E-04	0	0	1.82E-04	1.08E-04	8.53E-04	0.0011443	1.64E-04
Los Angele	2014 Annual	LDA	0.459585685	0.005376168	0	0.001338561	0.006714729	0.0202167	0.1592065	0.186137929	0.037559681
Los Angele	2014 Annual	LDA	0.00249437	1.64E-04	0	0	1.64E-04	1.04E-04	8.15E-04	0.001082702	1.57E-04
Los Angele	2014 Annual	LDA	0.50678613	0.007863189	0	0.00193093	0.009794119	0.022177886	0.1746508	0.206622805	0.041208275
Los Angele	2014 Annual	LDA	0.002459895	1.52E-04	0	0	1.52E-04	1.03E-04	8.08E-04	0.001062073	1.56E-04
Los Angele	2014 Annual	LDA	0.554736065	0.012765968	0	0.003583639	0.016349607	0.02400513	0.1890404	0.229395137	0.044609785
Los Angele	2014 Annual	LDA	0.00249017	1.43E-04	0	0	1.43E-04	1.04E-04	8.22E-04	0.001068931	1.58E-04
Los Angele	2014 Annual	LDA	0.644141504	0.019569983	0	0.005085658	0.024655641	0.027600808	0.2173564	0.269612849	0.05129955
Los Angele	2014 Annual	LDA	0.002495594	1.31E-04	0	0	1.31E-04	1.05E-04	8.28E-04	0.001064314	1.59E-04
Los Angele	2014 Annual	LDT1	0.019310643	1.14E-04	0	1.31E-05	1.27E-04	8.57E-04	0.006748312	0.00773223	0.001850543
Los Angele	2014 Annual	LDT1	0	0	0	0	0	0	0	0	0
Los Angele	2014 Annual	LDT1	0.039994059	2.36E-04	0	3.44E-05	2.70E-04	0.001774438	0.013973704	0.016018139	0.00382845
Los Angele	2014 Annual	LDT1	0	0	0	0	0	0	0	0	0
Los Angele	2014 Annual	LDT1	0.036301803	2.85E-04	0	4.80E-05	3.33E-04	0.001606394	0.012650355	0.014589589	0.003472241
Los Angele	2014 Annual	LDT1	0	0	0	0	0	0	0	0	0
Los Angele	2014 Annual	LDT1	0.040588686	3.18E-04	0	6.40E-05	3.82E-04	0.001795608	0.014140416	0.016318242	0.003878932
Los Angele	2014 Annual	LDT1	7.11E-05	4.96E-06	0	7.11E-05	4.96E-06	2.94E-06	2.31E-05	3.10E-05	4.45E-06
Los Angele	2014 Annual	LDT1	0.039807698	4.66E-04	0	1.12E-04	5.77E-04	0.001751313	0.013791592	0.016120072	0.003783359
Los Angele	2014 Annual	LDT1	1.01E-04	6.62E-06	0	0	6.62E-06	4.17E-06	3.29E-05	4.37E-05	6.33E-06
Los Angele	2014 Annual	LDT1	0.040288489	6.25E-04	0	1.51E-04	7.75E-04	0.00176325	0.013885592	0.016424304	0.003809559
Los Angele	2014 Annual	LDT1	7.46E-05	4.59E-06	0	7.46E-05	4.59E-06	3.11E-06	2.45E-05	3.22E-05	4.71E-06
Los Angele	2014 Annual	LDT1	0.044331478	0.001019674	0	2.87E-04	0.001306993	0.001918339	0.01510692	0.018332252	0.004144934
Los Angele	2014 Annual	LDT1	1.01E-04	5.78E-06	0	0	5.78E-06	4.25E-06	3.34E-05	4.35E-05	6.44E-06
Los Angele	2014 Annual	LDT1	0.049212004	0.001493968	0	4.02E-04	0.001896381	0.002108072	0.016601069	0.020605523	0.004555625
Los Angele	2014 Annual	LDT1	1.03E-04	5.38E-06	0	0	5.38E-06	4.34E-06	3.42E-05	4.39E-05	6.58E-06
Los Angele	2014 Annual	T6 instate heavy	0.006475054	0.001580644	3.99E-06	0	0.001584638	1.00E-04	0.001865122	0.003549927	3.70E-04
Los Angele	2014 Annual	T6 instate heavy	0.006151394	0.001434383	3.63E-06	0	0.001438017	9.67E-05	0.001800648	0.00333537	3.58E-04
Los Angele	2014 Annual	T6 instate heavy	0.004446261	9.83E-04	2.53E-06	0	9.86E-04	7.11E-05	0.001324314	0.002381403	2.63E-04
Los Angele	2014 Annual	T6 instate heavy	0.00554324	0.001153227	3.07E-06	0	0.001156293	9.03E-05	0.001682157	0.002928792	3.23E-04
Los Angele	2014 Annual	T6 instate heavy	0.006421944	0.001244091	3.50E-06	0	0.001247589	1.07E-04	0.001988053	0.003342412	3.82E-04
Los Angele	2014 Annual	T6 instate heavy	0.007233443	0.001289522	3.95E-06	0	0.001293472	1.23E-04	0.002286946	0.00370324	4.39E-04
Los Angele	2014 Annual	T6 instate heavy	0.007939748	0.00119661	4.52E-06	0	0.001201126	1.40E-04	0.00260352	0.00394447	4.99E-04
Los Angele	2014 Annual	T6 instate heavy	0.007538039	0.001047453	4.35E-06	0	0.001051806	1.35E-04	0.002509568	0.003696153	4.81E-04
Los Angele	2014 Annual	T6 instate heavy	8.21E-04	1.04E-04	1.15E-06	0	1.05E-04	1.49E-05	2.77E-04	3.97E-04	5.31E-05
Los Angele	2014 Annual	LDA/LDT1	4.054242578	0.061805096	0	0.014932196	0.076737291	0.177498459	1.397800306	1.652036056	0.333577803
Los Angele	2014 Annual	T6 instate heavy	0.052570015	0.010033393	3.06944E-05	0	0.010064087	0.000877423	0.016337614	0.027279124	0.003167336

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Area	CalYr	Season	Veh	PM10_TOTAL (Tons/day)	PM2_5_RUNEX (Tons/day)	PM2_5_IDLEX (Tons/day)	PM2_5_STREX (Tons/day)	PM2_5_TOTEX (Tons/day)	PM2_5_PMTW (Tons/day)	PM2_5_PMBW (Tons/day)	PM2_5_TOTAL (Tons/day)	SOX_RUNEX (Tons/day)
Los Angele	2015 Annual	LDA		0.349015336	0.002063086	0	2.68E-04	0.002331528	0.015486142	0.1219534	0.13977107	0.0287713
Los Angele	2015 Annual	LDA		0	0	0	0	0	0	0	0	0
Los Angele	2015 Annual	LDA		0.364292949	0.002153163	0	3.53E-04	0.002505772	0.016160546	0.1272643	0.145930618	0.03002687
Los Angele	2015 Annual	LDA		4.10E-05	3.26E-06	0	0	3.26E-06	1.67E-06	1.32E-05	1.81E-05	2.53E-06
Los Angele	2015 Annual	LDA		0.320004309	0.002519358	0	4.71E-04	0.002990316	0.014157828	0.1114929	0.128641044	0.026355315
Los Angele	2015 Annual	LDA		0.001367496	1.05E-04	0	0	1.05E-04	5.60E-05	4.41E-04	6.02E-04	8.49E-05
Los Angele	2015 Annual	LDA		0.419665136	0.003302813	0	7.32E-04	0.004034685	0.018561635	0.1461729	0.16876922	0.034554485
Los Angele	2015 Annual	LDA		0.002505169	1.83E-04	0	0	1.83E-04	1.03E-04	8.12E-04	0.001097902	1.56E-04
Los Angele	2015 Annual	LDA		0.431000747	0.005059186	0	0.001328266	0.006387451	0.018954923	0.14927	0.174612374	0.035287663
Los Angele	2015 Annual	LDA		0.002363734	1.64E-04	0	0	1.64E-04	9.77E-05	7.69E-04	0.00103112	1.48E-04
Los Angele	2015 Annual	LDA		0.468478023	0.007293035	0	0.001908823	0.009201858	0.020494316	0.1613928	0.191088974	0.0381562

Los Angele	2014 Annual	LDA	0	0	1.64E-04	0	1.549067	1.30E-05	1.21E-04	4.07E-04	8.07E-06	9.87E-05	7.42E-06	3.91E-05	6.68E-06
Los Angele	2014 Annual	LDA	0	0.001282064	0.038841745	414.3036	0	7.61E-05	1.26E-03	1.17E-04	1.58E-06	9.87E-05	1.46E-06	3.91E-05	8.47E-06
Los Angele	2014 Annual	LDA	0	0	1.57E-04	0	1.479502	1.22E-05	1.13E-04	3.83E-04	7.60E-06	9.87E-05	6.99E-06	3.91E-05	6.68E-06
Los Angele	2014 Annual	LDA	0	0.001313257	0.042521532	453.5538	0	6.71E-05	1.16E-03	1.08E-04	2.10E-06	9.87E-05	1.95E-06	3.91E-05	8.45E-06
Los Angele	2014 Annual	LDA	0	0	1.56E-04	0	1.465967	1.13E-05	1.05E-04	3.57E-04	7.09E-06	9.87E-05	6.53E-06	3.91E-05	6.68E-06
Los Angele	2014 Annual	LDA	0	0.001299746	0.045909531	489.6918	0	5.89E-05	1.08E-03	9.89E-05	3.24E-06	9.87E-05	3.00E-06	3.91E-05	8.43E-06
Los Angele	2014 Annual	LDA	0	0	1.58E-04	0	1.491594	1.03E-05	9.54E-05	3.30E-04	6.56E-06	9.87E-05	6.03E-06	3.91E-05	6.68E-06
Los Angele	2014 Annual	LDA	0	0.001302686	0.052602236	561.0793	0	4.97E-05	9.91E-04	8.95E-05	4.25E-06	9.87E-05	3.94E-06	3.91E-05	8.40E-06
Los Angele	2014 Annual	LDA	0	0	1.59E-04	0	1.503321	0.00E+00	8.53E-05	3.00E-04	5.96E-06	9.87E-05	5.49E-06	3.91E-05	6.68E-06
Los Angele	2014 Annual	LDT1	0	6.94E-05	0.00191995	20.47905	0	1.47E-04	2.00E-03	1.43E-04	7.04E-07	9.87E-05	6.53E-07	3.91E-05	9.88E-06
Los Angele	2014 Annual	LDT1	0	0	0	0	0	0	0	0	0	0	0	0	0
Los Angele	2014 Annual	LDT1	0	1.40E-04	0.003968125	42.32582	0	1.10E-04	1.75E-03	1.33E-04	7.23E-07	9.87E-05	6.71E-07	3.91E-05	9.86E-06
Los Angele	2014 Annual	LDT1	0	0	0	0	0	0	0	0	0	0	0	0	0
Los Angele	2014 Annual	LDT1	0	1.23E-04	0.003595382	38.34997	0	9.35E-05	1.60E-03	1.29E-04	9.85E-07	9.87E-05	9.14E-07	3.91E-05	9.87E-06
Los Angele	2014 Annual	LDT1	0	0	0	0	0	0	0	0	0	0	0	0	0
Los Angele	2014 Annual	LDT1	0	1.33E-04	0.004011768	42.79133	0	7.95E-05	1.38E-03	1.27E-04	1.01E-06	9.87E-05	9.39E-07	3.91E-05	9.85E-06
Los Angele	2014 Annual	LDT1	0	0	4.45E-06	0	0.041959092	1.55E-05	1.43E-04	4.89E-04	8.09E-06	9.87E-05	7.45E-06	3.91E-05	6.68E-06
Los Angele	2014 Annual	LDT1	0	1.24E-04	0.003907594	41.68016	0	6.89E-05	1.25E-03	1.16E-04	1.57E-06	9.87E-05	1.45E-06	3.91E-05	9.84E-06
Los Angele	2014 Annual	LDT1	0	0	6.33E-06	0	0.059663743	1.45E-05	1.34E-04	4.59E-04	7.61E-06	9.87E-05	7.00E-06	3.91E-05	6.68E-06
Los Angele	2014 Annual	LDT1	0	1.19E-04	0.003928559	41.90379	0	6.13E-05	1.16E-03	1.07E-04	2.09E-06	9.87E-05	1.94E-06	3.91E-05	9.82E-06
Los Angele	2014 Annual	LDT1	0	0	4.71E-06	0	0.044443607	1.34E-05	1.23E-04	4.27E-04	7.08E-06	9.87E-05	6.52E-06	3.91E-05	6.68E-06
Los Angele	2014 Annual	LDT1	0	1.21E-04	0.004266052	45.50364	0	5.37E-05	1.07E-03	9.85E-05	3.24E-06	9.87E-05	3.00E-06	3.91E-05	9.81E-06
Los Angele	2014 Annual	LDT1	0	0	6.44E-06	0	0.060680062	1.22E-05	1.12E-04	3.94E-04	6.53E-06	9.87E-05	6.01E-06	3.91E-05	6.68E-06
Los Angele	2014 Annual	LDT1	0	1.20E-04	0.004675446	49.87041	0	4.56E-05	9.93E-04	8.93E-05	4.27E-06	9.87E-05	3.97E-06	3.91E-05	9.78E-06
Los Angele	2014 Annual	LDT1	0	0	6.58E-06	0	0.062058572	1.09E-05	9.99E-05	3.58E-04	5.94E-06	9.87E-05	5.46E-06	3.91E-05	6.68E-06
Los Angele	2014 Annual	T6 instate heavy	3.50E-06	0	3.74E-04	0	3.52775548	3.94E-04	1.69E-03	1.00E-02	1.14E-04	3.14E-04	1.05E-04	1.30E-04	2.47E-05
Los Angele	2014 Annual	T6 instate heavy	3.19E-06	0	3.61E-04	0	3.403968684	3.69E-04	1.59E-03	9.13E-03	1.07E-04	3.14E-04	9.83E-05	1.30E-04	2.47E-05
Los Angele	2014 Annual	T6 instate heavy	2.22E-06	0	2.65E-04	0	2.50232019	3.43E-04	1.48E-03	7.84E-03	9.97E-05	3.14E-04	9.17E-05	1.30E-04	2.47E-05
Los Angele	2014 Annual	T6 instate heavy	2.69E-06	0	3.26E-04	0	3.071940637	2.13E-04	9.31E-04	2.90E-03	9.20E-05	3.14E-04	8.47E-05	1.30E-04	2.38E-05
Los Angele	2014 Annual	T6 instate heavy	3.07E-06	0	3.85E-04	0	3.629526566	1.98E-04	8.69E-04	2.43E-03	8.40E-05	3.14E-04	7.73E-05	1.30E-04	2.38E-05
Los Angele	2014 Annual	T6 instate heavy	3.47E-06	0	4.43E-04	0	4.174593938	1.84E-04	8.07E-04	1.87E-03	7.57E-05	3.14E-04	6.97E-05	1.30E-04	2.38E-05
Los Angele	2014 Annual	T6 instate heavy	3.96E-06	0	5.03E-04	0	4.741777587	1.58E-04	7.02E-04	1.54E-03	6.18E-05	3.14E-04	5.68E-05	1.30E-04	2.38E-05
Los Angele	2014 Annual	T6 instate heavy	3.82E-06	0	4.85E-04	0	4.570663585	1.49E-04	6.62E-04	1.37E-03	5.61E-05	3.14E-04	5.16E-05	1.30E-04	2.38E-05
Los Angele	2014 Annual	T6 instate heavy	1.01E-06	0	5.41E-05	0	0.510591862	1.47E-04	7.13E-04	1.33E-03	5.08E-05	3.14E-04	4.67E-05	1.30E-04	2.40E-05
Los Angele	2014 Annual	LDA/LDT1	0	0.011126401	0.344704204	3667.01727	8.620609495	8.22E-05	1.35E-03	1.16E-04	2.05E-06	9.87E-05	1.91E-06	3.91E-05	8.56E-06
Los Angele	2014 Annual	T6 instate heavy	2.69332E-05	0	0.003194269	0	30.13313853	2.36E-04	1.03E-03	4.12E-03	8.25E-05	3.14E-04	7.59E-05	1.30E-04	2.41E-05

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Los Angeles COUNTY

South Coast AIR BASIN

South Coast AQMD

Area	CalYr	Season	Veh	SOX_IDLEX (Tons/day)	SOX_STREX (Tons/day)	SOX_TOTEX (Tons/day)	FUEL_GAS (1000 Gallons)	FUEL_DSL (1000 Gallons)	exhaust ROG lb/mile	exhaust CO lb/mile	exhaust NOx lb/mile	exhaust PM10 lb/mile	tire wear a PM10 lb/mile	exhaust PM2.5 lb/mile	tire wear a PM2.5 lb/mile	SOx lb/mile
Los Angele	2015 Annual	LDA		0	0.001225531	0.029996831	319.9597	0	1.66E-04	2.09E-03	1.46E-04	7.15E-07	9.87E-05	6.64E-07	3.91E-05	8.54E-06
Los Angele	2015 Annual	LDA		0	0	0	0	0	0	0	0	0	0	0	0	0
Los Angele	2015 Annual	LDA		0	0.001234452	0.031261322	333.4474	0	1.40E-04	1.85E-03	1.39E-04	7.37E-07	9.87E-05	6.84E-07	3.91E-05	8.53E-06
Los Angele	2015 Annual	LDA		0	0	2.53E-06	0	0.023898164	1.53E-05	1.43E-04	4.71E-04	9.34E-06	9.87E-05	8.59E-06	3.91E-05	6.68E-06
Los Angele	2015 Annual	LDA		0	0.00104273	0.027398045	292.2399	0	1.16E-04	1.75E-03	1.41E-04	1.00E-06	9.87E-05	9.31E-07	3.91E-05	8.53E-06
Los Angele	2015 Annual	LDA		0	0	8.49E-05	0	0.8005573	1.46E-05	1.37E-04	4.51E-04	8.95E-06	9.87E-05	8.23E-06	3.91E-05	6.68E-06
Los Angele	2015 Annual	LDA		0	0.001310943	0.035865428	382.5569	0	1.01E-04	1.59E-03	1.36E-04	1.03E-06	9.87E-05	9.58E-07	3.91E-05	8.52E-06
Los Angele	2015 Annual	LDA		0	0	1.56E-04	0	1.472457	1.38E-05	1.29E-04	4.30E-04	8.52E-06	9.87E-05	7.84E-06	3.91E-05	6.68E-06
Los Angele	2015 Annual	LDA		0	0.001274119	0.036561782	389.9845	0	8.64E-05	1.40E-03	1.28E-04	1.60E-06	9.87E-05	1.49E-06	3.91E-05	8.50E-06
Los Angele	2015 Annual	LDA		0	0	1.48E-04	0	1.395181	1.30E-05	1.22E-04	4.07E-04	8.07E-06	9.87E-05	7.43E-06	3.91E-05	6.68E-06
Los Angele	2015 Annual	LDA		0	0.001299606	0.039455806	420.8535	0	7.57E-05	1.27E-03	1.17E-04	2.13E-06	9.87E-05	1.98E-06	3.91E-05	8.49E-06

Los Angele	2014 Annual	LDA	3.33E-04
Los Angele	2014 Annual	LDA	3.57E-04
Los Angele	2014 Annual	LDA	2.95E-04
Los Angele	2014 Annual	LDA	3.11E-04
Los Angele	2014 Annual	LDA	2.58E-04
Los Angele	2014 Annual	LDA	3.02E-04
Los Angele	2014 Annual	LDA	2.51E-04
Los Angele	2014 Annual	LDA	2.95E-04
Los Angele	2014 Annual	LDA	0.00E+00
Los Angele	2014 Annual	LDT1	4.86E-04
Los Angele	2014 Annual	LDT1	
Los Angele	2014 Annual	LDT1	4.85E-04
Los Angele	2014 Annual	LDT1	
Los Angele	2014 Annual	LDT1	4.86E-04
Los Angele	2014 Annual	LDT1	
Los Angele	2014 Annual	LDT1	4.68E-04
Los Angele	2014 Annual	LDT1	3.33E-04
Los Angele	2014 Annual	LDT1	4.15E-04
Los Angele	2014 Annual	LDT1	2.95E-04
Los Angele	2014 Annual	LDT1	3.61E-04
Los Angele	2014 Annual	LDT1	2.58E-04
Los Angele	2014 Annual	LDT1	3.52E-04
Los Angele	2014 Annual	LDT1	2.51E-04
Los Angele	2014 Annual	LDT1	3.43E-04
Los Angele	2014 Annual	LDT1	2.46E-04
Los Angele	2014 Annual	T6 instate heavy	1.27E-03
Los Angele	2014 Annual	T6 instate heavy	1.27E-03
Los Angele	2014 Annual	T6 instate heavy	1.27E-03
Los Angele	2014 Annual	T6 instate heavy	1.23E-03
Los Angele	2014 Annual	T6 instate heavy	1.23E-03
Los Angele	2014 Annual	T6 instate heavy	1.23E-03
Los Angele	2014 Annual	T6 instate heavy	1.23E-03
Los Angele	2014 Annual	T6 instate heavy	1.23E-03
Los Angele	2014 Annual	T6 instate heavy	1.24E-03
Los Angele	2014 Annual	LDA/LDT1	3.61E-04
Los Angele	2014 Annual	T6 instate heavy	1.24E-03

EMFAC 2011

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South Coast AIR BASIN

South Coast AQMD

Area	CalYr	Season	Veh	exhaust CO2 ton/mile
Los Angele	2015 Annual	LDA		4.15E-04
Los Angele	2015 Annual	LDA		
Los Angele	2015 Annual	LDA		4.15E-04
Los Angele	2015 Annual	LDA		3.41E-04
Los Angele	2015 Annual	LDA		4.15E-04
Los Angele	2015 Annual	LDA		3.41E-04
Los Angele	2015 Annual	LDA		4.00E-04
Los Angele	2015 Annual	LDA		3.29E-04
Los Angele	2015 Annual	LDA		3.55E-04
Los Angele	2015 Annual	LDA		2.92E-04
Los Angele	2015 Annual	LDA		3.09E-04

Los Angele	2015 Annual	LDA	DSL	2012 AllSpeeds	1117.107	43063.68861	7260.467	2.62E-04	0	0	2.62E-04
Los Angele	2015 Annual	LDA	GAS	2013 AllSpeeds	235770.5	9752682.762	1537070	0.086687286	0	0.062769078	0.149456364
Los Angele	2015 Annual	LDA	DSL	2013 AllSpeeds	1044.155	43191.71596	6807.211	2.43E-04	0	0	2.43E-04
Los Angele	2015 Annual	LDA	GAS	2014 AllSpeeds	240198.9	1.09E+07	1570744	0.090795664	0	0.059597809	0.150393473
Los Angele	2015 Annual	LDA	DSL	2014 AllSpeeds	915.3193	41495.08175	5985.589	2.14E-04	0	0	2.14E-04
Los Angele	2015 Annual	LDA	GAS	2015 AllSpeeds	242927.2	1.27E+07	1593443	0.096384988	0	0.054367695	0.150752683
Los Angele	2015 Annual	LDA	DSL	2015 AllSpeeds	863.75	45019.99881	5665.633	2.08E-04	0	0	2.08E-04
Los Angele	2015 Annual	LDT1	GAS	2007 AllSpeeds	10853.74	369382.8767	69348.45	0.004773354	0	0.00419551	0.008968863
Los Angele	2015 Annual	LDT1	DSL	2007 AllSpeeds	0	0	0	0	0	0	0
Los Angele	2015 Annual	LDT1	GAS	2008 AllSpeeds	21977.05	767130.3007	141078.6	0.009033109	0	0.007469798	0.016502907
Los Angele	2015 Annual	LDT1	DSL	2008 AllSpeeds	0	0	0	0	0	0	0
Los Angele	2015 Annual	LDT1	GAS	2009 AllSpeeds	19300.33	692725.9276	124281.7	0.008076658	0	0.006475987	0.014552645
Los Angele	2015 Annual	LDT1	DSL	2009 AllSpeeds	0	0	0	0	0	0	0
Los Angele	2015 Annual	LDT1	GAS	2010 AllSpeeds	20863.18	772630.0092	134971.3	0.008713926	0	0.006803346	0.015517271
Los Angele	2015 Annual	LDT1	DSL	2010 AllSpeeds	33.68534	1247.478828	217.9223	1.03E-05	0	0	1.03E-05
Los Angele	2015 Annual	LDT1	GAS	2011 AllSpeeds	19527.3	749441.2277	126719.5	0.007541257	0	0.005856746	0.013398003
Los Angele	2015 Annual	LDT1	DSL	2011 AllSpeeds	47.30273	1815.444491	306.964	1.41E-05	0	0	1.41E-05
Los Angele	2015 Annual	LDT1	GAS	2012 AllSpeeds	18693.21	748246.9738	121493.7	0.007006104	0	0.005257438	0.012263542
Los Angele	2015 Annual	LDT1	DSL	2012 AllSpeeds	33.45337	1339.067589	217.4252	9.69E-06	0	0	9.69E-06
Los Angele	2015 Annual	LDT1	GAS	2013 AllSpeeds	18864.79	795349.2196	122986.1	0.007044427	0	0.005005728	0.012050155
Los Angele	2015 Annual	LDT1	DSL	2013 AllSpeeds	42.63757	1797.629851	277.9692	1.20E-05	0	0	1.20E-05
Los Angele	2015 Annual	LDT1	GAS	2014 AllSpeeds	19015.58	858814.8251	124349.4	0.007127157	0	0.004695827	0.011822984
Los Angele	2015 Annual	LDT1	DSL	2014 AllSpeeds	39.16486	1768.839566	256.1125	1.08E-05	0	0	1.08E-05
Los Angele	2015 Annual	LDT1	GAS	2015 AllSpeeds	19563.61	983762.647	128324.4	0.00744504	0	0.004351964	0.011797004
Los Angele	2015 Annual	LDT1	DSL	2015 AllSpeeds	39.06543	1964.42858	256.2436	1.08E-05	0	0	1.08E-05
Los Angele	2015 Annual	T6 instate heavy	DSL	2007 AllSpeeds	392.519511	25030.57879	0	0.005147832	9.08E-05	0	0.005238655
Los Angele	2015 Annual	T6 instate heavy	DSL	2008 AllSpeeds	465.7886704	28173.33455	0	0.005471684	1.08E-04	0	0.00557946
Los Angele	2015 Annual	T6 instate heavy	DSL	2009 AllSpeeds	263.9469482	18988.05004	0	0.003456702	6.11E-05	0	0.003517775
Los Angele	2015 Annual	T6 instate heavy	DSL	2010 AllSpeeds	1086.21363	50337.26765	0	0.005563634	2.51E-04	0	0.005814966
Los Angele	2015 Annual	T6 instate heavy	DSL	2011 AllSpeeds	395.7276804	31519.75995	0	0.003270424	9.16E-05	0	0.003361989
Los Angele	2015 Annual	T6 instate heavy	DSL	2012 AllSpeeds	436.5355583	36015.48383	0	0.00348136	1.01E-04	0	0.003582368
Los Angele	2015 Annual	T6 instate heavy	DSL	2013 AllSpeeds	480.9341431	40422.19125	0	0.00329434	1.11E-04	0	0.003405621
Los Angele	2015 Annual	T6 instate heavy	DSL	2014 AllSpeeds	564.0201114	47201.64164	0	0.003616776	1.31E-04	0	0.003747281
Los Angele	2015 Annual	T6 instate heavy	DSL	2015 AllSpeeds	534.4761897	44729.23731	0	0.003210243	1.24E-04	0	0.003333913
Los Angele	2015 Annual	T6 instate heavy	DSL	2016 AllSpeeds	137.1299809	4781.781188	0	3.20E-04	3.17E-05	0	3.52E-04
Los Angele	2015 Annual	LDA/LDT1	GAS&DSL	>2007 AllSpeeds	2270458.118	87430821.42	14717782.33	0.859844721	0	0.674970909	1.53481563
Los Angele	2015 Annual	T6 instate heavy	DSL	>2007 AllSpeeds	4757.292423	327199.3262	0	0.036832978	0.001100763	0	0.037933741

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Los Angeles COUNTY

South Coast AIR BASIN

South Coast AQMD

Area	CalYr	Season	Veh	Fuel	MdIYr	Speed (Miles/hr)	Pop (Vehicles)	VMT (Miles/day)	Trips (Trips/day)	ROG_RUNEX (Tons/day)	ROG_IDLEX (Tons/day)	ROG_STREX (Tons/day)	ROG_TOTEX (Tons/day)
Los Angele	2016 Annual	LDA	GAS	2007 AllSpeeds			217958.4	6447760.566	1383897	0.083918348	0	0.084393181	0.168311529
Los Angele	2016 Annual	LDA	DSL	2007 AllSpeeds			0	0	0	0	0	0	0
Los Angele	2016 Annual	LDA	GAS	2008 AllSpeeds			220291.1	6744071.555	1407520	0.080608868	0	0.075768866	0.156377734
Los Angele	2016 Annual	LDA	DSL	2008 AllSpeeds			22.46428	687.735623	143.5324	5.48E-06	0	0	5.48E-06
Los Angele	2016 Annual	LDA	GAS	2009 AllSpeeds			188107.6	5976249.088	1207530	0.07164948	0	0.064923637	0.136573117
Los Angele	2016 Annual	LDA	DSL	2009 AllSpeeds			768.488	24415.18785	4933.2	1.87E-04	0	0	1.87E-04
Los Angele	2016 Annual	LDA	GAS	2010 AllSpeeds			235316.5	7782646.042	1515286	0.091968964	0	0.07952664	0.171495604
Los Angele	2016 Annual	LDA	DSL	2010 AllSpeeds			1351.746	44706.5147	8704.374	3.26E-04	0	0	3.26E-04
Los Angele	2016 Annual	LDA	GAS	2011 AllSpeeds			232984.1	8057372.347	1507256	0.090282444	0	0.075567722	0.165850166
Los Angele	2016 Annual	LDA	DSL	2011 AllSpeeds			1217.972	42121.62956	7879.491	2.91E-04	0	0	2.91E-04

Los Angele	2015 Annual	LDA	0	0	0	0	2.62E-04	2.98E-04	0	0	2.98E-04
Los Angele	2015 Annual	LDA	0.007667402	0.01160029	0.1533037	0.005642661	0.327670418	0.161336017	0	0.067018032	0.228354049
Los Angele	2015 Annual	LDA	0	0	0	0	2.43E-04	2.77E-04	0	0	2.77E-04
Los Angele	2015 Annual	LDA	0.007295897	0.009445036	0.1490568	0.005049853	0.321241059	0.168982219	0	0.063632071	0.23261429
Los Angele	2015 Annual	LDA	0	0	0	0	2.14E-04	2.43E-04	0	0	2.43E-04
Los Angele	2015 Annual	LDA	0.006937679	0.007788196	0.1444293	0.00456344	0.314471298	0.17938466	0	0.058047932	0.237432592
Los Angele	2015 Annual	LDA	0	0	0	0	2.08E-04	2.36E-04	0	0	2.36E-04
Los Angele	2015 Annual	LDT1	0.001431491	0.003875285	0.016483329	0.001601211	0.032360179	0.008883815	0	0.00447951	0.013363326
Los Angele	2015 Annual	LDT1	0	0	0	0	0	0	0	0	0
Los Angele	2015 Annual	LDT1	0.002352922	0.006000569	0.026807234	0.002528226	0.054191857	0.016811758	0	0.007975441	0.024787199
Los Angele	2015 Annual	LDT1	0	0	0	0	0	0	0	0	0
Los Angele	2015 Annual	LDT1	0.001595679	0.003667373	0.01643429	0.001629997	0.037879984	0.015031682	0	0.006914357	0.021946039
Los Angele	2015 Annual	LDT1	0	0	0	0	0	0	0	0	0
Los Angele	2015 Annual	LDT1	0.001373948	0.002794298	0.015283499	0.001295737	0.036264753	0.016217718	0	0.007263876	0.023481593
Los Angele	2015 Annual	LDT1	0	0	0	0	1.03E-05	1.17E-05	0	0	1.17E-05
Los Angele	2015 Annual	LDT1	0.001062629	0.001869716	0.012575361	9.19E-04	0.029824268	0.014035234	0	0.006253199	0.020288434
Los Angele	2015 Annual	LDT1	0	0	0	0	1.41E-05	1.60E-05	0	0	1.60E-05
Los Angele	2015 Annual	LDT1	8.68E-04	0.00130078	0.01084415	6.87E-04	0.025962922	0.013039246	0	0.005613321	0.018652567
Los Angele	2015 Annual	LDT1	0	0	0	0	9.69E-06	1.10E-05	0	0	1.10E-05
Los Angele	2015 Annual	LDT1	7.97E-04	0.001036827	0.00994762	5.87E-04	0.02441839	0.013110571	0	0.005344573	0.018455143
Los Angele	2015 Annual	LDT1	0	0	0	0	1.20E-05	1.37E-05	0	0	1.37E-05
Los Angele	2015 Annual	LDT1	7.50E-04	8.58E-04	0.009145041	5.19E-04	0.023095656	0.013264542	0	0.005013695	0.018278237
Los Angele	2015 Annual	LDT1	0	0	0	0	1.08E-05	1.23E-05	0	0	1.23E-05
Los Angele	2015 Annual	LDT1	7.26E-04	7.39E-04	0.008946725	4.77E-04	0.022686556	0.013856162	0	0.004646555	0.018502717
Los Angele	2015 Annual	LDT1	0	0	0	0	1.08E-05	1.22E-05	0	0	1.22E-05
Los Angele	2015 Annual	T6 instate heavy	0	0	0	0	0.005238655	0.005860415	1.03E-04	0	0.00596381
Los Angele	2015 Annual	T6 instate heavy	0	0	0	0	0.00557946	0.006229095	1.23E-04	0	0.00635179
Los Angele	2015 Annual	T6 instate heavy	0	0	0	0	0.003517775	0.003935192	6.95E-05	0	0.004004719
Los Angele	2015 Annual	T6 instate heavy	0	0	0	0	0.005814966	0.006333773	2.86E-04	0	0.006619897
Los Angele	2015 Annual	T6 instate heavy	0	0	0	0	0.003361989	0.003723129	1.04E-04	0	0.003827368
Los Angele	2015 Annual	T6 instate heavy	0	0	0	0	0.003582368	0.003963264	1.15E-04	0	0.004078253
Los Angele	2015 Annual	T6 instate heavy	0	0	0	0	0.003405621	0.003750355	1.27E-04	0	0.00387704
Los Angele	2015 Annual	T6 instate heavy	0	0	0	0	0.003747281	0.004117424	1.49E-04	0	0.004265994
Los Angele	2015 Annual	T6 instate heavy	0	0	0	0	0.003333913	0.003654618	1.41E-04	0	0.003795406
Los Angele	2015 Annual	T6 instate heavy	0	0	0	0	3.52E-04	3.64E-04	3.61E-05	0	4.00E-04
Los Angele	2015 Annual	LDA/LDT1	0.118301341	0.295960109	1.80627455	0.111538908	3.866890538	1.598982034	0	0.720660817	2.319642851
Los Angele	2015 Annual	T6 instate heavy	0	0	0	0	0.037933741	0.041931542	0.001253135	0	0.043184676

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Area	CalYr	Season	Veh	ROG_DIURN (Tons/day)	ROG_HTSK (Tons/day)	ROG_RUNLS (Tons/day)	ROG_RESTL (Tons/day)	ROG_TOTAL (Tons/day)	TOG_RUNEX (Tons/day)	TOG_IDLEX (Tons/day)	TOG_STREX (Tons/day)	TOG_TOTEX (Tons/day)
Los Angele	2016 Annual	LDA		0.025587805	0.09151762	0.2833173	0.029439237	0.598173491	0.156182671	0	0.090105899	0.24628857
Los Angele	2016 Annual	LDA		0	0	0	0	0	0	0	0	0
Los Angele	2016 Annual	LDA		0.021610959	0.07405936	0.2632368	0.024084905	0.539369758	0.150023303	0	0.080897786	0.230921089
Los Angele	2016 Annual	LDA		0	0	0	0	5.48E-06	6.24E-06	0	0	6.24E-06
Los Angele	2016 Annual	LDA		0.014919283	0.047785215	0.2003141	0.015945366	0.415537081	0.133348752	0	0.069318421	0.202667173
Los Angele	2016 Annual	LDA		0	0	0	0	1.87E-04	2.12E-04	0	0	2.12E-04
Los Angele	2016 Annual	LDA		0.014489313	0.041544475	0.2062729	0.014723822	0.448526114	0.171165888	0	0.084909938	0.256075826
Los Angele	2016 Annual	LDA		0	0	0	0	3.26E-04	3.71E-04	0	0	3.71E-04
Los Angele	2016 Annual	LDA		0.011457496	0.028628511	0.1853784	0.010740266	0.402054839	0.168027058	0	0.08068303	0.248710088
Los Angele	2016 Annual	LDA		0	0	0	0	2.91E-04	3.31E-04	0	0	3.31E-04

Los Angele	2015 Annual	LDA	0	0	0	0	2.98E-04	0.002442686	0	0	0.002442686
Los Angele	2015 Annual	LDA	0.007667402	0.01160029	0.1533037	0.005642661	0.406568102	4.763551427	0	0.9238994	5.687450827
Los Angele	2015 Annual	LDA	0	0	0	0	2.77E-04	0.002264436	0	0	0.002264436
Los Angele	2015 Annual	LDA	0.007295897	0.009445036	0.1490568	0.005049853	0.403461876	4.989252119	0	0.877608	5.866860119
Los Angele	2015 Annual	LDA	0	0	0	0	2.43E-04	0.001984243	0	0	0.001984243
Los Angele	2015 Annual	LDA	0.006937679	0.007788196	0.1444293	0.00456344	0.401151207	5.453740033	0	0.8350047	6.288744733
Los Angele	2015 Annual	LDA	0	0	0	0	2.36E-04	0.001923863	0	0	0.001923863
Los Angele	2015 Annual	LDT1	0.001431491	0.003875285	0.016483329	0.001601211	0.036754641	0.303593217	0	0.080768332	0.384361549
Los Angele	2015 Annual	LDT1	0	0	0	0	0	0	0	0	0
Los Angele	2015 Annual	LDT1	0.002352922	0.006000569	0.026807234	0.002528226	0.06247615	0.562334049	0	0.1416074	0.703941449
Los Angele	2015 Annual	LDT1	0	0	0	0	0	0	0	0	0
Los Angele	2015 Annual	LDT1	0.001595679	0.003667373	0.01643429	0.001629997	0.045273378	0.483308328	0	0.1166655	0.599973828
Los Angele	2015 Annual	LDT1	0	0	0	0	0	0	0	0	0
Los Angele	2015 Annual	LDT1	0.001373948	0.002794298	0.015283499	0.001295737	0.044229075	0.497123626	0	0.1139986	0.611122226
Los Angele	2015 Annual	LDT1	0	0	0	0	1.17E-05	9.56E-05	0	0	9.56E-05
Los Angele	2015 Annual	LDT1	0.001062629	0.001869716	0.012575361	9.19E-04	0.036714698	0.426818368	0	0.092074722	0.51889309
Los Angele	2015 Annual	LDT1	0	0	0	0	1.60E-05	1.30E-04	0	0	1.30E-04
Los Angele	2015 Annual	LDT1	8.68E-04	0.00130078	0.01084415	6.87E-04	0.032351947	0.389948144	0	0.07906834	0.469016484
Los Angele	2015 Annual	LDT1	0	0	0	0	1.10E-05	8.96E-05	0	0	8.96E-05
Los Angele	2015 Annual	LDT1	7.97E-04	0.001036827	0.00994762	5.87E-04	0.030823378	0.386779422	0	0.073653445	0.460432867
Los Angele	2015 Annual	LDT1	0	0	0	0	1.37E-05	1.11E-04	0	0	1.11E-04
Los Angele	2015 Annual	LDT1	7.50E-04	8.58E-04	0.009145041	5.19E-04	0.029550909	0.391638996	0	0.069213353	0.460852349
Los Angele	2015 Annual	LDT1	0	0	0	0	1.23E-05	9.91E-05	0	0	9.91E-05
Los Angele	2015 Annual	LDT1	7.26E-04	7.39E-04	0.008946725	4.77E-04	0.02939227	0.422031161	0	0.067064062	0.489095223
Los Angele	2015 Annual	LDT1	0	0	0	0	1.22E-05	9.83E-05	0	0	9.83E-05
Los Angele	2015 Annual	T6 instate heavy	0	0	0	0	0.00596381	0.021421963	0.001073986	0	0.022495949
Los Angele	2015 Annual	T6 instate heavy	0	0	0	0	0.00635179	0.022769625	0.00127446	0	0.024044085
Los Angele	2015 Annual	T6 instate heavy	0	0	0	0	0.004004719	0.014384569	7.22E-04	0	0.015106764
Los Angele	2015 Annual	T6 instate heavy	0	0	0	0	0.006619897	0.023152262	0.002972027	0	0.026124289
Los Angele	2015 Annual	T6 instate heavy	0	0	0	0	0.003827368	0.013609399	0.001082764	0	0.014692163
Los Angele	2015 Annual	T6 instate heavy	0	0	0	0	0.004078253	0.014487181	0.00119442	0	0.015681601
Los Angele	2015 Annual	T6 instate heavy	0	0	0	0	0.00387704	0.013708923	0.001315901	0	0.015024823
Los Angele	2015 Annual	T6 instate heavy	0	0	0	0	0.004265994	0.015050693	0.001543235	0	0.016593928
Los Angele	2015 Annual	T6 instate heavy	0	0	0	0	0.003795406	0.013358966	0.001462399	0	0.014821365
Los Angele	2015 Annual	T6 instate heavy	0	0	0	0	4.00E-04	0.001331565	3.75E-04	0	0.001706772
Los Angele	2015 Annual	LDA/LDT1	0.118301341	0.295960109	1.80627455	0.111538908	4.65171776	49.66262528	0	11.22219085	60.88481614
Los Angele	2015 Annual	T6 instate heavy	0	0	0	0	0.043184676	0.153275146	0.013016592	0	0.166291738

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Area	CalYr	Season	Veh	TOG_DIURN (Tons/day)	TOG_HTSK (Tons/day)	TOG_RUNLS (Tons/day)	TOG_RESTL (Tons/day)	TOG_TOTAL (Tons/day)	CO_RUNEX (Tons/day)	CO_IDLEX (Tons/day)	CO_STREX (Tons/day)	CO_TOTEX (Tons/day)
Los Angele	2016 Annual	LDA		0.025587805	0.09151762	0.2833173	0.029439237	0.676150532	5.324379908	0	1.618275	6.942654908
Los Angele	2016 Annual	LDA		0	0	0	0	0	0	0	0	0
Los Angele	2016 Annual	LDA		0.021610959	0.07405936	0.2632368	0.024084905	0.613913113	5.019292897	0	1.437928	6.457220897
Los Angele	2016 Annual	LDA		0	0	0	0	6.24E-06	5.14E-05	0	0	5.14E-05
Los Angele	2016 Annual	LDA		0.014919283	0.047785215	0.2003141	0.015945366	0.481631137	4.311168127	0	1.178284	5.489452127
Los Angele	2016 Annual	LDA		0	0	0	0	2.12E-04	0.001749164	0	0	0.001749164
Los Angele	2016 Annual	LDA		0.014489313	0.041544475	0.2062729	0.014723822	0.533106336	5.314194337	0	1.371543	6.685737337
Los Angele	2016 Annual	LDA		0	0	0	0	3.71E-04	0.003054026	0	0	0.003054026
Los Angele	2016 Annual	LDA		0.011457496	0.028628511	0.1853784	0.010740266	0.484914761	5.152889195	0	1.261667	6.414556195
Los Angele	2016 Annual	LDA		0	0	0	0	3.31E-04	0.002722229	0	0	0.002722229

Los Angele	2015 Annual	LDA	0.008244493	0	0	0.008244493	15.07121945	0	0	15.07121945	10.97674591
Los Angele	2015 Annual	LDA	0.46890863	0	0.058294527	0.527203157	4002.921178	0	125.893	4128.814178	2841.273452
Los Angele	2015 Annual	LDA	0.00772036	0	0	0.00772036	15.11602441	0	0	15.11602441	10.72935412
Los Angele	2015 Annual	LDA	0.487315019	0	0.052009013	0.539324032	4470.549257	0	128.6446	4599.193857	3103.455294
Los Angele	2015 Annual	LDA	0.006851498	0	0	0.006851498	14.52224582	0	0	14.52224582	10.08134304
Los Angele	2015 Annual	LDA	0.522517732	0	0.044729758	0.56724749	5199.522844	0	130.4943	5330.017144	3462.49225
Los Angele	2015 Annual	LDA	0.006756444	0	0	0.006756444	15.75587905	0	0	15.75587905	10.49223376
Los Angele	2015 Annual	LDT1	0.0230062	0	0.003976112	0.026982313	176.0229227	0	6.610573	182.6334957	171.6223497
Los Angele	2015 Annual	LDT1	0	0	0	0	0	0	0	0	0
Los Angele	2015 Annual	LDT1	0.045715283	0	0.00758398	0.053299263	365.3483435	0	13.43617	378.7845135	356.2146349
Los Angele	2015 Annual	LDT1	0	0	0	0	0	0	0	0	0
Los Angele	2015 Annual	LDT1	0.041557808	0	0.006740649	0.048298458	330.577259	0	11.85679	342.434049	322.3128276
Los Angele	2015 Annual	LDT1	0	0	0	0	0	0	0	0	0
Los Angele	2015 Annual	LDT1	0.04508791	0	0.007058274	0.052146183	368.592621	0	12.86862	381.461241	346.7995823
Los Angele	2015 Annual	LDT1	3.23E-04	0	0	3.23E-04	0.436586547	0	0	0.436586547	0.410773368
Los Angele	2015 Annual	LDT1	0.041442659	0	0.006093201	0.04753586	357.6008189	0	12.0806	369.6814189	298.4536434
Los Angele	2015 Annual	LDT1	4.44E-04	0	0	4.44E-04	0.635360444	0	0	0.635360444	0.530271826
Los Angele	2015 Annual	LDT1	0.038345649	0	0.005165037	0.043510686	357.1127225	0	11.58155	368.6942725	260.0941236
Los Angele	2015 Annual	LDT1	3.08E-04	0	0	3.08E-04	0.468640353	0	0	0.468640353	0.341322485
Los Angele	2015 Annual	LDT1	0.038088244	0	0.004635739	0.042723983	379.6607884	0	11.72235	391.3831384	269.4832276
Los Angele	2015 Annual	LDT1	3.84E-04	0	0	3.84E-04	0.629125751	0	0	0.629125751	0.446553458
Los Angele	2015 Annual	LDT1	0.0382501	0	0.004084153	0.042334253	410.0622835	0	11.85178	421.9140635	284.6652372
Los Angele	2015 Annual	LDT1	3.48E-04	0	0	3.48E-04	0.619049791	0	0	0.619049791	0.429744365
Los Angele	2015 Annual	LDT1	0.040415349	0	0.003573555	0.043988904	469.7950106	0	12.22884	482.0238506	312.8482424
Los Angele	2015 Annual	LDT1	3.52E-04	0	0	3.52E-04	0.687501162	0	0	0.687501162	0.457824211
Los Angele	2015 Annual	T6 instate heavy	0.127011358	0.001622573	0	0.128633931	32.11888854	0.322686589	0	32.44157513	31.31591632
Los Angele	2015 Annual	T6 instate heavy	0.130358108	0.001925448	0	0.132283556	36.15162877	0.382920474	0	36.53454924	35.24783805
Los Angele	2015 Annual	T6 instate heavy	0.075676025	0.001091087	0	0.076767113	24.36520018	0.216988297	0	24.58218848	23.75607017
Los Angele	2015 Annual	T6 instate heavy	0.075649755	0.004490122	0	0.080139877	62.43390279	0.892965983	0	63.32686878	60.87305522
Los Angele	2015 Annual	T6 instate heavy	0.040177529	0.001635834	0	0.041813363	39.09432753	0.325323995	0	39.41965153	38.11696934
Los Angele	2015 Annual	T6 instate heavy	0.036050863	0.001804524	0	0.037855386	44.67042654	0.358871766	0	45.0292983	43.55366587
Los Angele	2015 Annual	T6 instate heavy	0.0327898	0.001988056	0	0.034777856	50.0207293	0.395371424	0	50.41610072	48.77021107
Los Angele	2015 Annual	T6 instate heavy	0.034130189	0.002331511	0	0.0364617	58.41000861	0.463675615	0	58.87368423	56.9497584
Los Angele	2015 Annual	T6 instate heavy	0.028418301	0.002209384	0	0.030627685	55.35051421	0.439387836	0	55.78990205	53.96675136
Los Angele	2015 Annual	T6 instate heavy	0.002618547	5.67E-04	0	0.003185407	5.917249289	0.112733264	0	6.029982553	5.769318056
Los Angele	2015 Annual	LDA/LDT1	4.580517116	0	0.655359863	5.23587698	36292.38392	0	1215.749673	37508.13359	29375.0727
Los Angele	2015 Annual	T6 instate heavy	0.582880475	0.019665399	0	0.602545875	408.5328758	3.910925242	0	412.443801	398.3195539

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Area	CalYr	Season	Veh	NOX_RUNEX (Tons/day)	NOX_IDLEX (Tons/day)	NOX_STREX (Tons/day)	NOX_TOTEX (Tons/day)	CO2_RUNEX (Tons/day)	CO2_IDLEX (Tons/day)	CO2_STREX (Tons/day)	CO2_TOTEX (Tons/day)	CO2_RUNEX(Pavt) (Tons/day)
Los Angele	2016 Annual	LDA		0.400995963	0	0.079279631	0.480275594	2637.074701	0	113.1573	2750.232001	2544.777086
Los Angele	2016 Annual	LDA		0	0	0	0	0	0	0	0	0
Los Angele	2016 Annual	LDA		0.404339519	0	0.076431967	0.480771486	2758.548667	0	115.1008	2873.649467	2661.999463
Los Angele	2016 Annual	LDA		1.68E-04	0	0	1.68E-04	0.240690364	0	0	0.240690364	0.232266201
Los Angele	2016 Annual	LDA		0.369821354	0	0.068471283	0.438292637	2449.462694	0	98.91746	2548.380154	2363.7315
Los Angele	2016 Annual	LDA		0.005751577	0	0	0.005751577	8.54470877	0	0	8.54470877	8.245643964
Los Angele	2016 Annual	LDA		0.48357368	0	0.086342648	0.569916328	3190.642574	0	124.1203	3314.762874	2971.206131
Los Angele	2016 Annual	LDA		0.010091433	0	0	0.010091433	15.64616781	0	0	15.64616781	14.57010262
Los Angele	2016 Annual	LDA		0.469437648	0	0.078565247	0.548002895	3304.318709	0	123.4631	3427.781809	2729.499426
Los Angele	2016 Annual	LDA		0.009048911	0	0	0.009048911	14.74152095	0	0	14.74152095	12.17708597

Los Angele	2015 Annual	LDA	0	0	10.97674591	1.64E-04	0	0	1.64E-04	3.80E-04	0.001744508
Los Angele	2015 Annual	LDA	0	89.3588514	2930.632304	0.012368993	0	0.003779794	0.016148787	0.086003937	0.3950806
Los Angele	2015 Annual	LDA	0	0	10.72935412	1.53E-04	0	0	1.53E-04	3.81E-04	0.001749694
Los Angele	2015 Annual	LDA	0	89.30508132	3192.760375	0.018412871	0	0.0054645	0.023877371	0.096025892	0.441119
Los Angele	2015 Annual	LDA	0	0	10.08134304	1.36E-04	0	0	1.36E-04	3.66E-04	0.001680964
Los Angele	2015 Annual	LDA	0	86.89941673	3549.391667	0.02676078	0	0.007138802	0.033899582	0.1116572	0.5129253
Los Angele	2015 Annual	LDA	0	0	10.49223376	1.34E-04	0	0	1.34E-04	3.97E-04	0.001823758
Los Angele	2015 Annual	LDT1	0	6.445308675	178.0676583	1.17E-04	0	1.37E-05	1.31E-04	0.0032574	0.01496368
Los Angele	2015 Annual	LDT1	0	0	0	0	0	0	0	0	0
Los Angele	2015 Annual	LDT1	0	13.10026575	369.3149006	2.43E-04	0	3.62E-05	2.79E-04	0.006764932	0.031076411
Los Angele	2015 Annual	LDT1	0	0	0	0	0	0	0	0	0
Los Angele	2015 Annual	LDT1	0	11.56037025	333.8731978	2.93E-04	0	5.05E-05	3.43E-04	0.006108798	0.028062293
Los Angele	2015 Annual	LDT1	0	0	0	0	0	0	0	0	0
Los Angele	2015 Annual	LDT1	0	12.10776284	358.9073452	3.27E-04	0	6.76E-05	3.94E-04	0.006813431	0.031299204
Los Angele	2015 Annual	LDT1	0	0	0.410773368	5.34E-06	0	0	5.34E-06	1.10E-05	5.05E-05
Los Angele	2015 Annual	LDT1	0	10.08246876	308.5361122	4.75E-04	0	1.18E-04	5.93E-04	0.00660894	0.030359821
Los Angele	2015 Annual	LDT1	0	0	0.530271826	7.35E-06	0	0	7.35E-06	1.60E-05	7.35E-05
Los Angele	2015 Annual	LDT1	0	8.435132404	268.529256	6.32E-04	0	1.59E-04	7.92E-04	0.006598409	0.030311448
Los Angele	2015 Annual	LDT1	0	0	0.341322485	5.09E-06	0	0	5.09E-06	1.18E-05	5.42E-05
Los Angele	2015 Annual	LDT1	0	8.32052403	277.8037516	0.001008214	0	3.02E-04	0.001310497	0.00701378	0.032219555
Los Angele	2015 Annual	LDT1	0	0	0.446553458	6.37E-06	0	0	6.37E-06	1.59E-05	7.28E-05
Los Angele	2015 Annual	LDT1	0	8.227505676	292.8927429	0.00145149	0	4.32E-04	0.00188388	0.007573451	0.034790546
Los Angele	2015 Annual	LDT1	0	0	0.429744365	5.78E-06	0	0	5.78E-06	1.56E-05	7.17E-05
Los Angele	2015 Annual	LDT1	0	8.143490277	320.9917327	0.002078028	0	5.75E-04	0.00265261	0.008675303	0.039852176
Los Angele	2015 Annual	LDT1	0	0	0.457824211	5.84E-06	0	0	5.84E-06	1.73E-05	7.96E-05
Los Angele	2015 Annual	T6 instate heavy	0.314619424	0	31.63053575	0.001501888	3.81E-06	0	0.001505701	3.31E-04	0.003596275
Los Angele	2015 Annual	T6 instate heavy	0.373347462	0	35.62118551	0.001600091	4.53E-06	0	0.001604617	3.73E-04	0.004047811
Los Angele	2015 Annual	T6 instate heavy	0.21156359	0	23.96763376	0.00101367	2.56E-06	0	0.001016234	2.51E-04	0.002728113
Los Angele	2015 Annual	T6 instate heavy	0.870641833	0	61.74369706	0.002505096	1.06E-05	0	0.002515649	6.66E-04	0.00723222
Los Angele	2015 Annual	T6 instate heavy	0.317190895	0	38.43416024	0.001448141	3.84E-06	0	0.001451986	4.17E-04	0.00452861
Los Angele	2015 Annual	T6 instate heavy	0.349899972	0	43.90356585	0.001510405	4.24E-06	0	0.001514646	4.76E-04	0.005174534
Los Angele	2015 Annual	T6 instate heavy	0.385487138	0	49.1556982	0.001359953	4.67E-06	0	0.001364625	5.35E-04	0.005807669
Los Angele	2015 Annual	T6 instate heavy	0.452083725	0	57.40184212	0.00145388	5.48E-06	0	0.00145936	6.24E-04	0.006781708
Los Angele	2015 Annual	T6 instate heavy	0.42840314	0	54.3951545	0.001251142	5.19E-06	0	0.001256335	5.92E-04	0.006426485
Los Angele	2015 Annual	T6 instate heavy	0.109914933	0	5.879232989	1.20E-04	1.33E-06	0	1.22E-04	6.33E-05	6.87E-04
Los Angele	2015 Annual	LDA/LDT1	0	1006.591401	30381.6641	0.08941776	0	0.023592512	0.113010273	0.771007883	3.541818019
Los Angele	2015 Annual	T6 instate heavy	3.813152111	0	402.132706	0.013764486	4.62202E-05	0	0.013810706	0.004328106	0.047010447

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Los Angeles COUNTY

South Coast AIR BASIN

South Coast AQMD

Area	CalYr	Season	Veh	CO2_IDLEX(Pavle (Tons/day)	CO2_STREX(Pavk (Tons/day)	CO2_TOTEX(Pavk (Tons/day)	PM10_RUNEX (Tons/day)	PM10_IDLEX (Tons/day)	PM10_STREX (Tons/day)	PM10_TOTEX (Tons/day)	PM10_PMTW (Tons/day)	PM10_PMBW (Tons/day)
Los Angele	2016 Annual	LDA		0	109.1967945	2653.973881	0.002040953	0	2.73E-04	0.002314057	0.056859512	0.2611984
Los Angele	2016 Annual	LDA		0	0	0	0	0	0	0	0	0
Los Angele	2016 Annual	LDA		0	111.072272	2773.071735	0.002134967	0	3.61E-04	0.002496101	0.059472535	0.273202
Los Angele	2016 Annual	LDA		0	0	0.232266201	3.34E-06	0	0	3.34E-06	6.06E-06	2.79E-05
Los Angele	2016 Annual	LDA		0	95.4553489	2459.186849	0.00252688	0	4.90E-04	0.003017086	0.052701488	0.2420975
Los Angele	2016 Annual	LDA		0	0	8.245643964	1.14E-04	0	0	1.14E-04	2.15E-04	9.89E-04
Los Angele	2016 Annual	LDA		0	115.5839264	3086.790057	0.003290457	0	7.59E-04	0.004049352	0.06863118	0.3152746
Los Angele	2016 Annual	LDA		0	0	14.57010262	2.00E-04	0	0	2.00E-04	3.94E-04	0.001811059
Los Angele	2016 Annual	LDA		0	101.9854591	2831.484885	0.005109939	0	0.001406453	0.006516392	0.071053863	0.3264037
Los Angele	2016 Annual	LDA		0	0	12.17708597	1.79E-04	0	0	1.79E-04	3.71E-04	0.001706345



Los Angele	2015 Annual	LDA	0.002287864	1.51E-04	0	0	1.51E-04	9.49E-05	7.48E-04	9.93E-04	1.44E-04
Los Angele	2015 Annual	LDA	0.497233324	0.011476386	0	0.003507025	0.014983411	0.021500984	0.1693203	0.205804695	0.040035564
Los Angele	2015 Annual	LDA	0.00228384	1.41E-04	0	0	1.41E-04	9.52E-05	7.50E-04	9.86E-04	1.44E-04
Los Angele	2015 Annual	LDA	0.561022263	0.017084105	0	0.005070154	0.022154259	0.024006473	0.189051	0.235211732	0.044707078
Los Angele	2015 Annual	LDA	0.002182967	1.25E-04	0	0	1.25E-04	9.15E-05	7.20E-04	9.37E-04	1.39E-04
Los Angele	2015 Annual	LDA	0.658482082	0.024829588	0	0.00662363	0.031453218	0.027914297	0.2198251	0.279192615	0.051991101
Los Angele	2015 Annual	LDA	0.002355044	1.24E-04	0	0	1.24E-04	9.93E-05	7.82E-04	0.001004398	1.50E-04
Los Angele	2015 Annual	LDT1	0.018351855	1.09E-04	0	1.27E-05	1.21E-04	8.14E-04	0.006413006	0.007348694	0.001762036
Los Angele	2015 Annual	LDT1	0	0	0	0	0	0	0	0	0
Los Angele	2015 Annual	LDT1	0.038120469	2.25E-04	0	3.36E-05	2.59E-04	0.001691233	0.01331846	0.015268676	0.003656125
Los Angele	2015 Annual	LDT1	0	0	0	0	0	0	0	0	0
Los Angele	2015 Annual	LDT1	0.034514536	2.72E-04	0	4.68E-05	3.19E-04	0.0015272	0.012026696	0.013872555	0.003307757
Los Angele	2015 Annual	LDT1	0	0	0	0	0	0	0	0	0
Los Angele	2015 Annual	LDT1	0.038506783	3.03E-04	0	6.27E-05	3.66E-04	0.001703358	0.013413941	0.015483003	0.003687468
Los Angele	2015 Annual	LDT1	6.69E-05	4.91E-06	0	0	4.91E-06	2.75E-06	2.17E-05	2.93E-05	4.17E-06
Los Angele	2015 Annual	LDT1	0.037562062	4.41E-04	0	1.10E-04	5.50E-04	0.001652235	0.013011354	0.015214075	0.003576584
Los Angele	2015 Annual	LDT1	9.69E-05	6.76E-06	0	0	6.76E-06	4.00E-06	3.15E-05	4.23E-05	6.07E-06
Los Angele	2015 Annual	LDT1	0.037701682	5.87E-04	0	1.48E-04	7.35E-04	0.001649602	0.01299062	0.015374905	0.003571106
Los Angele	2015 Annual	LDT1	7.11E-05	4.69E-06	0	0	4.69E-06	2.95E-06	2.32E-05	3.09E-05	4.47E-06
Los Angele	2015 Annual	LDT1	0.040543832	9.35E-04	0	2.80E-04	0.001215925	0.001753445	0.013808382	0.016777752	0.003796128
Los Angele	2015 Annual	LDT1	9.50E-05	5.86E-06	0	0	5.86E-06	3.96E-06	3.12E-05	4.10E-05	6.01E-06
Los Angele	2015 Annual	LDT1	0.044247877	0.001346744	0	4.01E-04	0.00174793	0.001893363	0.014910231	0.018551523	0.004099669
Los Angele	2015 Annual	LDT1	9.30E-05	5.32E-06	0	0	5.32E-06	3.90E-06	3.07E-05	3.99E-05	5.91E-06
Los Angele	2015 Annual	LDT1	0.051180089	0.001928067	0	5.33E-04	0.002461184	0.002168826	0.017079502	0.021709512	0.0046964
Los Angele	2015 Annual	LDT1	1.03E-04	5.37E-06	0	0	5.37E-06	4.33E-06	3.41E-05	4.38E-05	6.56E-06
Los Angele	2015 Annual	T6 instate heavy	0.005433074	0.001381737	3.51E-06	0	0.001385245	8.28E-05	0.001541261	0.00300928	3.06E-04
Los Angele	2015 Annual	T6 instate heavy	0.006025097	0.001472084	4.16E-06	0	0.001476247	9.32E-05	0.001734776	0.003304191	3.45E-04
Los Angele	2015 Annual	T6 instate heavy	0.003995516	9.33E-04	2.36E-06	0	9.35E-04	6.28E-05	0.001169191	0.002166919	2.32E-04
Los Angele	2015 Annual	T6 instate heavy	0.010413717	0.002304688	9.71E-06	0	0.002314397	1.66E-04	0.003099523	0.005580382	5.96E-04
Los Angele	2015 Annual	T6 instate heavy	0.00639753	0.00133229	3.54E-06	0	0.001335827	1.04E-04	0.001940833	0.003380893	3.73E-04
Los Angele	2015 Annual	T6 instate heavy	0.007165583	0.001389572	3.90E-06	0	0.001393474	1.19E-04	0.002217657	0.003730232	4.26E-04
Los Angele	2015 Annual	T6 instate heavy	0.007706988	0.001251157	4.30E-06	0	0.001255455	1.34E-04	0.002489001	0.00387813	4.77E-04
Los Angele	2015 Annual	T6 instate heavy	0.008865439	0.00133757	5.04E-06	0	0.001342611	1.56E-04	0.002906446	0.00440515	5.57E-04
Los Angele	2015 Annual	T6 instate heavy	0.008274486	0.001151051	4.78E-06	0	0.001155828	1.48E-04	0.002754208	0.004057953	5.28E-04
Los Angele	2015 Annual	T6 instate heavy	8.72E-04	1.11E-04	1.23E-06	0	1.12E-04	1.58E-05	2.94E-04	4.22E-04	5.65E-05
Los Angele	2015 Annual	LDA/LDT1	4.425836175	0.082956167	0	0.021889957	0.104846124	0.192751967	1.517921942	1.815520034	0.363040908
Los Angele	2015 Annual	T6 instate heavy	0.06514926	0.012663327	4.25226E-05	0	0.01270585	0.001082027	0.020147334	0.033935211	0.003897595

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South Coast AIR BASIN

South Coast AQMD

Area	CalYr	Season	Veh	PM10_TOTAL (Tons/day)	PM2_5_RUNEX (Tons/day)	PM2_5_IDLEX (Tons/day)	PM2_5_STREX (Tons/day)	PM2_5_TOTEX (Tons/day)	PM2_5_PMTW (Tons/day)	PM2_5_PMBW (Tons/day)	PM2_5_TOTAL (Tons/day)	SOX_RUNEX (Tons/day)
Los Angele	2016 Annual	LDA		0.320371969	0.001893668	0	2.53E-04	0.002147064	0.014214878	0.1119422	0.128304142	0.026410656
Los Angele	2016 Annual	LDA		0	0	0	0	0	0	0	0	0
Los Angele	2016 Annual	LDA		0.335170636	0.001980898	0	3.35E-04	0.00231597	0.014868134	0.1170865	0.134270604	0.02761822
Los Angele	2016 Annual	LDA		3.73E-05	3.07E-06	0	0	3.07E-06	1.52E-06	1.19E-05	1.65E-05	2.30E-06
Los Angele	2016 Annual	LDA		0.297816074	0.002344527	0	4.55E-04	0.002799358	0.013175372	0.1037561	0.11973083	0.024521412
Los Angele	2016 Annual	LDA		0.001318375	1.05E-04	0	0	1.05E-04	5.38E-05	4.24E-04	5.83E-04	8.16E-05
Los Angele	2016 Annual	LDA		0.387955132	0.003053001	0	7.04E-04	0.00375713	0.017157795	0.1351177	0.156032625	0.031936515
Los Angele	2016 Annual	LDA		0.002405382	1.84E-04	0	0	1.84E-04	9.86E-05	7.76E-04	0.001058802	1.49E-04
Los Angele	2016 Annual	LDA		0.403973955	0.004741181	0	0.001304957	0.006046137	0.017763466	0.1398873	0.163696903	0.033068575
Los Angele	2016 Annual	LDA		0.002257247	1.65E-04	0	0	1.65E-04	9.29E-05	7.31E-04	9.89E-04	1.41E-04

Los Angele	2015 Annual	LDA	0	0	1.44E-04	0	1.35641	1.22E-05	1.13E-04	3.83E-04	7.60E-06	9.87E-05	6.99E-06	3.91E-05	6.68E-06
Los Angele	2015 Annual	LDA	0	0.001273121	0.041308685	440.6172	0	6.72E-05	1.17E-03	1.08E-04	3.31E-06	9.87E-05	3.07E-06	3.91E-05	8.47E-06
Los Angele	2015 Annual	LDA	0	0	1.44E-04	0	1.360443	1.13E-05	1.05E-04	3.57E-04	7.10E-06	9.87E-05	6.53E-06	3.91E-05	6.68E-06
Los Angele	2015 Annual	LDA	0	0.001299759	0.046006837	490.7297	0	5.90E-05	1.08E-03	9.91E-05	4.39E-06	9.87E-05	4.07E-06	3.91E-05	8.45E-06
Los Angele	2015 Annual	LDA	0	0	1.39E-04	0	1.307002	0.00E+00	9.56E-05	3.30E-04	6.56E-06	9.87E-05	6.03E-06	3.91E-05	6.68E-06
Los Angele	2015 Annual	LDA	0	0.001317388	0.053308489	568.6125	0	4.97E-05	9.93E-04	8.96E-05	5.35E-06	9.87E-05	4.97E-06	3.91E-05	8.42E-06
Los Angele	2015 Annual	LDA	0	0	1.50E-04	0	1.418029	0.00E+00	8.55E-05	3.00E-04	5.97E-06	9.87E-05	5.49E-06	3.91E-05	6.68E-06
Los Angele	2015 Annual	LDT1	0	6.74E-05	0.001829422	19.51344	0	1.75E-04	2.08E-03	1.46E-04	7.08E-07	9.87E-05	6.57E-07	3.91E-05	9.91E-06
Los Angele	2015 Annual	LDT1	0	0	0	0	0	0	0	0	0	0	0	0	0
Los Angele	2015 Annual	LDT1	0	1.37E-04	0.0037927	40.45465	0	1.41E-04	1.84E-03	1.39E-04	7.28E-07	9.87E-05	6.75E-07	3.91E-05	9.89E-06
Los Angele	2015 Annual	LDT1	0	0	0	0	0	0	0	0	0	0	0	0	0
Los Angele	2015 Annual	LDT1	0	1.20E-04	0.003428144	36.56614	0	1.09E-04	1.73E-03	1.39E-04	9.92E-07	9.87E-05	9.20E-07	3.91E-05	9.90E-06
Los Angele	2015 Annual	LDT1	0	0	0	0	0	0	0	0	0	0	0	0	0
Los Angele	2015 Annual	LDT1	0	1.30E-04	0.003817924	40.72371	0	9.39E-05	1.58E-03	1.35E-04	1.02E-06	9.87E-05	9.47E-07	3.91E-05	9.88E-06
Los Angele	2015 Annual	LDT1	0	0	4.17E-06	0	0.039292794	1.65E-05	1.53E-04	5.18E-04	8.56E-06	9.87E-05	7.88E-06	3.91E-05	6.68E-06
Los Angele	2015 Annual	LDT1	0	1.22E-04	0.0036988	39.45308	0	7.96E-05	1.38E-03	1.27E-04	1.58E-06	9.87E-05	1.47E-06	3.91E-05	9.87E-06
Los Angele	2015 Annual	LDT1	0	0	6.07E-06	0	0.057182439	1.55E-05	1.44E-04	4.89E-04	8.10E-06	9.87E-05	7.45E-06	3.91E-05	6.68E-06
Los Angele	2015 Annual	LDT1	0	1.17E-04	0.003688117	39.33913	0	6.94E-05	1.25E-03	1.16E-04	2.12E-06	9.87E-05	1.96E-06	3.91E-05	9.86E-06
Los Angele	2015 Annual	LDT1	0	0	4.47E-06	0	0.042177636	1.45E-05	1.34E-04	4.59E-04	7.61E-06	9.87E-05	7.00E-06	3.91E-05	6.68E-06
Los Angele	2015 Annual	LDT1	0	1.18E-04	0.003914452	41.75331	0	6.14E-05	1.16E-03	1.07E-04	3.30E-06	9.87E-05	3.06E-06	3.91E-05	9.84E-06
Los Angele	2015 Annual	LDT1	0	0	6.01E-06	0	0.056621317	1.34E-05	1.23E-04	4.28E-04	7.08E-06	9.87E-05	6.52E-06	3.91E-05	6.68E-06
Los Angele	2015 Annual	LDT1	0	1.20E-04	0.004219205	45.00394	0	5.38E-05	1.07E-03	9.86E-05	4.39E-06	9.87E-05	4.07E-06	3.91E-05	9.83E-06
Los Angele	2015 Annual	LDT1	0	0	5.91E-06	0	0.055714484	1.22E-05	1.12E-04	3.94E-04	6.53E-06	9.87E-05	6.01E-06	3.91E-05	6.68E-06
Los Angele	2015 Annual	LDT1	0	1.23E-04	0.004819655	51.40863	0	4.61E-05	9.94E-04	8.94E-05	5.39E-06	9.87E-05	5.00E-06	3.91E-05	9.80E-06
Los Angele	2015 Annual	LDT1	0	0	6.56E-06	0	0.061875109	1.09E-05	1.00E-04	3.58E-04	5.94E-06	9.87E-05	5.47E-06	3.91E-05	6.68E-06
Los Angele	2015 Annual	T6 instate heavy	3.08E-06	0	3.10E-04	0	2.919741761	4.19E-04	1.80E-03	1.03E-02	1.20E-04	3.14E-04	1.11E-04	1.30E-04	2.47E-05
Los Angele	2015 Annual	T6 instate heavy	3.65E-06	0	3.49E-04	0	3.288109432	3.96E-04	1.71E-03	9.39E-03	1.14E-04	3.14E-04	1.05E-04	1.30E-04	2.47E-05
Los Angele	2015 Annual	T6 instate heavy	2.07E-06	0	2.35E-04	0	2.212396963	3.71E-04	1.59E-03	8.09E-03	1.07E-04	3.14E-04	9.85E-05	1.30E-04	2.47E-05
Los Angele	2015 Annual	T6 instate heavy	8.52E-06	0	6.04E-04	0	5.69941819	2.31E-04	1.04E-03	3.18E-03	1.00E-04	3.14E-04	9.20E-05	1.30E-04	2.40E-05
Los Angele	2015 Annual	T6 instate heavy	3.10E-06	0	3.76E-04	0	3.547768637	2.13E-04	9.32E-04	2.65E-03	9.21E-05	3.14E-04	8.48E-05	1.30E-04	2.39E-05
Los Angele	2015 Annual	T6 instate heavy	3.42E-06	0	4.30E-04	0	4.052636847	1.99E-04	8.71E-04	2.10E-03	8.41E-05	3.14E-04	7.74E-05	1.30E-04	2.39E-05
Los Angele	2015 Annual	T6 instate heavy	3.77E-06	0	4.81E-04	0	4.537449065	1.69E-04	7.43E-04	1.72E-03	6.75E-05	3.14E-04	6.21E-05	1.30E-04	2.38E-05
Los Angele	2015 Annual	T6 instate heavy	4.42E-06	0	5.62E-04	0	5.29863158	1.59E-04	7.03E-04	1.54E-03	6.18E-05	3.14E-04	5.69E-05	1.30E-04	2.38E-05
Los Angele	2015 Annual	T6 instate heavy	4.19E-06	0	5.32E-04	0	5.021091184	1.49E-04	6.63E-04	1.37E-03	5.62E-05	3.14E-04	5.17E-05	1.30E-04	2.38E-05
Los Angele	2015 Annual	T6 instate heavy	1.08E-06	0	5.75E-05	0	0.54269843	1.47E-04	7.14E-04	1.33E-03	5.08E-05	3.14E-04	4.68E-05	1.30E-04	2.41E-05
Los Angele	2015 Annual	LDA/LDT1	0	0.012332796	0.375373704	3993.21733	9.446841243	8.85E-05	1.39E-03	1.20E-04	2.59E-06	9.87E-05	2.40E-06	3.91E-05	8.59E-06
Los Angele	2015 Annual	T6 instate heavy	3.73121E-05	0	0.003934907	0	37.11994209	2.32E-04	1.02E-03	3.68E-03	8.44E-05	3.14E-04	7.77E-05	1.30E-04	2.41E-05

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Area	CalYr	Season	Veh	SOX_IDLEX (Tons/day)	SOX_STREX (Tons/day)	SOX_TOTEX (Tons/day)	FUEL_GAS (1000 Gallons)	FUEL_DSL (1000 Gallons)	exhaust ROG lb/mile	exhaust CO lb/mile	exhaust NOx lb/mile	exhaust PM10 lb/mile	tire wear a PM10 lb/mile	exhaust PM2.5 lb/mile	tire wear a PM2.5 lb/mile	SOx lb/mile
Los Angele	2016 Annual	LDA		0	0.001157574	0.02756823	294.0552	0	1.86E-04	2.15E-03	1.49E-04	7.18E-07	9.87E-05	6.66E-07	3.91E-05	8.55E-06
Los Angele	2016 Annual	LDA		0	0	0	0	0	0	0	0	0	0	0	0	0
Los Angele	2016 Annual	LDA		0	0.00117387	0.02879209	307.1094	0	1.60E-04	1.91E-03	1.43E-04	7.40E-07	9.87E-05	6.87E-07	3.91E-05	8.54E-06
Los Angele	2016 Annual	LDA		0	0	2.30E-06	0	0.021662133	1.59E-05	1.50E-04	4.90E-04	9.71E-06	9.87E-05	8.93E-06	3.91E-05	6.68E-06
Los Angele	2016 Annual	LDA		0	0.001007916	0.025529328	272.3074	0	1.39E-04	1.84E-03	1.47E-04	1.01E-06	9.87E-05	9.37E-07	3.91E-05	8.54E-06
Los Angele	2016 Annual	LDA		0	0	8.16E-05	0	0.7690237	1.53E-05	1.43E-04	4.71E-04	9.34E-06	9.87E-05	8.59E-06	3.91E-05	6.68E-06
Los Angele	2016 Annual	LDA		0	0.00126298	0.033199495	354.1208	0	1.15E-04	1.72E-03	1.46E-04	1.04E-06	9.87E-05	9.66E-07	3.91E-05	8.53E-06
Los Angele	2016 Annual	LDA		0	0	1.49E-04	0	1.408155	1.46E-05	1.37E-04	4.51E-04	8.95E-06	9.87E-05	8.23E-06	3.91E-05	6.68E-06
Los Angele	2016 Annual	LDA		0	0.00125457	0.034323145	366.1063	0	9.98E-05	1.59E-03	1.36E-04	1.62E-06	9.87E-05	1.50E-06	3.91E-05	8.52E-06
Los Angele	2016 Annual	LDA		0	0	1.41E-04	0	1.326737	1.38E-05	1.29E-04	4.30E-04	8.52E-06	9.87E-05	7.84E-06	3.91E-05	6.68E-06

Los Angele	2015 Annual	LDA	2.55E-04
Los Angele	2015 Annual	LDA	3.00E-04
Los Angele	2015 Annual	LDA	2.48E-04
Los Angele	2015 Annual	LDA	2.93E-04
Los Angele	2015 Annual	LDA	0.00E+00
Los Angele	2015 Annual	LDA	2.80E-04
Los Angele	2015 Annual	LDA	0.00E+00
Los Angele	2015 Annual	LDT1	4.82E-04
Los Angele	2015 Annual	LDT1	
Los Angele	2015 Annual	LDT1	4.81E-04
Los Angele	2015 Annual	LDT1	
Los Angele	2015 Annual	LDT1	4.82E-04
Los Angele	2015 Annual	LDT1	
Los Angele	2015 Annual	LDT1	4.65E-04
Los Angele	2015 Annual	LDT1	3.29E-04
Los Angele	2015 Annual	LDT1	4.12E-04
Los Angele	2015 Annual	LDT1	2.92E-04
Los Angele	2015 Annual	LDT1	3.59E-04
Los Angele	2015 Annual	LDT1	2.55E-04
Los Angele	2015 Annual	LDT1	3.49E-04
Los Angele	2015 Annual	LDT1	2.48E-04
Los Angele	2015 Annual	LDT1	3.41E-04
Los Angele	2015 Annual	LDT1	2.43E-04
Los Angele	2015 Annual	LDT1	3.26E-04
Los Angele	2015 Annual	LDT1	2.33E-04
Los Angele	2015 Annual	T6 instate heavy	1.26E-03
Los Angele	2015 Annual	T6 instate heavy	1.26E-03
Los Angele	2015 Annual	T6 instate heavy	1.26E-03
Los Angele	2015 Annual	T6 instate heavy	1.23E-03
Los Angele	2015 Annual	T6 instate heavy	1.22E-03
Los Angele	2015 Annual	T6 instate heavy	1.22E-03
Los Angele	2015 Annual	T6 instate heavy	1.22E-03
Los Angele	2015 Annual	T6 instate heavy	1.22E-03
Los Angele	2015 Annual	T6 instate heavy	1.22E-03
Los Angele	2015 Annual	T6 instate heavy	1.22E-03
Los Angele	2015 Annual	T6 instate heavy	1.23E-03
Los Angele	2015 Annual	LDA/LDT1	3.47E-04
Los Angele	2015 Annual	T6 instate heavy	1.23E-03

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Area	CalYr	Season	Veh	exhaust CO2 ton/mile
Los Angele	2016 Annual	LDA		4.12E-04
Los Angele	2016 Annual	LDA		
Los Angele	2016 Annual	LDA		4.11E-04
Los Angele	2016 Annual	LDA		3.38E-04
Los Angele	2016 Annual	LDA		4.11E-04
Los Angele	2016 Annual	LDA		3.38E-04
Los Angele	2016 Annual	LDA		3.97E-04
Los Angele	2016 Annual	LDA		3.26E-04
Los Angele	2016 Annual	LDA		3.51E-04
Los Angele	2016 Annual	LDA		2.89E-04

Los Angele	2016 Annual	LDA	GAS	2012 AllSpeeds	239661.4	8715872.409	1555247	0.087722755	0	0.071873114	0.159595869
Los Angele	2016 Annual	LDA	DSL	2012 AllSpeeds	1117.107	40626.38141	7249.297	2.64E-04	0	0	2.64E-04
Los Angele	2016 Annual	LDA	GAS	2013 AllSpeeds	233787.6	9012332.901	1519468	0.084575164	0	0.065871418	0.150446582
Los Angele	2016 Annual	LDA	DSL	2013 AllSpeeds	1037.128	39980.56789	6740.658	2.43E-04	0	0	2.43E-04
Los Angele	2016 Annual	LDA	GAS	2014 AllSpeeds	235783.7	9753224.262	1537156	0.086686972	0	0.062768623	0.149455595
Los Angele	2016 Annual	LDA	DSL	2014 AllSpeeds	915.3193	37862.39041	5967.285	2.13E-04	0	0	2.13E-04
Los Angele	2016 Annual	LDA	GAS	2015 AllSpeeds	242927.2	1.10E+07	1588585	0.091824746	0	0.060274441	0.152099187
Los Angele	2016 Annual	LDA	DSL	2015 AllSpeeds	863.75	39157.23863	5648.36	2.02E-04	0	0	2.02E-04
Los Angele	2016 Annual	LDA	GAS	2016 AllSpeeds	241941.7	1.26E+07	1586979	0.095987899	0	0.054144487	0.150132386
Los Angele	2016 Annual	LDA	DSL	2016 AllSpeeds	763.4277	39791.04449	5007.584	1.84E-04	0	0	1.84E-04
Los Angele	2016 Annual	LDT1	GAS	2007 AllSpeeds	10524.14	349945.9214	66821.63	0.004642148	0	0.004144926	0.008787074
Los Angele	2016 Annual	LDT1	DSL	2007 AllSpeeds	0	0	0	0	0	0	0
Los Angele	2016 Annual	LDT1	GAS	2008 AllSpeeds	21421.01	729013.6552	136866.6	0.008838374	0	0.007457464	0.016295838
Los Angele	2016 Annual	LDT1	DSL	2008 AllSpeeds	0	0	0	0	0	0	0
Los Angele	2016 Annual	LDT1	GAS	2009 AllSpeeds	18914.76	660243.278	121420.6	0.007957733	0	0.006536417	0.01449415
Los Angele	2016 Annual	LDT1	DSL	2009 AllSpeeds	0	0	0	0	0	0	0
Los Angele	2016 Annual	LDT1	GAS	2010 AllSpeeds	20465.38	734539.5461	131783.9	0.008763521	0	0.006973002	0.015736523
Los Angele	2016 Annual	LDT1	DSL	2010 AllSpeeds	33.51234	1202.822234	215.7979	1.05E-05	0	0	1.05E-05
Los Angele	2016 Annual	LDT1	GAS	2011 AllSpeeds	19197.34	710938.3507	124194.4	0.008017306	0	0.006259464	0.01427677
Los Angele	2016 Annual	LDT1	DSL	2011 AllSpeeds	45.92608	1700.793752	297.1121	1.40E-05	0	0	1.40E-05
Los Angele	2016 Annual	LDT1	GAS	2012 AllSpeeds	18393.22	705916.0424	119360.1	0.007102953	0	0.005516677	0.012619629
Los Angele	2016 Annual	LDT1	DSL	2012 AllSpeeds	33.45337	1283.915899	217.0907	9.95E-06	0	0	9.95E-06
Los Angele	2016 Annual	LDT1	GAS	2013 AllSpeeds	18589.28	744086.3061	120818.2	0.006966185	0	0.005227463	0.012193648
Los Angele	2016 Annual	LDT1	DSL	2013 AllSpeeds	42.63757	1706.692013	277.1165	1.23E-05	0	0	1.23E-05
Los Angele	2016 Annual	LDT1	GAS	2014 AllSpeeds	18619.18	784994.1321	121384.9	0.006952311	0	0.004940252	0.011892563
Los Angele	2016 Annual	LDT1	DSL	2014 AllSpeeds	39.16486	1651.217742	255.3293	1.10E-05	0	0	1.10E-05
Los Angele	2016 Annual	LDT1	GAS	2015 AllSpeeds	19563.61	883565.3895	127933.2	0.00733146	0	0.004830416	0.012161876
Los Angele	2016 Annual	LDT1	DSL	2015 AllSpeeds	39.06543	1764.349126	255.4624	1.08E-05	0	0	1.08E-05
Los Angele	2016 Annual	LDT1	GAS	2016 AllSpeeds	19305.11	970763.7018	126628.8	0.007346638	0	0.004294549	0.011641186
Los Angele	2016 Annual	LDT1	DSL	2016 AllSpeeds	47.77551	2402.420441	313.376	1.31E-05	0	0	1.31E-05
Los Angele	2016 Annual	T6 instate heavy	DSL	2007 AllSpeeds	552.081829	33117.40724	0	0.00716751	1.28E-04	0	0.007295253
Los Angele	2016 Annual	T6 instate heavy	DSL	2008 AllSpeeds	410.3058631	23296.14114	0	0.004791124	9.49E-05	0	0.004886063
Los Angele	2016 Annual	T6 instate heavy	DSL	2009 AllSpeeds	224.4781788	15220.92365	0	0.002956131	5.19E-05	0	0.003008072
Los Angele	2016 Annual	T6 instate heavy	DSL	2010 AllSpeeds	1160.410218	50249.74505	0	0.005875964	2.69E-04	0	0.006144464
Los Angele	2016 Annual	T6 instate heavy	DSL	2011 AllSpeeds	629.2578221	38484.10054	0	0.004253537	1.46E-04	0	0.004399138
Los Angele	2016 Annual	T6 instate heavy	DSL	2012 AllSpeeds	433.9333833	34570.30573	0	0.003586942	1.00E-04	0	0.003687347
Los Angele	2016 Annual	T6 instate heavy	DSL	2013 AllSpeeds	467.0331393	38539.68982	0	0.003325316	1.08E-04	0	0.00343338
Los Angele	2016 Annual	T6 instate heavy	DSL	2014 AllSpeeds	527.7706968	44369.12265	0	0.003616008	1.22E-04	0	0.003738126
Los Angele	2016 Annual	T6 instate heavy	DSL	2015 AllSpeeds	608.4851005	50935.35233	0	0.003902867	1.41E-04	0	0.004043661
Los Angele	2016 Annual	T6 instate heavy	DSL	2016 AllSpeeds	557.8905228	46700.82007	0	0.003351745	1.29E-04	0	0.003480832
Los Angele	2016 Annual	T6 instate heavy	DSL	2017 AllSpeeds	145.7565601	5084.476338	0	3.40E-04	3.37E-05	0	3.74E-04
Los Angele	2016 Annual	LDA/LDT1	GAS&DSL >2007	AllSpeeds	2482091.267	93707773.37	16060241.4	0.941140476	0	0.751292757	1.692433233
Los Angele	2016 Annual	T6 instate heavy	DSL >2007	AllSpeeds	5717.403314	380568.0845	0	0.043167384	0.001322917	0	0.044490301

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Area	CalYr	Season	Veh	Fuel	MdYr	Speed (Miles/hr)	Pop (Vehicles)	VMT (Miles/day)	Trips (Trips/day)	ROG_RUNEX (Tons/day)	ROG_IDLEX (Tons/day)	ROG_STREX (Tons/day)	ROG_TOTEX (Tons/day)
Los Angele	2017 Annual	LDA	GAS	2007 AllSpeeds			204106.2	5847381.018	1287781	0.077701529	0	0.080091298	0.157792827
Los Angele	2017 Annual	LDA	DSL	2007 AllSpeeds			0	0	0	0	0	0	0
Los Angele	2017 Annual	LDA	GAS	2008 AllSpeeds			209260	6190440.703	1328668	0.075709501	0	0.073131531	0.148841032
Los Angele	2017 Annual	LDA	DSL	2008 AllSpeeds			21.96365	649.7464848	139.4552	5.38E-06	0	0	5.38E-06

Los Angele	2016 Annual	LDA	0.009693403	0.020479362	0.1755012	0.008311198	0.373581032	0.163263167	0	0.076738328	0.240001495
Los Angele	2016 Annual	LDA	0	0	0	0	2.64E-04	3.01E-04	0	0	3.01E-04
Los Angele	2016 Annual	LDA	0.0083508	0.014925874	0.1605548	0.006609308	0.340887363	0.157405083	0	0.070330374	0.227735457
Los Angele	2016 Annual	LDA	0	0	0	0	2.43E-04	2.77E-04	0	0	2.77E-04
Los Angele	2016 Annual	LDA	0.007667482	0.011600413	0.1533053	0.005642721	0.327671511	0.16133542	0	0.06701754	0.22835296
Los Angele	2016 Annual	LDA	0	0	0	0	2.13E-04	2.43E-04	0	0	2.43E-04
Los Angele	2016 Annual	LDA	0.00727339	0.009341762	0.1505166	0.005018654	0.324249592	0.170897469	0	0.064354509	0.235251978
Los Angele	2016 Annual	LDA	0	0	0	0	2.02E-04	2.29E-04	0	0	2.29E-04
Los Angele	2016 Annual	LDA	0.006909033	0.007756038	0.1438329	0.004544597	0.313174954	0.178645635	0	0.057809617	0.236455252
Los Angele	2016 Annual	LDA	0	0	0	0	1.84E-04	2.09E-04	0	0	2.09E-04
Los Angele	2016 Annual	LDT1	0.001608221	0.004503419	0.018154994	0.00185029	0.034903998	0.008639626	0	0.004425503	0.013065129
Los Angele	2016 Annual	LDT1	0	0	0	0	0	0	0	0	0
Los Angele	2016 Annual	LDT1	0.002732649	0.007361576	0.031705454	0.003045475	0.061140992	0.016449333	0	0.007962273	0.024411606
Los Angele	2016 Annual	LDT1	0	0	0	0	0	0	0	0	0
Los Angele	2016 Annual	LDT1	0.001950759	0.004937975	0.022590308	0.002084924	0.046058115	0.014810349	0	0.006978877	0.021789227
Los Angele	2016 Annual	LDT1	0	0	0	0	0	0	0	0	0
Los Angele	2016 Annual	LDT1	0.001637699	0.003733301	0.017312195	0.001664205	0.040083923	0.016310022	0	0.007445016	0.023755037
Los Angele	2016 Annual	LDT1	0	0	0	0	1.05E-05	1.19E-05	0	0	1.19E-05
Los Angele	2016 Annual	LDT1	0.001226805	0.002470417	0.014089006	0.001150008	0.033213006	0.014921222	0	0.006683178	0.0216044
Los Angele	2016 Annual	LDT1	0	0	0	0	1.40E-05	1.60E-05	0	0	1.60E-05
Los Angele	2016 Annual	LDT1	9.67E-04	0.001676932	0.01199986	8.29E-04	0.028091998	0.013219494	0	0.005890109	0.019109603
Los Angele	2016 Annual	LDT1	0	0	0	0	9.95E-06	1.13E-05	0	0	1.13E-05
Los Angele	2016 Annual	LDT1	8.63E-04	0.001293386	0.010782512	6.83E-04	0.025815161	0.012964951	0	0.005581318	0.01854627
Los Angele	2016 Annual	LDT1	0	0	0	0	1.23E-05	1.41E-05	0	0	1.41E-05
Los Angele	2016 Annual	LDT1	7.87E-04	0.001023283	0.009817678	5.79E-04	0.024099235	0.012939131	0	0.005274666	0.018213797
Los Angele	2016 Annual	LDT1	0	0	0	0	1.10E-05	1.26E-05	0	0	1.26E-05
Los Angele	2016 Annual	LDT1	7.61E-04	8.64E-04	0.009632041	5.25E-04	0.023944192	0.013644775	0	0.005157394	0.018802169
Los Angele	2016 Annual	LDT1	0	0	0	0	1.08E-05	1.22E-05	0	0	1.22E-05
Los Angele	2016 Annual	LDT1	7.16E-04	7.30E-04	0.00882802	4.71E-04	0.022386255	0.013673023	0	0.004585255	0.018258277
Los Angele	2016 Annual	LDT1	0	0	0	0	1.31E-05	1.50E-05	0	0	1.50E-05
Los Angele	2016 Annual	T6 instate heavy	0	0	0	0	0.007295253	0.008159665	1.45E-04	0	0.00830509
Los Angele	2016 Annual	T6 instate heavy	0	0	0	0	0.004886063	0.00545433	1.08E-04	0	0.005562411
Los Angele	2016 Annual	T6 instate heavy	0	0	0	0	0.003008072	0.003365331	5.91E-05	0	0.003424461
Los Angele	2016 Annual	T6 instate heavy	0	0	0	0	0.006144464	0.006689337	3.06E-04	0	0.006995005
Los Angele	2016 Annual	T6 instate heavy	0	0	0	0	0.004399138	0.004842328	1.66E-04	0	0.005008083
Los Angele	2016 Annual	T6 instate heavy	0	0	0	0	0.003687347	0.00408346	1.14E-04	0	0.004197764
Los Angele	2016 Annual	T6 instate heavy	0	0	0	0	0.00343338	0.003785619	1.23E-04	0	0.003908641
Los Angele	2016 Annual	T6 instate heavy	0	0	0	0	0.003738126	0.00411655	1.39E-04	0	0.004255572
Los Angele	2016 Annual	T6 instate heavy	0	0	0	0	0.004043661	0.004443117	1.60E-04	0	0.004603401
Los Angele	2016 Annual	T6 instate heavy	0	0	0	0	0.003480832	0.003815706	1.47E-04	0	0.003962662
Los Angele	2016 Annual	T6 instate heavy	0	0	0	0	3.74E-04	3.87E-04	3.84E-05	0	4.26E-04
Los Angele	2016 Annual	LDA/LDT1	0.141208628	0.376232654	2.077142367	0.137941934	4.424958816	1.750138921	0	0.802149031	2.552287952
Los Angele	2016 Annual	T6 instate heavy	0	0	0	0	0.044490301	0.049142781	0.001506041	0	0.050648821

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Area	CalYr	Season	Veh	ROG_DIURN (Tons/day)	ROG_HTSK (Tons/day)	ROG_RUNLS (Tons/day)	ROG_RESTL (Tons/day)	ROG_TOTAL (Tons/day)	TOG_RUNEX (Tons/day)	TOG_IDLEX (Tons/day)	TOG_STREX (Tons/day)	TOG_TOTEX (Tons/day)
Los Angele	2017 Annual	LDA		0.027234955	0.099938154	0.2830516	0.032002781	0.600020317	0.144612378	0	0.085512802	0.23012518
Los Angele	2017 Annual	LDA		0	0	0	0	0	0	0	0	0
Los Angele	2017 Annual	LDA		0.023762146	0.084588826	0.2684837	0.027249999	0.552925703	0.140904957	0	0.078081921	0.218986878
Los Angele	2017 Annual	LDA		0	0	0	0	5.38E-06	6.12E-06	0	0	6.12E-06

Los Angele	2016 Annual	LDA	0.009693403	0.020479362	0.1755012	0.008311198	0.453986658	4.967443893	0	1.129396	6.096839893
Los Angele	2016 Annual	LDA	0	0	0	0	3.01E-04	0.002469053	0	0	0.002469053
Los Angele	2016 Annual	LDA	0.0083508	0.014925874	0.1605548	0.006609308	0.418176239	4.711456562	0	0.9911751	5.702631662
Los Angele	2016 Annual	LDA	0	0	0	0	2.77E-04	0.002267803	0	0	0.002267803
Los Angele	2016 Annual	LDA	0.007667482	0.011600413	0.1533053	0.005642721	0.406568876	4.763564188	0	0.9239005	5.687464688
Los Angele	2016 Annual	LDA	0	0	0	0	2.43E-04	0.001985033	0	0	0.001985033
Los Angele	2016 Annual	LDA	0.007273339	0.009341762	0.1505166	0.005018654	0.407402383	5.045752042	0	0.8875567	5.933308742
Los Angele	2016 Annual	LDA	0	0	0	0	2.29E-04	0.00187245	0	0	0.00187245
Los Angele	2016 Annual	LDA	0.006909033	0.007756038	0.1438329	0.004544597	0.39949782	5.431354808	0	0.8315893	6.262944108
Los Angele	2016 Annual	LDA	0	0	0	0	2.09E-04	0.001700411	0	0	0.001700411
Los Angele	2016 Annual	LDT1	0.001608221	0.004503419	0.018154994	0.00185029	0.039182053	0.295295804	0	0.080225706	0.37552151
Los Angele	2016 Annual	LDT1	0	0	0	0	0	0	0	0	0
Los Angele	2016 Annual	LDT1	0.002732649	0.007361576	0.031705454	0.003045475	0.069256759	0.551588878	0	0.1427214	0.694310278
Los Angele	2016 Annual	LDT1	0	0	0	0	0	0	0	0	0
Los Angele	2016 Annual	LDT1	0.001950759	0.004937975	0.022590308	0.002084924	0.053353192	0.480337634	0	0.1198201	0.600157734
Los Angele	2016 Annual	LDT1	0	0	0	0	0	0	0	0	0
Los Angele	2016 Annual	LDT1	0.001637699	0.003733301	0.017312195	0.001664205	0.048102437	0.506441001	0	0.1208611	0.627302101
Los Angele	2016 Annual	LDT1	0	0	0	0	1.19E-05	9.76E-05	0	0	9.76E-05
Los Angele	2016 Annual	LDT1	0.001226805	0.002470417	0.014089006	0.001150008	0.040540635	0.457382052	0	0.1048852	0.562267252
Los Angele	2016 Annual	LDT1	0	0	0	0	1.60E-05	1.30E-04	0	0	1.30E-04
Los Angele	2016 Annual	LDT1	9.67E-04	0.001676932	0.01199986	8.29E-04	0.034581972	0.402044388	0	0.086735174	0.488779562
Los Angele	2016 Annual	LDT1	0	0	0	0	1.13E-05	9.23E-05	0	0	9.23E-05
Los Angele	2016 Annual	LDT1	8.63E-04	0.001293386	0.010782512	6.83E-04	0.032167783	0.387728729	0	0.078618228	0.466346957
Los Angele	2016 Annual	LDT1	0	0	0	0	1.41E-05	1.14E-04	0	0	1.14E-04
Los Angele	2016 Annual	LDT1	7.87E-04	0.001023283	0.009817678	5.79E-04	0.03042047	0.381724113	0	0.072690688	0.454414801
Los Angele	2016 Annual	LDT1	0	0	0	0	1.26E-05	1.02E-04	0	0	1.02E-04
Los Angele	2016 Annual	LDT1	7.61E-04	8.64E-04	0.009632041	5.25E-04	0.030584485	0.402863911	0	0.071196839	0.47406075
Los Angele	2016 Annual	LDT1	0	0	0	0	1.22E-05	9.89E-05	0	0	9.89E-05
Los Angele	2016 Annual	LDT1	7.16E-04	7.30E-04	0.00882802	4.71E-04	0.029003346	0.416451318	0	0.066178575	0.482629893
Los Angele	2016 Annual	LDT1	0	0	0	0	1.50E-05	1.20E-04	0	0	1.20E-04
Los Angele	2016 Annual	T6 instate heavy	0	0	0	0	0.00830509	0.029826564	0.00151057	0	0.031337134
Los Angele	2016 Annual	T6 instate heavy	0	0	0	0	0.005562411	0.019937576	0.001122652	0	0.021060228
Los Angele	2016 Annual	T6 instate heavy	0	0	0	0	0.003424461	0.012301516	6.14E-04	0	0.012915718
Los Angele	2016 Annual	T6 instate heavy	0	0	0	0	0.006995005	0.024451979	0.003175038	0	0.027627017
Los Angele	2016 Annual	T6 instate heavy	0	0	0	0	0.005008083	0.017700484	0.001721734	0	0.019422218
Los Angele	2016 Annual	T6 instate heavy	0	0	0	0	0.004197764	0.014926544	0.0011873	0	0.016113844
Los Angele	2016 Annual	T6 instate heavy	0	0	0	0	0.003908641	0.013837823	0.001277866	0	0.015115689
Los Angele	2016 Annual	T6 instate heavy	0	0	0	0	0.004255572	0.015047499	0.001444052	0	0.01649155
Los Angele	2016 Annual	T6 instate heavy	0	0	0	0	0.004603401	0.016241222	0.001664897	0	0.017906119
Los Angele	2016 Annual	T6 instate heavy	0	0	0	0	0.003962662	0.013947805	0.001526464	0	0.015474269
Los Angele	2016 Annual	T6 instate heavy	0	0	0	0	4.26E-04	0.001415856	3.99E-04	0	0.001814665
Los Angele	2016 Annual	LDA/LDT1	0.141208628	0.376232654	2.077142367	0.137941934	5.284813535	54.34198066	0	12.57524761	66.91722827
Los Angele	2016 Annual	T6 instate heavy	0	0	0	0	0.050648821	0.179634866	0.015643585	0	0.195278451

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Area	CalYr	Season	Veh	TOG_DIURN (Tons/day)	TOG_HTSK (Tons/day)	TOG_RUNLS (Tons/day)	TOG_RESTL (Tons/day)	TOG_TOTAL (Tons/day)	CO_RUNEX (Tons/day)	CO_IDLEX (Tons/day)	CO_STREX (Tons/day)	CO_TOTEX (Tons/day)
Los Angele	2017 Annual	LDA		0.027234955	0.099938154	0.2830516	0.032002781	0.67235267	4.923208835	0	1.540066	6.463274835
Los Angele	2017 Annual	LDA		0	0	0	0	0	0	0	0	0
Los Angele	2017 Annual	LDA		0.023762146	0.084588826	0.2684837	0.027249999	0.623071549	4.716115375	0	1.394909	6.111024375
Los Angele	2017 Annual	LDA		0	0	0	0	6.12E-06	5.05E-05	0	0	5.05E-05

Los Angele	2016 Annual	LDA	0.482027424	0	0.074740723	0.556768147	3575.305226	0	127.3877	3702.692926	2577.276649
Los Angele	2016 Annual	LDA	0.008264724	0	0	0.008264724	14.21822489	0	0	14.21822489	10.2492785
Los Angele	2016 Annual	LDA	0.463017522	0	0.064817138	0.52783466	3697.90719	0	124.4517	3822.35889	2597.853759
Los Angele	2016 Annual	LDA	0.007654233	0	0	0.007654233	13.99220409	0	0	13.99220409	9.829803216
Los Angele	2016 Annual	LDA	0.468906936	0	0.058293983	0.527200919	4002.963199	0	125.8943	4128.857499	2750.355955
Los Angele	2016 Annual	LDA	0.006767762	0	0	0.006767762	13.25089449	0	0	13.25089449	9.104424585
Los Angele	2016 Annual	LDA	0.492833578	0	0.052598801	0.545432379	4521.001829	0	130.0965	4651.098329	2979.7697
Los Angele	2016 Annual	LDA	0.006465483	0	0	0.006465483	13.70406017	0	0	13.70406017	9.032277535
Los Angele	2016 Annual	LDA	0.520356711	0	0.044544641	0.564901352	5178.053241	0	129.9555	5308.008741	3282.911645
Los Angele	2016 Annual	LDA	0.005971701	0	0	0.005971701	13.92587427	0	0	13.92587427	8.829073918
Los Angele	2016 Annual	LDT1	0.022085607	0	0.003909153	0.025994759	166.7605828	0	6.369707	173.1302898	160.9239624
Los Angele	2016 Annual	LDT1	0	0	0	0	0	0	0	0	0
Los Angele	2016 Annual	LDT1	0.044242747	0	0.007565294	0.051808041	347.0899867	0	13.03503	360.1250167	334.9418372
Los Angele	2016 Annual	LDT1	0	0	0	0	0	0	0	0	0
Los Angele	2016 Annual	LDT1	0.040977855	0	0.006916946	0.047894801	314.9807596	0	11.58384	326.5645996	303.9564331
Los Angele	2016 Annual	LDT1	0	0	0	0	0	0	0	0	0
Los Angele	2016 Annual	LDT1	0.045948823	0	0.007587139	0.053535961	350.3150442	0	12.56472	362.8797642	326.222127
Los Angele	2016 Annual	LDT1	3.28E-04	0	0	3.28E-04	0.420957857	0	0	0.420957857	0.392006481
Los Angele	2016 Annual	LDT1	0.041483438	0	0.006494014	0.047977452	339.1261962	0	11.83986	350.9660562	280.1318031
Los Angele	2016 Annual	LDT1	4.40E-04	0	0	4.40E-04	0.595235522	0	0	0.595235522	0.491688351
Los Angele	2016 Annual	LDT1	0.039031189	0	0.005738547	0.044769736	336.8076336	0	11.37815	348.1857836	242.7894667
Los Angele	2016 Annual	LDT1	3.14E-04	0	0	3.14E-04	0.449338649	0	0	0.449338649	0.323908012
Los Angele	2016 Annual	LDT1	0.038127164	0	0.005135579	0.043262743	355.0829123	0	11.51572	366.5986323	249.4528476
Los Angele	2016 Annual	LDT1	3.92E-04	0	0	3.92E-04	0.597299661	0	0	0.597299661	0.419614958
Los Angele	2016 Annual	LDT1	0.037590185	0	0.004575094	0.042165279	374.7014048	0	11.56923	386.2706348	257.4498412
Los Angele	2016 Annual	LDT1	3.53E-04	0	0	3.53E-04	0.5778851	0	0	0.5778851	0.397053294
Los Angele	2016 Annual	LDT1	0.039346729	0	0.004201248	0.043547977	421.8182652	0	12.19155	434.0098152	278.0183095
Los Angele	2016 Annual	LDT1	3.48E-04	0	0	3.48E-04	0.617478218	0	0	0.617478218	0.406976806
Los Angele	2016 Annual	LDT1	0.039880531	0	0.003526318	0.043406849	463.5617635	0	12.06658	475.6283435	293.9004758
Los Angele	2016 Annual	LDT1	4.30E-04	0	0	4.30E-04	0.840787292	0	0	0.840787292	0.533063347
Los Angele	2016 Annual	T6 instate heavy	0.17136731	0.002282162	0	0.173649471	42.49579368	0.453861266	0	42.94965494	41.0084409
Los Angele	2016 Annual	T6 instate heavy	0.110214772	0.001696097	0	0.111910869	29.89328242	0.337308581	0	30.230591	28.84701754
Los Angele	2016 Annual	T6 instate heavy	0.062300742	9.28E-04	0	0.063228676	19.5312763	0.184541394	0	19.71581769	18.84768163
Los Angele	2016 Annual	T6 instate heavy	0.080509274	0.004796832	0	0.085306105	62.32534749	0.953962298	0	63.27930979	60.14396033
Los Angele	2016 Annual	T6 instate heavy	0.05309269	0.002601187	0	0.055693877	47.73228076	0.517306922	0	48.24958768	46.06165093
Los Angele	2016 Annual	T6 instate heavy	0.038342688	0.001793767	0	0.040136454	42.8779552	0.356732543	0	43.23468774	41.37722677
Los Angele	2016 Annual	T6 instate heavy	0.034595974	0.001930593	0	0.036526566	47.69121446	0.38394354	0	48.075158	46.02202196
Los Angele	2016 Annual	T6 instate heavy	0.035991485	0.002181666	0	0.03817315	54.90488775	0.433875313	0	55.33876307	52.98321668
Los Angele	2016 Annual	T6 instate heavy	0.036829931	0.002515318	0	0.039345249	63.03031558	0.500229863	0	63.53054544	60.82425454
Los Angele	2016 Annual	T6 instate heavy	0.029670928	0.002306173	0	0.031977101	57.79026338	0.458636538	0	58.24889992	55.76760416
Los Angele	2016 Annual	T6 instate heavy	0.002784306	6.03E-04	0	0.003386826	6.291821564	0.119825094	0	6.411646658	6.071607809
Los Angele	2016 Annual	LDA/LDT1	5.006813067	0	0.739735393	5.746548459	38897.88591	0	1326.659047	40224.54495	30272.40269
Los Angele	2016 Annual	T6 instate heavy	0.655700098	0.023634246	0	0.679334344	474.5644386	4.700223352	0	479.2646619	457.9546832

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Area	CalYr	Season	Veh	NOX_RUNEX (Tons/day)	NOX_IDLEX (Tons/day)	NOX_STREX (Tons/day)	NOX_TOTEX (Tons/day)	CO2_RUNEX (Tons/day)	CO2_IDLEX (Tons/day)	CO2_STREX (Tons/day)	CO2_TOTEX (Tons/day)	CO2_RUNEX(Pavl) (Tons/day)
Los Angele	2017 Annual	LDA		0.366932438	0	0.074794292	0.44172673	2391.407957	0	105.2929	2496.700857	2271.837559
Los Angele	2017 Annual	LDA		0	0	0	0	0	0	0	0	0
Los Angele	2017 Annual	LDA		0.375524186	0	0.073458754	0.44898294	2532.019942	0	108.6493	2640.669242	2405.418945
Los Angele	2017 Annual	LDA		1.65E-04	0	0	1.65E-04	0.227395086	0	0	0.227395086	0.216025331

Los Angele	2016 Annual	LDA	0	91.82806048	2669.104709	0.007369705	0	0.002041464	0.009411169	0.07686083	0.3530795
Los Angele	2016 Annual	LDA	0	0	10.2492785	1.64E-04	0	0	1.64E-04	3.58E-04	0.001645773
Los Angele	2016 Annual	LDA	0	87.42980828	2685.283567	0.011430067	0	0.003736519	0.015166586	0.079475179	0.3650892
Los Angele	2016 Annual	LDA	0	0	9.829803216	1.52E-04	0	0	1.52E-04	3.53E-04	0.001619611
Los Angele	2016 Annual	LDA	0	86.49945564	2836.85541	0.016492165	0	0.005347675	0.02183984	0.086008728	0.3951026
Los Angele	2016 Annual	LDA	0	0	9.104424585	1.34E-04	0	0	1.34E-04	3.34E-04	0.001533803
Los Angele	2016 Annual	LDA	0	85.74595267	3065.515653	0.023275838	0	0.007117037	0.030392875	0.09711656	0.4461292
Los Angele	2016 Annual	LDA	0	0	9.032277535	1.28E-04	0	0	1.28E-04	3.45E-04	0.001586258
Los Angele	2016 Annual	LDA	0	82.39243678	3365.304082	0.030647824	0	0.008295955	0.03894378	0.1112042	0.5108444
Los Angele	2016 Annual	LDA	0	0	8.829073918	1.19E-04	0	0	1.19E-04	3.51E-04	0.001611933
Los Angele	2016 Annual	LDT1	0	6.146767255	167.0707296	1.11E-04	0	1.32E-05	1.24E-04	0.003085995	0.01417629
Los Angele	2016 Annual	LDT1	0	0	0	0	0	0	0	0	0
Los Angele	2016 Annual	LDT1	0	12.57880395	347.5206411	2.31E-04	0	3.51E-05	2.66E-04	0.006428801	0.029532308
Los Angele	2016 Annual	LDT1	0	0	0	0	0	0	0	0	0
Los Angele	2016 Annual	LDT1	0	11.1784056	315.1348387	2.79E-04	0	4.93E-05	3.29E-04	0.00582235	0.026746424
Los Angele	2016 Annual	LDT1	0	0	0	0	0	0	0	0	0
Los Angele	2016 Annual	LDT1	0	11.70058138	337.9227084	3.10E-04	0	6.60E-05	3.76E-04	0.006477531	0.02975616
Los Angele	2016 Annual	LDT1	0	0	0.392006481	5.42E-06	0	0	5.42E-06	1.06E-05	4.87E-05
Los Angele	2016 Annual	LDT1	0	9.780197954	289.9120011	4.51E-04	0	1.16E-04	5.67E-04	0.006269402	0.028800072
Los Angele	2016 Annual	LDT1	0	0	0.491688351	7.28E-06	0	0	7.28E-06	1.50E-05	6.89E-05
Los Angele	2016 Annual	LDT1	0	8.201996318	250.9914631	5.97E-04	0	1.57E-04	7.53E-04	0.006225114	0.028596619
Los Angele	2016 Annual	LDT1	0	0	0.323908012	5.20E-06	0	0	5.20E-06	1.13E-05	5.20E-05
Los Angele	2016 Annual	LDT1	0	8.090023614	257.5428712	9.43E-04	0	2.97E-04	0.001240186	0.006561718	0.030142896
Los Angele	2016 Annual	LDT1	0	0	0.419614958	6.49E-06	0	0	6.49E-06	1.51E-05	6.91E-05
Los Angele	2016 Annual	LDT1	0	7.948986548	265.3988277	0.001326725	0	4.22E-04	0.001748806	0.006922463	0.031800073
Los Angele	2016 Annual	LDT1	0	0	0.397053294	5.85E-06	0	0	5.85E-06	1.46E-05	6.69E-05
Los Angele	2016 Annual	LDT1	0	8.035389647	286.0536991	0.001866379	0	5.73E-04	0.002439209	0.007791713	0.035793185
Los Angele	2016 Annual	LDT1	0	0	0.406976806	5.76E-06	0	0	5.76E-06	1.56E-05	7.15E-05
Los Angele	2016 Annual	LDT1	0	7.650272053	301.5507479	0.002358026	0	6.62E-04	0.003019616	0.008560671	0.039325584
Los Angele	2016 Annual	LDT1	0	0	0.533063347	7.14E-06	0	0	7.14E-06	2.12E-05	9.73E-05
Los Angele	2016 Annual	T6 instate heavy	0.437976121	0	41.44641702	0.00208702	5.36E-06	0	0.002092384	4.38E-04	0.004758152
Los Angele	2016 Annual	T6 instate heavy	0.325502781	0	29.17252032	0.001397818	3.99E-06	0	0.001401804	3.08E-04	0.003347079
Los Angele	2016 Annual	T6 instate heavy	0.178082445	0	19.02576407	8.64E-04	2.18E-06	0	8.67E-04	2.01E-04	0.00218687
Los Angele	2016 Annual	T6 instate heavy	0.920573618	0	61.06453394	0.002682563	1.13E-05	0	0.002693837	6.65E-04	0.007219645
Los Angele	2016 Annual	T6 instate heavy	0.49920118	0	46.56085211	0.001915209	6.11E-06	0	0.001921322	5.09E-04	0.005529213
Los Angele	2016 Annual	T6 instate heavy	0.344246904	0	41.72147367	0.001588295	4.22E-06	0	0.001592511	4.57E-04	0.004966898
Los Angele	2016 Annual	T6 instate heavy	0.370505516	0	46.39252747	0.00140414	4.54E-06	0	0.001408678	5.10E-04	0.0055372
Los Angele	2016 Annual	T6 instate heavy	0.418689677	0	53.40190636	0.001492742	5.13E-06	0	0.00149787	5.87E-04	0.006374745
Los Angele	2016 Annual	T6 instate heavy	0.482721818	0	61.30697635	0.001568884	5.91E-06	0	0.001574796	6.74E-04	0.00731815
Los Angele	2016 Annual	T6 instate heavy	0.442584259	0	56.21018842	0.00130629	5.42E-06	0	0.001311711	6.18E-04	0.006709752
Los Angele	2016 Annual	T6 instate heavy	0.115631215	0	6.187239025	1.28E-04	1.42E-06	0	1.29E-04	6.73E-05	7.31E-04
Los Angele	2016 Annual	LDA/LDT1	0	1058.500939	31330.90363	0.11402926	0	0.032217965	0.146247225	0.826361105	3.796096871
Los Angele	2016 Annual	T6 instate heavy	4.535715535	0	462.4903988	0.016435258	5.55483E-05	0	0.016490806	0.005034054	0.054678217

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Los Angeles COUNTY

South Coast AIR BASIN

South Coast AQMD

Area	CalYr	Season	Veh	CO2_IDLEX (Tons/day)	CO2_STREX(Pavk) (Tons/day)	CO2_TOTEX(Pavk) (Tons/day)	PM10_RUNEX (Tons/day)	PM10_IDLEX (Tons/day)	PM10_STREX (Tons/day)	PM10_TOTEX (Tons/day)	PM10_PMTW (Tons/day)	PM10_PMBW (Tons/day)
Los Angele	2017 Annual	LDA		0	100.028255	2371.865814	0.001850821	0	2.54E-04	0.002104944	0.051565081	0.2368771
Los Angele	2017 Annual	LDA		0	0	0	0	0	0	0	0	0
Los Angele	2017 Annual	LDA		0	103.216835	2508.63578	0.001959646	0	3.41E-04	0.002300538	0.054590344	0.2507744
Los Angele	2017 Annual	LDA		0	0	0.216025331	3.27E-06	0	0	3.27E-06	5.73E-06	2.63E-05



Los Angele	2016 Annual	LDA	0.439351499	0.00683787	0	0.001894142	0.008732012	0.019215208	0.1513198	0.17926702	0.035770454
Los Angele	2016 Annual	LDA	0.002167983	1.51E-04	0	0	1.51E-04	8.96E-05	7.05E-04	9.46E-04	1.36E-04
Los Angele	2016 Annual	LDA	0.459730965	0.010605217	0	0.003466873	0.014072089	0.019868795	0.1564668	0.190407684	0.036990061
Los Angele	2016 Annual	LDA	0.002124066	1.40E-04	0	0	1.40E-04	8.81E-05	6.94E-04	9.22E-04	1.34E-04
Los Angele	2016 Annual	LDA	0.502951168	0.015302007	0	0.004961759	0.020263766	0.021502182	0.1693297	0.211095648	0.040035985
Los Angele	2016 Annual	LDA	0.002002042	1.24E-04	0	0	1.24E-04	8.35E-05	6.57E-04	8.64E-04	1.27E-04
Los Angele	2016 Annual	LDA	0.573638635	0.021596138	0	0.006603436	0.028199574	0.02427914	0.1911982	0.243676914	0.045211624
Los Angele	2016 Annual	LDA	0.002059978	1.18E-04	0	0	1.18E-04	8.63E-05	6.80E-04	8.84E-04	1.31E-04
Los Angele	2016 Annual	LDA	0.66099238	0.028436125	0	0.007697277	0.036133402	0.027801055	0.2189333	0.282867757	0.051776428
Los Angele	2016 Annual	LDA	0.002081512	1.09E-04	0	0	1.09E-04	8.77E-05	6.91E-04	8.88E-04	1.33E-04
Los Angele	2016 Annual	LDT1	0.017386401	1.03E-04	0	1.23E-05	1.15E-04	7.71E-04	0.006075553	0.006962211	0.001669445
Los Angele	2016 Annual	LDT1	0	0	0	0	0	0	0	0	0
Los Angele	2016 Annual	LDT1	0.036227084	2.14E-04	0	3.26E-05	2.47E-04	0.0016072	0.012656703	0.014510684	0.003473694
Los Angele	2016 Annual	LDT1	0	0	0	0	0	0	0	0	0
Los Angele	2016 Annual	LDT1	0.032897318	2.59E-04	0	4.57E-05	3.05E-04	0.001455588	0.01146275	0.013223173	0.003152023
Los Angele	2016 Annual	LDT1	0	0	0	0	0	0	0	0	0
Los Angele	2016 Annual	LDT1	0.036610143	2.88E-04	0	6.12E-05	3.49E-04	0.001619383	0.01275264	0.014721308	0.003505174
Los Angele	2016 Annual	LDT1	6.48E-05	4.98E-06	0	0	4.98E-06	2.65E-06	2.09E-05	2.85E-05	4.02E-06
Los Angele	2016 Annual	LDT1	0.035636011	4.18E-04	0	1.07E-04	5.26E-04	0.001567351	0.012342888	0.014435892	0.003392681
Los Angele	2016 Annual	LDT1	9.12E-05	6.70E-06	0	0	6.70E-06	3.75E-06	2.95E-05	4.00E-05	5.68E-06
Los Angele	2016 Annual	LDT1	0.03557498	5.54E-04	0	1.45E-04	6.99E-04	0.001556279	0.012255695	0.014510863	0.00336862
Los Angele	2016 Annual	LDT1	6.85E-05	4.78E-06	0	0	4.78E-06	2.83E-06	2.23E-05	2.99E-05	4.29E-06
Los Angele	2016 Annual	LDT1	0.0379448	8.75E-04	0	2.76E-04	0.001150688	0.00164043	0.012918383	0.015709501	0.003550808
Los Angele	2016 Annual	LDT1	9.07E-05	5.97E-06	0	0	5.97E-06	3.76E-06	2.96E-05	3.94E-05	5.70E-06
Los Angele	2016 Annual	LDT1	0.040471342	0.001230982	0	3.92E-04	0.001622604	0.001730616	0.013628602	0.016981822	0.00374654
Los Angele	2016 Annual	LDT1	8.73E-05	5.38E-06	0	0	5.38E-06	3.64E-06	2.87E-05	3.77E-05	5.52E-06
Los Angele	2016 Annual	LDT1	0.046024107	0.001731691	0	5.31E-04	0.002263183	0.001947928	0.015339935	0.019551046	0.004217201
Los Angele	2016 Annual	LDT1	9.28E-05	5.30E-06	0	0	5.30E-06	3.89E-06	3.06E-05	3.98E-05	5.89E-06
Los Angele	2016 Annual	LDT1	0.05090587	0.002187859	0	6.14E-04	0.002801705	0.002140168	0.016853822	0.021795695	0.004634089
Los Angele	2016 Annual	LDT1	1.26E-04	6.57E-06	0	0	6.57E-06	5.30E-06	4.17E-05	5.36E-05	8.03E-06
Los Angele	2016 Annual	T6 instate heavy	0.007288605	0.001920059	4.93E-06	0	0.001924994	1.10E-04	0.002039208	0.004073719	4.05E-04
Los Angele	2016 Annual	T6 instate heavy	0.005057039	0.001285993	3.67E-06	0	0.00128966	7.70E-05	0.001434462	0.002801161	2.85E-04
Los Angele	2016 Annual	T6 instate heavy	0.003254855	7.95E-04	2.01E-06	0	7.97E-04	5.03E-05	9.37E-04	0.001784879	1.86E-04
Los Angele	2016 Annual	T6 instate heavy	0.010578172	0.002467958	1.04E-05	0	0.00247833	1.66E-04	0.003094134	0.005738636	5.95E-04
Los Angele	2016 Annual	T6 instate heavy	0.007959593	0.001761992	5.62E-06	0	0.001767616	1.27E-04	0.002369663	0.004264544	4.55E-04
Los Angele	2016 Annual	T6 instate heavy	0.007016695	0.001461231	3.88E-06	0	0.00146511	1.14E-04	0.00212867	0.003708102	4.09E-04
Los Angele	2016 Annual	T6 instate heavy	0.00745567	0.001291809	4.17E-06	0	0.001295984	1.27E-04	0.002373086	0.003796517	4.55E-04
Los Angele	2016 Annual	T6 instate heavy	0.008459518	0.001373323	4.72E-06	0	0.00137804	1.47E-04	0.002732034	0.0042568	5.24E-04
Los Angele	2016 Annual	T6 instate heavy	0.009566705	0.001443373	5.44E-06	0	0.001448812	1.68E-04	0.00313635	0.004753602	6.01E-04
Los Angele	2016 Annual	T6 instate heavy	0.008639209	0.001201787	4.99E-06	0	0.001206774	1.54E-04	0.002875608	0.004236818	5.51E-04
Los Angele	2016 Annual	T6 instate heavy	9.27E-04	1.18E-04	1.30E-06	0	1.19E-04	1.68E-05	3.13E-04	4.49E-04	6.00E-05
Los Angele	2016 Annual	LDA/LDT1	4.768705201	0.105790645	0	0.029892956	0.1356836	0.206590282	1.62689864	1.969172522	0.389122895
Los Angele	2016 Annual	T6 instate heavy	0.076203077	0.015120437	5.11044E-05	0	0.015171542	0.001258514	0.023433522	0.039863577	0.004527567

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Area	CalYr	Season	Veh	PM10_TOTAL (Tons/day)	PM2_5_RUNEX (Tons/day)	PM2_5_IDLEX (Tons/day)	PM2_5_STREX (Tons/day)	PM2_5_TOTEX (Tons/day)	PM2_5_PMTW (Tons/day)	PM2_5_PMBW (Tons/day)	PM2_5_TOTAL (Tons/day)	SOX_RUNEX (Tons/day)
Los Angele	2017 Annual	LDA		0.290547125	0.001717256	0	2.36E-04	0.001953041	0.01289127	0.1015188	0.116363111	0.023951847
Los Angele	2017 Annual	LDA		0	0	0	0	0	0	0	0	0
Los Angele	2017 Annual	LDA		0.307665282	0.001818229	0	3.16E-04	0.00213452	0.013647586	0.1074747	0.123256806	0.025352048
Los Angele	2017 Annual	LDA		3.53E-05	3.00E-06	0	0	3.00E-06	1.43E-06	1.13E-05	1.57E-05	2.17E-06

Los Angele	2016 Annual	LDA	0	0.001291553	0.037062007	395.3201	0	8.57E-05	1.40E-03	1.28E-04	2.16E-06	9.87E-05	2.00E-06	3.91E-05	8.50E-06
Los Angele	2016 Annual	LDA	0	0	1.36E-04	0	1.27964	1.30E-05	1.22E-04	4.07E-04	8.07E-06	9.87E-05	7.43E-06	3.91E-05	6.68E-06
Los Angele	2016 Annual	LDA	0	0.001259887	0.038249948	407.9913	0	7.56E-05	1.27E-03	1.17E-04	3.37E-06	9.87E-05	3.12E-06	3.91E-05	8.49E-06
Los Angele	2016 Annual	LDA	0	0	1.34E-04	0	1.259298	1.22E-05	1.13E-04	3.83E-04	7.60E-06	9.87E-05	6.99E-06	3.91E-05	6.68E-06
Los Angele	2016 Annual	LDA	0	0.001273134	0.041309119	440.6218	0	6.72E-05	1.17E-03	1.08E-04	4.48E-06	9.87E-05	4.16E-06	3.91E-05	8.47E-06
Los Angele	2016 Annual	LDA	0	0	1.27E-04	0	1.19258	0.00E+00	1.05E-04	3.57E-04	7.10E-06	9.87E-05	6.53E-06	3.91E-05	6.68E-06
Los Angele	2016 Annual	LDA	0	0.001314429	0.046526053	496.2679	0	5.89E-05	1.08E-03	9.91E-05	5.52E-06	9.87E-05	5.12E-06	3.91E-05	8.45E-06
Los Angele	2016 Annual	LDA	0	0	1.31E-04	0	1.233365	0.00E+00	9.56E-05	3.30E-04	6.56E-06	9.87E-05	6.03E-06	3.91E-05	6.68E-06
Los Angele	2016 Annual	LDA	0	0.001311949	0.053088377	566.2646	0	4.97E-05	9.93E-04	8.96E-05	6.18E-06	9.87E-05	5.73E-06	3.91E-05	8.42E-06
Los Angele	2016 Annual	LDA	0	0	1.33E-04	0	1.253329	0.00E+00	8.55E-05	3.00E-04	5.97E-06	9.87E-05	5.49E-06	3.91E-05	6.68E-06
Los Angele	2016 Annual	LDT1	0	6.50E-05	0.001734416	18.50006	0	1.99E-04	2.15E-03	1.49E-04	7.09E-07	9.87E-05	6.58E-07	3.91E-05	9.91E-06
Los Angele	2016 Annual	LDT1	0	0	0	0	0	0	0	0	0	0	0	0	0
Los Angele	2016 Annual	LDT1	0	1.33E-04	0.003606283	38.46624	0	1.68E-04	1.90E-03	1.42E-04	7.30E-07	9.87E-05	6.77E-07	3.91E-05	9.89E-06
Los Angele	2016 Annual	LDT1	0	0	0	0	0	0	0	0	0	0	0	0	0
Los Angele	2016 Annual	LDT1	0	1.18E-04	0.003269737	34.8765	0	1.40E-04	1.82E-03	1.45E-04	9.95E-07	9.87E-05	9.23E-07	3.91E-05	9.90E-06
Los Angele	2016 Annual	LDT1	0	0	0	0	0	0	0	0	0	0	0	0	0
Los Angele	2016 Annual	LDT1	0	1.28E-04	0.00363271	38.74812	0	1.09E-04	1.71E-03	1.46E-04	1.03E-06	9.87E-05	9.51E-07	3.91E-05	9.89E-06
Los Angele	2016 Annual	LDT1	0	0	4.02E-06	0	0.037886206	1.74E-05	1.62E-04	5.45E-04	9.01E-06	9.87E-05	8.29E-06	3.91E-05	6.68E-06
Los Angele	2016 Annual	LDT1	0	1.20E-04	0.003512707	37.46812	0	9.34E-05	1.58E-03	1.35E-04	1.59E-06	9.87E-05	1.48E-06	3.91E-05	9.88E-06
Los Angele	2016 Annual	LDT1	0	0	5.68E-06	0	0.053571202	1.65E-05	1.53E-04	5.18E-04	8.56E-06	9.87E-05	7.88E-06	3.91E-05	6.68E-06
Los Angele	2016 Annual	LDT1	0	1.15E-04	0.00348373	37.15904	0	7.96E-05	1.38E-03	1.27E-04	2.13E-06	9.87E-05	1.98E-06	3.91E-05	9.87E-06
Los Angele	2016 Annual	LDT1	0	0	4.29E-06	0	0.040440481	1.55E-05	1.44E-04	4.89E-04	8.10E-06	9.87E-05	7.45E-06	3.91E-05	6.68E-06
Los Angele	2016 Annual	LDT1	0	1.16E-04	0.003667154	39.11553	0	6.94E-05	1.25E-03	1.16E-04	3.33E-06	9.87E-05	3.09E-06	3.91E-05	9.86E-06
Los Angele	2016 Annual	LDT1	0	0	5.70E-06	0	0.053756975	1.45E-05	1.34E-04	4.59E-04	7.61E-06	9.87E-05	7.00E-06	3.91E-05	6.68E-06
Los Angele	2016 Annual	LDT1	0	1.17E-04	0.003863318	41.20791	0	6.14E-05	1.16E-03	1.07E-04	4.46E-06	9.87E-05	4.13E-06	3.91E-05	9.84E-06
Los Angele	2016 Annual	LDT1	0	0	5.52E-06	0	0.052009661	1.34E-05	1.23E-04	4.28E-04	7.08E-06	9.87E-05	6.52E-06	3.91E-05	6.68E-06
Los Angele	2016 Annual	LDT1	0	1.23E-04	0.004340165	46.29417	0	5.42E-05	1.07E-03	9.86E-05	5.52E-06	9.87E-05	5.12E-06	3.91E-05	9.82E-06
Los Angele	2016 Annual	LDT1	0	0	5.89E-06	0	0.05557305	1.22E-05	1.12E-04	3.94E-04	6.53E-06	9.87E-05	6.01E-06	3.91E-05	6.68E-06
Los Angele	2016 Annual	LDT1	0	1.22E-04	0.00475571	50.72655	0	4.61E-05	9.94E-04	8.94E-05	6.22E-06	9.87E-05	5.77E-06	3.91E-05	9.80E-06
Los Angele	2016 Annual	LDT1	0	0	8.03E-06	0	0.075670861	1.09E-05	1.00E-04	3.58E-04	5.94E-06	9.87E-05	5.47E-06	3.91E-05	6.68E-06
Los Angele	2016 Annual	T6 instate heavy	4.33E-06	0	4.10E-04	0	3.865468945	4.41E-04	1.89E-03	1.05E-02	1.26E-04	3.14E-04	1.16E-04	1.30E-04	2.47E-05
Los Angele	2016 Annual	T6 instate heavy	3.22E-06	0	2.88E-04	0	2.72075319	4.19E-04	1.81E-03	9.61E-03	1.20E-04	3.14E-04	1.11E-04	1.30E-04	2.48E-05
Los Angele	2016 Annual	T6 instate heavy	1.76E-06	0	1.88E-04	0	1.774423592	3.95E-04	1.70E-03	8.31E-03	1.14E-04	3.14E-04	1.05E-04	1.30E-04	2.47E-05
Los Angele	2016 Annual	T6 instate heavy	9.10E-06	0	6.04E-04	0	5.695137881	2.45E-04	1.10E-03	3.40E-03	1.07E-04	3.14E-04	9.86E-05	1.30E-04	2.40E-05
Los Angele	2016 Annual	T6 instate heavy	4.94E-06	0	4.60E-04	0	4.342462891	2.29E-04	1.01E-03	2.89E-03	9.99E-05	3.14E-04	9.19E-05	1.30E-04	2.39E-05
Los Angele	2016 Annual	T6 instate heavy	3.40E-06	0	4.12E-04	0	3.891121897	2.13E-04	9.32E-04	2.32E-03	9.21E-05	3.14E-04	8.48E-05	1.30E-04	2.39E-05
Los Angele	2016 Annual	T6 instate heavy	3.66E-06	0	4.59E-04	0	4.32676422	1.78E-04	7.84E-04	1.90E-03	7.31E-05	3.14E-04	6.73E-05	1.30E-04	2.38E-05
Los Angele	2016 Annual	T6 instate heavy	4.14E-06	0	5.28E-04	0	4.980488676	1.69E-04	7.43E-04	1.72E-03	6.75E-05	3.14E-04	6.21E-05	1.30E-04	2.38E-05
Los Angele	2016 Annual	T6 instate heavy	4.77E-06	0	6.06E-04	0	5.71774909	1.59E-04	7.03E-04	1.54E-03	6.18E-05	3.14E-04	5.69E-05	1.30E-04	2.38E-05
Los Angele	2016 Annual	T6 instate heavy	4.38E-06	0	5.56E-04	0	5.242400993	1.49E-04	6.63E-04	1.37E-03	5.62E-05	3.14E-04	5.17E-05	1.30E-04	2.38E-05
Los Angele	2016 Annual	T6 instate heavy	1.14E-06	0	6.12E-05	0	0.577048199	1.47E-04	7.14E-04	1.33E-03	5.08E-05	3.14E-04	4.68E-05	1.30E-04	2.41E-05
Los Angele	2016 Annual	LDA/LDT1	0	0.013463514	0.402586409	4282.72704	10.11269827	9.44E-05	1.43E-03	1.23E-04	3.12E-06	9.87E-05	2.90E-06	3.91E-05	8.59E-06
Los Angele	2016 Annual	T6 instate heavy	4.48423E-05	0	0.004572409	0	43.13381957	2.34E-04	1.03E-03	3.57E-03	8.67E-05	3.14E-04	7.97E-05	1.30E-04	2.40E-05

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Area	CalYr	Season	Veh	SOX_IDLEX (Tons/day)	SOX_STREX (Tons/day)	SOX_TOTEX (Tons/day)	FUEL_GAS (1000 Gallons)	FUEL_DSL (1000 Gallons)	exhaust ROG lb/mile	exhaust CO lb/mile	exhaust NOx lb/mile	exhaust PM10 lb/mile	tire wear a PM10 lb/mile	exhaust PM2.5 lb/mile	tire wear a PM2.5 lb/mile	SOx lb/mile
Los Angele	2017 Annual	LDA		0	0.001077711	0.025029558	266.9766	0	2.05E-04	2.21E-03	1.51E-04	7.20E-07	9.87E-05	6.68E-07	3.91E-05	8.56E-06
Los Angele	2017 Annual	LDA		0	0	0	0	0	0	0	0	0	0	0	0	0
Los Angele	2017 Annual	LDA		0	0.001108716	0.026460764	282.2424	0	1.79E-04	1.97E-03	1.45E-04	7.43E-07	9.87E-05	6.90E-07	3.91E-05	8.55E-06
Los Angele	2017 Annual	LDA		0	0	2.17E-06	0	0.020465558	1.66E-05	1.55E-04	5.07E-04	1.01E-05	9.87E-05	9.25E-06	3.91E-05	6.68E-06

Los Angele	2016 Annual	LDA	3.06E-04
Los Angele	2016 Annual	LDA	2.52E-04
Los Angele	2016 Annual	LDA	2.98E-04
Los Angele	2016 Annual	LDA	2.46E-04
Los Angele	2016 Annual	LDA	2.91E-04
Los Angele	2016 Annual	LDA	0.00E+00
Los Angele	2016 Annual	LDA	2.78E-04
Los Angele	2016 Annual	LDA	0.00E+00
Los Angele	2016 Annual	LDA	2.67E-04
Los Angele	2016 Annual	LDA	0.00E+00
Los Angele	2016 Annual	LDT1	4.77E-04
Los Angele	2016 Annual	LDT1	
Los Angele	2016 Annual	LDT1	4.77E-04
Los Angele	2016 Annual	LDT1	
Los Angele	2016 Annual	LDT1	4.77E-04
Los Angele	2016 Annual	LDT1	
Los Angele	2016 Annual	LDT1	4.60E-04
Los Angele	2016 Annual	LDT1	3.26E-04
Los Angele	2016 Annual	LDT1	4.08E-04
Los Angele	2016 Annual	LDT1	2.89E-04
Los Angele	2016 Annual	LDT1	3.56E-04
Los Angele	2016 Annual	LDT1	2.52E-04
Los Angele	2016 Annual	LDT1	3.46E-04
Los Angele	2016 Annual	LDT1	2.46E-04
Los Angele	2016 Annual	LDT1	3.38E-04
Los Angele	2016 Annual	LDT1	2.40E-04
Los Angele	2016 Annual	LDT1	3.24E-04
Los Angele	2016 Annual	LDT1	2.31E-04
Los Angele	2016 Annual	LDT1	3.11E-04
Los Angele	2016 Annual	LDT1	2.22E-04
Los Angele	2016 Annual	T6 instate heavy	1.25E-03
Los Angele	2016 Annual	T6 instate heavy	1.25E-03
Los Angele	2016 Annual	T6 instate heavy	1.25E-03
Los Angele	2016 Annual	T6 instate heavy	1.22E-03
Los Angele	2016 Annual	T6 instate heavy	1.21E-03
Los Angele	2016 Annual	T6 instate heavy	1.21E-03
Los Angele	2016 Annual	T6 instate heavy	1.20E-03
Los Angele	2016 Annual	T6 instate heavy	1.20E-03
Los Angele	2016 Annual	T6 instate heavy	1.20E-03
Los Angele	2016 Annual	T6 instate heavy	1.20E-03
Los Angele	2016 Annual	T6 instate heavy	1.22E-03
Los Angele	2016 Annual	LDA/LDT1	3.34E-04
Los Angele	2016 Annual	T6 instate heavy	1.22E-03

EMFAC 2011

2017 Estimated Annual Emissions

EMFAC 2011 Vehicle Categories

Los Angeles COUNTY

South Coast AIR BASIN

South Coast AQMD

Area	CalYr	Season	Veh	exhaust CO2 ton/mile
Los Angele	2017 Annual	LDA		4.06E-04
Los Angele	2017 Annual	LDA		
Los Angele	2017 Annual	LDA		4.05E-04
Los Angele	2017 Annual	LDA		3.32E-04

Los Angele	2017 Annual	LDA	GAS	2009 AllSpeeds	179592.2	5498140.414	1147479	0.067737245	0	0.06336493	0.131102175
Los Angele	2017 Annual	LDA	DSL	2009 AllSpeeds	722.8826	22130.78371	4618.758	1.76E-04	0	0	1.76E-04
Los Angele	2017 Annual	LDA	GAS	2010 AllSpeeds	227966.8	7242588.74	1463400	0.088224746	0	0.079137444	0.16736219
Los Angele	2017 Annual	LDA	DSL	2010 AllSpeeds	1351.746	42945.54765	8677.344	3.28E-04	0	0	3.28E-04
Los Angele	2017 Annual	LDA	GAS	2011 AllSpeeds	225197.6	7447981.827	1450127	0.088014132	0	0.076106869	0.164121001
Los Angele	2017 Annual	LDA	DSL	2011 AllSpeeds	1217.972	40282.17414	7842.956	2.94E-04	0	0	2.94E-04
Los Angele	2017 Annual	LDA	GAS	2012 AllSpeeds	236183.4	8168012.608	1527954	0.091522919	0	0.076608665	0.168131584
Los Angele	2017 Annual	LDA	DSL	2012 AllSpeeds	1117.107	38633.36092	7226.957	2.67E-04	0	0	2.67E-04
Los Angele	2017 Annual	LDA	GAS	2013 AllSpeeds	232346.5	8449846.76	1507778	0.085039356	0	0.069674045	0.154713401
Los Angele	2017 Annual	LDA	DSL	2013 AllSpeeds	1037.128	37717.75998	6730.288	2.45E-04	0	0	2.45E-04
Los Angele	2017 Annual	LDA	GAS	2014 AllSpeeds	233800.6	9012831.271	1519552	0.084574848	0	0.065870941	0.150445789
Los Angele	2017 Annual	LDA	DSL	2014 AllSpeeds	909.1592	35047.45865	5908.944	2.13E-04	0	0	2.13E-04
Los Angele	2017 Annual	LDA	GAS	2015 AllSpeeds	238461.6	9863994.815	1554614	0.08766948	0	0.063481279	0.151150759
Los Angele	2017 Annual	LDA	DSL	2015 AllSpeeds	863.75	35729.2112	5631.087	2.01E-04	0	0	2.01E-04
Los Angele	2017 Annual	LDA	GAS	2016 AllSpeeds	241941.7	1.10E+07	1582141	0.09144645	0	0.060026981	0.151473431
Los Angele	2017 Annual	LDA	DSL	2016 AllSpeeds	763.4277	34609.23203	4992.318	1.78E-04	0	0	1.78E-04
Los Angele	2017 Annual	LDA	GAS	2017 AllSpeeds	244079.2	1.27E+07	1601000	0.09683052	0	0.054619584	0.151450104
Los Angele	2017 Annual	LDA	DSL	2017 AllSpeeds	744.0703	38782.10553	4880.613	1.79E-04	0	0	1.79E-04
Los Angele	2017 Annual	LDT1	GAS	2007 AllSpeeds	10156.54	330550.5035	64081.34	0.00448751	0	0.004062578	0.008550088
Los Angele	2017 Annual	LDT1	DSL	2007 AllSpeeds	0	0	0	0	0	0	0
Los Angele	2017 Annual	LDT1	GAS	2008 AllSpeeds	20770.53	690652.9249	131879.7	0.008595395	0	0.007367654	0.015963049
Los Angele	2017 Annual	LDT1	DSL	2008 AllSpeeds	0	0	0	0	0	0	0
Los Angele	2017 Annual	LDT1	GAS	2009 AllSpeeds	18436.2	627437.5362	117795.6	0.007786168	0	0.006525652	0.01431182
Los Angele	2017 Annual	LDT1	DSL	2009 AllSpeeds	0	0	0	0	0	0	0
Los Angele	2017 Annual	LDT1	GAS	2010 AllSpeeds	20056.53	700096.3089	128750.1	0.008634462	0	0.007038085	0.015672547
Los Angele	2017 Annual	LDT1	DSL	2010 AllSpeeds	32.81466	1145.43658	210.6491	1.05E-05	0	0	1.05E-05
Los Angele	2017 Annual	LDT1	GAS	2011 AllSpeeds	18831.3	675889.1179	121261.4	0.008062936	0	0.006415556	0.014478493
Los Angele	2017 Annual	LDT1	DSL	2011 AllSpeeds	45.69023	1639.909786	294.2156	1.43E-05	0	0	1.43E-05
Los Angele	2017 Annual	LDT1	GAS	2012 AllSpeeds	18082.42	669649.1613	116981.6	0.007551334	0	0.00589601	0.013447343
Los Angele	2017 Annual	LDT1	DSL	2012 AllSpeeds	32.47977	1202.832829	210.1231	9.91E-06	0	0	9.91E-06
Los Angele	2017 Annual	LDT1	GAS	2013 AllSpeeds	18290.96	701990.6912	118696.4	0.007062482	0	0.005485224	0.012547706
Los Angele	2017 Annual	LDT1	DSL	2013 AllSpeeds	42.63757	1636.399054	276.6902	1.27E-05	0	0	1.27E-05
Los Angele	2017 Annual	LDT1	GAS	2014 AllSpeeds	18347.25	734398.5684	119245.2	0.006875092	0	0.005159089	0.012034181
Los Angele	2017 Annual	LDT1	DSL	2014 AllSpeeds	39.16486	1567.686308	254.5461	1.13E-05	0	0	1.13E-05
Los Angele	2017 Annual	LDT1	GAS	2015 AllSpeeds	19155.78	807617.0728	124883.2	0.007151602	0	0.005081846	0.012233448
Los Angele	2017 Annual	LDT1	DSL	2015 AllSpeeds	39.06543	1647.025605	254.6811	1.10E-05	0	0	1.10E-05
Los Angele	2017 Annual	LDT1	GAS	2016 AllSpeeds	19305.11	871890.2277	126242.8	0.007234559	0	0.004766669	0.012001248
Los Angele	2017 Annual	LDT1	DSL	2016 AllSpeeds	47.77551	2157.730844	312.4206	1.32E-05	0	0	1.32E-05
Los Angele	2017 Annual	LDT1	GAS	2017 AllSpeeds	19351.97	973120.168	126936.2	0.007364345	0	0.004304885	0.01166923
Los Angele	2017 Annual	LDT1	DSL	2017 AllSpeeds	31.89508	1603.863309	209.2108	8.78E-06	0	0	8.78E-06
Los Angele	2017 Annual	T6 instate heavy	DSL	2007 AllSpeeds	541.6686432	30570.92404	0	0.006926042	1.25E-04	0	0.007051376
Los Angele	2017 Annual	T6 instate heavy	DSL	2008 AllSpeeds	513.8621036	28648.03389	0	0.006200216	1.19E-04	0	0.006319115
Los Angele	2017 Annual	T6 instate heavy	DSL	2009 AllSpeeds	192.5692346	12281.88245	0	0.002525913	4.46E-05	0	0.002570471
Los Angele	2017 Annual	T6 instate heavy	DSL	2010 AllSpeeds	946.830711	39722.30921	0	0.004884815	2.19E-04	0	0.005103897
Los Angele	2017 Annual	T6 instate heavy	DSL	2011 AllSpeeds	564.3306926	33171.65222	0	0.003878934	1.31E-04	0	0.004009511
Los Angele	2017 Annual	T6 instate heavy	DSL	2012 AllSpeeds	439.3740167	33395.83377	0	0.003691146	1.02E-04	0	0.00379281
Los Angele	2017 Annual	T6 instate heavy	DSL	2013 AllSpeeds	461.1603704	36738.49625	0	0.003339604	1.07E-04	0	0.003446309
Los Angele	2017 Annual	T6 instate heavy	DSL	2014 AllSpeeds	509.1059883	42010.54181	0	0.003624791	1.18E-04	0	0.00374259
Los Angele	2017 Annual	T6 instate heavy	DSL	2015 AllSpeeds	565.5896793	47547.25019	0	0.00387502	1.31E-04	0	0.004005889
Los Angele	2017 Annual	T6 instate heavy	DSL	2016 AllSpeeds	630.915815	52811.50047	0	0.004046625	1.46E-04	0	0.004192609
Los Angele	2017 Annual	T6 instate heavy	DSL	2017 AllSpeeds	589.0409975	49306.9497	0	0.003538788	1.36E-04	0	0.003675083
Los Angele	2017 Annual	T6 instate heavy	DSL	2018 AllSpeeds	147.6527346	5150.402167	0	3.45E-04	3.42E-05	0	3.79E-04
Los Angele	2017 Annual	LDA/LDT1	GAS&DSL	>2007 AllSpeeds	2682781.12	99533547.5	17325918.8	1.017455253	0	0.824216834	1.841672087
Los Angele	2017 Annual	T6 instate heavy	DSL	>2007 AllSpeeds	6102.100987	411355.7762	0	0.046876544	0.00141193	0	0.048288475

Los Angele	2017 Annual	LDA	0.016944321	0.05765928	0.2118769	0.01879384	0.436376516	0.126067579	0	0.0676542	0.193721779
Los Angele	2017 Annual	LDA	0	0	0	0	1.76E-04	2.01E-04	0	0	2.01E-04
Los Angele	2017 Annual	LDA	0.017475262	0.055556219	0.2400959	0.018586872	0.499076443	0.164197419	0	0.084494397	0.248691816
Los Angele	2017 Annual	LDA	0	0	0	0	3.28E-04	3.74E-04	0	0	3.74E-04
Los Angele	2017 Annual	LDA	0.013420361	0.038113903	0.1954541	0.013562226	0.424671591	0.163805443	0	0.081258655	0.245064098
Los Angele	2017 Annual	LDA	0	0	0	0	2.94E-04	3.34E-04	0	0	3.34E-04
Los Angele	2017 Annual	LDA	0.011177791	0.027520005	0.1861239	0.010394133	0.403347413	0.170335742	0	0.081794418	0.25213016
Los Angele	2017 Annual	LDA	0	0	0	0	2.67E-04	3.04E-04	0	0	3.04E-04
Los Angele	2017 Annual	LDA	0.009397152	0.019853471	0.1701375	0.008057191	0.362158715	0.158269006	0	0.074390396	0.232659402
Los Angele	2017 Annual	LDA	0	0	0	0	2.45E-04	2.79E-04	0	0	2.79E-04
Los Angele	2017 Annual	LDA	0.008350887	0.014926027	0.1605565	0.006609377	0.34088858	0.157404506	0	0.070329852	0.227734358
Los Angele	2017 Annual	LDA	0	0	0	0	2.13E-04	2.43E-04	0	0	2.43E-04
Los Angele	2017 Annual	LDA	0.007634499	0.011448544	0.1547166	0.005597322	0.330547724	0.163164001	0	0.067778416	0.230942417
Los Angele	2017 Annual	LDA	0	0	0	0	2.01E-04	2.29E-04	0	0	2.29E-04
Los Angele	2017 Annual	LDA	0.007243359	0.009303188	0.1498952	0.004997932	0.322913109	0.170193418	0	0.064090304	0.234283722
Los Angele	2017 Annual	LDA	0	0	0	0	1.78E-04	2.03E-04	0	0	2.03E-04
Los Angele	2017 Annual	LDA	0.006969783	0.007824235	0.1450976	0.004584557	0.315926278	0.180213855	0	0.058316875	0.23853073
Los Angele	2017 Annual	LDA	0	0	0	0	1.79E-04	2.04E-04	0	0	2.04E-04
Los Angele	2017 Annual	LDT1	0.001764158	0.00505533	0.019523606	0.002072997	0.036966179	0.008351824	0	0.00433758	0.012689404
Los Angele	2017 Annual	LDT1	0	0	0	0	0	0	0	0	0
Los Angele	2017 Annual	LDT1	0.003067091	0.008551704	0.034786779	0.003517289	0.065885911	0.015997118	0	0.007866382	0.0238635
Los Angele	2017 Annual	LDT1	0	0	0	0	0	0	0	0	0
Los Angele	2017 Annual	LDT1	0.002261888	0.006054366	0.026501916	0.002508781	0.05163877	0.014491044	0	0.006967383	0.021458428
Los Angele	2017 Annual	LDT1	0	0	0	0	0	0	0	0	0
Los Angele	2017 Annual	LDT1	0.00199815	0.005023792	0.023476193	0.002125253	0.048295935	0.016069827	0	0.007514505	0.023584332
Los Angele	2017 Annual	LDT1	0	0	0	0	1.05E-05	1.19E-05	0	0	1.19E-05
Los Angele	2017 Annual	LDT1	0.001458324	0.003295607	0.01583419	0.001473739	0.036540353	0.015006146	0	0.006849836	0.021855981
Los Angele	2017 Annual	LDT1	0	0	0	0	1.43E-05	1.63E-05	0	0	1.63E-05
Los Angele	2017 Annual	LDT1	0.001112048	0.002209797	0.013301582	0.001034084	0.031104855	0.014053988	0	0.00629512	0.020349108
Los Angele	2017 Annual	LDT1	0	0	0	0	9.91E-06	1.13E-05	0	0	1.13E-05
Los Angele	2017 Annual	LDT1	9.61E-04	0.0016674	0.011931654	8.24E-04	0.027932131	0.013144173	0	0.005856528	0.019000701
Los Angele	2017 Annual	LDT1	0	0	0	0	1.27E-05	1.44E-05	0	0	1.44E-05
Los Angele	2017 Annual	LDT1	8.51E-04	0.001276491	0.010641666	6.74E-04	0.025477763	0.012795416	0	0.005508315	0.018303731
Los Angele	2017 Annual	LDT1	0	0	0	0	1.13E-05	1.29E-05	0	0	1.29E-05
Los Angele	2017 Annual	LDT1	7.97E-04	0.001028684	0.010283853	5.84E-04	0.024926992	0.013310037	0	0.005425844	0.018735881
Los Angele	2017 Annual	LDT1	0	0	0	0	1.10E-05	1.25E-05	0	0	1.25E-05
Los Angele	2017 Annual	LDT1	7.51E-04	8.53E-04	0.009504244	5.18E-04	0.023627238	0.013464429	0	0.005089354	0.018553783
Los Angele	2017 Annual	LDT1	0	0	0	0	1.32E-05	1.50E-05	0	0	1.50E-05
Los Angele	2017 Annual	LDT1	7.18E-04	7.31E-04	0.008849423	4.72E-04	0.02244035	0.013705978	0	0.004596289	0.018302268
Los Angele	2017 Annual	LDT1	0	0	0	0	8.78E-06	9.99E-06	0	0	9.99E-06
Los Angele	2017 Annual	T6 instate heavy	0	0	0	0	0.007051376	0.007884771	1.43E-04	0	0.008027454
Los Angele	2017 Annual	T6 instate heavy	0	0	0	0	0.006319115	0.007058474	1.35E-04	0	0.007193832
Los Angele	2017 Annual	T6 instate heavy	0	0	0	0	0.002570471	0.00287556	5.07E-05	0	0.002926285
Los Angele	2017 Annual	T6 instate heavy	0	0	0	0	0.005103897	0.00556099	2.49E-04	0	0.005810398
Los Angele	2017 Annual	T6 instate heavy	0	0	0	0	0.004009511	0.004415871	1.49E-04	0	0.004564523
Los Angele	2017 Annual	T6 instate heavy	0	0	0	0	0.00379281	0.004202088	1.16E-04	0	0.004317825
Los Angele	2017 Annual	T6 instate heavy	0	0	0	0	0.003446309	0.003801885	1.21E-04	0	0.003923361
Los Angele	2017 Annual	T6 instate heavy	0	0	0	0	0.00374259	0.004126548	1.34E-04	0	0.004260654
Los Angele	2017 Annual	T6 instate heavy	0	0	0	0	0.004005889	0.004411416	1.49E-04	0	0.004560399
Los Angele	2017 Annual	T6 instate heavy	0	0	0	0	0.004192609	0.004606775	1.66E-04	0	0.004772967
Los Angele	2017 Annual	T6 instate heavy	0	0	0	0	0.003675083	0.004028641	1.55E-04	0	0.004183802
Los Angele	2017 Annual	T6 instate heavy	0	0	0	0	3.79E-04	3.92E-04	3.89E-05	0	4.31E-04
Los Angele	2017 Annual	LDA/LDT1	0.165350662	0.462479062	2.350124606	0.166241091	4.985867508	1.892038522	0	0.880009372	2.772047894
Los Angele	2017 Annual	T6 instate heavy	0	0	0	0	0.048288475	0.053365377	0.001607375	0	0.054972753

Los Angele	2017 Annual	LDA	0.016944321	0.05765928	0.2118769	0.01879384	0.49899612	4.078029374	0	1.158183	5.236212374
Los Angele	2017 Annual	LDA	0	0	0	0	2.01E-04	0.00165493	0	0	0.00165493
Los Angele	2017 Annual	LDA	0.017475262	0.055556219	0.2400959	0.018586872	0.580406069	5.138937708	0	1.387072	6.526009708
Los Angele	2017 Annual	LDA	0	0	0	0	3.74E-04	0.003076726	0	0	0.003076726
Los Angele	2017 Annual	LDA	0.013420361	0.038113903	0.1954541	0.013562226	0.505614688	5.085675491	0	1.312565	6.398240491
Los Angele	2017 Annual	LDA	0	0	0	0	3.34E-04	0.002751787	0	0	0.002751787
Los Angele	2017 Annual	LDA	0.011177791	0.027520005	0.1861239	0.010394133	0.487345989	5.223741184	0	1.279046	6.502787184
Los Angele	2017 Annual	LDA	0	0	0	0	3.04E-04	0.00249679	0	0	0.00249679
Los Angele	2017 Annual	LDA	0.009397152	0.019853471	0.1701375	0.008057191	0.440104716	4.815551309	0	1.094859	5.910410309
Los Angele	2017 Annual	LDA	0	0	0	0	2.79E-04	0.002292283	0	0	0.002292283
Los Angele	2017 Annual	LDA	0.008350887	0.014926027	0.1605565	0.006609377	0.418177149	4.711468359	0	0.9911765	5.702644859
Los Angele	2017 Annual	LDA	0	0	0	0	2.43E-04	0.001987984	0	0	0.001987984
Los Angele	2017 Annual	LDA	0.007634499	0.011448544	0.1547166	0.005597322	0.410339382	4.81751023	0	0.9343744	5.75188463
Los Angele	2017 Annual	LDA	0	0	0	0	2.29E-04	0.001873196	0	0	0.001873196
Los Angele	2017 Annual	LDA	0.007243359	0.009303188	0.1498952	0.004997932	0.405723401	5.025045378	0	0.8839265	5.908971878
Los Angele	2017 Annual	LDA	0	0	0	0	2.03E-04	0.00165497	0	0	0.00165497
Los Angele	2017 Annual	LDA	0.006969783	0.007824235	0.1450976	0.004584557	0.403006904	5.479069366	0	0.8388935	6.317962866
Los Angele	2017 Annual	LDA	0	0	0	0	2.04E-04	0.001657296	0	0	0.001657296
Los Angele	2017 Annual	LDT1	0.001764158	0.00505533	0.019523606	0.002072997	0.041105496	0.285525458	0	0.079013444	0.364538902
Los Angele	2017 Annual	LDT1	0	0	0	0	0	0	0	0	0
Los Angele	2017 Annual	LDT1	0.003067091	0.008551704	0.034786779	0.003517289	0.073786362	0.536435375	0	0.1417632	0.678198575
Los Angele	2017 Annual	LDT1	0	0	0	0	0	0	0	0	0
Los Angele	2017 Annual	LDT1	0.002261888	0.006054366	0.026501916	0.002508781	0.058785378	0.471126878	0	0.1207611	0.591887978
Los Angele	2017 Annual	LDT1	0	0	0	0	0	0	0	0	0
Los Angele	2017 Annual	LDT1	0.00199815	0.005023792	0.023476193	0.002125253	0.056207719	0.503288108	0	0.1241272	0.627415308
Los Angele	2017 Annual	LDT1	0	0	0	0	1.19E-05	9.77E-05	0	0	9.77E-05
Los Angele	2017 Annual	LDT1	0.001458324	0.003295607	0.01583419	0.001473739	0.043917842	0.465954502	0	0.1111199	0.577153502
Los Angele	2017 Annual	LDT1	0	0	0	0	1.63E-05	1.33E-04	0	0	1.33E-04
Los Angele	2017 Annual	LDT1	0.001112048	0.002209797	0.013301582	0.001034084	0.038006619	0.430833942	0	0.098802693	0.529636635
Los Angele	2017 Annual	LDT1	0	0	0	0	1.13E-05	9.21E-05	0	0	9.21E-05
Los Angele	2017 Annual	LDT1	9.61E-04	0.0016674	0.011931654	8.24E-04	0.034385126	0.399756102	0	0.086241417	0.485997519
Los Angele	2017 Annual	LDT1	0	0	0	0	1.44E-05	1.18E-04	0	0	1.18E-04
Los Angele	2017 Annual	LDT1	8.51E-04	0.001276491	0.010641666	6.74E-04	0.031747313	0.382661008	0	0.077590577	0.460251585
Los Angele	2017 Annual	LDT1	0	0	0	0	1.29E-05	1.05E-04	0	0	1.05E-04
Los Angele	2017 Annual	LDT1	7.97E-04	0.001028684	0.010283853	5.84E-04	0.031429424	0.392664755	0	0.074773826	0.467438581
Los Angele	2017 Annual	LDT1	0	0	0	0	1.25E-05	1.02E-04	0	0	1.02E-04
Los Angele	2017 Annual	LDT1	7.51E-04	8.53E-04	0.009504244	5.18E-04	0.030179773	0.397537867	0	0.070256792	0.467794659
Los Angele	2017 Annual	LDT1	0	0	0	0	1.50E-05	1.21E-04	0	0	1.21E-04
Los Angele	2017 Annual	LDT1	7.18E-04	7.31E-04	0.008849423	4.72E-04	0.029073388	0.417457761	0	0.066338435	0.483796196
Los Angele	2017 Annual	LDT1	0	0	0	0	9.99E-06	8.03E-05	0	0	8.03E-05
Los Angele	2017 Annual	T6 instate heavy	0	0	0	0	0.008027454	0.028821728	0.001482078	0	0.030303807
Los Angele	2017 Annual	T6 instate heavy	0	0	0	0	0.007193832	0.025801307	0.001405996	0	0.027207303
Los Angele	2017 Annual	T6 instate heavy	0	0	0	0	0.002926285	0.010511224	5.27E-04	0	0.01103812
Los Angele	2017 Annual	T6 instate heavy	0	0	0	0	0.005810398	0.020327456	0.002590656	0	0.022918112
Los Angele	2017 Annual	T6 instate heavy	0	0	0	0	0.004564523	0.016141625	0.001544085	0	0.017685709
Los Angele	2017 Annual	T6 instate heavy	0	0	0	0	0.004317825	0.015360172	0.001202186	0	0.016562359
Los Angele	2017 Annual	T6 instate heavy	0	0	0	0	0.003923361	0.013897282	0.001261797	0	0.015159079
Los Angele	2017 Annual	T6 instate heavy	0	0	0	0	0.004260654	0.015084046	0.001392982	0	0.016477028
Los Angele	2017 Annual	T6 instate heavy	0	0	0	0	0.004560399	0.01612534	0.001547529	0	0.017672869
Los Angele	2017 Annual	T6 instate heavy	0	0	0	0	0.004772967	0.01683945	0.001726271	0	0.01856572
Los Angele	2017 Annual	T6 instate heavy	0	0	0	0	0.004183802	0.014726159	0.001611695	0	0.016337855
Los Angele	2017 Annual	T6 instate heavy	0	0	0	0	4.31E-04	0.001434214	4.04E-04	0	0.001838212
Los Angele	2017 Annual	LDA/LDT1	0.165350662	0.462479062	2.350124606	0.166241091	5.916243315	58.71793894	0	13.86593858	72.58387753
Los Angele	2017 Annual	T6 instate heavy	0	0	0	0	0.054972753	0.195070004	0.016696169	0	0.211766173

Los Angele	2017 Annual	LDA	0.345656526	0	0.066675238	0.412331764	2252.787681	0	93.99782	2346.785501	2140.148297
Los Angele	2017 Annual	LDA	0.005418756	0	0	0.005418756	7.745222966	0	0	7.745222966	7.357961818
Los Angele	2017 Annual	LDA	0.464356452	0	0.08726301	0.551619462	2968.30067	0	119.8699	3088.17057	2721.189639
Los Angele	2017 Annual	LDA	0.010116844	0	0	0.010116844	15.02987307	0	0	15.02987307	13.77863614
Los Angele	2017 Annual	LDA	0.46277922	0	0.08262977	0.54540899	3053.439796	0	118.7829	3172.222696	2483.057242
Los Angele	2017 Annual	LDA	0.009092744	0	0	0.009092744	14.09775914	0	0	14.09775914	11.46429773
Los Angele	2017 Annual	LDA	0.475874929	0	0.079643607	0.555518536	3349.526611	0	125.1523	3474.678911	2376.991559
Los Angele	2017 Annual	LDA	0.008299533	0	0	0.008299533	13.52071531	0	0	13.52071531	9.594975621
Los Angele	2017 Annual	LDA	0.467282461	0	0.072453603	0.539736064	3466.035879	0	123.4945	3589.530379	2397.110414
Los Angele	2017 Annual	LDA	0.007673016	0	0	0.007673016	13.20027713	0	0	13.20027713	9.129311666
Los Angele	2017 Annual	LDA	0.463015811	0	0.064816527	0.527832338	3697.946101	0	124.453	3822.399101	2501.290743
Los Angele	2017 Annual	LDA	0.006709795	0	0	0.006709795	12.26573678	0	0	12.26573678	8.296544355
Los Angele	2017 Annual	LDA	0.474216932	0	0.058955036	0.533171968	4048.13907	0	127.3151	4175.45417	2626.635035
Los Angele	2017 Annual	LDA	0.006386465	0	0	0.006386465	12.50433622	0	0	12.50433622	8.113438559
Los Angele	2017 Annual	LDA	0.490795261	0	0.052381106	0.543176367	4502.334259	0	129.5593	4631.893559	2810.131928
Los Angele	2017 Annual	LDA	0.005714534	0	0	0.005714534	12.11236894	0	0	12.11236894	7.559935073
Los Angele	2017 Annual	LDA	0.524924507	0	0.044935405	0.569859912	5223.582968	0	131.0981	5354.681068	3260.299309
Los Angele	2017 Annual	LDA	0.005820283	0	0	0.005820283	13.57277134	0	0	13.57277134	8.471445229
Los Angele	2017 Annual	LDT1	0.021073939	0	0.003807024	0.024880963	157.5180382	0	6.108491	163.6265292	149.6421363
Los Angele	2017 Annual	LDT1	0	0	0	0	0	0	0	0	0
Los Angele	2017 Annual	LDT1	0.042472373	0	0.00743789	0.049910262	328.8260959	0	12.56008	341.3861759	312.3847911
Los Angele	2017 Annual	LDT1	0	0	0	0	0	0	0	0	0
Los Angele	2017 Annual	LDT1	0.039657928	0	0.006899905	0.046557833	299.2395083	0	11.23799	310.4774983	284.2775329
Los Angele	2017 Annual	LDT1	0	0	0	0	0	0	0	0	0
Los Angele	2017 Annual	LDT1	0.045307609	0	0.007785576	0.053093185	333.7872909	0	12.27547	346.0627609	305.9994989
Los Angele	2017 Annual	LDT1	3.26E-04	0	0	3.26E-04	0.400874292	0	0	0.400874292	0.367501507
Los Angele	2017 Annual	LDT1	0.042275525	0	0.006980598	0.049256123	322.3097294	0	11.56026	333.8699894	262.102272
Los Angele	2017 Annual	LDT1	4.47E-04	0	0	4.47E-04	0.573927614	0	0	0.573927614	0.466717935
Los Angele	2017 Annual	LDT1	0.039069595	0	0.006116028	0.045185623	319.4072506	0	11.15142	330.5586706	226.6673554
Los Angele	2017 Annual	LDT1	3.11E-04	0	0	3.11E-04	0.420961572	0	0	0.420961572	0.298735379
Los Angele	2017 Annual	LDT1	0.038808794	0	0.005705816	0.044514611	334.8932687	0	11.31348	346.2067487	231.6121846
Los Angele	2017 Annual	LDT1	4.00E-04	0	0	4.00E-04	0.572698959	0	0	0.572698959	0.3960786
Los Angele	2017 Annual	LDT1	0.037628595	0	0.005068395	0.04269699	350.4446239	0	11.36529	361.8099139	237.0407436
Los Angele	2017 Annual	LDT1	3.60E-04	0	0	3.60E-04	0.548651234	0	0	0.548651234	0.371107695
Los Angele	2017 Annual	LDT1	0.038667889	0	0.004706264	0.043374153	385.4436539	0	11.9009	397.3445539	250.0951149
Los Angele	2017 Annual	LDT1	3.52E-04	0	0	3.52E-04	0.576417988	0	0	0.576417988	0.374008811
Los Angele	2017 Annual	LDT1	0.038826053	0	0.004145713	0.042971766	416.2215582	0	12.02979	428.2513482	259.7846856
Los Angele	2017 Annual	LDT1	4.25E-04	0	0	4.25E-04	0.755152155	0	0	0.755152155	0.471328217
Los Angele	2017 Annual	LDT1	0.039976656	0	0.003534796	0.043511452	464.6856331	0	12.09584	476.7814731	290.0335379
Los Angele	2017 Annual	LDT1	2.87E-04	0	0	2.87E-04	0.561312267	0	0	0.561312267	0.350343052
Los Angele	2017 Annual	T6 instate heavy	0.161075204	0.002239116	0	0.16331432	39.22818206	0.445300684	0	39.67348274	37.26677296
Los Angele	2017 Annual	T6 instate heavy	0.138337595	0.002124171	0	0.140461766	36.76075633	0.42244119	0	37.18319752	34.92271851
Los Angele	2017 Annual	T6 instate heavy	0.051514574	7.96E-04	0	0.052310604	15.75993975	0.158309352	0	15.9182491	14.97194276
Los Angele	2017 Annual	T6 instate heavy	0.067360522	0.00391395	0	0.071274471	49.26804549	0.778380599	0	50.04642609	46.80464321
Los Angele	2017 Annual	T6 instate heavy	0.049058405	0.002332795	0	0.0513912	41.14318888	0.463930941	0	41.60711982	39.08602943
Los Angele	2017 Annual	T6 instate heavy	0.040485651	0.001816257	0	0.042301908	41.42124387	0.361205236	0	41.78244911	39.35018168
Los Angele	2017 Annual	T6 instate heavy	0.036046674	0.001906316	0	0.03795299	45.46231462	0.379115592	0	45.84143021	43.18919888
Los Angele	2017 Annual	T6 instate heavy	0.037711658	0.002104511	0	0.039816169	51.98624505	0.418531232	0	52.40477628	49.3869328
Los Angele	2017 Annual	T6 instate heavy	0.038569528	0.002337999	0	0.040907528	58.83768438	0.464965942	0	59.30265032	55.89580016
Los Angele	2017 Annual	T6 instate heavy	0.038186521	0.002608041	0	0.040794562	65.3519685	0.518669942	0	65.87063844	62.08437008
Los Angele	2017 Annual	T6 instate heavy	0.031326708	0.002434941	0	0.033761649	61.01523711	0.48424505	0	61.49948216	57.96447526
Los Angele	2017 Annual	T6 instate heavy	0.002820408	6.10E-04	0	0.003430765	6.373401952	0.121383921	0	6.494785872	6.054731854
Los Angele	2017 Annual	LDA/LDT1	5.403429109	0	0.820194351	6.22362346	41316.98404	0	1431.264131	42748.24817	30890.82892
Los Angele	2017 Annual	T6 instate heavy	0.692493447	0.025224485	0	0.717717932	512.608208	5.016479682	0	517.6246877	486.9777976

Los Angele	2017 Annual	LDA	0	89.297929	2229.446226	0.002324715	0	4.66E-04	0.00279054	0.048485298	0.2227294
Los Angele	2017 Annual	LDA	0	0	7.357961818	1.07E-04	0	0	1.07E-04	1.95E-04	8.97E-04
Los Angele	2017 Annual	LDA	0	109.8907308	2831.08037	0.003062116	0	7.33E-04	0.003795022	0.063868701	0.2933969
Los Angele	2017 Annual	LDA	0	0	13.77863614	2.01E-04	0	0	2.01E-04	3.79E-04	0.001739722
Los Angele	2017 Annual	LDA	0	96.59425428	2579.651496	0.004723443	0	0.001353138	0.006076581	0.065679967	0.3017174
Los Angele	2017 Annual	LDA	0	0	11.46429773	1.80E-04	0	0	1.80E-04	3.55E-04	0.001631829
Los Angele	2017 Annual	LDA	0	88.8143297	2465.805889	0.006906467	0	0.00200564	0.008912107	0.072029546	0.3308858
Los Angele	2017 Annual	LDA	0	0	9.594975621	1.65E-04	0	0	1.65E-04	3.41E-04	0.001565036
Los Angele	2017 Annual	LDA	0	85.4087962	2482.51921	0.010716706	0	0.003707781	0.014424486	0.074514888	0.3423029
Los Angele	2017 Annual	LDA	0	0	9.129311666	1.52E-04	0	0	1.52E-04	3.33E-04	0.001527945
Los Angele	2017 Annual	LDA	0	84.1800092	2585.470752	0.01524025	0	0.005286448	0.020526698	0.079479575	0.3651094
Los Angele	2017 Annual	LDA	0	0	8.296544355	1.33E-04	0	0	1.33E-04	3.09E-04	0.001419771
Los Angele	2017 Annual	LDA	0	82.60840264	2709.243438	0.020847859	0	0.006964882	0.027812741	0.086985551	0.3995899
Los Angele	2017 Annual	LDA	0	0	8.113438559	1.27E-04	0	0	1.27E-04	3.15E-04	0.001447389
Los Angele	2017 Annual	LDA	0	80.8644371	2890.996365	0.02665669	0	0.008270661	0.034927351	0.096722566	0.4443194
Los Angele	2017 Annual	LDA	0	0	7.559935073	1.13E-04	0	0	1.13E-04	3.05E-04	0.001402018
Los Angele	2017 Annual	LDA	0	81.82487912	3342.124188	0.03360576	0	0.009149362	0.042755122	0.1121867	0.5153576
Los Angele	2017 Annual	LDA	0	0	8.471445229	1.16E-04	0	0	1.16E-04	3.42E-04	0.001571061
Los Angele	2017 Annual	LDT1	0	5.80306645	155.4452028	1.05E-04	0	1.27E-05	1.17E-04	0.002914956	0.013390584
Los Angele	2017 Annual	LDT1	0	0	0	0	0	0	0	0	0
Los Angele	2017 Annual	LDT1	0	11.932076	324.3168671	2.19E-04	0	3.38E-05	2.53E-04	0.006090515	0.027978316
Los Angele	2017 Annual	LDT1	0	0	0	0	0	0	0	0	0
Los Angele	2017 Annual	LDT1	0	10.6760905	294.9536234	2.65E-04	0	4.78E-05	3.13E-04	0.005533053	0.025417466
Los Angele	2017 Annual	LDT1	0	0	0	0	0	0	0	0	0
Los Angele	2017 Annual	LDT1	0	11.25353712	317.253036	2.96E-04	0	6.45E-05	3.60E-04	0.006173792	0.028360862
Los Angele	2017 Annual	LDT1	0	0	0.367501507	5.40E-06	0	0	5.40E-06	1.01E-05	4.64E-05
Los Angele	2017 Annual	LDT1	0	9.400803432	271.5030754	4.28E-04	0	1.13E-04	5.42E-04	0.005960322	0.027380232
Los Angele	2017 Annual	LDT1	0	0	0.466717935	7.39E-06	0	0	7.39E-06	1.45E-05	6.64E-05
Los Angele	2017 Annual	LDT1	0	7.913605203	234.5809606	5.66E-04	0	1.53E-04	7.19E-04	0.005905294	0.027127454
Los Angele	2017 Annual	LDT1	0	0	0.298735379	5.15E-06	0	0	5.15E-06	1.06E-05	4.87E-05
Los Angele	2017 Annual	LDT1	0	7.824402768	239.4365874	8.90E-04	0	2.92E-04	0.001181609	0.006190499	0.028437605
Los Angele	2017 Annual	LDT1	0	0	0.3960786	6.62E-06	0	0	6.62E-06	1.44E-05	6.63E-05
Los Angele	2017 Annual	LDT1	0	7.687482156	244.7282257	0.001241214	0	4.15E-04	0.001655855	0.006476287	0.029750448
Los Angele	2017 Annual	LDT1	0	0	0.371107695	5.96E-06	0	0	5.96E-06	1.38E-05	6.35E-05
Los Angele	2017 Annual	LDT1	0	7.721898965	257.8170138	0.001705951	0	5.59E-04	0.002265125	0.007121964	0.032716524
Los Angele	2017 Annual	LDT1	0	0	0.374008811	5.83E-06	0	0	5.83E-06	1.45E-05	6.67E-05
Los Angele	2017 Annual	LDT1	0	7.508393429	267.293079	0.002117858	0	6.60E-04	0.002777431	0.007688756	0.035320234
Los Angele	2017 Annual	LDT1	0	0	0.471328217	7.05E-06	0	0	7.05E-06	1.90E-05	8.74E-05
Los Angele	2017 Annual	LDT1	0	7.549618536	297.5831565	0.002569285	0	7.25E-04	0.003294327	0.008581451	0.039421041
Los Angele	2017 Annual	LDT1	0	0	0.350343052	4.76E-06	0	0	4.76E-06	1.41E-05	6.50E-05
Los Angele	2017 Annual	T6 instate heavy	0.42303565	0	37.68980861	0.002013317	5.26E-06	0	0.002018579	4.04E-04	0.004392285
Los Angele	2017 Annual	T6 instate heavy	0.40131913	0	35.32403764	0.001805366	4.99E-06	0	0.001810358	3.79E-04	0.004116014
Los Angele	2017 Annual	T6 instate heavy	0.150393884	0	15.12233665	7.37E-04	1.87E-06	0	7.39E-04	1.62E-04	0.001764603
Los Angele	2017 Annual	T6 instate heavy	0.739461569	0	47.54410478	0.00225601	9.20E-06	0	0.002265209	5.25E-04	0.005707113
Los Angele	2017 Annual	T6 instate heavy	0.440734394	0	39.52676383	0.001770856	5.48E-06	0	0.001776338	4.39E-04	0.004765946
Los Angele	2017 Annual	T6 instate heavy	0.343144974	0	39.69332665	0.001661985	4.27E-06	0	0.001666253	4.42E-04	0.004798155
Los Angele	2017 Annual	T6 instate heavy	0.360159812	0	43.5493587	0.001437469	4.48E-06	0	0.001441949	4.86E-04	0.005278413
Los Angele	2017 Annual	T6 instate heavy	0.397604671	0	49.78453747	0.001530596	4.95E-06	0	0.001535542	5.56E-04	0.006035875
Los Angele	2017 Annual	T6 instate heavy	0.441717645	0	56.33751781	0.001599666	5.50E-06	0	0.001605161	6.29E-04	0.006831363
Los Angele	2017 Annual	T6 instate heavy	0.492736445	0	62.57710652	0.001626672	6.13E-06	0	0.001632802	6.99E-04	0.007587706
Los Angele	2017 Annual	T6 instate heavy	0.460032797	0	58.42450805	0.001379188	5.72E-06	0	0.001384911	6.52E-04	0.007084189
Los Angele	2017 Annual	T6 instate heavy	0.115314725	0	6.170046579	1.29E-04	1.43E-06	0	1.31E-04	6.81E-05	7.40E-04
Los Angele	2017 Annual	LDA/LDT1	0	1097.999833	31988.82875	0.139643402	0	0.041607229	0.181250631	0.877735707	4.032099035
Los Angele	2017 Annual	T6 instate heavy	4.765655697	0	491.7434533	0.017947551	5.92859E-05	0	0.018006837	0.005441305	0.059101647



Los Angele	2017 Annual	LDA	0.274005238	0.002156951	0	4.32E-04	0.002589161	0.012121324	0.095455453	0.110165938	0.022554379
Los Angele	2017 Annual	LDA	0.001199073	9.88E-05	0	0	9.88E-05	4.88E-05	3.84E-04	5.32E-04	7.39E-05
Los Angele	2017 Annual	LDA	0.361060623	0.002841138	0	6.80E-04	0.003521154	0.015967175	0.1257415	0.145229829	0.029714199
Los Angele	2017 Annual	LDA	0.00231898	1.84E-04	0	0	1.84E-04	9.47E-05	7.46E-04	0.001024774	1.43E-04
Los Angele	2017 Annual	LDA	0.373473948	0.004382576	0	0.001255489	0.005638065	0.016419992	0.1293074	0.151365457	0.030563187
Los Angele	2017 Annual	LDA	0.002167335	1.66E-04	0	0	1.66E-04	8.88E-05	6.99E-04	9.54E-04	1.35E-04
Los Angele	2017 Annual	LDA	0.411827453	0.006408062	0	0.001860903	0.008268964	0.018007386	0.1418082	0.16808455	0.033521011
Los Angele	2017 Annual	LDA	0.002070315	1.51E-04	0	0	1.51E-04	8.52E-05	6.71E-04	9.07E-04	1.29E-04
Los Angele	2017 Annual	LDA	0.431242274	0.009943335	0	0.003440208	0.013383543	0.018628722	0.1467012	0.178713465	0.034677237
Los Angele	2017 Annual	LDA	0.002012768	1.40E-04	0	0	1.40E-04	8.32E-05	6.55E-04	8.78E-04	1.26E-04
Los Angele	2017 Annual	LDA	0.465115673	0.014140436	0	0.004904951	0.019045387	0.019869894	0.1564754	0.195390681	0.036990445
Los Angele	2017 Annual	LDA	0.001861982	1.22E-04	0	0	1.22E-04	7.73E-05	6.08E-04	8.08E-04	1.17E-04
Los Angele	2017 Annual	LDA	0.514388192	0.019343373	0	0.006462261	0.025805634	0.021746388	0.1712528	0.218804822	0.040487815
Los Angele	2017 Annual	LDA	0.001889247	1.17E-04	0	0	1.17E-04	7.88E-05	6.20E-04	8.16E-04	1.19E-04
Los Angele	2017 Annual	LDA	0.575969317	0.024733013	0	0.007673809	0.032406822	0.024180641	0.1904226	0.247010063	0.045024946
Los Angele	2017 Annual	LDA	0.001820717	1.04E-04	0	0	1.04E-04	7.63E-05	6.01E-04	7.82E-04	1.16E-04
Los Angele	2017 Annual	LDA	0.670299422	0.031180605	0	0.0084891	0.039669705	0.028046666	0.2208675	0.288583871	0.052231681
Los Angele	2017 Annual	LDA	0.002028734	1.06E-04	0	0	1.06E-04	8.55E-05	6.73E-04	8.65E-04	1.30E-04
Los Angele	2017 Annual	LDT1	0.016422968	9.72E-05	0	1.17E-05	1.09E-04	7.29E-04	0.00573882	0.006576513	0.001577026
Los Angele	2017 Annual	LDT1	0	0	0	0	0	0	0	0	0
Los Angele	2017 Annual	LDT1	0.03432138	2.03E-04	0	3.14E-05	2.34E-04	0.001522629	0.011990706	0.013747658	0.003291138
Los Angele	2017 Annual	LDT1	0	0	0	0	0	0	0	0	0
Los Angele	2017 Annual	LDT1	0.031263716	2.46E-04	0	4.44E-05	2.91E-04	0.001383263	0.0108932	0.012567059	0.002994744
Los Angele	2017 Annual	LDT1	0	0	0	0	0	0	0	0	0
Los Angele	2017 Annual	LDT1	0.034895029	2.75E-04	0	5.98E-05	3.34E-04	0.001543448	0.012154655	0.014032472	0.003340142
Los Angele	2017 Annual	LDT1	6.19E-05	4.96E-06	0	0	4.96E-06	2.53E-06	1.99E-05	2.74E-05	3.83E-06
Los Angele	2017 Annual	LDT1	0.033882136	3.98E-04	0	1.05E-04	5.02E-04	0.001490081	0.011734385	0.013726965	0.00322496
Los Angele	2017 Annual	LDT1	8.83E-05	6.80E-06	0	0	6.80E-06	3.62E-06	2.85E-05	3.89E-05	5.48E-06
Los Angele	2017 Annual	LDT1	0.033752222	5.25E-04	0	1.42E-04	6.68E-04	0.001476324	0.01162605	0.013769926	0.003195409
Los Angele	2017 Annual	LDT1	6.45E-05	4.74E-06	0	0	4.74E-06	2.65E-06	2.09E-05	2.83E-05	4.02E-06
Los Angele	2017 Annual	LDT1	0.035809713	8.26E-04	0	2.71E-04	0.001096338	0.001547625	0.012187545	0.014831508	0.003349473
Los Angele	2017 Annual	LDT1	8.73E-05	6.09E-06	0	0	6.09E-06	3.61E-06	2.84E-05	3.81E-05	5.47E-06
Los Angele	2017 Annual	LDT1	0.03788259	0.001151641	0	3.85E-04	0.00153636	0.001619072	0.012750193	0.015905624	0.003504425
Los Angele	2017 Annual	LDT1	8.33E-05	5.49E-06	0	0	5.49E-06	3.46E-06	2.72E-05	3.62E-05	5.24E-06
Los Angele	2017 Annual	LDT1	0.042103613	0.001582841	0	5.19E-04	0.002101662	0.001780491	0.014021368	0.017903521	0.00385395
Los Angele	2017 Annual	LDT1	8.71E-05	5.37E-06	0	0	5.37E-06	3.63E-06	2.86E-05	3.76E-05	5.50E-06
Los Angele	2017 Annual	LDT1	0.045786421	0.001965023	0	6.12E-04	0.002576998	0.001922189	0.015137239	0.019636426	0.004161247
Los Angele	2017 Annual	LDT1	1.13E-04	6.48E-06	0	0	6.48E-06	4.76E-06	3.75E-05	4.87E-05	7.21E-06
Los Angele	2017 Annual	LDT1	0.051296819	0.002383873	0	6.73E-04	0.003056592	0.002145363	0.016894734	0.022096689	0.004645323
Los Angele	2017 Annual	LDT1	8.39E-05	4.38E-06	0	0	4.38E-06	3.54E-06	2.78E-05	3.58E-05	5.36E-06
Los Angele	2017 Annual	T6 instate heavy	0.006815249	0.001852251	4.84E-06	0	0.001857093	1.01E-04	0.001882408	0.003840597	3.74E-04
Los Angele	2017 Annual	T6 instate heavy	0.00630532	0.001660936	4.59E-06	0	0.00166553	9.47E-05	0.001764006	0.003524273	3.51E-04
Los Angele	2017 Annual	T6 instate heavy	0.002665874	6.78E-04	1.72E-06	0	6.80E-04	4.06E-05	7.56E-04	0.001476579	1.50E-04
Los Angele	2017 Annual	T6 instate heavy	0.008497758	0.002075529	8.46E-06	0	0.002083992	1.31E-04	0.002445906	0.004661257	4.70E-04
Los Angele	2017 Annual	T6 instate heavy	0.00698107	0.001629187	5.04E-06	0	0.001634231	1.10E-04	0.002042548	0.003786476	3.93E-04
Los Angele	2017 Annual	T6 instate heavy	0.00690616	0.001529026	3.93E-06	0	0.001532953	1.10E-04	0.002056352	0.003699743	3.95E-04
Los Angele	2017 Annual	T6 instate heavy	0.007206329	0.001322471	4.12E-06	0	0.001326593	1.21E-04	0.002262177	0.003710262	4.34E-04
Los Angele	2017 Annual	T6 instate heavy	0.008127122	0.001408148	4.55E-06	0	0.001412699	1.39E-04	0.002586804	0.004138429	4.96E-04
Los Angele	2017 Annual	T6 instate heavy	0.009065467	0.001471693	5.06E-06	0	0.001476748	1.57E-04	0.002927727	0.004561711	5.61E-04
Los Angele	2017 Annual	T6 instate heavy	0.009919084	0.001496538	5.64E-06	0	0.001502177	1.75E-04	0.003251874	0.004928696	6.23E-04
Los Angele	2017 Annual	T6 instate heavy	0.009121318	0.001268853	5.27E-06	0	0.001274118	1.63E-04	0.003036081	0.004473253	5.82E-04
Los Angele	2017 Annual	T6 instate heavy	9.39E-04	1.19E-04	1.32E-06	0	1.20E-04	1.70E-05	3.17E-04	4.55E-04	6.08E-05
Los Angele	2017 Annual	LDA/LDT1	5.091085372	0.1295555	0	0.038604644	0.168160144	0.219433916	1.728042191	2.115636252	0.413339686
Los Angele	2017 Annual	T6 instate heavy	0.082549789	0.016511747	5.4543E-05	0	0.01656629	0.001360326	0.025329277	0.043255893	0.004890522

Los Angele	2017 Annual	LDA	0	9.58E-04	0.023512823	250.7984	0	1.59E-04	1.90E-03	1.50E-04	1.02E-06	9.87E-05	9.42E-07	3.91E-05	8.55E-06
Los Angele	2017 Annual	LDA	0	0	7.39E-05	0	0.6970702	1.59E-05	1.50E-04	4.90E-04	9.71E-06	9.87E-05	8.93E-06	3.91E-05	6.68E-06
Los Angele	2017 Annual	LDA	0	0.001220784	0.030934983	329.9665	0	1.38E-04	1.80E-03	1.52E-04	1.05E-06	9.87E-05	9.72E-07	3.91E-05	8.54E-06
Los Angele	2017 Annual	LDA	0	0	1.43E-04	0	1.352689	1.53E-05	1.43E-04	4.71E-04	9.34E-06	9.87E-05	8.59E-06	3.91E-05	6.68E-06
Los Angele	2017 Annual	LDA	0	0.001208669	0.031771856	338.893	0	1.14E-04	1.72E-03	1.46E-04	1.63E-06	9.87E-05	1.51E-06	3.91E-05	8.53E-06
Los Angele	2017 Annual	LDA	0	0	1.35E-04	0	1.268799	1.46E-05	1.37E-04	4.51E-04	8.95E-06	9.87E-05	8.23E-06	3.91E-05	6.68E-06
Los Angele	2017 Annual	LDA	0	0.001271737	0.034792748	371.1152	0	9.88E-05	1.59E-03	1.36E-04	2.18E-06	9.87E-05	2.02E-06	3.91E-05	8.52E-06
Los Angele	2017 Annual	LDA	0	0	1.29E-04	0	1.216864	1.38E-05	1.29E-04	4.30E-04	8.52E-06	9.87E-05	7.84E-06	3.91E-05	6.68E-06
Los Angele	2017 Annual	LDA	0	0.00125208	0.035929317	383.2383	0	8.57E-05	1.40E-03	1.28E-04	3.41E-06	9.87E-05	3.17E-06	3.91E-05	8.50E-06
Los Angele	2017 Annual	LDA	0	0	1.26E-04	0	1.188025	1.30E-05	1.22E-04	4.07E-04	8.07E-06	9.87E-05	7.43E-06	3.91E-05	6.68E-06
Los Angele	2017 Annual	LDA	0	0.00125599	0.038250345	407.9955	0	7.56E-05	1.27E-03	1.17E-04	4.55E-06	9.87E-05	4.23E-06	3.91E-05	8.49E-06
Los Angele	2017 Annual	LDA	0	0	1.17E-04	0	1.103916	0.00E+00	1.13E-04	3.83E-04	7.60E-06	9.87E-05	6.99E-06	3.91E-05	6.68E-06
Los Angele	2017 Annual	LDA	0	0.001287503	0.041775318	445.5945	0	6.70E-05	1.17E-03	1.08E-04	5.64E-06	9.87E-05	5.23E-06	3.91E-05	8.47E-06
Los Angele	2017 Annual	LDA	0	0	1.19E-04	0	1.12539	0.00E+00	1.05E-04	3.57E-04	7.10E-06	9.87E-05	6.53E-06	3.91E-05	6.68E-06
Los Angele	2017 Annual	LDA	0	0.001309002	0.046333948	494.2189	0	5.89E-05	1.08E-03	9.90E-05	6.37E-06	9.87E-05	5.91E-06	3.91E-05	8.45E-06
Los Angele	2017 Annual	LDA	0	0	1.16E-04	0	1.090113	0.00E+00	9.56E-05	3.30E-04	6.56E-06	9.87E-05	6.03E-06	3.91E-05	6.68E-06
Los Angele	2017 Annual	LDA	0	0.001323484	0.053555165	571.2437	0	4.97E-05	9.93E-04	8.96E-05	6.72E-06	9.87E-05	6.24E-06	3.91E-05	8.42E-06
Los Angele	2017 Annual	LDA	0	0	1.30E-04	0	1.22155	9.23E-06	8.55E-05	3.00E-04	5.97E-06	9.87E-05	5.49E-06	3.91E-05	6.68E-06
Los Angele	2017 Annual	LDT1	0	6.23E-05	0.001639368	17.48624	0	2.24E-04	2.21E-03	1.51E-04	7.10E-07	9.87E-05	6.59E-07	3.91E-05	9.92E-06
Los Angele	2017 Annual	LDT1	0	0	0	0	0	0	0	0	0	0	0	0	0
Los Angele	2017 Annual	LDT1	0	1.28E-04	0.003418967	36.46825	0	1.91E-04	1.96E-03	1.45E-04	7.31E-07	9.87E-05	6.79E-07	3.91E-05	9.90E-06
Los Angele	2017 Annual	LDT1	0	0	0	0	0	0	0	0	0	0	0	0	0
Los Angele	2017 Annual	LDT1	0	1.14E-04	0.00310902	33.16222	0	1.65E-04	1.89E-03	1.48E-04	9.98E-07	9.87E-05	9.26E-07	3.91E-05	9.91E-06
Los Angele	2017 Annual	LDT1	0	0	0	0	0	0	0	0	0	0	0	0	0
Los Angele	2017 Annual	LDT1	0	1.25E-04	0.003464843	36.95759	0	1.38E-04	1.79E-03	1.52E-04	1.03E-06	9.87E-05	9.55E-07	3.91E-05	9.90E-06
Los Angele	2017 Annual	LDT1	0	0	3.83E-06	0	0.036078691	1.83E-05	1.71E-04	5.70E-04	9.42E-06	9.87E-05	8.67E-06	3.91E-05	6.68E-06
Los Angele	2017 Annual	LDT1	0	1.17E-04	0.0033423	35.65047	0	1.08E-04	1.71E-03	1.46E-04	1.60E-06	9.87E-05	1.49E-06	3.91E-05	9.89E-06
Los Angele	2017 Annual	LDT1	0	0	5.48E-06	0	0.051653489	1.74E-05	1.62E-04	5.45E-04	9.01E-06	9.87E-05	8.29E-06	3.91E-05	6.68E-06
Los Angele	2017 Annual	LDT1	0	1.13E-04	0.003308457	35.2895	0	2.29E-05	1.58E-03	1.35E-04	2.15E-06	9.87E-05	1.99E-06	3.91E-05	9.88E-06
Los Angele	2017 Annual	LDT1	0	0	4.02E-06	0	0.037886549	1.65E-05	1.53E-04	5.18E-04	8.56E-06	9.87E-05	7.88E-06	3.91E-05	6.68E-06
Los Angele	2017 Annual	LDT1	0	1.14E-04	0.003463928	36.94783	0	7.96E-05	1.38E-03	1.27E-04	3.37E-06	9.87E-05	3.12E-06	3.91E-05	9.87E-06
Los Angele	2017 Annual	LDT1	0	0	5.47E-06	0	0.051542908	1.55E-05	1.44E-04	4.89E-04	8.10E-06	9.87E-05	7.45E-06	3.91E-05	6.68E-06
Los Angele	2017 Annual	LDT1	0	1.15E-04	0.003619251	38.60458	0	6.94E-05	1.25E-03	1.16E-04	4.51E-06	9.87E-05	4.18E-06	3.91E-05	9.86E-06
Los Angele	2017 Annual	LDT1	0	0	5.24E-06	0	0.049378611	1.45E-05	1.34E-04	4.59E-04	7.61E-06	9.87E-05	7.00E-06	3.91E-05	6.68E-06
Los Angele	2017 Annual	LDT1	0	1.20E-04	0.003974076	42.38928	0	6.17E-05	1.16E-03	1.07E-04	5.61E-06	9.87E-05	5.20E-06	3.91E-05	9.84E-06
Los Angele	2017 Annual	LDT1	0	0	5.50E-06	0	0.051877625	1.34E-05	1.23E-04	4.28E-04	7.08E-06	9.87E-05	6.52E-06	3.91E-05	6.68E-06
Los Angele	2017 Annual	LDT1	0	1.21E-04	0.004282579	45.67994	0	5.42E-05	1.07E-03	9.86E-05	6.37E-06	9.87E-05	5.91E-06	3.91E-05	9.82E-06
Los Angele	2017 Annual	LDT1	0	0	7.21E-06	0	0.067963697	1.22E-05	1.12E-04	3.94E-04	6.53E-06	9.87E-05	6.01E-06	3.91E-05	6.68E-06
Los Angele	2017 Annual	LDT1	0	1.22E-04	0.004767239	50.84953	0	4.61E-05	9.94E-04	8.94E-05	6.77E-06	9.87E-05	6.28E-06	3.91E-05	9.80E-06
Los Angele	2017 Annual	LDT1	0	0	5.36E-06	0	0.050518107	1.09E-05	1.00E-04	3.58E-04	5.94E-06	9.87E-05	5.47E-06	3.91E-05	6.68E-06
Los Angele	2017 Annual	T6 instate heavy	4.25E-06	0	3.79E-04	0	3.570613447	4.61E-04	1.98E-03	1.07E-02	1.32E-04	3.14E-04	1.21E-04	1.30E-04	2.48E-05
Los Angele	2017 Annual	T6 instate heavy	4.03E-06	0	3.55E-04	0	3.346487776	4.41E-04	1.90E-03	9.81E-03	1.26E-04	3.14E-04	1.16E-04	1.30E-04	2.48E-05
Los Angele	2017 Annual	T6 instate heavy	1.51E-06	0	1.52E-04	0	1.432642419	4.19E-04	1.80E-03	8.52E-03	1.20E-04	3.14E-04	1.11E-04	1.30E-04	2.47E-05
Los Angele	2017 Annual	T6 instate heavy	7.43E-06	0	4.77E-04	0	4.504178348	2.57E-04	1.15E-03	3.59E-03	1.14E-04	3.14E-04	1.05E-04	1.30E-04	2.40E-05
Los Angele	2017 Annual	T6 instate heavy	4.43E-06	0	3.97E-04	0	3.744640784	2.42E-04	1.07E-03	3.10E-03	1.07E-04	3.14E-04	9.85E-05	1.30E-04	2.39E-05
Los Angele	2017 Annual	T6 instate heavy	3.45E-06	0	3.99E-04	0	3.76042042	2.27E-04	9.92E-04	2.53E-03	9.98E-05	3.14E-04	9.18E-05	1.30E-04	2.39E-05
Los Angele	2017 Annual	T6 instate heavy	3.62E-06	0	4.37E-04	0	4.125728719	1.88E-04	8.25E-04	2.07E-03	7.85E-05	3.14E-04	7.22E-05	1.30E-04	2.38E-05
Los Angele	2017 Annual	T6 instate heavy	3.99E-06	0	5.00E-04	0	4.716429865	1.78E-04	7.84E-04	1.90E-03	7.31E-05	3.14E-04	6.73E-05	1.30E-04	2.38E-05
Los Angele	2017 Annual	T6 instate heavy	4.44E-06	0	5.66E-04	0	5.337238529	1.69E-04	7.43E-04	1.72E-03	6.75E-05	3.14E-04	6.21E-05	1.30E-04	2.38E-05
Los Angele	2017 Annual	T6 instate heavy	4.95E-06	0	6.28E-04	0	5.92835746	1.59E-04	7.03E-04	1.54E-03	6.18E-05	3.14E-04	5.69E-05	1.30E-04	2.38E-05
Los Angele	2017 Annual	T6 instate heavy	4.62E-06	0	5.87E-04	0	5.534953395	1.49E-04	6.63E-04	1.37E-03	5.62E-05	3.14E-04	5.17E-05	1.30E-04	2.38E-05
Los Angele	2017 Annual	T6 instate heavy	1.16E-06	0	6.20E-05	0	0.584530729	1.47E-04	7.14E-04	1.33E-03	5.08E-05	3.14E-04	4.68E-05	1.30E-04	2.41E-05
Los Angele	2017 Annual	LDA/LDT1	0	0.014530221	0.427869907	4551.76843	10.68178144	1.00E-04	1.46E-03	1.25E-04	3.64E-06	9.87E-05	3.38E-06	3.91E-05	8.60E-06
Los Angele	2017 Annual	T6 instate heavy	4.78596E-05	0	0.004938382	0	46.58622189	2.35E-04	1.03E-03	3.49E-03	8.75E-05	3.14E-04	8.05E-05	1.30E-04	2.40E-05

Los Angele	2017 Annual	LDA	4.05E-04
Los Angele	2017 Annual	LDA	3.32E-04
Los Angele	2017 Annual	LDA	3.91E-04
Los Angele	2017 Annual	LDA	3.21E-04
Los Angele	2017 Annual	LDA	3.46E-04
Los Angele	2017 Annual	LDA	2.85E-04
Los Angele	2017 Annual	LDA	3.02E-04
Los Angele	2017 Annual	LDA	2.48E-04
Los Angele	2017 Annual	LDA	2.94E-04
Los Angele	2017 Annual	LDA	2.42E-04
Los Angele	2017 Annual	LDA	2.87E-04
Los Angele	2017 Annual	LDA	0.00E+00
Los Angele	2017 Annual	LDA	2.75E-04
Los Angele	2017 Annual	LDA	0.00E+00
Los Angele	2017 Annual	LDA	2.64E-04
Los Angele	2017 Annual	LDA	0.00E+00
Los Angele	2017 Annual	LDA	2.63E-04
Los Angele	2017 Annual	LDA	2.18E-04
Los Angele	2017 Annual	LDT1	4.70E-04
Los Angele	2017 Annual	LDT1	
Los Angele	2017 Annual	LDT1	4.70E-04
Los Angele	2017 Annual	LDT1	
Los Angele	2017 Annual	LDT1	4.70E-04
Los Angele	2017 Annual	LDT1	
Los Angele	2017 Annual	LDT1	4.53E-04
Los Angele	2017 Annual	LDT1	3.21E-04
Los Angele	2017 Annual	LDT1	4.02E-04
Los Angele	2017 Annual	LDT1	2.85E-04
Los Angele	2017 Annual	LDT1	3.50E-04
Los Angele	2017 Annual	LDT1	2.48E-04
Los Angele	2017 Annual	LDT1	3.41E-04
Los Angele	2017 Annual	LDT1	2.42E-04
Los Angele	2017 Annual	LDT1	3.33E-04
Los Angele	2017 Annual	LDT1	2.37E-04
Los Angele	2017 Annual	LDT1	3.19E-04
Los Angele	2017 Annual	LDT1	2.27E-04
Los Angele	2017 Annual	LDT1	3.07E-04
Los Angele	2017 Annual	LDT1	2.18E-04
Los Angele	2017 Annual	LDT1	3.06E-04
Los Angele	2017 Annual	LDT1	2.18E-04
Los Angele	2017 Annual	T6 instate heavy	1.23E-03
Los Angele	2017 Annual	T6 instate heavy	1.23E-03
Los Angele	2017 Annual	T6 instate heavy	1.23E-03
Los Angele	2017 Annual	T6 instate heavy	1.20E-03
Los Angele	2017 Annual	T6 instate heavy	1.19E-03
Los Angele	2017 Annual	T6 instate heavy	1.19E-03
Los Angele	2017 Annual	T6 instate heavy	1.19E-03
Los Angele	2017 Annual	T6 instate heavy	1.19E-03
Los Angele	2017 Annual	T6 instate heavy	1.18E-03
Los Angele	2017 Annual	T6 instate heavy	1.18E-03
Los Angele	2017 Annual	T6 instate heavy	1.18E-03
Los Angele	2017 Annual	T6 instate heavy	1.18E-03
Los Angele	2017 Annual	T6 instate heavy	1.20E-03
Los Angele	2017 Annual	LDA/LDT1	3.21E-04
Los Angele	2017 Annual	T6 instate heavy	1.20E-03

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Area	CalYr	Season	Veh	Fuel	MdlYr	Speed (Miles/hr)	Pop (Vehicles)	VMT (Miles/day)	Trips (Trips/day)	ROG_RUNEX (Tons/day)	ROG_IDLEX (Tons/day)	ROG_STREX (Tons/day)	ROG_TOTEX (Tons/day)
Los Angele	2018	Annual	LDA	GAS	2007	AllSpeeds	188971.3	5253109.497	1182842	0.071010863	0	0.074762635	0.145773498
Los Angele	2018	Annual	LDA	DSL	2007	AllSpeeds	0	0	0	0	0	0	0
Los Angele	2018	Annual	LDA	GAS	2008	AllSpeeds	195960.2	5614012.865	1236386	0.070100561	0	0.069404714	0.139505275
Los Angele	2018	Annual	LDA	DSL	2008	AllSpeeds	21.41174	613.4248616	135.0945	5.26E-06	0	0	5.26E-06
Los Angele	2018	Annual	LDA	GAS	2009	AllSpeeds	170594.6	5046660.7	1083167	0.063620148	0	0.061159618	0.124779766
Los Angele	2018	Annual	LDA	DSL	2009	AllSpeeds	706.7727	20908.32187	4487.558	1.73E-04	0	0	1.73E-04
Los Angele	2018	Annual	LDA	GAS	2010	AllSpeeds	217647.2	6663178.925	1390627	0.083407315	0	0.077237889	0.160645204
Los Angele	2018	Annual	LDA	DSL	2010	AllSpeeds	1271.528	38927.35531	8124.251	3.10E-04	0	0	3.10E-04
Los Angele	2018	Annual	LDA	GAS	2011	AllSpeeds	218163.9	6931148.681	1400472	0.084430942	0	0.075734407	0.160165349
Los Angele	2018	Annual	LDA	DSL	2011	AllSpeeds	1217.972	38695.48323	7818.599	2.96E-04	0	0	2.96E-04
Los Angele	2018	Annual	LDA	GAS	2012	AllSpeeds	228290.1	7550261.367	1470042	0.089223456	0	0.077155232	0.166378688
Los Angele	2018	Annual	LDA	DSL	2012	AllSpeeds	1117.107	36946.24106	7193.447	2.69E-04	0	0	2.69E-04
Los Angele	2018	Annual	LDA	GAS	2013	AllSpeeds	228974.6	7918709.01	1481318	0.088723261	0	0.074264698	0.162987959
Los Angele	2018	Annual	LDA	DSL	2013	AllSpeeds	1037.128	35867.42576	6709.547	2.48E-04	0	0	2.48E-04
Los Angele	2018	Annual	LDA	GAS	2014	AllSpeeds	232359.3	8450312.569	1507861	0.085039035	0	0.069673523	0.154712558
Los Angele	2018	Annual	LDA	DSL	2014	AllSpeeds	909.1592	33063.85715	5899.854	2.15E-04	0	0	2.15E-04
Los Angele	2018	Annual	LDA	GAS	2015	AllSpeeds	236455.9	9115187.293	1536809	0.085533426	0	0.066618808	0.152152234
Los Angele	2018	Annual	LDA	DSL	2015	AllSpeeds	857.937	33072.87389	5576.033	2.01E-04	0	0	2.01E-04
Los Angele	2018	Annual	LDA	GAS	2016	AllSpeeds	237494.1	9823971.358	1548307	0.087308303	0	0.06322065	0.150528953
Los Angele	2018	Annual	LDA	DSL	2016	AllSpeeds	763.4277	31579.36055	4977.051	1.78E-04	0	0	1.78E-04
Los Angele	2018	Annual	LDA	GAS	2017	AllSpeeds	244079.2	1.11E+07	1596119	0.092249195	0	0.0605537	0.152802895
Los Angele	2018	Annual	LDA	DSL	2017	AllSpeeds	744.0703	33731.68023	4865.734	1.74E-04	0	0	1.74E-04
Los Angele	2018	Annual	LDA	GAS	2018	AllSpeeds	244485.3	1.27E+07	1603663	0.096985443	0	0.054706968	0.151692411
Los Angele	2018	Annual	LDA	DSL	2018	AllSpeeds	688.707	35896.48375	4517.466	1.66E-04	0	0	1.66E-04
Los Angele	2018	Annual	LDT1	GAS	2007	AllSpeeds	9736.122	310638.3146	60942.04	0.0043025	0	0.003936316	0.008238816
Los Angele	2018	Annual	LDT1	DSL	2007	AllSpeeds	0	0	0	0	0	0	0
Los Angele	2018	Annual	LDT1	GAS	2008	AllSpeeds	20045.01	652374.1292	126471.4	0.008309034	0	0.007221392	0.015530427
Los Angele	2018	Annual	LDT1	DSL	2008	AllSpeeds	0	0	0	0	0	0	0
Los Angele	2018	Annual	LDT1	GAS	2009	AllSpeeds	17876.36	594421.7934	113503.5	0.007572104	0	0.006447093	0.014019197
Los Angele	2018	Annual	LDT1	DSL	2009	AllSpeeds	0	0	0	0	0	0	0
Los Angele	2018	Annual	LDT1	GAS	2010	AllSpeeds	19549.09	665310.3861	124906.2	0.008448289	0	0.007026526	0.015474815
Los Angele	2018	Annual	LDT1	DSL	2010	AllSpeeds	31.35796	1067.202432	200.3573	1.02E-05	0	0	1.02E-05
Los Angele	2018	Annual	LDT1	GAS	2011	AllSpeeds	18455.1	644195.9544	118469.9	0.007944195	0	0.006475439	0.014419634
Los Angele	2018	Annual	LDT1	DSL	2011	AllSpeeds	44.73902	1561.671088	287.1958	1.43E-05	0	0	1.43E-05
Los Angele	2018	Annual	LDT1	GAS	2012	AllSpeeds	17737.64	636635.6485	114219	0.007594313	0	0.006043039	0.013637352
Los Angele	2018	Annual	LDT1	DSL	2012	AllSpeeds	32.31297	1159.774651	208.0747	1.01E-05	0	0	1.01E-05
Los Angele	2018	Annual	LDT1	GAS	2013	AllSpeeds	17981.88	665925.5799	116331.1	0.007508308	0	0.005862395	0.013370703
Los Angele	2018	Annual	LDT1	DSL	2013	AllSpeeds	41.39669	1533.05576	267.8098	1.26E-05	0	0	1.26E-05
Los Angele	2018	Annual	LDT1	GAS	2014	AllSpeeds	18052.82	692850.96	117151.1	0.006970128	0	0.005413476	0.012383604
Los Angele	2018	Annual	LDT1	DSL	2014	AllSpeeds	39.16486	1503.118718	254.1545	1.16E-05	0	0	1.16E-05
Los Angele	2018	Annual	LDT1	GAS	2015	AllSpeeds	18876.02	755563.518	122681.9	0.007072169	0	0.005306954	0.012379123
Los Angele	2018	Annual	LDT1	DSL	2015	AllSpeeds	39.06543	1563.706577	253.8999	1.13E-05	0	0	1.13E-05
Los Angele	2018	Annual	LDT1	GAS	2016	AllSpeeds	18902.67	796945.6632	123233.1	0.007057078	0	0.005014803	0.012071881
Los Angele	2018	Annual	LDT1	DSL	2016	AllSpeeds	47.77551	2014.248902	311.4652	1.35E-05	0	0	1.35E-05
Los Angele	2018	Annual	LDT1	GAS	2017	AllSpeeds	19351.97	874006.6403	126549.2	0.007251995	0	0.004778161	0.012030156
Los Angele	2018	Annual	LDT1	DSL	2017	AllSpeeds	31.89508	1440.50792	208.573	8.78E-06	0	0	8.78E-06
Los Angele	2018	Annual	LDT1	GAS	2018	AllSpeeds	19132.59	962088.0295	125497.2	0.007279848	0	0.00425549	0.011535338
Los Angele	2018	Annual	LDT1	DSL	2018	AllSpeeds	33.24561	1671.775312	218.0694	9.15E-06	0	0	9.15E-06
Los Angele	2018	Annual	T6 instate heavy	DSL	2007	AllSpeeds	506.8503728	26889.32208	0	0.006347998	1.17E-04	0	0.006465276

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Los Angele	2018	Annual	LDA	0.028243029	0.1053573	0.2777609	0.033734974	0.590869701	0.132160207	0	0.079823442	0.211983649
Los Angele	2018	Annual	LDA	0	0	0	0	0	0	0	0	0
Los Angele	2018	Annual	LDA	0.025273334	0.09235274	0.2679247	0.029611172	0.554667221	0.130466015	0	0.074102812	0.204568827
Los Angele	2018	Annual	LDA	0	0	0	0	5.26E-06	5.99E-06	0	0	5.99E-06
Los Angele	2018	Annual	LDA	0.018607795	0.065832049	0.2157498	0.021248268	0.446217678	0.118405141	0	0.065299608	0.183704749
Los Angele	2018	Annual	LDA	0	0	0	0	1.73E-04	1.97E-04	0	0	1.97E-04
Los Angele	2018	Annual	LDA	0.019818004	0.067006648	0.2536105	0.021885766	0.522966122	0.155231574	0	0.082466245	0.237697819
Los Angele	2018	Annual	LDA	0	0	0	0	3.10E-04	3.53E-04	0	0	3.53E-04
Los Angele	2018	Annual	LDA	0.016152024	0.050942563	0.2272653	0.017091081	0.471616317	0.157136675	0	0.080860995	0.23799767
Los Angele	2018	Annual	LDA	0	0	0	0	2.96E-04	3.37E-04	0	0	3.37E-04
Los Angele	2018	Annual	LDA	0.013045394	0.03657575	0.1956868	0.013085766	0.424772398	0.166056143	0	0.082377978	0.248434121
Los Angele	2018	Annual	LDA	0	0	0	0	2.69E-04	3.07E-04	0	0	3.07E-04
Los Angele	2018	Annual	LDA	0.010836174	0.026678938	0.1804356	0.010076465	0.391015136	0.165125217	0	0.079291806	0.244417023
Los Angele	2018	Annual	LDA	0	0	0	0	2.48E-04	2.82E-04	0	0	2.82E-04
Los Angele	2018	Annual	LDA	0.009397251	0.019853678	0.1701393	0.008057274	0.36216006	0.158268405	0	0.074389838	0.232658243
Los Angele	2018	Annual	LDA	0	0	0	0	2.15E-04	2.45E-04	0	0	2.45E-04
Los Angele	2018	Annual	LDA	0.00830208	0.014701398	0.1619088	0.006542518	0.34360703	0.159188526	0	0.071128339	0.230316865
Los Angele	2018	Annual	LDA	0	0	0	0	2.01E-04	2.29E-04	0	0	2.29E-04
Los Angele	2018	Annual	LDA	0.007602976	0.011401272	0.1540777	0.00557421	0.32918511	0.162491805	0	0.067500152	0.229991957
Los Angele	2018	Annual	LDA	0	0	0	0	1.78E-04	2.02E-04	0	0	2.02E-04
Los Angele	2018	Annual	LDA	0.007307047	0.009384989	0.1512131	0.005041878	0.325749909	0.171687428	0	0.064652666	0.236340094
Los Angele	2018	Annual	LDA	0	0	0	0	1.74E-04	1.98E-04	0	0	1.98E-04
Los Angele	2018	Annual	LDA	0.006885804	0.007676743	0.1451754	0.004517772	0.315948131	0.18050219	0	0.058410179	0.238912369
Los Angele	2018	Annual	LDA	0	0	0	0	1.66E-04	1.89E-04	0	0	1.89E-04
Los Angele	2018	Annual	LDT1	0.001894296	0.005507676	0.02054478	0.002262646	0.038448214	0.008007496	0	0.004202773	0.012210269
Los Angele	2018	Annual	LDT1	0	0	0	0	0	0	0	0	0
Los Angele	2018	Annual	LDT1	0.00336203	0.009597243	0.037298985	0.00393908	0.069727764	0.015464164	0	0.007710221	0.023174385
Los Angele	2018	Annual	LDT1	0	0	0	0	0	0	0	0	0
Los Angele	2018	Annual	LDT1	0.002535555	0.00702981	0.028933959	0.002895357	0.055413878	0.014092644	0	0.006883507	0.020976151
Los Angele	2018	Annual	LDT1	0	0	0	0	0	0	0	0	0
Los Angele	2018	Annual	LDT1	0.002313426	0.006156229	0.027344847	0.002554805	0.053844122	0.015723336	0	0.007502162	0.023225498
Los Angele	2018	Annual	LDT1	0	0	0	0	1.02E-05	1.16E-05	0	0	1.16E-05
Los Angele	2018	Annual	LDT1	0.001775558	0.004432006	0.021178249	0.001878786	0.043684233	0.014785154	0	0.006913772	0.021698926
Los Angele	2018	Annual	LDT1	0	0	0	0	1.43E-05	1.63E-05	0	0	1.63E-05
Los Angele	2018	Annual	LDT1	0.001317131	0.002941907	0.014804063	0.001321207	0.03402166	0.014133978	0	0.006452103	0.02058608
Los Angele	2018	Annual	LDT1	0	0	0	0	1.01E-05	1.15E-05	0	0	1.15E-05
Los Angele	2018	Annual	LDT1	0.001105728	0.002197237	0.013225976	0.001028206	0.030927849	0.013973912	0	0.00625923	0.020233143
Los Angele	2018	Annual	LDT1	0	0	0	0	1.26E-05	1.44E-05	0	0	1.44E-05
Los Angele	2018	Annual	LDT1	9.49E-04	0.00164562	0.011775794	8.13E-04	0.027567067	0.01297229	0	0.005779924	0.018752214
Los Angele	2018	Annual	LDT1	0	0	0	0	1.16E-05	1.33E-05	0	0	1.33E-05
Los Angele	2018	Annual	LDT1	8.61E-04	0.001280516	0.011091232	6.79E-04	0.02629052	0.013162202	0	0.005666191	0.018828393
Los Angele	2018	Annual	LDT1	0	0	0	0	1.13E-05	1.29E-05	0	0	1.29E-05
Los Angele	2018	Annual	LDT1	7.86E-04	0.001015036	0.0101047405	5.76E-04	0.024597005	0.013134116	0	0.005354263	0.018488379
Los Angele	2018	Annual	LDT1	0	0	0	0	1.35E-05	1.53E-05	0	0	1.53E-05
Los Angele	2018	Annual	LDT1	7.53E-04	8.55E-04	0.009527287	5.19E-04	0.023684333	0.013496882	0	0.005101603	0.018598485
Los Angele	2018	Annual	LDT1	0	0	0	0	8.78E-06	1.00E-05	0	0	1.00E-05
Los Angele	2018	Annual	LDT1	7.00E-04	7.09E-04	0.008993487	4.59E-04	0.022397499	0.013548718	0	0.004543553	0.018092271
Los Angele	2018	Annual	LDT1	0	0	0	0	9.15E-06	1.04E-05	0	0	1.04E-05
Los Angele	2018	Annual	T6 instate heavy	0	0	0	0	0.006465276	0.007226713	1.34E-04	0	0.007360224

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Los Angele	2018	Annual	LDA	0.028243029	0.1053573	0.2777609	0.033734974	0.657079852	4.49709218	0	1.441801	5.93889318
Los Angele	2018	Annual	LDA	0	0	0	0	0	0	0	0	0
Los Angele	2018	Annual	LDA	0.025273334	0.09235274	0.2679247	0.029611172	0.619730773	4.359309293	0	1.327114	5.686423293
Los Angele	2018	Annual	LDA	0	0	0	0	5.99E-06	4.94E-05	0	0	4.94E-05
Los Angele	2018	Annual	LDA	0.018607795	0.065832049	0.2157498	0.021248268	0.505142661	3.832268219	0	1.123851	4.956119219
Los Angele	2018	Annual	LDA	0	0	0	0	1.97E-04	0.001625303	0	0	0.001625303
Los Angele	2018	Annual	LDA	0.019818004	0.067006648	0.2536105	0.021885766	0.600018737	4.860648129	0	1.363387	6.224035129
Los Angele	2018	Annual	LDA	0	0	0	0	3.53E-04	0.00291097	0	0	0.00291097
Los Angele	2018	Annual	LDA	0.016152024	0.050942563	0.2272653	0.017091081	0.549448638	4.917954907	0	1.327426	6.245380907
Los Angele	2018	Annual	LDA	0	0	0	0	3.37E-04	0.00277224	0	0	0.00277224
Los Angele	2018	Annual	LDA	0.013045394	0.03657575	0.1956868	0.013085766	0.506827831	5.155603498	0	1.330645	6.486248498
Los Angele	2018	Annual	LDA	0	0	0	0	3.07E-04	0.0025239	0	0	0.0025239
Los Angele	2018	Annual	LDA	0.010836174	0.026678938	0.1804356	0.010076465	0.4724442	5.064011751	0	1.239933	6.303944751
Los Angele	2018	Annual	LDA	0	0	0	0	2.82E-04	0.002318034	0	0	0.002318034
Los Angele	2018	Annual	LDA	0.009397251	0.019853678	0.1701393	0.008057274	0.440105746	4.815564347	0	1.094861	5.910425347
Los Angele	2018	Annual	LDA	0	0	0	0	2.45E-04	0.002009443	0	0	0.002009443
Los Angele	2018	Annual	LDA	0.00830208	0.014701398	0.1619088	0.006542518	0.421771661	4.764826212	0	1.002413	5.767239212
Los Angele	2018	Annual	LDA	0	0	0	0	2.29E-04	0.001875981	0	0	0.001875981
Los Angele	2018	Annual	LDA	0.007602976	0.011401272	0.1540777	0.00557421	0.408648115	4.797743701	0	0.9305528	5.728296501
Los Angele	2018	Annual	LDA	0	0	0	0	2.02E-04	0.001655629	0	0	0.001655629
Los Angele	2018	Annual	LDA	0.007307047	0.009384989	0.1512131	0.005041878	0.409287107	5.069189676	0	0.8916906	5.960880276
Los Angele	2018	Annual	LDA	0	0	0	0	1.98E-04	0.001613007	0	0	0.001613007
Los Angele	2018	Annual	LDA	0.006885804	0.007676743	0.1451754	0.004517772	0.403168089	5.487835641	0	0.8402358	6.328071441
Los Angele	2018	Annual	LDA	0	0	0	0	1.89E-04	0.001533983	0	0	0.001533983
Los Angele	2018	Annual	LDT1	0.001894296	0.005507676	0.02054478	0.002262646	0.042419667	0.273713641	0	0.076830767	0.350544408
Los Angele	2018	Annual	LDT1	0	0	0	0	0	0	0	0	0
Los Angele	2018	Annual	LDT1	0.00336203	0.009597243	0.037298985	0.00393908	0.077371722	0.518584895	0	0.1396119	0.658196795
Los Angele	2018	Annual	LDT1	0	0	0	0	0	0	0	0	0
Los Angele	2018	Annual	LDT1	0.002535555	0.00702981	0.028933959	0.002895357	0.062370832	0.458135768	0	0.1199447	0.578080468
Los Angele	2018	Annual	LDT1	0	0	0	0	0	0	0	0	0
Los Angele	2018	Annual	LDT1	0.002313426	0.006156229	0.027344847	0.002554805	0.061594805	0.493596956	0	0.1250998	0.618696756
Los Angele	2018	Annual	LDT1	0	0	0	0	1.16E-05	9.52E-05	0	0	9.52E-05
Los Angele	2018	Annual	LDT1	0.001775558	0.004432006	0.021178249	0.001878786	0.050963525	0.463053732	0	0.1142041	0.577257832
Los Angele	2018	Annual	LDT1	0	0	0	0	1.63E-05	1.33E-04	0	0	1.33E-04
Los Angele	2018	Annual	LDT1	0.001317131	0.002941907	0.014804063	0.001321207	0.040970389	0.438908915	0	0.1047504	0.543659315
Los Angele	2018	Annual	LDT1	0	0	0	0	1.15E-05	9.41E-05	0	0	9.41E-05
Los Angele	2018	Annual	LDT1	0.001105728	0.002197237	0.013225976	0.001028206	0.037790289	0.428381828	0	0.098240256	0.526622084
Los Angele	2018	Annual	LDT1	0	0	0	0	1.44E-05	1.17E-04	0	0	1.17E-04
Los Angele	2018	Annual	LDT1	9.49E-04	0.00164562	0.011775794	8.13E-04	0.033935677	0.394531147	0	0.085114121	0.479645268
Los Angele	2018	Annual	LDT1	0	0	0	0	1.33E-05	1.08E-04	0	0	1.08E-04
Los Angele	2018	Annual	LDT1	8.61E-04	0.001280516	0.011091232	6.79E-04	0.03273979	0.393628498	0	0.079814114	0.473442612
Los Angele	2018	Annual	LDT1	0	0	0	0	1.29E-05	1.05E-04	0	0	1.05E-04
Los Angele	2018	Annual	LDT1	7.86E-04	0.001015036	0.0101047405	5.76E-04	0.031013503	0.387473866	0	0.073786564	0.46126043
Los Angele	2018	Annual	LDT1	0	0	0	0	1.53E-05	1.24E-04	0	0	1.24E-04
Los Angele	2018	Annual	LDT1	7.53E-04	8.55E-04	0.009527287	5.19E-04	0.030252661	0.398498584	0	0.070426501	0.468925085
Los Angele	2018	Annual	LDT1	0	0	0	0	1.00E-05	8.07E-05	0	0	8.07E-05
Los Angele	2018	Annual	LDT1	7.00E-04	7.09E-04	0.008993487	4.59E-04	0.028954432	0.412667904	0	0.065577284	0.478245188
Los Angele	2018	Annual	LDT1	0	0	0	0	1.04E-05	8.37E-05	0	0	8.37E-05
Los Angele	2018	Annual	T6 instate heavy	0	0	0	0	0.007360224	0.026416283	0.001386811	0	0.027803094

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Area	CalYr	Season	Veh	NOX_RUNEX (Tons/day)	NOX_IDLEX (Tons/day)	NOX_STREX (Tons/day)	NOX_TOTEX (Tons/day)	CO2_RUNEX (Tons/day)	CO2_IDLEX (Tons/day)	CO2_STREX (Tons/day)	CO2_TOTEX (Tons/day)	CO2_RUNEX(Pavt) (Tons/day)
Los Angele	2018	Annual	LDA	0.331907657	0	0.069422826	0.401330483	2148.246332	0	96.70729	2244.953622	2008.61032
Los Angele	2018	Annual	LDA	0	0	0	0	0	0	0	0	0
Los Angele	2018	Annual	LDA	0.343624475	0	0.069302768	0.412927243	2296.139748	0	101.0983	2397.238048	2146.890664
Los Angele	2018	Annual	LDA	1.61E-04	0	0	1.61E-04	0.21468343	0	0	0.21468343	0.200729007
Los Angele	2018	Annual	LDA	0.321023379	0	0.064081594	0.385104973	2067.791248	0	88.72925	2156.520498	1933.384817
Los Angele	2018	Annual	LDA	0.00530217	0	0	0.00530217	7.317390454	0	0	7.317390454	6.841760075
Los Angele	2018	Annual	LDA	0.434014693	0	0.084974065	0.518988758	2729.966105	0	113.9081	2843.874205	2463.180167
Los Angele	2018	Annual	LDA	0.009531423	0	0	0.009531423	13.62360561	0	0	13.62360561	12.29223875
Los Angele	2018	Annual	LDA	0.444388349	0	0.083510555	0.527898904	2840.658626	0	114.7153	2955.373926	2273.549538
Los Angele	2018	Annual	LDA	0.00911564	0	0	0.00911564	13.54245641	0	0	13.54245641	10.83884041
Los Angele	2018	Annual	LDA	0.469125112	0	0.083763883	0.552888995	3095.215342	0	120.4081	3215.623442	2161.83768
Los Angele	2018	Annual	LDA	0.008339736	0	0	0.008339736	12.93026449	0	0	12.93026449	9.031078584
Los Angele	2018	Annual	LDA	0.461317984	0	0.077206425	0.538524409	3247.157746	0	121.3273	3368.485046	2210.275335
Los Angele	2018	Annual	LDA	0.007705332	0	0	0.007705332	12.55270612	0	0	12.55270612	8.544376002
Los Angele	2018	Annual	LDA	0.46728064	0	0.072452895	0.539733535	3466.07201	0	123.4958	3589.56781	2307.433458
Los Angele	2018	Annual	LDA	0.00672626	0	0	0.00672626	11.57152573	0	0	11.57152573	7.70339611
Los Angele	2018	Annual	LDA	0.468259146	0	0.065551557	0.533810703	3739.679455	0	125.8575	3865.536955	2388.177999
Los Angele	2018	Annual	LDA	0.006331764	0	0	0.006331764	11.57468344	0	0	11.57468344	7.391650721
Los Angele	2018	Annual	LDA	0.472255691	0	0.058711044	0.530966735	4031.423798	0	126.7894	4158.213198	2476.483482
Los Angele	2018	Annual	LDA	0.005644694	0	0	0.005644694	11.05199038	0	0	11.05199038	6.78918243
Los Angele	2018	Annual	LDA	0.495103594	0	0.052840624	0.547944218	4541.922152	0	130.6985	4672.620652	2790.080068
Los Angele	2018	Annual	LDA	0.005569637	0	0	0.005569637	11.80524783	0	0	11.80524783	7.291904716
Los Angele	2018	Annual	LDA	0.525764466	0	0.0450073	0.570771766	5231.939989	0	131.3079	5363.247889	3213.954575
Los Angele	2018	Annual	LDA	0.005387219	0	0	0.005387219	12.56287671	0	0	12.56287671	7.717312349
Los Angele	2018	Annual	LDT1	0.019958739	0	0.003663305	0.023622045	148.0292279	0	5.809238	153.8384659	138.4073281
Los Angele	2018	Annual	LDT1	0	0	0	0	0	0	0	0	0
Los Angele	2018	Annual	LDT1	0.040526861	0	0.007243571	0.047770433	310.6012378	0	12.045	322.6462378	290.4121573
Los Angele	2018	Annual	LDT1	0	0	0	0	0	0	0	0	0
Los Angele	2018	Annual	LDT1	0.038071025	0	0.006783707	0.044854732	283.4934941	0	10.82852	294.3220141	265.0664169
Los Angele	2018	Annual	LDT1	0	0	0	0	0	0	0	0	0
Los Angele	2018	Annual	LDT1	0.043848229	0	0.007766398	0.051614627	317.1061904	0	11.90898	329.0151704	286.116988
Los Angele	2018	Annual	LDT1	3.17E-04	0	0	3.17E-04	0.373494288	0	0	0.373494288	0.336994558
Los Angele	2018	Annual	LDT1	0.041685575	0	0.007163173	0.048848748	307.1032735	0	11.29413	318.3974035	245.793176
Los Angele	2018	Annual	LDT1	4.45E-04	0	0	4.45E-04	0.546545991	0	0	0.546545991	0.437433549
Los Angele	2018	Annual	LDT1	0.039815596	0	0.006574292	0.046389888	303.5686255	0	10.88807	314.4566955	212.0259887
Los Angele	2018	Annual	LDT1	3.16E-04	0	0	3.16E-04	0.405892237	0	0	0.405892237	0.283493404
Los Angele	2018	Annual	LDT1	0.038846982	0	0.006081145	0.044928127	317.5918026	0	11.08804	328.6798426	216.1783882
Los Angele	2018	Annual	LDT1	3.97E-04	0	0	3.97E-04	0.536531368	0	0	0.536531368	0.365206171
Los Angele	2018	Annual	LDT1	0.03830131	0	0.005631172	0.043932481	330.5186543	0	11.1657	341.6843543	220.0328785
Los Angele	2018	Annual	LDT1	3.68E-04	0	0	3.68E-04	0.526054138	0	0	0.526054138	0.350204761
Los Angele	2018	Annual	LDT1	0.038707407	0	0.005213708	0.043921115	360.4914967	0	11.69112	372.1826167	230.2116722
Los Angele	2018	Annual	LDT1	3.59E-04	0	0	3.59E-04	0.547258385	0	0	0.547258385	0.349481941
Los Angele	2018	Annual	LDT1	0.038156202	0	0.004644054	0.042800255	380.3295893	0	11.743	392.0725893	233.6345651
Los Angele	2018	Annual	LDT1	4.31E-04	0	0	4.31E-04	0.704936917	0	0	0.704936917	0.433039224
Los Angele	2018	Annual	LDT1	0.038919636	0	0.00415568	0.043075316	417.2306697	0	12.05896	429.2896297	256.3027142
Los Angele	2018	Annual	LDT1	2.84E-04	0	0	2.84E-04	0.504141906	0	0	0.504141906	0.309691852
Los Angele	2018	Annual	LDT1	0.039517968	0	0.003494239	0.043012207	459.3538604	0	11.95705	471.3109104	282.1787796
Los Angele	2018	Annual	LDT1	2.99E-04	0	0	2.99E-04	0.585079745	0	0	0.585079745	0.359411562
Los Angele	2018	Annual	T6 instate heavy	0.144062521	0.002095187	0	0.146157708	34.50400193	0.416676912	0	34.92067884	32.2612418

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Area	CalYr	Season	Veh	CO2_IDLEX(Pavle (Tons/day)	CO2_STREX(Pavk (Tons/day)	CO2_TOTEX(Pavh (Tons/day)	PM10_RUNEX (Tons/day)	PM10_IDLEX (Tons/day)	PM10_STREX (Tons/day)	PM10_TOTEX (Tons/day)	PM10_PMTW (Tons/day)	PM10_PMBW (Tons/day)
Los Angele	2018	Annual	LDA	0	90.42131615	2099.031636	0.001662626	0	2.33E-04	0.001896029	0.046324495	0.2128032
Los Angele	2018	Annual	LDA	0	0	0	0	0	0	0	0	0
Los Angele	2018	Annual	LDA	0	94.5269105	2241.417575	0.001777088	0	3.17E-04	0.002094288	0.049507111	0.2274233
Los Angele	2018	Annual	LDA	0	0	0.200729007	3.18E-06	0	0	3.18E-06	5.41E-06	2.48E-05
Los Angele	2018	Annual	LDA	0	82.96184875	2016.346666	0.002133812	0	4.40E-04	0.002573528	0.044503931	0.2044399
Los Angele	2018	Annual	LDA	0	0	6.841760075	1.05E-04	0	0	1.05E-04	1.84E-04	8.47E-04
Los Angele	2018	Annual	LDA	0	102.7764309	2565.956598	0.002817128	0	6.96E-04	0.003513584	0.05875919	0.269925
Los Angele	2018	Annual	LDA	0	0	12.29223875	1.89E-04	0	0	1.89E-04	3.43E-04	0.001576945
Los Angele	2018	Annual	LDA	0	91.81353751	2365.363075	0.004395659	0	0.0013068	0.005702459	0.06112228	0.2807805
Los Angele	2018	Annual	LDA	0	0	10.83884041	1.81E-04	0	0	1.81E-04	3.41E-04	0.001567552
Los Angele	2018	Annual	LDA	0	84.0984354	2245.936115	0.006384089	0	0.001929611	0.0083137	0.066581912	0.3058607
Los Angele	2018	Annual	LDA	0	0	9.031078584	1.65E-04	0	0	1.65E-04	3.26E-04	0.001496669
Los Angele	2018	Annual	LDA	0	82.58506656	2292.860401	0.010043085	0	0.003642715	0.0136858	0.069831066	0.3207865
Los Angele	2018	Annual	LDA	0	0	8.544376002	1.53E-04	0	0	1.53E-04	3.16E-04	0.001452988
Los Angele	2018	Annual	LDA	0	82.21362398	2389.647082	0.01428909	0	0.005245789	0.019534879	0.074519008	0.3423217
Los Angele	2018	Annual	LDA	0	0	7.70339611	1.33E-04	0	0	1.33E-04	2.92E-04	0.001339415
Los Angele	2018	Annual	LDA	0	80.37322879	2468.551227	0.019265303	0	0.00688514	0.026150443	0.080382183	0.3692558
Los Angele	2018	Annual	LDA	0	0	7.391650721	1.26E-04	0	0	1.26E-04	2.92E-04	0.001339781
Los Angele	2018	Annual	LDA	0	77.88609447	2554.369576	0.023876043	0	0.008093844	0.031969888	0.086632594	0.3979685
Los Angele	2018	Annual	LDA	0	0	6.78918243	1.12E-04	0	0	1.12E-04	2.78E-04	0.001279278
Los Angele	2018	Annual	LDA	0	80.28743506	2870.367503	0.029229429	0	0.009121468	0.038350897	0.097577095	0.4482448
Los Angele	2018	Annual	LDA	0	0	7.251904716	1.11E-04	0	0	1.11E-04	2.97E-04	0.001366469
Los Angele	2018	Annual	LDA	0	80.66178643	3294.616362	0.035005912	0	0.009558027	0.044563938	0.1123733	0.5162148
Los Angele	2018	Annual	LDA	0	0	7.717312349	1.07E-04	0	0	1.07E-04	3.17E-04	0.001454165
Los Angele	2018	Annual	LDT1	0	5.43163753	143.8389656	9.85E-05	0	1.20E-05	1.10E-04	0.002739361	0.012583943
Los Angele	2018	Annual	LDT1	0	0	0	0	0	0	0	0	0
Los Angele	2018	Annual	LDT1	0	11.262075	301.6742323	2.07E-04	0	3.25E-05	2.39E-04	0.005752957	0.026427647
Los Angele	2018	Annual	LDT1	0	0	0	0	0	0	0	0	0
Los Angele	2018	Annual	LDT1	0	10.1246662	275.1910831	2.51E-04	0	4.61E-05	2.97E-04	0.005241903	0.024079995
Los Angele	2018	Annual	LDT1	0	0	0	0	0	0	0	0	0
Los Angele	2018	Annual	LDT1	0	10.74517493	296.8621629	2.81E-04	0	6.25E-05	3.44E-04	0.005867032	0.026951686
Los Angele	2018	Annual	LDT1	0	0	0.336994558	5.24E-06	0	0	5.24E-06	9.41E-06	4.32E-05
Los Angele	2018	Annual	LDT1	0	9.039369887	254.8325459	4.08E-04	0	1.11E-04	5.19E-04	0.005680836	0.026096342
Los Angele	2018	Annual	LDT1	0	0	0.437433549	7.36E-06	0	0	7.36E-06	1.38E-05	6.33E-05
Los Angele	2018	Annual	LDT1	0	7.604718051	219.6307067	5.38E-04	0	1.50E-04	6.88E-04	0.005614165	0.02579008
Los Angele	2018	Annual	LDT1	0	0	0.283493404	5.22E-06	0	0	5.22E-06	1.02E-05	4.70E-05
Los Angele	2018	Annual	LDT1	0	7.547407067	223.7257952	8.44E-04	0	2.86E-04	0.001130078	0.005872458	0.026976608
Los Angele	2018	Annual	LDT1	0	0	0.365206171	6.57E-06	0	0	6.57E-06	1.35E-05	6.21E-05
Los Angele	2018	Annual	LDT1	0	7.433229804	227.4661083	0.001170994	0	4.07E-04	0.001578353	0.0061099	0.028067356
Los Angele	2018	Annual	LDT1	0	0	0.350204761	6.08E-06	0	0	6.08E-06	1.33E-05	6.09E-05
Los Angele	2018	Annual	LDT1	0	7.466007688	237.6776799	0.001595997	0	5.49E-04	0.002145314	0.00666293	0.030607838
Los Angele	2018	Annual	LDT1	0	0	0.349481941	5.95E-06	0	0	5.95E-06	1.38E-05	6.33E-05
Los Angele	2018	Annual	LDT1	0	7.213666185	240.8482312	0.001935814	0	6.44E-04	0.002579663	0.007027858	0.03228423
Los Angele	2018	Annual	LDT1	0	0	0.433039224	7.13E-06	0	0	7.13E-06	1.78E-05	8.16E-05
Los Angele	2018	Annual	LDT1	0	7.407758833	263.7104731	0.0023076	0	7.23E-04	0.003030432	0.00770742	0.035405967
Los Angele	2018	Annual	LDT1	0	0	0.309691852	4.71E-06	0	0	4.71E-06	1.27E-05	5.84E-05
Los Angele	2018	Annual	LDT1	0	7.34515603	289.5239357	0.002641398	0	7.48E-04	0.003388938	0.008484164	0.03897414
Los Angele	2018	Annual	LDT1	0	0	0.359411562	4.97E-06	0	0	4.97E-06	1.47E-05	6.77E-05
Los Angele	2018	Annual	T6 instate heavy	0.389592913	0	32.65083472	0.001842606	4.92E-06	0	0.00184753	3.56E-04	0.00386333



2018 Estimated Annual Emissions  
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 South Coast AQMD

Area	CalYr	Season	Veh	PM10_TOTAL (Tons/day)	PM2_5_RUNEX (Tons/day)	PM2_5_IDLEX (Tons/day)	PM2_5_STREX (Tons/day)	PM2_5_TOTEX (Tons/day)	PM2_5_PMTW (Tons/day)	PM2_5_PMBW (Tons/day)	PM2_5_TOTAL (Tons/day)	SOX_RUNEX (Tons/day)
Los Angele	2018	Annual	LDA	0.261023724	0.001542643	0	2.17E-04	0.001759202	0.011581124	0.091201358	0.104541684	0.021517623
Los Angele	2018	Annual	LDA	0	0	0	0	0	0	0	0	0
Los Angele	2018	Annual	LDA	0.279024699	0.001648845	0	2.94E-04	0.001943154	0.012376778	0.097467139	0.111787071	0.022991652
Los Angele	2018	Annual	LDA	3.34E-05	2.93E-06	0	0	2.93E-06	1.35E-06	1.06E-05	1.49E-05	2.05E-06
Los Angele	2018	Annual	LDA	0.251517359	0.001979825	0	4.08E-04	0.002387809	0.011125983	0.087617122	0.101130914	0.020703718
Los Angele	2018	Annual	LDA	0.001136444	9.67E-05	0	0	9.67E-05	4.61E-05	3.63E-04	5.06E-04	6.99E-05
Los Angele	2018	Annual	LDA	0.332197774	0.00261383	0	6.46E-04	0.003260026	0.014689798	0.1156822	0.133632024	0.027330581
Los Angele	2018	Annual	LDA	0.002109132	1.74E-04	0	0	1.74E-04	8.58E-05	6.76E-04	9.35E-04	1.30E-04
Los Angele	2018	Annual	LDA	0.347605239	0.004078447	0	0.001212495	0.005290942	0.01528057	0.1203345	0.140906012	0.028436437
Los Angele	2018	Annual	LDA	0.002089485	1.66E-04	0	0	1.66E-04	8.53E-05	6.72E-04	9.23E-04	1.29E-04
Los Angele	2018	Annual	LDA	0.380756312	0.005923381	0	0.00179036	0.007713741	0.016645478	0.1310831	0.155442319	0.030981343
Los Angele	2018	Annual	LDA	0.001987849	1.52E-04	0	0	1.52E-04	8.15E-05	6.41E-04	8.75E-04	1.23E-04
Los Angele	2018	Annual	LDA	0.404303366	0.009318326	0	0.003379838	0.012698164	0.017457766	0.1374799	0.16763583	0.032496538
Los Angele	2018	Annual	LDA	0.001922092	1.41E-04	0	0	1.41E-04	7.91E-05	6.23E-04	8.42E-04	1.10E-04
Los Angele	2018	Annual	LDA	0.436375587	0.013257918	0	0.004867226	0.018125144	0.018629752	0.1467093	0.183464196	0.034677591
Los Angele	2018	Annual	LDA	0.001764417	1.23E-04	0	0	1.23E-04	7.29E-05	5.74E-04	7.70E-04	1.10E-04
Los Angele	2018	Annual	LDA	0.475788426	0.017875023	0	0.006388274	0.024263297	0.020095546	0.1582525	0.202611343	0.037407909
Los Angele	2018	Annual	LDA	0.001757078	1.16E-04	0	0	1.16E-04	7.29E-05	5.74E-04	7.63E-04	1.10E-04
Los Angele	2018	Annual	LDA	0.516570982	0.022153028	0	0.007509752	0.02966278	0.021658149	0.1705579	0.221878829	0.040320646
Los Angele	2018	Annual	LDA	0.001669816	1.03E-04	0	0	1.03E-04	6.96E-05	5.48E-04	7.21E-04	1.06E-04
Los Angele	2018	Annual	LDA	0.584172792	0.02712009	0	0.008463218	0.035583308	0.024394274	0.1921049	0.252082482	0.045420833
Los Angele	2018	Annual	LDA	0.001774551	1.02E-04	0	0	1.02E-04	7.44E-05	5.86E-04	7.62E-04	1.13E-04
Los Angele	2018	Annual	LDA	0.673152038	0.032479712	0	0.008868272	0.041347984	0.028093316	0.2212349	0.2906762	0.052315254
Los Angele	2018	Annual	LDA	0.001877784	9.85E-05	0	0	9.85E-05	7.91E-05	6.23E-04	8.01E-04	1.20E-04
Los Angele	2018	Annual	LDT1	0.0154338	9.13E-05	0	1.12E-05	1.03E-04	6.85E-04	0.005393117	0.00618048	0.001482116
Los Angele	2018	Annual	LDT1	0	0	0	0	0	0	0	0	0
Los Angele	2018	Annual	LDT1	0.032419642	1.92E-04	0	3.01E-05	2.22E-04	0.001438239	0.011326132	0.01298616	0.003108927
Los Angele	2018	Annual	LDT1	0	0	0	0	0	0	0	0	0
Los Angele	2018	Annual	LDT1	0.02961939	2.33E-04	0	4.28E-05	2.76E-04	0.001310476	0.010319998	0.011906497	0.002837356
Los Angele	2018	Annual	LDT1	0	0	0	0	0	0	0	0	0
Los Angele	2018	Annual	LDT1	0.033162466	2.61E-04	0	5.80E-05	3.19E-04	0.001466758	0.011550724	0.013336423	0.003173473
Los Angele	2018	Annual	LDT1	5.79E-05	4.82E-06	0	0	4.82E-06	2.35E-06	1.85E-05	2.57E-05	3.57E-06
Los Angele	2018	Annual	LDT1	0.032296065	3.79E-04	0	1.03E-04	4.81E-04	0.001420209	0.011184147	0.013085797	0.00307312
Los Angele	2018	Annual	LDT1	8.44E-05	6.77E-06	0	0	6.77E-06	3.44E-06	2.71E-05	3.73E-05	5.22E-06
Los Angele	2018	Annual	LDT1	0.032092191	4.99E-04	0	1.39E-04	6.38E-04	0.001403541	0.01105289	0.013094732	0.003037441
Los Angele	2018	Annual	LDT1	6.24E-05	4.81E-06	0	0	4.81E-06	2.56E-06	2.01E-05	2.75E-05	3.87E-06
Los Angele	2018	Annual	LDT1	0.033979144	7.83E-04	0	2.65E-04	0.001048526	0.001468114	0.011561404	0.014078044	0.003177247
Los Angele	2018	Annual	LDT1	8.22E-05	6.04E-06	0	0	6.04E-06	3.38E-06	2.66E-05	3.60E-05	5.12E-06
Los Angele	2018	Annual	LDT1	0.035755608	0.001086489	0	3.78E-04	0.001464451	0.001527475	0.012028867	0.015020793	0.00330572
Los Angele	2018	Annual	LDT1	8.02E-05	5.60E-06	0	0	5.60E-06	3.31E-06	2.61E-05	3.50E-05	5.02E-06
Los Angele	2018	Annual	LDT1	0.039416082	0.001480822	0	5.10E-04	0.001990497	0.001665733	0.013117644	0.016773874	0.003604893
Los Angele	2018	Annual	LDT1	8.31E-05	5.47E-06	0	0	5.47E-06	3.45E-06	2.71E-05	3.61E-05	5.22E-06
Los Angele	2018	Annual	LDT1	0.04189175	0.001796116	0	5.97E-04	0.002393501	0.001756964	0.013836096	0.017986562	0.003802815
Los Angele	2018	Annual	LDT1	1.06E-04	6.56E-06	0	0	6.56E-06	4.44E-06	3.50E-05	4.60E-05	6.73E-06
Los Angele	2018	Annual	LDT1	0.046143819	0.002141073	0	6.71E-04	0.002811741	0.001926855	0.015173985	0.019912581	0.004171336
Los Angele	2018	Annual	LDT1	7.58E-05	4.33E-06	0	0	4.33E-06	3.18E-06	2.50E-05	3.25E-05	4.81E-06
Los Angele	2018	Annual	LDT1	0.050847242	0.002450781	0	6.94E-04	0.003144375	0.002121041	0.016703201	0.021968617	0.004592024
Los Angele	2018	Annual	LDT1	8.74E-05	4.57E-06	0	0	4.57E-06	3.69E-06	2.90E-05	3.73E-05	5.59E-06
Los Angele	2018	Annual	T6 instate heavy	0.006066545	0.001695197	4.53E-06	0	0.001699728	8.89E-05	0.001655713	0.003444362	3.29E-04

2018 Estimated Annual Emissions  
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Area	CalYr	Season	Veh	SOX_IDLEX (Tons/day)	SOX_STREX (Tons/day)	SOX_TOTEX (Tons/day)	FUEL_GAS (1000 Gallons)	FUEL_DSL (1000 Gallons)	exhaust ROG lb/mile	exhaust CO lb/mile	exhaust NOx lb/mile	exhaust PM10 lb/mile	tire wear a PM10 lb/mile	exhaust PM2.5 lb/mile	tire wear a PM2.5 lb/mile	exhaust SOx lb/mile
Los Angele	2018	Annual	LDA	0	9.90E-04	0.022507923	240.0797	0	0.225E-04	2.26E-03	1.53E-04	7.22E-07	9.87E-05	6.70E-07	3.91E-05	8.57E-06
Los Angele	2018	Annual	LDA	0	0	0	0	0	0	0	0	0	0	0	0	0
Los Angele	2018	Annual	LDA	0	0.001032161	0.024023813	256.2489	0	1.98E-04	2.03E-03	1.47E-04	7.46E-07	9.87E-05	6.92E-07	3.91E-05	8.56E-06
Los Angele	2018	Annual	LDA	0	0	2.05E-06	0	0.019321511	1.71E-05	1.61E-04	5.24E-04	1.04E-05	9.87E-05	9.55E-06	3.91E-05	6.68E-06
Los Angele	2018	Annual	LDA	0	9.05E-04	0.021608964	230.491	0	1.77E-04	1.96E-03	1.53E-04	1.02E-06	9.87E-05	9.46E-07	3.91E-05	8.56E-06
Los Angele	2018	Annual	LDA	0	6.99E-05	0	0	0.6585653	1.66E-05	1.55E-04	5.07E-04	1.01E-05	9.87E-05	9.25E-06	3.91E-05	6.68E-06
Los Angele	2018	Annual	LDA	0	0.001160844	0.028491425	303.9024	0	1.57E-04	1.87E-03	1.56E-04	1.05E-06	9.87E-05	9.79E-07	3.91E-05	8.55E-06
Los Angele	2018	Annual	LDA	0	0	1.30E-04	0	1.226125	1.59E-05	1.50E-04	4.90E-04	9.71E-06	9.87E-05	8.93E-06	3.91E-05	6.68E-06
Los Angele	2018	Annual	LDA	0	0.001168288	0.029604725	315.7774	0	1.36E-04	1.80E-03	1.52E-04	1.65E-06	9.87E-05	1.53E-06	3.91E-05	8.54E-06
Los Angele	2018	Annual	LDA	0	0	1.29E-04	0	1.218821	1.53E-05	1.43E-04	4.71E-04	9.34E-06	9.87E-05	8.59E-06	3.91E-05	6.68E-06
Los Angele	2018	Annual	LDA	0	0.001225208	0.032206551	343.5297	0	1.13E-04	1.72E-03	1.46E-04	2.20E-06	9.87E-05	2.04E-06	3.91E-05	8.53E-06
Los Angele	2018	Annual	LDA	0	0	1.23E-04	0	1.163724	1.46E-05	1.37E-04	4.51E-04	8.95E-06	9.87E-05	8.23E-06	3.91E-05	6.68E-06
Los Angele	2018	Annual	LDA	0	0.001232869	0.033729407	359.7731	0	9.88E-05	1.59E-03	1.36E-04	3.46E-06	9.87E-05	3.21E-06	3.91E-05	8.52E-06
Los Angele	2018	Annual	LDA	0	0	1.29E-04	0	1.129743	1.38E-05	1.29E-04	4.30E-04	8.52E-06	9.87E-05	7.84E-06	3.91E-05	6.68E-06
Los Angele	2018	Annual	LDA	0	0.001252093	0.035929684	383.2423	0	8.57E-05	1.40E-03	1.28E-04	4.62E-06	9.87E-05	4.29E-06	3.91E-05	8.50E-06
Los Angele	2018	Annual	LDA	0	0	1.10E-04	0	1.041437	0.00E+00	1.22E-04	4.07E-04	8.07E-06	9.87E-05	7.43E-06	3.91E-05	6.68E-06
Los Angele	2018	Annual	LDA	0	0.00127412	0.038682029	412.6	0	7.54E-05	1.27E-03	1.17E-04	5.74E-06	9.87E-05	5.32E-06	3.91E-05	8.49E-06
Los Angele	2018	Annual	LDA	0	0	1.10E-04	0	1.041721	0.00E+00	1.13E-04	3.83E-04	7.60E-06	9.87E-05	6.99E-06	3.91E-05	6.68E-06
Los Angele	2018	Annual	LDA	0	0.001282187	0.041602833	443.7546	0	6.70E-05	1.17E-03	1.08E-04	6.51E-06	9.87E-05	6.04E-06	3.91E-05	8.47E-06
Los Angele	2018	Annual	LDA	0	0	1.06E-04	0	0.994679	0.00E+00	1.05E-04	3.57E-04	7.10E-06	9.87E-05	6.53E-06	3.91E-05	6.68E-06
Los Angele	2018	Annual	LDA	0	0.001320512	0.046741345	498.5644	0	5.89E-05	1.08E-03	9.90E-05	6.93E-06	9.87E-05	6.43E-06	3.91E-05	8.45E-06
Los Angele	2018	Annual	LDA	0	0	1.13E-04	0	1.062472	1.03E-05	9.56E-05	3.30E-04	6.56E-06	9.87E-05	6.03E-06	3.91E-05	6.68E-06
Los Angele	2018	Annual	LDA	0	0.001325602	0.053640856	572.1577	0	4.96E-05	9.93E-04	8.96E-05	6.99E-06	9.87E-05	6.49E-06	3.91E-05	8.42E-06
Los Angele	2018	Annual	LDA	0	0	1.20E-04	0	1.130659	9.23E-06	8.55E-05	3.00E-04	5.97E-06	9.87E-05	5.49E-06	3.91E-05	6.68E-06
Los Angele	2018	Annual	LDT1	0	5.93E-05	0.001541433	16.44162	0	2.48E-04	2.26E-03	1.52E-04	7.11E-07	9.87E-05	6.60E-07	3.91E-05	9.92E-06
Los Angele	2018	Annual	LDT1	0	0	0	0	0	0	0	0	0	0	0	0	0
Los Angele	2018	Annual	LDT1	0	1.23E-04	0.003231576	34.46945	0	2.14E-04	2.02E-03	1.46E-04	7.33E-07	9.87E-05	6.80E-07	3.91E-05	9.91E-06
Los Angele	2018	Annual	LDT1	0	0	0	0	0	0	0	0	0	0	0	0	0
Los Angele	2018	Annual	LDT1	0	1.10E-04	0.00294753	31.43969	0	1.86E-04	1.95E-03	1.51E-04	1.00E-06	9.87E-05	9.29E-07	3.91E-05	9.92E-06
Los Angele	2018	Annual	LDT1	0	0	0	0	0	0	0	0	0	0	0	0	0
Los Angele	2018	Annual	LDT1	0	1.21E-04	0.003294531	35.14096	0	1.62E-04	1.86E-03	1.55E-04	1.03E-06	9.87E-05	9.59E-07	3.91E-05	9.90E-06
Los Angele	2018	Annual	LDT1	0	0	3.57E-06	0	0.03361449	1.91E-05	1.78E-04	5.94E-04	9.81E-06	9.87E-05	9.03E-06	3.91E-05	6.68E-06
Los Angele	2018	Annual	LDT1	0	1.15E-04	0.003187852	34.00308	0	1.36E-04	1.79E-03	1.52E-04	1.61E-06	9.87E-05	1.49E-06	3.91E-05	9.90E-06
Los Angele	2018	Annual	LDT1	0	0	5.22E-06	0	0.049189143	1.83E-05	1.71E-04	5.70E-04	9.42E-06	9.87E-05	8.67E-06	3.91E-05	6.68E-06
Los Angele	2018	Annual	LDT1	0	1.11E-04	0.003147958	33.57755	0	1.07E-04	1.71E-03	1.46E-04	2.16E-06	9.87E-05	2.01E-06	3.91E-05	9.89E-06
Los Angele	2018	Annual	LDT1	0	0	3.87E-06	0	0.036530297	1.74E-05	1.62E-04	5.45E-04	9.01E-06	9.87E-05	8.29E-06	3.91E-05	6.68E-06
Los Angele	2018	Annual	LDT1	0	1.12E-04	0.003289653	35.08892	0	9.29E-05	1.58E-03	1.35E-04	3.39E-06	9.87E-05	3.15E-06	3.91E-05	9.88E-06
Los Angele	2018	Annual	LDT1	0	0	5.12E-06	0	0.048287824	5.12E-05	1.53E-04	5.18E-04	8.56E-06	9.87E-05	7.88E-06	3.91E-05	6.68E-06
Los Angele	2018	Annual	LDT1	0	1.13E-04	0.00341868	36.4652	0	7.96E-05	1.38E-03	1.27E-04	4.56E-06	9.87E-05	4.23E-06	3.91E-05	9.87E-06
Los Angele	2018	Annual	LDT1	0	0	5.02E-06	0	0.047344875	1.55E-05	1.44E-04	4.89E-04	8.10E-06	9.87E-05	7.45E-06	3.91E-05	6.68E-06
Los Angele	2018	Annual	LDT1	0	1.18E-04	0.003723011	39.71133	0	6.96E-05	1.25E-03	1.16E-04	5.68E-06	9.87E-05	5.27E-06	3.91E-05	9.85E-06
Los Angele	2018	Annual	LDT1	0	0	5.22E-06	0	0.049253255	1.65E-05	1.54E-04	4.59E-04	7.61E-06	9.87E-05	7.00E-06	3.91E-05	6.68E-06
Los Angele	2018	Annual	LDT1	0	1.19E-04	0.003921348	41.82687	0	6.17E-05	1.16E-03	1.07E-04	6.47E-06	9.87E-05	6.01E-06	3.91E-05	9.84E-06
Los Angele	2018	Annual	LDT1	0	0	6.73E-06	0	0.063444339	1.34E-05	1.23E-04	4.28E-04	7.08E-06	9.87E-05	6.52E-06	3.91E-05	6.68E-06
Los Angele	2018	Annual	LDT1	0	1.22E-04	0.004292962	45.79068	0	5.42E-05	1.07E-03	9.86E-05	6.93E-06	9.87E-05	6.43E-06	3.91E-05	9.82E-06
Los Angele	2018	Annual	LDT1	0	0	4.81E-06	0	0.045372773	1.22E-05	1.12E-04	3.94E-04	6.53E-06	9.87E-05	6.01E-06	3.91E-05	6.68E-06
Los Angele	2018	Annual	LDT1	0	1.21E-04	0.00471254	50.26608	0	4.66E-05	9.94E-04	8.94E-05	7.04E-06	9.87E-05	6.54E-06	3.91E-05	9.80E-06
Los Angele	2018	Annual	LDT1	0	0	5.59E-06	0	0.052657172	1.09E-05	1.00E-04	3.58E-04	5.94E-06	9.87E-05	5.47E-06	3.91E-05	6.68E-06
Los Angele	2018	Annual	T6 instate heavy	3.98E-06	0	3.33E-04	0	3.142861096	4.81E-04	2.07E-03	1.09E-02	1.37E-04	3.14E-04	1.26E-04	1.30E-04	2.48E-05

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Area	CalYr	Season	Veh	exhaust CO2 ton/mile
Los Angele	2018	Annual	LDA	4.00E-04
Los Angele	2018	Annual	LDA	
Los Angele	2018	Annual	LDA	3.99E-04
Los Angele	2018	Annual	LDA	3.27E-04
Los Angele	2018	Annual	LDA	4.00E-04
Los Angele	2018	Annual	LDA	3.27E-04
Los Angele	2018	Annual	LDA	3.85E-04
Los Angele	2018	Annual	LDA	3.16E-04
Los Angele	2018	Annual	LDA	3.41E-04
Los Angele	2018	Annual	LDA	2.80E-04
Los Angele	2018	Annual	LDA	2.97E-04
Los Angele	2018	Annual	LDA	2.44E-04
Los Angele	2018	Annual	LDA	2.90E-04
Los Angele	2018	Annual	LDA	2.38E-04
Los Angele	2018	Annual	LDA	2.83E-04
Los Angele	2018	Annual	LDA	0.00E+00
Los Angele	2018	Annual	LDA	2.71E-04
Los Angele	2018	Annual	LDA	0.00E+00
Los Angele	2018	Annual	LDA	2.60E-04
Los Angele	2018	Annual	LDA	0.00E+00
Los Angele	2018	Annual	LDA	2.59E-04
Los Angele	2018	Annual	LDA	2.15E-04
Los Angele	2018	Annual	LDA	2.59E-04
Los Angele	2018	Annual	LDA	2.15E-04
Los Angele	2018	Annual	LDT1	4.63E-04
Los Angele	2018	Annual	LDT1	
Los Angele	2018	Annual	LDT1	4.62E-04
Los Angele	2018	Annual	LDT1	
Los Angele	2018	Annual	LDT1	4.63E-04
Los Angele	2018	Annual	LDT1	
Los Angele	2018	Annual	LDT1	4.46E-04
Los Angele	2018	Annual	LDT1	3.16E-04
Los Angele	2018	Annual	LDT1	3.96E-04
Los Angele	2018	Annual	LDT1	2.80E-04
Los Angele	2018	Annual	LDT1	3.45E-04
Los Angele	2018	Annual	LDT1	2.44E-04
Los Angele	2018	Annual	LDT1	3.36E-04
Los Angele	2018	Annual	LDT1	2.38E-04
Los Angele	2018	Annual	LDT1	3.28E-04
Los Angele	2018	Annual	LDT1	2.33E-04
Los Angele	2018	Annual	LDT1	3.15E-04
Los Angele	2018	Annual	LDT1	2.23E-04
Los Angele	2018	Annual	LDT1	3.02E-04
Los Angele	2018	Annual	LDT1	2.15E-04
Los Angele	2018	Annual	LDT1	3.02E-04
Los Angele	2018	Annual	LDT1	2.15E-04
Los Angele	2018	Annual	LDT1	3.01E-04
Los Angele	2018	Annual	LDT1	2.15E-04
Los Angele	2018	Annual	T6 instate heavy	1.21E-03

Los Angele	2018 Annual	T6 instate heavy	DSL	2008 AllSpeeds	486.0190015	25861.09081	0	0.005858999	1.12E-04	0	0.005971456
Los Angele	2018 Annual	T6 instate heavy	DSL	2009 AllSpeeds	265.7311406	15938.85395	0	0.003449603	6.15E-05	0	0.003511089
Los Angele	2018 Annual	T6 instate heavy	DSL	2010 AllSpeeds	760.1697619	30992.01796	0	0.003987268	1.76E-04	0	0.004163159
Los Angele	2018 Annual	T6 instate heavy	DSL	2011 AllSpeeds	459.3186919	25961.86327	0	0.003192637	1.06E-04	0	0.003298916
Los Angele	2018 Annual	T6 instate heavy	DSL	2012 AllSpeeds	395.1987909	28432.78381	0	0.003324793	9.14E-05	0	0.003416236
Los Angele	2018 Annual	T6 instate heavy	DSL	2013 AllSpeeds	461.185651	35050.71624	0	0.003340652	1.07E-04	0	0.003447363
Los Angele	2018 Annual	T6 instate heavy	DSL	2014 AllSpeeds	496.5065543	39550.92654	0	0.00359526	1.15E-04	0	0.003710143
Los Angele	2018 Annual	T6 instate heavy	DSL	2015 AllSpeeds	538.8611917	44462.14287	0	0.003836322	1.25E-04	0	0.003961006
Los Angele	2018 Annual	T6 instate heavy	DSL	2016 AllSpeeds	579.2091855	48687.62313	0	0.003967959	1.34E-04	0	0.004101979
Los Angele	2018 Annual	T6 instate heavy	DSL	2017 AllSpeeds	657.931155	55067.39381	0	0.004219481	1.52E-04	0	0.004371716
Los Angele	2018 Annual	T6 instate heavy	DSL	2018 AllSpeeds	589.3474467	49327.46164	0	0.003540261	1.36E-04	0	0.003676626
Los Angele	2018 Annual	T6 instate heavy	DSL	2019 AllSpeeds	147.6418198	5149.253601	0	3.45E-04	3.42E-05	0	3.79E-04
Los Angele	2018 Annual	LDA/LDT1	GAS&DSL >2007	AllSpeeds	2868849.146	104778291.3	18490082.87	1.087277957	0	0.892273928	1.979551885
Los Angele	2018 Annual	T6 instate heavy	DSL	>2007 AllSpeeds	6343.970764	431371.4497	0	0.049005804	0.001467895	0	0.050473699

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Area	CalYr	Season	Veh	Fuel	MdlYr	Speed (Miles/hr)	Pop (Vehicles)	VMT (Miles/day)	Trips (Trips/day)	ROG_RUNEX (Tons/day)	ROG_IDLEX (Tons/day)	ROG_STREX (Tons/day)	ROG_TOTEX (Tons/day)
Los Angele	2019 Annual	LDA	LDA	GAS	2007 AllSpeeds		171915.8	4644224.16	1069209	0.063370736	0	0.068570904	0.13194164
Los Angele	2019 Annual	LDA	LDA	DSL	2007 AllSpeeds		0	0	0	0	0	0	0
Los Angele	2019 Annual	LDA	LDA	GAS	2008 AllSpeeds		181429.1	5043448.244	1135632	0.063647641	0	0.064787939	0.12843558
Los Angele	2019 Annual	LDA	LDA	DSL	2008 AllSpeeds		21.00125	583.807931	131.4547	5.16E-06	0	0	5.16E-06
Los Angele	2019 Annual	LDA	LDA	GAS	2009 AllSpeeds		159745.7	4576549.732	1007895	0.058523739	0	0.058043174	0.116566913
Los Angele	2019 Annual	LDA	LDA	DSL	2009 AllSpeeds		689.0125	19739.51951	4347.234	1.69E-04	0	0	1.69E-04
Los Angele	2019 Annual	LDA	LDA	GAS	2010 AllSpeeds		206743.3	6116038.661	1312689	0.077828268	0	0.074550137	0.152378405
Los Angele	2019 Annual	LDA	LDA	DSL	2010 AllSpeeds		1243.191	36777.07728	7893.474	3.04E-04	0	0	3.04E-04
Los Angele	2019 Annual	LDA	LDA	GAS	2011 AllSpeeds		208288.1	6376654.455	1330828	0.079301647	0	0.073916525	0.153218172
Los Angele	2019 Annual	LDA	LDA	DSL	2011 AllSpeeds		1145.692	35074.94604	7320.241	2.79E-04	0	0	2.79E-04
Los Angele	2019 Annual	LDA	LDA	GAS	2012 AllSpeeds		221160	7026333.833	1419705	0.085034499	0	0.076777644	0.161812143
Los Angele	2019 Annual	LDA	LDA	DSL	2012 AllSpeeds		1117.107	35490.94864	7171.108	2.71E-04	0	0	2.71E-04
Los Angele	2019 Annual	LDA	LDA	GAS	2013 AllSpeeds		221322.5	7319817.777	1425174	0.085931769	0	0.074794531	0.1607263
Los Angele	2019 Annual	LDA	LDA	DSL	2013 AllSpeeds		1037.128	34301.09542	6678.437	2.50E-04	0	0	2.50E-04
Los Angele	2019 Annual	LDA	LDA	GAS	2014 AllSpeeds		228987.3	7919143.525	1481400	0.088146093	0	0.074264154	0.162410247
Los Angele	2019 Annual	LDA	LDA	DSL	2014 AllSpeeds		909.1592	31441.82734	5881.672	2.17E-04	0	0	2.17E-04
Los Angele	2019 Annual	LDA	LDA	GAS	2015 AllSpeeds		234998.2	8546277.244	1524986	0.085443731	0	0.070464566	0.155908297
Los Angele	2019 Annual	LDA	LDA	DSL	2015 AllSpeeds		857.937	31201.02895	5567.454	2.03E-04	0	0	2.03E-04
Los Angele	2019 Annual	LDA	LDA	GAS	2016 AllSpeeds		235496.4	9078197.667	1530574	0.084627278	0	0.066345304	0.150972582
Los Angele	2019 Annual	LDA	LDA	DSL	2016 AllSpeeds		758.2899	29231.549	4928.392	1.78E-04	0	0	1.78E-04
Los Angele	2019 Annual	LDA	LDA	GAS	2017 AllSpeeds		239592.2	9910757.303	1561985	0.087502152	0	0.063775383	0.151277535
Los Angele	2019 Annual	LDA	LDA	DSL	2017 AllSpeeds		744.0703	30778.63333	4850.854	1.73E-04	0	0	1.73E-04
Los Angele	2019 Annual	LDA	LDA	GAS	2018 AllSpeeds		244485.3	1.11E+07	1598774	0.091796134	0	0.06065058	0.152446714
Los Angele	2019 Annual	LDA	LDA	DSL	2018 AllSpeeds		688.707	31221.8388	4503.693	1.61E-04	0	0	1.61E-04
Los Angele	2019 Annual	LDA	LDA	GAS	2019 AllSpeeds		246041.3	1.28E+07	1613870	0.096963449	0	0.055052437	0.152015886
Los Angele	2019 Annual	LDA	LDA	DSL	2019 AllSpeeds		657.9922	34295.57978	4315.997	1.58E-04	0	0	1.58E-04
Los Angele	2019 Annual	LDT1	LDT1	GAS	2007 AllSpeeds		9322.682	291911.7317	57981.28	0.004089116	0	0.003806926	0.007896042
Los Angele	2019 Annual	LDT1	LDT1	DSL	2007 AllSpeeds		0	0	0	0	0	0	0
Los Angele	2019 Annual	LDT1	LDT1	GAS	2008 AllSpeeds		19215.28	613075.5013	120275.6	0.007914642	0	0.00699707	0.014911712
Los Angele	2019 Annual	LDT1	LDT1	DSL	2008 AllSpeeds		0	0	0	0	0	0	0
Los Angele	2019 Annual	LDT1	LDT1	GAS	2009 AllSpeeds		17251.94	561476.5108	108848.8	0.007272227	0	0.006319145	0.013591372
Los Angele	2019 Annual	LDT1	LDT1	DSL	2009 AllSpeeds		0	0	0	0	0	0	0
Los Angele	2019 Annual	LDT1	LDT1	GAS	2010 AllSpeeds		18955.44	630301.6735	120355	0.008162583	0	0.006941977	0.01510456

Los Angele	2018 Annual	T6 instate heavy	0	0	0	0	0.005971456	0.006670024	1.28E-04	0	0.006798048
Los Angele	2018 Annual	T6 instate heavy	0	0	0	0	0.003511089	0.00392711	7.00E-05	0	0.003997107
Los Angele	2018 Annual	T6 instate heavy	0	0	0	0	0.004163159	0.004539201	2.00E-04	0	0.00473944
Los Angele	2018 Annual	T6 instate heavy	0	0	0	0	0.003298916	0.003634574	1.21E-04	0	0.003755564
Los Angele	2018 Annual	T6 instate heavy	0	0	0	0	0.003416236	0.003785024	1.04E-04	0	0.003889124
Los Angele	2018 Annual	T6 instate heavy	0	0	0	0	0.003447363	0.003803078	1.21E-04	0	0.00392456
Los Angele	2018 Annual	T6 instate heavy	0	0	0	0	0.003710143	0.004092929	1.31E-04	0	0.004223716
Los Angele	2018 Annual	T6 instate heavy	0	0	0	0	0.003961006	0.004367361	1.42E-04	0	0.004509304
Los Angele	2018 Annual	T6 instate heavy	0	0	0	0	0.004101979	0.004517219	1.53E-04	0	0.00466979
Los Angele	2018 Annual	T6 instate heavy	0	0	0	0	0.004371716	0.004803558	1.73E-04	0	0.004976866
Los Angele	2018 Annual	T6 instate heavy	0	0	0	0	0.003676626	0.004030317	1.55E-04	0	0.004185559
Los Angele	2018 Annual	T6 instate heavy	0	0	0	0	3.79E-04	3.92E-04	3.89E-05	0	4.31E-04
Los Angele	2018 Annual	LDA/LDT1	0.189823478	0.551131295	2.615813963	0.195394384	5.531715005	2.021873656	0	0.952673362	2.974547018
Los Angele	2018 Annual	T6 instate heavy	0	0	0	0	0.050473699	0.055789378	0.001671087	0	0.057460465

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Area	CalYr	Season	Veh	ROG_DIURN (Tons/day)	ROG_HTSK (Tons/day)	ROG_RUNLS (Tons/day)	ROG_RESTL (Tons/day)	ROG_TOTAL (Tons/day)	TOG_RUNEX (Tons/day)	TOG_IDLEX (Tons/day)	TOG_STREX (Tons/day)	TOG_TOTEX (Tons/day)
Los Angele	2019 Annual	LDA		0.028446993	0.1074908	0.2671314	0.03442362	0.569434453	0.117940956	0	0.073212594	0.19115355
Los Angele	2019 Annual	LDA		0	0	0	0	0	0	0	0	0
Los Angele	2019 Annual	LDA		0.026193738	0.097345434	0.2626538	0.031204563	0.545833115	0.118456315	0	0.06917353	0.187629845
Los Angele	2019 Annual	LDA		0	0	0	0	5.16E-06	5.88E-06	0	0	5.88E-06
Los Angele	2019 Annual	LDA		0.019772327	0.071854733	0.2149927	0.023077358	0.446264031	0.108920087	0	0.061972208	0.170892295
Los Angele	2019 Annual	LDA		0	0	0	0	1.69E-04	1.93E-04	0	0	1.93E-04
Los Angele	2019 Annual	LDA		0.021739071	0.076477692	0.2578853	0.024727687	0.533208155	0.144848257	0	0.079596549	0.224444806
Los Angele	2019 Annual	LDA		0	0	0	0	3.04E-04	3.46E-04	0	0	3.46E-04
Los Angele	2019 Annual	LDA		0.018288754	0.061413113	0.2397279	0.020103393	0.492751332	0.147590409	0	0.078920066	0.226510475
Los Angele	2019 Annual	LDA		0	0	0	0	2.79E-04	3.18E-04	0	0	3.18E-04
Los Angele	2019 Annual	LDA		0.015656725	0.048852634	0.2272352	0.01645235	0.470009052	0.158259964	0	0.081974834	0.240234798
Los Angele	2019 Annual	LDA		0	0	0	0	2.71E-04	3.09E-04	0	0	3.09E-04
Los Angele	2019 Annual	LDA		0.012646698	0.035457913	0.1897062	0.012685837	0.411222948	0.159929892	0	0.079857491	0.239787383
Los Angele	2019 Annual	LDA		0	0	0	0	2.50E-04	2.85E-04	0	0	2.85E-04
Los Angele	2019 Annual	LDA		0.010836285	0.02667922	0.1804375	0.010076569	0.390439821	0.164051031	0	0.079291232	0.243342263
Los Angele	2019 Annual	LDA		0	0	0	0	2.17E-04	2.47E-04	0	0	2.47E-04
Los Angele	2019 Annual	LDA		0.009325121	0.019522211	0.1713984	0.007958786	0.364112814	0.159021595	0	0.075234435	0.23425603
Los Angele	2019 Annual	LDA		0	0	0	0	2.03E-04	2.31E-04	0	0	2.31E-04
Los Angele	2019 Annual	LDA		0.0082678	0.014640695	0.1612402	0.006515505	0.341636783	0.157502076	0	0.070836335	0.228338411
Los Angele	2019 Annual	LDA		0	0	0	0	1.78E-04	2.02E-04	0	0	2.02E-04
Los Angele	2019 Annual	LDA		0.007669826	0.011501522	0.1554325	0.005623223	0.331504606	0.162852589	0	0.068092443	0.230945032
Los Angele	2019 Annual	LDA		0	0	0	0	1.73E-04	1.97E-04	0	0	1.97E-04
Los Angele	2019 Annual	LDA		0.007212157	0.009186666	0.1512289	0.004960295	0.325034732	0.170844226	0	0.06475611	0.235600336
Los Angele	2019 Annual	LDA		0	0	0	0	1.61E-04	1.83E-04	0	0	1.83E-04
Los Angele	2019 Annual	LDA		0.006929286	0.007725221	0.1460922	0.004546301	0.317308892	0.180461238	0	0.058779027	0.239240265
Los Angele	2019 Annual	LDA		0	0	0	0	1.58E-04	1.80E-04	0	0	1.80E-04
Los Angele	2019 Annual	LDT1		0.002008377	0.005906049	0.021423055	0.002430326	0.039663848	0.007610362	0	0.004064623	0.011674985
Los Angele	2019 Annual	LDT1		0	0	0	0	0	0	0	0	0
Los Angele	2019 Annual	LDT1		0.003607964	0.010453935	0.039158948	0.00429816	0.072430719	0.01473015	0	0.007470713	0.022200863
Los Angele	2019 Annual	LDT1		0	0	0	0	0	0	0	0	0
Los Angele	2019 Annual	LDT1		0.002776732	0.007886559	0.030905029	0.003240875	0.058400566	0.013534534	0	0.006746899	0.020281433
Los Angele	2019 Annual	LDT1		0	0	0	0	0	0	0	0	0
Los Angele	2019 Annual	LDT1		0.002590407	0.007144967	0.029722722	0.00294653	0.057509185	0.0151916	0	0.00741189	0.02260349

Los Angele	2018 Annual	T6 instate heavy	0	0	0	0	0.006798048	0.02438138	0.001329813	0	0.025711194
Los Angele	2018 Annual	T6 instate heavy	0	0	0	0	0.003997107	0.014355026	7.27E-04	0	0.015082102
Los Angele	2018 Annual	T6 instate heavy	0	0	0	0	0.00473944	0.016592442	0.002079927	0	0.018672369
Los Angele	2018 Annual	T6 instate heavy	0	0	0	0	0.003755564	0.013285699	0.001256758	0	0.014542456
Los Angele	2018 Annual	T6 instate heavy	0	0	0	0	0.003889124	0.013835649	0.001081317	0	0.014916966
Los Angele	2018 Annual	T6 instate heavy	0	0	0	0	0.00392456	0.013901643	0.001261866	0	0.015163509
Los Angele	2018 Annual	T6 instate heavy	0	0	0	0	0.004223716	0.014961156	0.001358509	0	0.016319665
Los Angele	2018 Annual	T6 instate heavy	0	0	0	0	0.004509304	0.015964303	0.001474397	0	0.017438699
Los Angele	2018 Annual	T6 instate heavy	0	0	0	0	0.00466979	0.01651209	0.001584794	0	0.018096884
Los Angele	2018 Annual	T6 instate heavy	0	0	0	0	0.004976866	0.017558763	0.001800188	0	0.019358951
Los Angele	2018 Annual	T6 instate heavy	0	0	0	0	0.004185559	0.014732286	0.001612534	0	0.016344819
Los Angele	2018 Annual	T6 instate heavy	0	0	0	0	4.31E-04	0.001433894	4.04E-04	0	0.001837862
Los Angele	2018 Annual	LDA/LDT1	0.189823478	0.551131295	2.615813963	0.195394384	6.526710138	62.70505237	0	15.06731071	77.77236308
Los Angele	2018 Annual	T6 instate heavy	0	0	0	0	0.057460465	0.203930613	0.017357958	0	0.221288571

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Area	CalYr	Season	Veh	TOG_DIURN (Tons/day)	TOG_HTSK (Tons/day)	TOG_RUNLS (Tons/day)	TOG_RESTL (Tons/day)	TOG_TOTAL (Tons/day)	CO_RUNEX (Tons/day)	CO_IDLEX (Tons/day)	CO_STREX (Tons/day)	CO_TOTEX (Tons/day)
Los Angele	2019 Annual	LDA		0.028446993	0.1074908	0.2671314	0.03442362	0.628646363	4.009274164	0	1.321465	5.330739164
Los Angele	2019 Annual	LDA		0	0	0	0	0	0	0	0	0
Los Angele	2019 Annual	LDA		0.026193738	0.097345434	0.2626538	0.031204563	0.60502738	3.965287482	0	1.242379	5.207666482
Los Angele	2019 Annual	LDA		0	0	0	0	5.88E-06	4.84E-05	0	0	4.84E-05
Los Angele	2019 Annual	LDA		0.019772327	0.071854733	0.2149927	0.023077358	0.500589413	3.52722217	0	1.069001	4.59622317
Los Angele	2019 Annual	LDA		0	0	0	0	1.93E-04	0.001583804	0	0	0.001583804
Los Angele	2019 Annual	LDA		0.021739071	0.076477692	0.2578853	0.024727687	0.605274556	4.549818297	0	1.323401	5.873219297
Los Angele	2019 Annual	LDA		0	0	0	0	3.46E-04	0.002847974	0	0	0.002847974
Los Angele	2019 Annual	LDA		0.018288754	0.061413113	0.2397279	0.020103393	0.566043635	4.632681802	0	1.304759	5.937440802
Los Angele	2019 Annual	LDA		0	0	0	0	3.18E-04	0.002612904	0	0	0.002612904
Los Angele	2019 Annual	LDA		0.015656725	0.048852634	0.2272352	0.01645235	0.548431707	4.965265891	0	1.345711	6.310976891
Los Angele	2019 Annual	LDA		0	0	0	0	3.09E-04	0.00253298	0	0	0.00253298
Los Angele	2019 Annual	LDA		0.012646698	0.035457913	0.1897062	0.012685837	0.490284031	4.977597516	0	1.289954	6.267551516
Los Angele	2019 Annual	LDA		0	0	0	0	2.85E-04	0.002334283	0	0	0.002334283
Los Angele	2019 Annual	LDA		0.010836285	0.02667922	0.1804375	0.010076569	0.471371837	5.043397183	0	1.239935	6.283332183
Los Angele	2019 Annual	LDA		0	0	0	0	2.47E-04	0.002024281	0	0	0.002024281
Los Angele	2019 Annual	LDA		0.009325121	0.019522211	0.1713984	0.007958786	0.442460547	4.850264305	0	1.107272	5.957536305
Los Angele	2019 Annual	LDA		0	0	0	0	2.31E-04	0.001889012	0	0	0.001889012
Los Angele	2019 Annual	LDA		0.0082678	0.014640695	0.1612402	0.006515505	0.419002612	4.725948584	0	0.9983131	5.724261684
Los Angele	2019 Annual	LDA		0	0	0	0	2.02E-04	0.001651779	0	0	0.001651779
Los Angele	2019 Annual	LDA		0.007669826	0.011501522	0.1554325	0.005623223	0.411172102	4.820176414	0	0.9387264	5.758902814
Los Angele	2019 Annual	LDA		0	0	0	0	1.97E-04	0.001607506	0	0	0.001607506
Los Angele	2019 Annual	LDA		0.007212157	0.009186666	0.1512289	0.004960295	0.408188354	5.056618856	0	0.8931171	5.949735956
Los Angele	2019 Annual	LDA		0	0	0	0	1.83E-04	0.001487306	0	0	0.001487306
Los Angele	2019 Annual	LDA		0.006929286	0.007725221	0.1460922	0.004546301	0.404533272	5.49999592	0	0.8455418	6.34553772
Los Angele	2019 Annual	LDA		0	0	0	0	1.80E-04	0.001459992	0	0	0.001459992
Los Angele	2019 Annual	LDT1		0.002008377	0.005906049	0.021423055	0.002430326	0.043442792	0.260081406	0	0.074311078	0.334392484
Los Angele	2019 Annual	LDT1		0	0	0	0	0	0	0	0	0
Los Angele	2019 Annual	LDT1		0.003607964	0.010453935	0.039158948	0.00429816	0.07971987	0.49502871	0	0.1357509	0.63077961
Los Angele	2019 Annual	LDT1		0	0	0	0	0	0	0	0	0
Los Angele	2019 Annual	LDT1		0.002776732	0.007886559	0.030905029	0.003240875	0.065090627	0.441075856	0	0.1181264	0.559202256
Los Angele	2019 Annual	LDT1		0	0	0	0	0	0	0	0	0
Los Angele	2019 Annual	LDT1		0.002590407	0.007144967	0.029722722	0.00294653	0.065008116	0.477971683	0	0.1242471	0.602218783

Los Angele	2018 Annual	T6 instate heavy	0.127260446	0.002009075	0	0.129269521	33.18458995	0.399551638	0	33.58414159	31.0275916
Los Angele	2018 Annual	T6 instate heavy	0.068371075	0.001098463	0	0.069469538	20.45251442	0.218455065	0	20.67096948	19.12310098
Los Angele	2018 Annual	T6 instate heavy	0.055284631	0.003142342	0	0.058426974	38.43976296	0.624928393	0	39.06469136	35.94117837
Los Angele	2018 Annual	T6 instate heavy	0.04082577	0.001898703	0	0.042724473	32.20080317	0.377601565	0	32.57840473	30.10775096
Los Angele	2018 Annual	T6 instate heavy	0.037245979	0.001633648	0	0.038879627	35.26551486	0.324889199	0	35.59040406	32.97325639
Los Angele	2018 Annual	T6 instate heavy	0.037182952	0.001906421	0	0.039089373	43.37375918	0.379136375	0	43.75289556	40.55446484
Los Angele	2018 Annual	T6 instate heavy	0.038806144	0.002052428	0	0.040858572	48.94257657	0.408173357	0	49.35074992	45.76130909
Los Angele	2018 Annual	T6 instate heavy	0.03991239	0.002227511	0	0.042139901	55.01999629	0.442992704	0	55.462989	51.44369654
Los Angele	2018 Annual	T6 instate heavy	0.039494579	0.002394299	0	0.041888878	60.24884703	0.47616241	0	60.72500944	56.33267197
Los Angele	2018 Annual	T6 instate heavy	0.039817694	0.002719715	0	0.042537409	68.14353983	0.540878999	0	68.68441883	63.71420974
Los Angele	2018 Annual	T6 instate heavy	0.03133974	0.002436208	0	0.033775948	61.04061976	0.484496979	0	61.52511674	57.07297948
Los Angele	2018 Annual	T6 instate heavy	0.002819779	6.10E-04	0	0.003430091	6.37198065	0.121374948	0	6.493355598	5.957801908
Los Angele	2018 Annual	LDA/LDT1	5.763449821	0	0.89523998	6.658689801	43495.10804	0	1527.520548	45022.62859	31338.04658
Los Angele	2018 Annual	T6 instate heavy	0.702423701	0.026224312	0	0.728648013	537.1885066	5.215318544	0	542.4038251	502.2712537

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Area	CalYr	Season	Veh	NOX_RUNEX (Tons/day)	NOX_IDLEX (Tons/day)	NOX_STREX (Tons/day)	NOX_TOTEX (Tons/day)	CO2_RUNEX (Tons/day)	CO2_IDLEX (Tons/day)	CO2_STREX (Tons/day)	CO2_TOTEX (Tons/day)	CO2_RUNEX(Pavh) (Tons/day)
Los Angele	2019 Annual	LDA		0.294319097	0	0.063264854	0.357583951	1892.060745	0	87.40945	1979.470195	1740.695885
Los Angele	2019 Annual	LDA		0	0	0	0	0	0	0	0	0
Los Angele	2019 Annual	LDA		0.31010798	0	0.064325668	0.374433648	2055.037061	0	92.85471	2147.891771	1890.634096
Los Angele	2019 Annual	LDA		1.57E-04	0	0	1.57E-04	0.204517053	0	0	0.204517053	0.188155689
Los Angele	2019 Annual	LDA		0.29307623	0	0.060456108	0.353532338	1868.223703	0	82.56264	1950.786343	1718.765807
Los Angele	2019 Annual	LDA		0.005167981	0	0.005167981	0.005167981	6.915063232	0	6.915063232	6.361858173	0
Los Angele	2019 Annual	LDA		0.402155552	0	0.081668578	0.48382413	2496.517838	0	107.5236	2604.041438	2216.408537
Los Angele	2019 Annual	LDA		0.009323352	0	0	0.009323352	12.88358724	0	0	12.88358724	11.43804876
Los Angele	2019 Annual	LDA		0.414393863	0	0.081320032	0.495713895	2602.911138	0	109.0099	2711.921038	2049.844579
Los Angele	2019 Annual	LDA		0.008585393	0	0	0.008585393	12.2873029	0	0	12.2873029	6.676496778
Los Angele	2019 Annual	LDA		0.449443604	0	0.084656745	0.534100349	2868.874055	0	116.2847	2985.158755	1971.605006
Los Angele	2019 Annual	LDA		0.008358047	0	0	0.008358047	12.43303591	0	0	12.43303591	8.544479602
Los Angele	2019 Annual	LDA		0.453726423	0	0.081200637	0.53492706	2989.522022	0	116.7281	3106.250122	2002.262269
Los Angele	2019 Annual	LDA		0.007740167	0	0	0.007740167	12.01621178	0	0	12.01621178	8.047978001
Los Angele	2019 Annual	LDA		0.460252905	0	0.077205688	0.537458593	3235.183684	0	121.3286	3356.512284	2119.174721
Los Angele	2019 Annual	LDA		0.006752418	0	0	0.006752418	11.01456634	0	0	11.01456634	7.214981537
Los Angele	2019 Annual	LDA		0.471483004	0	0.073274516	0.54475752	3492.226463	0	124.8895	3617.115963	2194.37542
Los Angele	2019 Annual	LDA		0.00634526	0	0	0.00634526	10.93020807	0	0	10.93020807	6.868105543
Los Angele	2019 Annual	LDA		0.465247655	0	0.065280266	0.530527921	3710.466451	0	125.3378	3835.804251	2242.754342
Los Angele	2019 Annual	LDA		0.005594547	0	0	0.005594547	10.2402701	0	0	10.2402701	6.189628856
Los Angele	2019 Annual	LDA		0.475303184	0	0.059226088	0.534529272	4051.832527	0	127.9043	4179.736827	2449.089653
Los Angele	2019 Annual	LDA		0.005499799	0	0	0.005499799	10.78223884	0	0	10.78223884	6.517216442
Los Angele	2019 Annual	LDA		0.494752726	0	0.052925166	0.547677892	4532.367693	0	130.9076	4663.275293	2739.544328
Los Angele	2019 Annual	LDA		0.005153565	0	0	0.005153565	10.93750217	0	0	10.93750217	6.611063811
Los Angele	2019 Annual	LDA		0.527864941	0	0.045291509	0.57315645	5245.510422	0	132.1371	5377.647522	3170.596319
Los Angele	2019 Annual	LDA		0.005145306	0	0	0.005145306	12.01427936	0	0	12.01427936	7.261911016
Los Angele	2019 Annual	LDT1		0.018826112	0	0.003517357	0.022343469	138.5909356	0	5.527009	144.1179446	127.5036608
Los Angele	2019 Annual	LDT1		0	0	0	0	0	0	0	0	0
Los Angele	2019 Annual	LDT1		0.038293763	0	0.006970119	0.045263882	290.8112549	0	11.45492	302.2661749	267.5463545
Los Angele	2019 Annual	LDT1		0	0	0	0	0	0	0	0	0
Los Angele	2019 Annual	LDT1		0.036243375	0	0.006606479	0.042849854	266.7907508	0	10.38445	277.1752008	245.4474907
Los Angele	2019 Annual	LDT1		0	0	0	0	0	0	0	0	0
Los Angele	2019 Annual	LDT1		0.041996622	0	0.007635607	0.049632229	299.3089501	0	11.47506	310.7840101	265.7264859

Los Angele	2018 Annual	T6 instate heavy	0.373580782	0	31.40117239	0.00170314	4.72E-06	0	0.001707862	3.42E-04	0.003715599
Los Angele	2018 Annual	T6 instate heavy	0.204255486	0	19.32735646	0.001004448	2.58E-06	0	0.00100703	2.11E-04	0.002290019
Los Angele	2018 Annual	T6 instate heavy	0.584308048	0	36.52548642	0.001859587	7.39E-06	0	0.001866972	4.10E-04	0.004452786
Los Angele	2018 Annual	T6 instate heavy	0.353057464	0	30.46080842	0.001474492	4.46E-06	0	0.001478954	3.43E-04	0.003730077
Los Angele	2018 Annual	T6 instate heavy	0.303771402	0	33.2770278	0.001517873	3.84E-06	0	0.001521713	3.76E-04	0.004085087
Los Angele	2018 Annual	T6 instate heavy	0.354492511	0	40.90895735	0.001461503	4.48E-06	0	0.001465984	4.64E-04	0.005035921
Los Angele	2018 Annual	T6 instate heavy	0.381642088	0	46.14295118	0.001547511	4.82E-06	0	0.001552335	5.23E-04	0.00568249
Los Angele	2018 Annual	T6 instate heavy	0.414198179	0	51.85789471	0.001619917	5.24E-06	0	0.001625152	5.88E-04	0.00638811
Los Angele	2018 Annual	T6 instate heavy	0.445211853	0	56.77788383	0.001638033	5.63E-06	0	0.00164366	6.44E-04	0.006995207
Los Angele	2018 Annual	T6 instate heavy	0.505721864	0	64.2199316	0.001696157	6.39E-06	0	0.001702549	7.28E-04	0.007911822
Los Angele	2018 Annual	T6 instate heavy	0.453004675	0	57.52598415	0.001379761	5.73E-06	0	0.001385487	6.52E-04	0.007087136
Los Angele	2018 Annual	T6 instate heavy	0.113485576	0	6.071287484	1.29E-04	1.43E-06	0	1.31E-04	6.81E-05	7.40E-04
Los Angele	2018 Annual	LDA/LDT1	0	1129.226582	32467.27316	0.164597377	0	0.051240486	0.215837864	0.923986466	4.244563153
Los Angele	2018 Annual	T6 instate heavy	4.876322839	0	507.1475765	0.018874487	6.16358E-05	0	0.018936123	0.005706068	0.061977404

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Area	CalYr	Season	Veh	CO2_IDLEX(Pavk) (Tons/day)	CO2_STREX(Pavk) (Tons/day)	CO2_TOTEX(Pavk) (Tons/day)	PM10_RUNEX (Tons/day)	PM10_IDLEX (Tons/day)	PM10_STREX (Tons/day)	PM10_TOTEX (Tons/day)	PM10_PMTW (Tons/day)	PM10_PMBW (Tons/day)
Los Angele	2019 Annual	LDA		0	80.416694	1821.112579	0.001460195	0	2.11E-04	0.001671157	0.040955044	0.1881373
Los Angele	2019 Annual	LDA		0	0	0	0	0	0	0	0	0
Los Angele	2019 Annual	LDA		0	85.4263332	1976.060429	0.001585972	0	2.91E-04	0.001877307	0.044475596	0.2043098
Los Angele	2019 Annual	LDA		0	0	0.188155689	3.12E-06	0	0	3.12E-06	5.15E-06	2.37E-05
Los Angele	2019 Annual	LDA		0	75.9576288	1794.723436	0.001922398	0	4.09E-04	0.002331555	0.040358264	0.1853958
Los Angele	2019 Annual	LDA		0	0	6.361858173	1.02E-04	0	0	1.02E-04	1.74E-04	8.00E-04
Los Angele	2019 Annual	LDA		0	95.45945208	2311.867989	0.002568912	0	6.57E-04	0.00322633	0.053934224	0.2477604
Los Angele	2019 Annual	LDA		0	0	11.43804876	1.85E-04	0	0	1.85E-04	3.24E-04	0.001489838
Los Angele	2019 Annual	LDA		0	85.84747645	2135.692055	0.004017585	0	0.001241807	0.005259392	0.056232464	0.2583179
Los Angele	2019 Annual	LDA		0	0	9.676496778	1.70E-04	0	0	1.70E-04	3.09E-04	0.001420884
Los Angele	2019 Annual	LDA		0	79.91549723	2051.520503	0.005902287	0	0.001863532	0.007765819	0.061961651	0.2846364
Los Angele	2019 Annual	LDA		0	0	8.544479602	1.66E-04	0	0	1.66E-04	3.13E-04	0.001437737
Los Angele	2019 Annual	LDA		0	78.17981226	2080.442082	0.009222872	0	0.003504628	0.0127275	0.064549744	0.2965254
Los Angele	2019 Annual	LDA		0	0	8.047978001	1.53E-04	0	0	1.53E-04	3.02E-04	0.001389536
Los Angele	2019 Annual	LDA		0	79.47508614	2198.649807	0.013303517	0	0.005153733	0.018457251	0.069834903	0.3208041
Los Angele	2019 Annual	LDA		0	0	7.214981537	1.34E-04	0	0	1.34E-04	2.77E-04	0.001273707
Los Angele	2019 Annual	LDA		0	78.47556622	2272.850987	0.017945042	0	0.006832186	0.024777227	0.075365268	0.3462092
Los Angele	2019 Annual	LDA		0	0	6.868105543	1.26E-04	0	0	1.26E-04	2.75E-04	0.001263952
Los Angele	2019 Annual	LDA		0	75.75917983	2318.513522	0.021919611	0	0.008001178	0.029920788	0.080056004	0.3677573
Los Angele	2019 Annual	LDA		0	0	6.189628856	1.11E-04	0	0	1.11E-04	2.58E-04	0.001184169
Los Angele	2019 Annual	LDA		0	77.31047509	2526.400128	0.026009532	0	0.008926462	0.034935994	0.087397948	0.4014843
Los Angele	2019 Annual	LDA		0	0	6.517216442	1.09E-04	0	0	1.09E-04	2.71E-04	0.001246841
Los Angele	2019 Annual	LDA		0	79.12578974	2818.670118	0.030248513	0	0.009528887	0.0397774	0.097739391	0.4489904
Los Angele	2019 Annual	LDA		0	0	6.611063811	1.02E-04	0	0	1.02E-04	2.75E-04	0.001264795
Los Angele	2019 Annual	LDA		0	79.86894872	3250.465268	0.034997038	0	0.009646022	0.04464306	0.1130884	0.5195
Los Angele	2019 Annual	LDA		0	0	7.261911016	1.02E-04	0	0	1.02E-04	3.02E-04	0.001389312
Los Angele	2019 Annual	LDT1		0	5.08484828	132.5885091	9.19E-05	0	1.15E-05	1.03E-04	0.002574221	0.011825328
Los Angele	2019 Annual	LDT1		0	0	0	0	0	0	0	0	0
Los Angele	2019 Annual	LDT1		0	10.5385264	278.0848809	1.93E-04	0	3.09E-05	2.24E-04	0.005406401	0.024835657
Los Angele	2019 Annual	LDT1		0	0	0	0	0	0	0	0	0
Los Angele	2019 Annual	LDT1		0	9.553694	255.0011847	2.36E-04	0	4.42E-05	2.80E-04	0.004951375	0.022745386
Los Angele	2019 Annual	LDT1		0	0	0	0	0	0	0	0	0
Los Angele	2019 Annual	LDT1		0	10.18755827	275.9140441	2.65E-04	0	6.03E-05	3.25E-04	0.005558309	0.025533488



Los Angele	2018 Annual	T6 instate heavy	0.005765545	0.001566889	4.34E-06	0	0.001571233	8.55E-05	0.0015924	0.003249154	3.17E-04
Los Angele	2018 Annual	T6 instate heavy	0.003507884	9.24E-04	2.38E-06	0	9.26E-04	5.27E-05	9.81E-04	0.001960613	1.95E-04
Los Angele	2018 Annual	T6 instate heavy	0.006729713	0.00171082	6.79E-06	0	0.001717615	1.02E-04	0.001908337	0.00372844	3.67E-04
Los Angele	2018 Annual	T6 instate heavy	0.005552448	0.001356532	4.11E-06	0	0.001360638	8.59E-05	0.001598605	0.003045097	3.07E-04
Los Angele	2018 Annual	T6 instate heavy	0.005982901	0.001396443	3.53E-06	0	0.001399976	9.40E-05	0.001750752	0.003244753	3.36E-04
Los Angele	2018 Annual	T6 instate heavy	0.006965546	0.001344583	4.12E-06	0	0.001348705	1.16E-04	0.002158252	0.003622867	4.14E-04
Los Angele	2018 Annual	T6 instate heavy	0.007757994	0.00142371	4.44E-06	0	0.001428148	1.31E-04	0.002435353	0.003994293	4.67E-04
Los Angele	2018 Annual	T6 instate heavy	0.008601395	0.001490323	4.82E-06	0	0.00149514	1.47E-04	0.002737761	0.004379935	5.25E-04
Los Angele	2018 Annual	T6 instate heavy	0.009282894	0.00150699	5.18E-06	0	0.001512167	1.61E-04	0.002997946	0.00467112	5.75E-04
Los Angele	2018 Annual	T6 instate heavy	0.010342788	0.001560464	5.88E-06	0	0.001566345	1.82E-04	0.003390781	0.00513923	6.50E-04
Los Angele	2018 Annual	T6 instate heavy	0.009125114	0.00126938	5.27E-06	0	0.001274648	1.63E-04	0.003037344	0.004475115	5.82E-04
Los Angele	2018 Annual	T6 instate heavy	9.39E-04	1.19E-04	1.32E-06	0	1.20E-04	1.70E-05	3.17E-04	4.55E-04	6.08E-05
Los Angele	2018 Annual	LDA/LDT1	5.384387483	0.152707948	0	0.047542716	0.200250664	0.230996609	1.819098433	2.250345706	0.435145383
Los Angele	2018 Annual	T6 instate heavy	0.086619594	0.017364528	5.67049E-05	0	0.017421233	0.001426517	0.026561744	0.045409494	0.005125029

EMFAC 2011

2019 Estimated Annual Emissions

EMFAC 2011 Vehicle Categories

Los Angeles COUNTY

South Coast AIR BASIN

South Coast AQMD

Area	CalYr	Season	Veh	PM10_TOTAL (Tons/day)	PM2_5_RUNEX (Tons/day)	PM2_5_IDLEX (Tons/day)	PM2_5_STREX (Tons/day)	PM2_5_TOTEX (Tons/day)	PM2_5_PMTW (Tons/day)	PM2_5_PMBW (Tons/day)	PM2_5_TOTAL (Tons/day)	SOX_RUNEX (Tons/day)
Los Angele	2019 Annual	LDA		0.230763501	0.00135482	0	1.96E-04	0.001550558	0.010238761	0.080630258	0.092419577	0.018952377
Los Angele	2019 Annual	LDA		0	0	0	0	0	0	0	0	0
Los Angele	2019 Annual	LDA		0.250662703	0.00147152	0	2.70E-04	0.001741832	0.011118899	0.087561354	0.100422085	0.020578498
Los Angele	2019 Annual	LDA		3.19E-05	2.87E-06	0	0	2.87E-06	1.29E-06	1.01E-05	1.43E-05	1.95E-06
Los Angele	2019 Annual	LDA		0.228085619	0.001783669	0	3.80E-04	0.002163298	0.010089566	0.079455324	0.091708188	0.018706623
Los Angele	2019 Annual	LDA		0.001076096	9.42E-05	0	0	9.42E-05	4.35E-05	3.43E-04	4.80E-04	6.60E-05
Los Angele	2019 Annual	LDA		0.304920954	0.002383526	0	6.10E-04	0.002993502	0.013483556	0.106183	0.122660058	0.024995176
Los Angele	2019 Annual	LDA		0.001998873	1.70E-04	0	0	1.70E-04	8.11E-05	6.39E-04	8.90E-04	1.23E-04
Los Angele	2019 Annual	LDA		0.319809756	0.003727657	0	0.001152192	0.004879849	0.014058116	0.1107077	0.129645665	0.026058553
Los Angele	2019 Annual	LDA		0.001900315	1.57E-04	0	0	1.57E-04	7.73E-05	6.09E-04	8.43E-04	1.17E-04
Los Angele	2019 Annual	LDA		0.35436387	0.005476348	0	0.00172905	0.007205398	0.015490413	0.121987	0.144682811	0.028718846
Los Angele	2019 Annual	LDA		0.001916359	1.52E-04	0	0	1.52E-04	7.82E-05	6.16E-04	8.47E-04	1.19E-04
Los Angele	2019 Annual	LDA		0.373802644	0.008557305	0	0.003251717	0.011809022	0.016137436	0.1270823	0.155028758	0.029923372
Los Angele	2019 Annual	LDA		0.00184545	1.41E-04	0	0	1.41E-04	7.56E-05	5.96E-04	8.12E-04	1.15E-04
Los Angele	2019 Annual	LDA		0.409096254	0.012343469	0	0.004781814	0.017125283	0.017458726	0.1374875	0.172071509	0.032376658
Los Angele	2019 Annual	LDA		0.001684859	1.23E-04	0	0	1.23E-04	6.93E-05	5.46E-04	7.38E-04	1.05E-04
Los Angele	2019 Annual	LDA		0.446351695	0.016650039	0	0.006339141	0.02298918	0.018841317	0.1483754	0.190205897	0.034939229
Los Angele	2019 Annual	LDA		0.001664943	1.16E-04	0	0	1.16E-04	6.88E-05	5.42E-04	7.26E-04	1.04E-04
Los Angele	2019 Annual	LDA		0.477734092	0.020337785	0	0.007423771	0.027761556	0.020014001	0.1576103	0.205385857	0.037115656
Los Angele	2019 Annual	LDA		0.00155294	1.02E-04	0	0	1.02E-04	6.44E-05	5.08E-04	6.74E-04	9.78E-05
Los Angele	2019 Annual	LDA		0.523818242	0.024132555	0	0.008282283	0.032414838	0.021849487	0.1720647	0.226329025	0.040524717
Los Angele	2019 Annual	LDA		0.001627419	1.00E-04	0	0	1.00E-04	6.79E-05	5.34E-04	7.03E-04	1.03E-04
Los Angele	2019 Annual	LDA		0.586507191	0.028065629	0	0.008841234	0.036906864	0.024434848	0.1924244	0.253766112	0.045325242
Los Angele	2019 Annual	LDA		0.00164246	9.41E-05	0	0	9.41E-05	6.88E-05	5.42E-04	7.05E-04	1.04E-04
Los Angele	2019 Annual	LDA		0.67723146	0.032471477	0	0.008949917	0.041421394	0.028272111	0.2226429	0.292336405	0.052450899
Los Angele	2019 Annual	LDA		0.001793985	9.41E-05	0	0	9.41E-05	7.56E-05	5.95E-04	7.65E-04	1.15E-04
Los Angele	2019 Annual	LDT1		0.014502921	8.53E-05	0	1.06E-05	9.59E-05	6.44E-04	0.005067998	0.005807465	0.00138768
Los Angele	2019 Annual	LDT1		0	0	0	0	0	0	0	0	0
Los Angele	2019 Annual	LDT1		0.030465795	1.79E-04	0	2.86E-05	2.08E-04	0.0013516	0.010643853	0.012203045	0.002910997
Los Angele	2019 Annual	LDT1		0	0	0	0	0	0	0	0	0
Los Angele	2019 Annual	LDT1		0.027976879	2.19E-04	0	4.10E-05	2.60E-04	0.001237844	0.00974802	0.011245767	0.00267035
Los Angele	2019 Annual	LDT1		0	0	0	0	0	0	0	0	0
Los Angele	2019 Annual	LDT1		0.03141673	2.46E-04	0	5.59E-05	3.01E-04	0.001389577	0.010942923	0.012633984	0.002995565

Los Angele	2018 Annual	T6 instate heavy	3.81E-06	0	3.20E-04	0	3.022572743	4.62E-04	1.99E-03	1.00E-02	1.32E-04	3.14E-04	1.22E-04	1.30E-04	2.48E-05
Los Angele	2018 Annual	T6 instate heavy	2.08E-06	0	1.97E-04	0	1.860387253	4.41E-04	1.89E-03	8.72E-03	1.26E-04	3.14E-04	1.16E-04	1.30E-04	2.47E-05
Los Angele	2018 Annual	T6 instate heavy	5.96E-06	0	3.73E-04	0	3.515822222	2.69E-04	1.20E-03	3.77E-03	1.20E-04	3.14E-04	1.11E-04	1.30E-04	2.41E-05
Los Angele	2018 Annual	T6 instate heavy	3.60E-06	0	3.11E-04	0	2.932056426	2.54E-04	1.12E-03	3.29E-03	1.14E-04	3.14E-04	1.05E-04	1.30E-04	2.39E-05
Los Angele	2018 Annual	T6 instate heavy	3.10E-06	0	3.40E-04	0	3.203136365	2.40E-04	1.05E-03	2.73E-03	1.07E-04	3.14E-04	9.85E-05	1.30E-04	2.39E-05
Los Angele	2018 Annual	T6 instate heavy	3.62E-06	0	4.17E-04	0	3.9377606	1.97E-04	8.65E-04	2.23E-03	8.36E-05	3.14E-04	7.70E-05	1.30E-04	2.38E-05
Los Angele	2018 Annual	T6 instate heavy	3.89E-06	0	4.71E-04	0	4.441567493	1.88E-04	8.25E-04	2.07E-03	7.85E-05	3.14E-04	7.22E-05	1.30E-04	2.38E-05
Los Angele	2018 Annual	T6 instate heavy	4.23E-06	0	5.29E-04	0	4.99166901	1.78E-04	7.84E-04	1.90E-03	7.31E-05	3.14E-04	6.73E-05	1.30E-04	2.38E-05
Los Angele	2018 Annual	T6 instate heavy	4.54E-06	0	5.79E-04	0	5.46525085	1.69E-04	7.43E-04	1.72E-03	6.75E-05	3.14E-04	6.21E-05	1.30E-04	2.38E-05
Los Angele	2018 Annual	T6 instate heavy	5.16E-06	0	6.55E-04	0	6.181597695	1.59E-04	7.03E-04	1.54E-03	6.18E-05	3.14E-04	5.69E-05	1.30E-04	2.38E-05
Los Angele	2018 Annual	T6 instate heavy	4.62E-06	0	5.87E-04	0	5.537260507	1.49E-04	6.63E-04	1.37E-03	5.62E-05	3.14E-04	5.17E-05	1.30E-04	2.38E-05
Los Angele	2018 Annual	T6 instate heavy	1.16E-06	0	6.19E-05	0	0.584402004	1.47E-04	7.14E-04	1.33E-03	5.08E-05	3.14E-04	4.68E-05	1.30E-04	2.41E-05
Los Angele	2018 Annual	LDA/LDT1	0	0.015512035	0.450657419	4794.34263	11.11296198	1.06E-04	1.48E-03	1.27E-04	4.12E-06	9.87E-05	3.82E-06	3.91E-05	8.60E-06
Los Angele	2018 Annual	T6 instate heavy	4.97566E-05	0	0.005174786	0	48.81634426	2.34E-04	1.03E-03	3.38E-03	8.78E-05	3.14E-04	8.08E-05	1.30E-04	2.40E-05

EMFAC 2011

2019 Estimated Annual Emissions

EMFAC 2011 Vehicle Categories

Los Angeles COUNTY

South Coast AIR BASIN

South Coast AQMD

Area	CalYr	Season	Veh	SOX_IDLEX (Tons/day)	SOX_STREX (Tons/day)	SOX_TOTEX (Tons/day)	FUEL_GAS (1000 Gallons)	FUEL_DSL (1000 Gallons)	exhaust	exhaust	exhaust	exhaust	tire wear a	exhaust	tire wear a	exhaust
									ROG lb/mile	CO lb/mile	NOx lb/mile	PM10 lb/mile	PM10 lb/mile	PM2.5 lb/mile	PM2.5 lb/mile	SOx lb/mile
Los Angele	2019 Annual	LDA		0	8.95E-04	0.019847784	211.7055	0	2.45E-04	2.30E-03	1.54E-04	7.20E-07	9.87E-05	6.68E-07	3.91E-05	8.55E-06
Los Angele	2019 Annual	LDA		0	0	0	0	0	0	0	0	0	0	0	0	0
Los Angele	2019 Annual	LDA		0	9.48E-04	0.021526898	229.6156	0	2.16E-04	2.07E-03	1.48E-04	7.44E-07	9.87E-05	6.91E-07	3.91E-05	8.54E-06
Los Angele	2019 Annual	LDA		0	0	1.95E-06	0	0.018406535	1.77E-05	1.66E-04	5.39E-04	1.07E-05	9.87E-05	9.82E-06	3.91E-05	6.69E-06
Los Angele	2019 Annual	LDA		0	8.43E-04	0.019549356	208.5223	0	1.95E-04	2.01E-03	1.54E-04	1.02E-06	9.87E-05	9.45E-07	3.91E-05	8.54E-06
Los Angele	2019 Annual	LDA		0	0	6.60E-05	0	0.6223556	1.71E-05	1.60E-04	5.24E-04	1.04E-05	9.87E-05	9.54E-06	3.91E-05	6.69E-06
Los Angele	2019 Annual	LDA		0	0.001096402	0.026091578	278.3046	0	1.74E-04	1.92E-03	1.58E-04	1.06E-06	9.87E-05	9.79E-07	3.91E-05	8.53E-06
Los Angele	2019 Annual	LDA		0	0	1.23E-04	0	1.159523	1.65E-05	1.55E-04	5.07E-04	1.00E-05	9.87E-05	9.24E-06	3.91E-05	6.69E-06
Los Angele	2019 Annual	LDA		0	0.001110925	0.027169478	289.802	0	1.55E-04	1.86E-03	1.55E-04	1.65E-06	9.87E-05	1.53E-06	3.91E-05	8.52E-06
Los Angele	2019 Annual	LDA		0	0	1.17E-04	0	1.105857	1.59E-05	1.49E-04	4.90E-04	9.70E-06	9.87E-05	8.92E-06	3.91E-05	6.69E-06
Los Angele	2019 Annual	LDA		0	0.001184274	0.02990312	318.9603	0	1.34E-04	1.80E-03	1.52E-04	2.21E-06	9.87E-05	2.05E-06	3.91E-05	8.51E-06
Los Angele	2019 Annual	LDA		0	0	1.19E-04	0	1.118973	1.53E-05	1.43E-04	4.71E-04	9.33E-06	9.87E-05	8.59E-06	3.91E-05	6.69E-06
Los Angele	2019 Annual	LDA		0	0.001187763	0.031111135	331.8454	0	1.12E-04	1.71E-03	1.46E-04	3.48E-06	9.87E-05	3.23E-06	3.91E-05	8.50E-06
Los Angele	2019 Annual	LDA		0	0	1.15E-04	0	1.081459	1.46E-05	1.36E-04	4.51E-04	8.95E-06	9.87E-05	8.23E-06	3.91E-05	6.69E-06
Los Angele	2019 Annual	LDA		0	0.001232882	0.03360954	358.4946	0	9.86E-05	1.59E-03	1.36E-04	4.66E-06	9.87E-05	4.33E-06	3.91E-05	8.49E-06
Los Angele	2019 Annual	LDA		0	0	1.05E-04	0	0.991311	1.38E-05	1.29E-04	4.30E-04	8.52E-06	9.87E-05	7.83E-06	3.91E-05	6.69E-06
Los Angele	2019 Annual	LDA		0	0.001266224	0.036205453	386.1837	0	8.52E-05	1.39E-03	1.27E-04	5.80E-06	9.87E-05	5.38E-06	3.91E-05	8.47E-06
Los Angele	2019 Annual	LDA		0	0	1.04E-04	0	0.9837188	1.30E-05	1.21E-04	4.07E-04	8.07E-06	9.87E-05	7.42E-06	3.91E-05	6.69E-06
Los Angele	2019 Annual	LDA		0	0.001268859	0.038384515	409.4266	0	7.53E-05	1.26E-03	1.17E-04	6.59E-06	9.87E-05	6.12E-06	3.91E-05	8.46E-06
Los Angele	2019 Annual	LDA		0	0	9.78E-05	0	0.9216243	1.22E-05	1.13E-04	3.83E-04	7.59E-06	9.87E-05	6.99E-06	3.91E-05	6.69E-06
Los Angele	2019 Annual	LDA		0	0.001293461	0.041818178	446.0516	0	6.69E-05	1.16E-03	1.08E-04	7.05E-06	9.87E-05	6.54E-06	3.91E-05	8.44E-06
Los Angele	2019 Annual	LDA		0	0	1.03E-04	0	0.9704016	1.13E-05	1.04E-04	3.57E-04	7.09E-06	9.87E-05	6.53E-06	3.91E-05	6.69E-06
Los Angele	2019 Annual	LDA		0	0.001322624	0.046647866	497.5672	0	5.87E-05	1.07E-03	9.88E-05	7.18E-06	9.87E-05	6.66E-06	3.91E-05	8.42E-06
Los Angele	2019 Annual	LDA		0	0	1.04E-04	0	0.9843752	1.03E-05	9.53E-05	3.30E-04	6.56E-06	9.87E-05	6.03E-06	3.91E-05	6.69E-06
Los Angele	2019 Annual	LDA		0	0.001333973	0.053784872	573.6938	0	4.95E-05	9.90E-04	8.94E-05	6.96E-06	9.87E-05	6.46E-06	3.91E-05	8.39E-06
Los Angele	2019 Annual	LDA		0	0	1.15E-04	0	1.081285	9.22E-06	8.51E-05	3.00E-04	5.96E-06	9.87E-05	5.49E-06	3.91E-05	6.69E-06
Los Angele	2019 Annual	LDT1		0	5.65E-05	0.001444136	15.40381	0	2.72E-04	2.29E-03	1.53E-04	7.08E-07	9.87E-05	6.57E-07	3.91E-05	9.89E-06
Los Angele	2019 Annual	LDT1		0	0	0	0	0	0	0	0	0	0	0	0	0
Los Angele	2019 Annual	LDT1		0	1.17E-04	0.003027689	32.2947	0	2.36E-04	2.06E-03	1.48E-04	7.30E-07	9.87E-05	6.77E-07	3.91E-05	9.88E-06
Los Angele	2019 Annual	LDT1		0	0	0	0	0	0	0	0	0	0	0	0	0
Los Angele	2019 Annual	LDT1		0	1.06E-04	0.002776058	29.6107	0	2.08E-04	1.99E-03	1.53E-04	9.98E-07	9.87E-05	9.26E-07	3.91E-05	9.89E-06
Los Angele	2019 Annual	LDT1		0	0	0	0	0	0	0	0	0	0	0	0	0
Los Angele	2019 Annual	LDT1		0	1.17E-04	0.003112275	33.19694	0	1.82E-04	1.91E-03	1.57E-04	1.03E-06	9.87E-05	9.57E-07	3.91E-05	9.88E-06

Los Angele	2018 Annual	T6 instate heavy	1.21E-03
Los Angele	2018 Annual	T6 instate heavy	1.21E-03
Los Angele	2018 Annual	T6 instate heavy	1.18E-03
Los Angele	2018 Annual	T6 instate heavy	1.17E-03
Los Angele	2018 Annual	T6 instate heavy	1.17E-03
Los Angele	2018 Annual	T6 instate heavy	1.17E-03
Los Angele	2018 Annual	T6 instate heavy	1.17E-03
Los Angele	2018 Annual	T6 instate heavy	1.17E-03
Los Angele	2018 Annual	T6 instate heavy	1.17E-03
Los Angele	2018 Annual	T6 instate heavy	1.17E-03
Los Angele	2018 Annual	T6 instate heavy	1.17E-03
Los Angele	2018 Annual	T6 instate heavy	1.17E-03
Los Angele	2018 Annual	T6 instate heavy	1.18E-03
Los Angele	2018 Annual	LDA/LDT1	3.10E-04
Los Angele	2018 Annual	T6 instate heavy	1.18E-03

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Los Angeles COUNTY

South Coast AIR BASIN

South Coast AQMD

Area	CalYr	Season	Veh	exhaust CO2 ton/mile
Los Angele	2019 Annual	LDA		3.92E-04
Los Angele	2019 Annual	LDA		
Los Angele	2019 Annual	LDA		3.92E-04
Los Angele	2019 Annual	LDA		3.22E-04
Los Angele	2019 Annual	LDA		3.92E-04
Los Angele	2019 Annual	LDA		3.22E-04
Los Angele	2019 Annual	LDA		3.78E-04
Los Angele	2019 Annual	LDA		3.11E-04
Los Angele	2019 Annual	LDA		3.35E-04
Los Angele	2019 Annual	LDA		2.76E-04
Los Angele	2019 Annual	LDA		2.92E-04
Los Angele	2019 Annual	LDA		2.41E-04
Los Angele	2019 Annual	LDA		2.84E-04
Los Angele	2019 Annual	LDA		2.35E-04
Los Angele	2019 Annual	LDA		2.78E-04
Los Angele	2019 Annual	LDA		2.29E-04
Los Angele	2019 Annual	LDA		2.66E-04
Los Angele	2019 Annual	LDA		2.20E-04
Los Angele	2019 Annual	LDA		2.55E-04
Los Angele	2019 Annual	LDA		2.12E-04
Los Angele	2019 Annual	LDA		2.55E-04
Los Angele	2019 Annual	LDA		2.12E-04
Los Angele	2019 Annual	LDA		2.54E-04
Los Angele	2019 Annual	LDA		2.12E-04
Los Angele	2019 Annual	LDA		2.53E-04
Los Angele	2019 Annual	LDA		2.12E-04
Los Angele	2019 Annual	LDT1		4.54E-04
Los Angele	2019 Annual	LDT1		
Los Angele	2019 Annual	LDT1		4.54E-04
Los Angele	2019 Annual	LDT1		
Los Angele	2019 Annual	LDT1		4.54E-04
Los Angele	2019 Annual	LDT1		
Los Angele	2019 Annual	LDT1		4.38E-04

Los Angele	2019 Annual	LDT1	DSL	2010 AllSpeeds	30.35523	1009.367463	192.7365	1.00E-05	0	0	1.00E-05
Los Angele	2019 Annual	LDT1	GAS	2011 AllSpeeds	17988.17	612187.5381	114932.9	0.007722362	0	0.006464803	0.014187165
Los Angele	2019 Annual	LDT1	DSL	2011 AllSpeeds	42.75296	1455.00759	273.1641	1.39E-05	0	0	1.39E-05
Los Angele	2019 Annual	LDT1	GAS	2012 AllSpeeds	17383.29	606783.077	111589.5	0.007433817	0	0.006099443	0.013533261
Los Angele	2019 Annual	LDT1	DSL	2012 AllSpeeds	31.64026	1104.442547	203.1102	1.01E-05	0	0	1.01E-05
Los Angele	2019 Annual	LDT1	GAS	2013 AllSpeeds	17639.02	633095.5638	113583.9	0.007501942	0	0.006008586	0.013510528
Los Angele	2019 Annual	LDT1	DSL	2013 AllSpeeds	41.1841	1478.176412	265.1991	1.29E-05	0	0	1.29E-05
Los Angele	2019 Annual	LDT1	GAS	2014 AllSpeeds	17747.77	657255.3131	114816.6	0.007361945	0	0.005785716	0.013147661
Los Angele	2019 Annual	LDT1	DSL	2014 AllSpeeds	38.02504	1408.192501	245.9974	1.16E-05	0	0	1.16E-05
Los Angele	2019 Annual	LDT1	GAS	2015 AllSpeeds	18573.1	712818.5869	120527.4	0.007123314	0	0.005568635	0.012691949
Los Angele	2019 Annual	LDT1	DSL	2015 AllSpeeds	39.06543	1499.302763	253.5092	1.16E-05	0	0	1.16E-05
Los Angele	2019 Annual	LDT1	GAS	2016 AllSpeeds	18626.61	745579.8442	121060.9	0.006933323	0	0.005236942	0.012170265
Los Angele	2019 Annual	LDT1	DSL	2016 AllSpeeds	47.77551	1912.35264	310.5097	1.38E-05	0	0	1.38E-05
Los Angele	2019 Annual	LDT1	GAS	2017 AllSpeeds	18948.56	798880.144	123532.2	0.007028096	0	0.005026872	0.012054969
Los Angele	2019 Annual	LDT1	DSL	2017 AllSpeeds	31.89508	1344.718729	207.9351	8.98E-06	0	0	8.98E-06
Los Angele	2019 Annual	LDT1	GAS	2018 AllSpeeds	19132.59	864098.3142	125114.6	0.007122182	0	0.004723337	0.011845519
Los Angele	2019 Annual	LDT1	DSL	2018 AllSpeeds	33.24561	1501.502899	217.4045	9.15E-06	0	0	9.15E-06
Los Angele	2019 Annual	LDT1	GAS	2019 AllSpeeds	18910.17	950903.4225	124038.3	0.007148633	0	0.004206132	0.011354764
Los Angele	2019 Annual	LDT1	DSL	2019 AllSpeeds	37.61664	1891.575252	246.7405	1.03E-05	0	0	1.03E-05
Los Angele	2019 Annual	T6 instate heavy	DSL	2007 AllSpeeds	454.3069294	22556.40196	0	0.00546101	1.05E-04	0	0.005566129
Los Angele	2019 Annual	T6 instate heavy	DSL	2008 AllSpeeds	444.4600436	22525.24145	0	0.005255089	1.03E-04	0	0.00535793
Los Angele	2019 Annual	T6 instate heavy	DSL	2009 AllSpeeds	257.8615255	14551.50721	0	0.003257903	5.97E-05	0	0.003317569
Los Angele	2019 Annual	T6 instate heavy	DSL	2010 AllSpeeds	735.9126326	31630.71674	0	0.004188499	1.70E-04	0	0.004358778
Los Angele	2019 Annual	T6 instate heavy	DSL	2011 AllSpeeds	381.7204168	20653.97926	0	0.002625929	8.83E-05	0	0.002714253
Los Angele	2019 Annual	T6 instate heavy	DSL	2012 AllSpeeds	330.208152	22386.60926	0	0.002720543	7.64E-05	0	0.002796948
Los Angele	2019 Annual	T6 instate heavy	DSL	2013 AllSpeeds	415.3922388	29883.57529	0	0.002937828	9.61E-05	0	0.003033943
Los Angele	2019 Annual	T6 instate heavy	DSL	2014 AllSpeeds	497.2217843	37786.67345	0	0.003558989	1.15E-04	0	0.003674038
Los Angele	2019 Annual	T6 instate heavy	DSL	2015 AllSpeeds	526.2535548	41917.30126	0	0.003765482	1.22E-04	0	0.003887249
Los Angele	2019 Annual	T6 instate heavy	DSL	2016 AllSpeeds	552.6017124	45592.48899	0	0.003887511	1.28E-04	0	0.004015374
Los Angele	2019 Annual	T6 instate heavy	DSL	2017 AllSpeeds	604.8474213	50838.51282	0	0.004094445	1.40E-04	0	0.004234398
Los Angele	2019 Annual	T6 instate heavy	DSL	2018 AllSpeeds	659.1855675	55167.54547	0	0.004177359	1.53E-04	0	0.004329884
Los Angele	2019 Annual	T6 instate heavy	DSL	2019 AllSpeeds	590.120438	49387.60231	0	0.003502822	1.37E-04	0	0.003639367
Los Angele	2019 Annual	T6 instate heavy	DSL	2020 AllSpeeds	146.9933338	5125.959637	0	3.39E-04	3.40E-05	0	3.73E-04
Los Angele	2019 Annual	LDA/LDT1	GAS&DSL >2007	AllSpeeds	3040142.665	109508024.6	19555384.3	1.143412148	0	0.955178862	2.09859101
Los Angele	2019 Annual	T6 instate heavy	DSL >2007	AllSpeeds	6597.085751	450004.1151	0	0.049772385	0.001526462	0	0.051298847

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Area	CalYr	Season	Veh	Fuel	MdIYr	Speed (Miles/hr)	Pop (Vehicles)	VMT (Miles/day)	Trips (Trips/day)	ROG_RUNEX (Tons/day)	ROG_IDLEX (Tons/day)	ROG_STREX (Tons/day)	ROG_TOTEX (Tons/day)
Los Angele	2020 Annual	LDA	GAS	2007 AllSpeeds	153149.8	4026473.29	944840.2	0.055742779	0	0.061388474	0	0.117131253	
Los Angele	2020 Annual	LDA	DSL	2007 AllSpeeds	0	0	0	0	0	0	0	0	
Los Angele	2020 Annual	LDA	GAS	2008 AllSpeeds	165053.8	4458851.538	1026532	0.057171319	0	0.059423201	0	0.11659452	
Los Angele	2020 Annual	LDA	DSL	2008 AllSpeeds	20.2522	547.1091828	125.9561	4.98E-06	0	0	0	4.98E-06	
Los Angele	2020 Annual	LDA	GAS	2009 AllSpeeds	147893	4111231.002	925717.5	0.053484208	0	0.054182436	0	0.107666644	
Los Angele	2020 Annual	LDA	DSL	2009 AllSpeeds	675.8032	18786.46975	4230.105	1.66E-04	0	0	0	1.66E-04	
Los Angele	2020 Annual	LDA	GAS	2010 AllSpeeds	193595.9	5546320.459	1221468	0.072062153	0	0.070751823	0	0.142813976	
Los Angele	2020 Annual	LDA	DSL	2010 AllSpeeds	1211.951	34721.19516	7646.648	2.97E-04	0	0	0	2.97E-04	
Los Angele	2020 Annual	LDA	GAS	2011 AllSpeeds	197853.1	5853041.075	1256242	0.074481505	0	0.071344346	0	0.145825851	
Los Angele	2020 Annual	LDA	DSL	2011 AllSpeeds	1120.16	33137.47255	7112.304	2.74E-04	0	0	0	2.74E-04	
Los Angele	2020 Annual	LDA	GAS	2012 AllSpeeds	211148.8	6464230.356	1349106	0.080391228	0	0.074934699	0	0.155325927	
Los Angele	2020 Annual	LDA	DSL	2012 AllSpeeds	1050.813	32170.24209	6714.021	2.56E-04	0	0	0	2.56E-04	

Los Angele	2019 Annual	LDT1	0	0	0	0	1.00E-05	1.14E-05	0	0	1.14E-05
Los Angele	2019 Annual	LDT1	0.002052501	0.005427864	0.024486063	0.002256154	0.048409747	0.014372293	0	0.006902416	0.021274709
Los Angele	2019 Annual	LDT1	0	0	0	0	1.39E-05	1.58E-05	0	0	1.58E-05
Los Angele	2019 Annual	LDT1	0.001599156	0.00395295	0.019456578	0.00168042	0.040222364	0.013835275	0	0.006512325	0.0203476
Los Angele	2019 Annual	LDT1	0	0	0	0	1.01E-05	1.15E-05	0	0	1.15E-05
Los Angele	2019 Annual	LDT1	0.001309644	0.002925185	0.014719917	0.001313697	0.033778972	0.013962064	0	0.006415316	0.02037738
Los Angele	2019 Annual	LDT1	0	0	0	0	1.29E-05	1.47E-05	0	0	1.47E-05
Los Angele	2019 Annual	LDT1	0.001091284	0.002168535	0.013053211	0.001014776	0.030475466	0.013701511	0	0.006177359	0.019878871
Los Angele	2019 Annual	LDT1	0	0	0	0	1.16E-05	1.32E-05	0	0	1.32E-05
Los Angele	2019 Annual	LDT1	9.58E-04	0.001647729	0.012196867	8.17E-04	0.028311363	0.01325739	0	0.005945584	0.019202974
Los Angele	2019 Annual	LDT1	0	0	0	0	1.16E-05	1.32E-05	0	0	1.32E-05
Los Angele	2019 Annual	LDT1	8.50E-04	0.001263526	0.010944074	6.70E-04	0.025897087	0.012903792	0	0.005591438	0.01849523
Los Angele	2019 Annual	LDT1	0	0	0	0	1.38E-05	1.57E-05	0	0	1.57E-05
Los Angele	2019 Annual	LDT1	7.88E-04	0.001017497	0.010172009	5.78E-04	0.024610461	0.013080177	0	0.00536715	0.018447327
Los Angele	2019 Annual	LDT1	0	0	0	0	8.98E-06	1.02E-05	0	0	1.02E-05
Los Angele	2019 Annual	LDT1	7.33E-04	8.27E-04	0.009640051	5.04E-04	0.023550173	0.013255282	0	0.005043068	0.01829835
Los Angele	2019 Annual	LDT1	0	0	0	0	9.15E-06	1.04E-05	0	0	1.04E-05
Los Angele	2019 Annual	LDT1	6.92E-04	7.01E-04	0.008889173	4.54E-04	0.022090937	0.01330451	0	0.004490851	0.017795362
Los Angele	2019 Annual	LDT1	0	0	0	0	1.03E-05	1.18E-05	0	0	1.18E-05
Los Angele	2019 Annual	T6 instate heavy	0	0	0	0	0.005566129	0.006216944	1.20E-04	0	0.006336615
Los Angele	2019 Annual	T6 instate heavy	0	0	0	0	0.00535793	0.005982519	1.17E-04	0	0.006099596
Los Angele	2019 Annual	T6 instate heavy	0	0	0	0	0.003317569	0.003708875	6.79E-05	0	0.003776799
Los Angele	2019 Annual	T6 instate heavy	0	0	0	0	0.004358778	0.004768287	1.94E-04	0	0.004962137
Los Angele	2019 Annual	T6 instate heavy	0	0	0	0	0.002714253	0.00298942	1.01E-04	0	0.003089971
Los Angele	2019 Annual	T6 instate heavy	0	0	0	0	0.002796948	0.003097131	8.70E-05	0	0.003184113
Los Angele	2019 Annual	T6 instate heavy	0	0	0	0	0.003033943	0.003344494	1.09E-04	0	0.003453914
Los Angele	2019 Annual	T6 instate heavy	0	0	0	0	0.003674038	0.004051638	1.31E-04	0	0.004182613
Los Angele	2019 Annual	T6 instate heavy	0	0	0	0	0.003887249	0.004286715	1.39E-04	0	0.004425337
Los Angele	2019 Annual	T6 instate heavy	0	0	0	0	0.004015374	0.004425635	1.46E-04	0	0.004571198
Los Angele	2019 Annual	T6 instate heavy	0	0	0	0	0.004234398	0.004661214	1.59E-04	0	0.004820539
Los Angele	2019 Annual	T6 instate heavy	0	0	0	0	0.004329884	0.004755606	1.74E-04	0	0.004929244
Los Angele	2019 Annual	T6 instate heavy	0	0	0	0	0.003639367	0.003987696	1.55E-04	0	0.004143142
Los Angele	2019 Annual	T6 instate heavy	0	0	0	0	3.73E-04	3.86E-04	3.87E-05	0	4.25E-04
Los Angele	2019 Annual	LDA/LDT1	0.214041475	0.639470632	2.869929897	0.224559438	6.046592452	2.126241837	0	1.019836487	3.146078324
Los Angele	2019 Annual	T6 instate heavy	0	0	0	0	0.051298847	0.056662072	0.001737761	0	0.058399833

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Area	CalYr	Season	Veh	ROG_DIURN (Tons/day)	ROG_HTSK (Tons/day)	ROG_RUNLS (Tons/day)	ROG_RESTL (Tons/day)	ROG_TOTAL (Tons/day)	TOG_RUNEX (Tons/day)	TOG_IDLEX (Tons/day)	TOG_STREX (Tons/day)	TOG_TOTEX (Tons/day)
Los Angele	2020 Annual	LDA		0.027792906	0.1058116	0.2502188	0.033990216	0.534944775	0.103744372	0	0.065543957	0.169288329
Los Angele	2020 Annual	LDA		0	0	0	0	0	0	0	0	0
Los Angele	2020 Annual	LDA		0.026370671	0.09930478	0.2523803	0.031834085	0.526484356	0.106403059	0	0.06344565	0.169848709
Los Angele	2020 Annual	LDA		0	0	0	0	4.98E-06	5.67E-06	0	0	5.67E-06
Los Angele	2020 Annual	LDA		0.020476978	0.07572376	0.2104992	0.024309555	0.438676137	0.099540884	0	0.057850134	0.157391018
Los Angele	2020 Annual	LDA		0	0	0	0	1.66E-04	1.89E-04	0	0	1.89E-04
Los Angele	2020 Annual	LDA		0.023079589	0.08345338	0.2566625	0.026843481	0.532852926	0.134116785	0	0.075541131	0.209657916
Los Angele	2020 Annual	LDA		0	0	0	0	2.97E-04	3.39E-04	0	0	3.39E-04
Los Angele	2020 Annual	LDA		0.020037534	0.070067249	0.243423	0.022697808	0.502051442	0.138619514	0	0.076173767	0.214793281
Los Angele	2020 Annual	LDA		0	0	0	0	2.74E-04	3.12E-04	0	0	3.12E-04
Los Angele	2020 Annual	LDA		0.017690809	0.058855727	0.2392785	0.019324563	0.490475526	0.14961825	0	0.080007158	0.229625408
Los Angele	2020 Annual	LDA		0	0	0	0	2.56E-04	2.92E-04	0	0	2.92E-04

Los Angele	2019 Annual	LDT1	0	0	0	0	1.14E-05	9.34E-05	0	0	9.34E-05
Los Angele	2019 Annual	LDT1	0.002052501	0.005427864	0.024486063	0.002256154	0.055497291	0.452286931	0	0.1150989	0.567385831
Los Angele	2019 Annual	LDT1	0	0	0	0	1.58E-05	1.29E-04	0	0	1.29E-04
Los Angele	2019 Annual	LDT1	0.001599156	0.00395295	0.019456578	0.00168042	0.047036704	0.434399542	0	0.1075812	0.541980742
Los Angele	2019 Annual	LDT1	0	0	0	0	1.15E-05	9.38E-05	0	0	9.38E-05
Los Angele	2019 Annual	LDT1	0.001309644	0.002925185	0.014719917	0.001313697	0.040645824	0.434632896	0	0.1041541	0.538786996
Los Angele	2019 Annual	LDT1	0	0	0	0	1.47E-05	1.19E-04	0	0	1.19E-04
Los Angele	2019 Annual	LDT1	0.001091284	0.002168535	0.013053211	0.001014776	0.037206676	0.421060372	0	0.096956097	0.518016469
Los Angele	2019 Annual	LDT1	0	0	0	0	1.32E-05	1.07E-04	0	0	1.07E-04
Los Angele	2019 Annual	LDT1	9.58E-04	0.001647729	0.012196867	8.17E-04	0.034822388	0.404185629	0	0.087553285	0.491738914
Los Angele	2019 Annual	LDT1	0	0	0	0	1.32E-05	1.07E-04	0	0	1.07E-04
Los Angele	2019 Annual	LDT1	8.50E-04	0.001263526	0.010944074	6.70E-04	0.032222052	0.386842792	0	0.078760341	0.465603133
Los Angele	2019 Annual	LDT1	0	0	0	0	1.57E-05	1.28E-04	0	0	1.28E-04
Los Angele	2019 Annual	LDT1	7.88E-04	0.001017497	0.010172009	5.78E-04	0.031002819	0.386828132	0	0.073964797	0.460792929
Los Angele	2019 Annual	LDT1	0	0	0	0	1.02E-05	8.26E-05	0	0	8.26E-05
Los Angele	2019 Annual	LDT1	7.33E-04	8.27E-04	0.009640051	5.04E-04	0.030003004	0.392321659	0	0.069618441	0.4619401
Los Angele	2019 Annual	LDT1	0	0	0	0	1.04E-05	8.38E-05	0	0	8.38E-05
Los Angele	2019 Annual	LDT1	6.92E-04	7.01E-04	0.008889173	4.54E-04	0.028531535	0.406220031	0	0.064816654	0.471036685
Los Angele	2019 Annual	LDT1	0	0	0	0	1.18E-05	9.43E-05	0	0	9.43E-05
Los Angele	2019 Annual	T6 instate heavy	0	0	0	0	0.006336615	0.023040954	0.001243045	0	0.024283999
Los Angele	2019 Annual	T6 instate heavy	0	0	0	0	0.006099596	0.022172138	0.001216102	0	0.023388241
Los Angele	2019 Annual	T6 instate heavy	0	0	0	0	0.003776799	0.013745663	7.06E-04	0	0.014451207
Los Angele	2019 Annual	T6 instate heavy	0	0	0	0	0.004962137	0.017672009	0.002013556	0	0.019685565
Los Angele	2019 Annual	T6 instate heavy	0	0	0	0	0.003089971	0.011079253	0.001044438	0	0.012123691
Los Angele	2019 Annual	T6 instate heavy	0	0	0	0	0.003184113	0.011478447	9.03E-04	0	0.012381941
Los Angele	2019 Annual	T6 instate heavy	0	0	0	0	0.003453914	0.01239521	0.001136569	0	0.013531779
Los Angele	2019 Annual	T6 instate heavy	0	0	0	0	0.004182613	0.015015996	0.001360466	0	0.016376462
Los Angele	2019 Annual	T6 instate heavy	0	0	0	0	0.004425337	0.015887226	0.001439901	0	0.017327127
Los Angele	2019 Annual	T6 instate heavy	0	0	0	0	0.004571198	0.016402088	0.001511993	0	0.01791408
Los Angele	2019 Annual	T6 instate heavy	0	0	0	0	0.004820539	0.01727518	0.001654944	0	0.018930124
Los Angele	2019 Annual	T6 instate heavy	0	0	0	0	0.004929244	0.017625008	0.00180362	0	0.019428628
Los Angele	2019 Annual	T6 instate heavy	0	0	0	0	0.004143142	0.014779018	0.001614649	0	0.016393667
Los Angele	2019 Annual	T6 instate heavy	0	0	0	0	4.25E-04	0.001430192	4.02E-04	0	0.001832385
Los Angele	2019 Annual	LDA/LDT1	0.214041475	0.639470632	2.869929897	0.224559438	7.094079766	66.03960348	0	16.17051469	82.21011817
Los Angele	2019 Annual	T6 instate heavy	0	0	0	0	0.058399833	0.209998383	0.018050514	0	0.228048897

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Area	CalYr	Season	Veh	TOG_DIURN (Tons/day)	TOG_HTSK (Tons/day)	TOG_RUNLS (Tons/day)	TOG_RESTL (Tons/day)	TOG_TOTAL (Tons/day)	CO_RUNEX (Tons/day)	CO_IDLEX (Tons/day)	CO_STREX (Tons/day)	CO_TOTEX (Tons/day)	
Los Angele	2020 Annual	LDA		0.027792906	0.1058116	0.2502188	0.033990216	0.587101851	3.508567598		0	1.179917	4.688484598
Los Angele	2020 Annual	LDA		0	0	0	0	0	0	0	0	0	0
Los Angele	2020 Annual	LDA		0.026370671	0.09930478	0.2523803	0.031834085	0.579738545	3.550705365		0	1.139276	4.689981365
Los Angele	2020 Annual	LDA		0	0	0	0	5.67E-06	4.67E-05		0	0	4.67E-05
Los Angele	2020 Annual	LDA		0.020476978	0.07572376	0.2104992	0.024309555	0.488400511	3.22137316		0	1.000717	4.22209016
Los Angele	2020 Annual	LDA		0	0	0	0	1.89E-04	0.001556492		0	0	0.001556492
Los Angele	2020 Annual	LDA		0.023079589	0.08345338	0.2566625	0.026843481	0.599696866	4.203825468		0	1.2585	5.462325468
Los Angele	2020 Annual	LDA		0	0	0	0	3.39E-04	0.002785861		0	0	0.002785861
Los Angele	2020 Annual	LDA		0.020037534	0.070067249	0.243423	0.022697808	0.571018872	4.354168601		0	1.266492	5.620660601
Los Angele	2020 Annual	LDA		0	0	0	0	3.12E-04	0.002566127		0	0	0.002566127
Los Angele	2020 Annual	LDA		0.017690809	0.058855727	0.2392785	0.019324563	0.564775007	4.696381896		0	1.322732	6.019113896
Los Angele	2020 Annual	LDA		0	0	0	0	2.92E-04	0.002396519		0	0	0.002396519

Los Angele	2019 Annual	LDT1	3.11E-04	0	0	3.11E-04	0.353597272	0	0	0.353597272	0.313923658
Los Angele	2019 Annual	LDT1	0.04024986	0	0.007145526	0.047395386	290.676636	0	10.95694	301.633576	228.9136644
Los Angele	2019 Annual	LDT1	4.32E-04	0	0	4.32E-04	0.509712007	0	0	0.509712007	0.401408399
Los Angele	2019 Annual	LDT1	0.039169465	0	0.00674624	0.045915705	288.1765973	0	10.63742	298.8140173	198.0464847
Los Angele	2019 Annual	LDT1	3.15E-04	0	0	3.15E-04	0.386903544	0	0	0.386903544	0.265895592
Los Angele	2019 Annual	LDT1	0.039497473	0	0.006536795	0.046034269	300.7268628	0	10.82619	311.5530528	201.4148236
Los Angele	2019 Annual	LDT1	4.02E-04	0	0	4.02E-04	0.517828358	0	0	0.517828358	0.346820721
Los Angele	2019 Annual	LDT1	0.038250624	0	0.006001591	0.044252216	312.2839884	0	10.9432	323.2271884	204.5585038
Los Angele	2019 Annual	LDT1	3.64E-04	0	0	3.64E-04	0.493311893	0	0	0.493311893	0.323139022
Los Angele	2019 Annual	LDT1	0.039308595	0	0.005792621	0.045101215	338.7369229	0	11.48581	350.2227329	212.8487329
Los Angele	2019 Annual	LDT1	3.67E-04	0	0	3.67E-04	0.525229278	0	0	0.525229278	0.330033069
Los Angele	2019 Annual	LDT1	0.038107151	0	0.005144789	0.04325194	354.3930423	0	11.53601	365.9290523	214.2093305
Los Angele	2019 Annual	LDT1	4.39E-04	0	0	4.39E-04	0.669927155	0	0	0.669927155	0.40493077
Los Angele	2019 Annual	LDT1	0.038160003	0	0.00465522	0.042815223	379.8418365	0	11.77147	391.6133065	229.5915997
Los Angele	2019 Annual	LDT1	2.87E-04	0	0	2.87E-04	0.471076101	0	0	0.471076101	0.284737238
Los Angele	2019 Annual	LDT1	0.038384392	0	0.004107999	0.042492391	410.9182148	0	11.9206	422.8388148	248.3754057
Los Angele	2019 Annual	LDT1	2.96E-04	0	0	2.96E-04	0.526000053	0	0	0.526000053	0.317935472
Los Angele	2019 Annual	LDT1	0.038969573	0	0.003453709	0.042423283	452.3469895	0	11.81836	464.1653495	273.4166143
Los Angele	2019 Annual	LDT1	3.38E-04	0	0	3.38E-04	0.662648513	0	0	0.662648513	0.400531267
Los Angele	2019 Annual	T6 instate heavy	0.121816826	0.001877986	0	0.123694812	28.81706029	0.373481443	0	29.19054173	26.51169547
Los Angele	2019 Annual	T6 instate heavy	0.111963159	0.001837281	0	0.11380044	28.777251	0.365386411	0	29.14263741	26.47507092
Los Angele	2019 Annual	T6 instate heavy	0.063254223	0.001065932	0	0.064320155	18.59036123	0.211985529	0	18.80234676	17.10313233
Los Angele	2019 Annual	T6 instate heavy	0.058608214	0.00304207	0	0.061650284	39.05980875	0.604986836	0	39.66479558	35.93502405
Los Angele	2019 Annual	T6 instate heavy	0.034044808	0.001577932	0	0.03562274	25.50496995	0.313808755	0	25.8187787	23.46457235
Los Angele	2019 Annual	T6 instate heavy	0.031154954	0.001364994	0	0.032519948	27.64454196	0.271461008	0	27.91600296	25.4329786
Los Angele	2019 Annual	T6 instate heavy	0.033704901	0.001717123	0	0.035422024	36.81738645	0.341490043	0	37.15887649	33.87199553
Los Angele	2019 Annual	T6 instate heavy	0.039789976	0.002055384	0	0.04184536	46.55422069	0.40876134	0	46.96298204	42.82988304
Los Angele	2019 Annual	T6 instate heavy	0.040824905	0.002175394	0	0.043000299	51.64326773	0.432628085	0	52.07589582	47.51180631
Los Angele	2019 Annual	T6 instate heavy	0.040625497	0.002284311	0	0.042909808	56.17120007	0.454288657	0	56.62548873	51.67750406
Los Angele	2019 Annual	T6 instate heavy	0.040935472	0.002500281	0	0.043435752	62.63444567	0.497239362	0	63.13168503	57.62369002
Los Angele	2019 Annual	T6 instate heavy	0.03959618	0.0027249	0	0.04232108	67.96793293	0.541910239	0	68.50984317	62.5304983
Los Angele	2019 Annual	T6 instate heavy	0.03114674	0.002439403	0	0.033586143	60.84688403	0.485132448	0	61.33201647	55.9791333
Los Angele	2019 Annual	T6 instate heavy	0.002786339	6.08E-04	0	0.003393971	6.315323219	0.120841834	0	6.436165052	5.810097361
Los Angele	2019 Annual	LDA/LDT1	6.074958072	0	0.964409907	7.039367979	45292.1118	0	1615.615439	46907.72724	31511.65939
Los Angele	2019 Annual	T6 instate heavy	0.690252193	0.027270623	0	0.717522816	557.344654	5.423401989	0	562.7680559	512.7570816

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South Coast AIR BASIN

South Coast AQMD

Area	CalYr	Season	Veh	NOX_RUNEX (Tons/day)	NOX_IDLEX (Tons/day)	NOX_STREX (Tons/day)	NOX_TOTEX (Tons/day)	CO2_RUNEX (Tons/day)	CO2_IDLEX (Tons/day)	CO2_STREX (Tons/day)	CO2_TOTEX (Tons/day)	CO2_RUNEX(Pavt) (Tons/day)
Los Angele	2020 Annual	LDA		0.256203901	0	0.056252878	0.312456779	1640.197723	0	77.23307	1717.430793	1476.177951
Los Angele	2020 Annual	LDA			0	0	0	0	0	0	0	0
Los Angele	2020 Annual	LDA		0.27562355	0	0.058619801	0.334243351	1816.685727	0	83.92727	1900.612997	1635.017154
Los Angele	2020 Annual	LDA		1.51E-04	0	0	1.51E-04	0.19166093	0	0	0.19166093	0.172494837
Los Angele	2020 Annual	LDA		0.265101215	0	0.056114346	0.321215561	1678.260202	0	75.83044	1754.090642	1510.434182
Los Angele	2020 Annual	LDA		0.00506435	0	0	0.00506435	6.581194576	0	0	6.581194576	5.923075119
Los Angele	2020 Annual	LDA		0.367993551	0	0.077048093	0.445041644	2263.945085	0	100.0508	2363.995885	1966.236306
Los Angele	2020 Annual	LDA		0.009090317	0	0	0.009090317	12.16338025	0	0	12.16338025	10.56389575
Los Angele	2020 Annual	LDA		0.38486212	0	0.078156665	0.463018785	2389.163276	0	102.8999	2492.063176	1840.611388
Los Angele	2020 Annual	LDA		0.008400675	0	0	0.008400675	11.6085763	0	0	11.6085763	8.943247184
Los Angele	2020 Annual	LDA		0.420076235	0	0.082436152	0.502512387	2638.522473	0	110.5013	2749.023773	1773.878658
Los Angele	2020 Annual	LDA		0.0078744	0	0	0.0078744	11.26973998	0	0	11.26973998	7.576646191

Los Angele	2019 Annual	LDT1	0	0	0.313923658	5.13E-06	0	0	5.13E-06	8.90E-06	4.09E-05
Los Angele	2019 Annual	LDT1	0	8.628809389	237.5424738	3.86E-04	0	1.07E-04	4.93E-04	0.005398571	0.024799686
Los Angele	2019 Annual	LDT1	0	0	0.401408399	7.13E-06	0	0	7.13E-06	1.28E-05	5.89E-05
Los Angele	2019 Annual	LDT1	0	7.310460521	205.3569452	5.10E-04	0	1.46E-04	6.56E-04	0.005350911	0.024580751
Los Angele	2019 Annual	LDT1	0	0	0.265895592	5.20E-06	0	0	5.20E-06	9.74E-06	4.47E-05
Los Angele	2019 Annual	LDT1	0	7.250949014	208.6657726	7.97E-04	0	2.79E-04	0.001076471	0.005582947	0.025646666
Los Angele	2019 Annual	LDT1	0	0	0.346820721	6.66E-06	0	0	6.66E-06	1.30E-05	5.99E-05
Los Angele	2019 Annual	LDT1	0	7.168233728	211.7267375	0.001103583	0	3.99E-04	0.001502824	0.005796	0.026625382
Los Angele	2019 Annual	LDT1	0	0	0.323139022	6.03E-06	0	0	6.03E-06	1.24E-05	5.70E-05
Los Angele	2019 Annual	LDT1	0	7.217223572	220.0659565	0.001495878	0	5.40E-04	0.002035548	0.006285984	0.028876245
Los Angele	2019 Annual	LDT1	0	0	0.330033069	6.07E-06	0	0	6.07E-06	1.32E-05	6.07E-05
Los Angele	2019 Annual	LDT1	0	6.972825884	221.1821564	0.001799224	0	6.32E-04	0.002431723	0.006574889	0.0302034
Los Angele	2019 Annual	LDT1	0	0	0.40493077	7.27E-06	0	0	7.27E-06	1.69E-05	7.75E-05
Los Angele	2019 Annual	LDT1	0	7.115147327	236.706747	0.00209548	0	7.06E-04	0.002801079	0.007044917	0.032362591
Los Angele	2019 Annual	LDT1	0	0	0.284737238	4.76E-06	0	0	4.76E-06	1.19E-05	5.45E-05
Los Angele	2019 Annual	LDT1	0	7.205287464	255.5806932	0.002356884	0	7.45E-04	0.003102145	0.007620043	0.035004575
Los Angele	2019 Annual	LDT1	0	0	0.317935472	4.90E-06	0	0	4.90E-06	1.32E-05	6.08E-05
Los Angele	2019 Annual	LDT1	0	7.143489518	280.5601039	0.00259372	0	7.41E-04	0.003334713	0.008385534	0.038521051
Los Angele	2019 Annual	LDT1	0	0	0.400531267	5.62E-06	0	0	5.62E-06	1.67E-05	7.66E-05
Los Angele	2019 Annual	T6 instate heavy	0.343602927	0	26.85529839	0.001619025	4.41E-06	0	0.001623439	2.98E-04	0.003240797
Los Angele	2019 Annual	T6 instate heavy	0.336155498	0	26.81122642	0.00155994	4.32E-06	0	0.001564258	2.98E-04	0.00323632
Los Angele	2019 Annual	T6 instate heavy	0.195026686	0	17.29815902	9.68E-04	2.51E-06	0	9.71E-04	1.92E-04	0.002090692
Los Angele	2019 Annual	T6 instate heavy	0.556587889	0	36.49161194	0.00201449	7.15E-06	0	0.00202164	4.18E-04	0.004544551
Los Angele	2019 Annual	T6 instate heavy	0.288704055	0	23.7532764	0.001252438	3.71E-06	0	0.001256146	2.73E-04	0.002967466
Los Angele	2019 Annual	T6 instate heavy	0.249744127	0	25.68272273	0.001284933	3.21E-06	0	0.001288141	2.96E-04	0.003216402
Los Angele	2019 Annual	T6 instate heavy	0.314170839	0	34.18616637	0.001332745	4.04E-06	0	0.00133678	3.95E-04	0.00429353
Los Angele	2019 Annual	T6 instate heavy	0.376060433	0	43.20594347	0.001592309	4.83E-06	0	0.001597139	5.00E-04	0.00542901
Los Angele	2019 Annual	T6 instate heavy	0.398017838	0	47.90982415	0.00165751	5.11E-06	0	0.001662623	5.54E-04	0.006022479
Los Angele	2019 Annual	T6 instate heavy	0.417945564	0	52.09544963	0.001678732	5.37E-06	0	0.001684101	6.03E-04	0.006550513
Los Angele	2019 Annual	T6 instate heavy	0.457460213	0	58.08115023	0.001728552	5.88E-06	0	0.001734429	6.72E-04	0.007304236
Los Angele	2019 Annual	T6 instate heavy	0.49855742	0	63.02905572	0.001717279	6.40E-06	0	0.001723683	7.30E-04	0.007926211
Los Angele	2019 Annual	T6 instate heavy	0.446321852	0	56.42545516	0.001396108	5.73E-06	0	0.001401841	6.53E-04	0.007095776
Los Angele	2019 Annual	T6 instate heavy	0.111174487	0	5.921271848	1.30E-04	1.43E-06	0	1.32E-04	6.78E-05	7.36E-04
Los Angele	2019 Annual	LDA/LDT1	0	1152.594993	32664.25439	0.186548602	0	0.060710147	0.247258749	0.96569548	4.436164206
Los Angele	2019 Annual	T6 instate heavy	4.98952983	0	517.7466115	0.019932797	6.4095E-05	0	0.019996892	0.005952536	0.064654457

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Los Angeles COUNTY

South Coast AIR BASIN

South Coast AQMD

Area	CalYr	Season	Veh	CO2_IDLEX(Pavle (Tons/day)	CO2_STREX(Pavk (Tons/day)	CO2_TOTEX(Pavk (Tons/day)	PM10_RUNEX (Tons/day)	PM10_IDLEX (Tons/day)	PM10_STREX (Tons/day)	PM10_TOTEX (Tons/day)	PM10_PMTW (Tons/day)	PM10_PMBW (Tons/day)
Los Angele	2020 Annual	LDA		0	69.509763	1545.687714	0.00126582	0	1.86E-04	0.001452222	0.035507422	0.1631123
Los Angele	2020 Annual	LDA		0	0	0	0	0	0	0	0	0
Los Angele	2020 Annual	LDA		0	75.534543	1710.551697	0.001402024	0	2.63E-04	0.00166535	0.039320339	0.1806278
Los Angele	2020 Annual	LDA		0	0	0.172494837	3.00E-06	0	0	3.00E-06	4.82E-06	2.22E-05
Los Angele	2020 Annual	LDA		0	68.247396	1578.681578	0.001726926	0	3.76E-04	0.002102719	0.036254853	0.1665458
Los Angele	2020 Annual	LDA		0	0	5.923075119	1.00E-04	0	0	1.00E-04	1.66E-04	7.61E-04
Los Angele	2020 Annual	LDA		0	86.8941198	2053.130426	0.002329595	0	6.12E-04	0.002941323	0.048910171	0.2246812
Los Angele	2020 Annual	LDA		0	0	10.56389575	1.80E-04	0	0	1.80E-04	3.06E-04	0.001406554
Los Angele	2020 Annual	LDA		0	79.27408296	1919.885471	0.003687666	0	0.001172204	0.00485987	0.051614989	0.2371064
Los Angele	2020 Annual	LDA		0	0	8.943247184	1.66E-04	0	0	1.66E-04	2.92E-04	0.001342397
Los Angele	2020 Annual	LDA		0	74.29002399	1848.168682	0.005430069	0	0.001770849	0.007200918	0.05700475	0.2618656
Los Angele	2020 Annual	LDA		0	0	7.576646191	1.56E-04	0	0	1.56E-04	2.84E-04	0.001303215



Los Angele	2019 Annual	LDT1	5.49E-05	4.72E-06	0	0	4.72E-06	2.23E-06	1.75E-05	2.45E-05	3.38E-06
Los Angele	2019 Annual	LDT1	0.03069102	3.58E-04	0	9.95E-05	4.57E-04	0.001349643	0.010628437	0.012435283	0.002908973
Los Angele	2019 Annual	LDT1	7.89E-05	6.56E-06	0	0	6.56E-06	3.21E-06	2.53E-05	3.50E-05	4.87E-06
Los Angele	2019 Annual	LDT1	0.03058758	4.73E-04	0	1.36E-04	6.09E-04	0.001337728	0.010534607	0.012480918	0.002883722
Los Angele	2019 Annual	LDT1	5.97E-05	4.78E-06	0	0	4.78E-06	2.43E-06	1.92E-05	2.64E-05	3.69E-06
Los Angele	2019 Annual	LDT1	0.032306084	7.40E-04	0	2.59E-04	9.99E-04	0.001395737	0.010991428	0.013385952	0.003009003
Los Angele	2019 Annual	LDT1	7.96E-05	6.12E-06	0	0	6.12E-06	3.26E-06	2.57E-05	3.50E-05	4.94E-06
Los Angele	2019 Annual	LDT1	0.033924207	0.001023943	0	3.70E-04	0.001394373	0.001449	0.011410877	0.01425425	0.003124143
Los Angele	2019 Annual	LDT1	7.55E-05	5.55E-06	0	0	5.55E-06	3.10E-06	2.44E-05	3.31E-05	4.71E-06
Los Angele	2019 Annual	LDT1	0.037197777	0.001387928	0	5.01E-04	0.001888653	0.001571496	0.012375533	0.015835682	0.003387912
Los Angele	2019 Annual	LDT1	8.00E-05	5.58E-06	0	0	5.58E-06	3.31E-06	2.60E-05	3.49E-05	5.01E-06
Los Angele	2019 Annual	LDT1	0.039210012	0.001669383	0	5.87E-04	0.002256238	0.001643722	0.012944313	0.016844273	0.003543906
Los Angele	2019 Annual	LDT1	1.02E-04	6.69E-06	0	0	6.69E-06	4.22E-06	3.32E-05	4.41E-05	6.04E-06
Los Angele	2019 Annual	LDT1	0.042208587	0.00194426	0	6.55E-04	0.002598939	0.001761229	0.013869681	0.01822985	0.003797934
Los Angele	2019 Annual	LDT1	7.11E-05	4.38E-06	0	0	4.38E-06	2.96E-06	2.33E-05	3.07E-05	4.50E-06
Los Angele	2019 Annual	LDT1	0.045726762	0.002186799	0	6.91E-04	0.002878278	0.001905011	0.015001958	0.019785247	0.004108223
Los Angele	2019 Annual	LDT1	7.90E-05	4.51E-06	0	0	4.51E-06	3.31E-06	2.61E-05	3.39E-05	5.02E-06
Los Angele	2019 Annual	LDT1	0.050241297	0.002406544	0	6.88E-04	0.003094063	0.002096383	0.016509021	0.021699468	0.004521975
Los Angele	2019 Annual	LDT1	9.89E-05	5.17E-06	0	0	5.17E-06	4.17E-06	3.28E-05	4.22E-05	6.33E-06
Los Angele	2019 Annual	T6 instate heavy	0.005162606	0.001489503	4.06E-06	0	0.001493564	7.46E-05	0.001388913	0.002957069	2.75E-04
Los Angele	2019 Annual	T6 instate heavy	0.005098536	0.001435144	3.97E-06	0	0.001439117	7.45E-05	0.001386994	0.002900601	2.75E-04
Los Angele	2019 Annual	T6 instate heavy	0.003254175	8.91E-04	2.30E-06	0	8.93E-04	4.81E-05	8.96E-04	0.001837452	1.77E-04
Los Angele	2019 Annual	T6 instate heavy	0.006984594	0.001853331	6.58E-06	0	0.001859909	1.05E-04	0.001947665	0.003912174	3.73E-04
Los Angele	2019 Annual	T6 instate heavy	0.004496817	0.001152243	3.41E-06	0	0.001155655	6.83E-05	0.001271771	0.002495727	2.43E-04
Los Angele	2019 Annual	T6 instate heavy	0.004800667	0.001182139	2.95E-06	0	0.00118509	7.40E-05	0.001378458	0.002637579	2.64E-04
Los Angele	2019 Annual	T6 instate heavy	0.006025603	0.001226125	3.71E-06	0	0.001229838	9.88E-05	0.001840084	0.003168745	3.51E-04
Los Angele	2019 Annual	T6 instate heavy	0.007525982	0.001464924	4.44E-06	0	0.001469368	1.25E-04	0.002326719	0.003921045	4.44E-04
Los Angele	2019 Annual	T6 instate heavy	0.008239573	0.001524909	4.70E-06	0	0.001529613	1.39E-04	0.002581062	0.004249293	4.93E-04
Los Angele	2019 Annual	T6 instate heavy	0.008837699	0.001544433	4.94E-06	0	0.001549373	1.51E-04	0.002807363	0.004507507	5.36E-04
Los Angele	2019 Annual	T6 instate heavy	0.009711144	0.001590268	5.41E-06	0	0.001595675	1.68E-04	0.003130387	0.004894181	5.98E-04
Los Angele	2019 Annual	T6 instate heavy	0.010379636	0.001579897	5.89E-06	0	0.001585789	1.82E-04	0.003396948	0.005165172	6.48E-04
Los Angele	2019 Annual	T6 instate heavy	0.009150904	0.001284419	5.27E-06	0	0.001289694	1.63E-04	0.003041047	0.004494062	5.81E-04
Los Angele	2019 Annual	T6 instate heavy	9.36E-04	1.20E-04	1.31E-06	0	1.21E-04	1.70E-05	3.16E-04	4.54E-04	6.03E-05
Los Angele	2019 Annual	LDA/LDT1	5.649118434	0.173074401	0	0.056328996	0.229403397	0.241423882	1.901213227	2.372040506	0.453136048
Los Angele	2019 Annual	T6 instate heavy	0.090603884	0.018338173	5.89674E-05	0	0.01839714	0.001488134	0.027709053	0.047594327	0.005317329

EMFAC 2011

2020 Estimated Annual Emissions

EMFAC 2011 Vehicle Categories

Los Angeles COUNTY

South Coast AIR BASIN

South Coast AQMD

Area	CalYr	Season	Veh	PM10_TOTAL (Tons/day)	PM2_5_RUNEX (Tons/day)	PM2_5_IDLEX (Tons/day)	PM2_5_STREX (Tons/day)	PM2_5_TOTEX (Tons/day)	PM2_5_PMTW (Tons/day)	PM2_5_PMBW (Tons/day)	PM2_5_TOTAL (Tons/day)	SOX_RUNEX (Tons/day)
Los Angele	2020 Annual	LDA		0.200071944	0.001174472	0	1.73E-04	0.001347422	0.008876856	0.069905229	0.080129507	0.01643008
Los Angele	2020 Annual	LDA		0	0	0	0	0	0	0	0	0
Los Angele	2020 Annual	LDA		0.221613489	0.001300847	0	2.44E-04	0.00154517	0.009830085	0.077411935	0.088787189	0.018192479
Los Angele	2020 Annual	LDA		3.00E-05	2.76E-06	0	0	2.76E-06	1.21E-06	9.50E-06	1.35E-05	1.83E-06
Los Angele	2020 Annual	LDA		0.204903372	0.001602303	0	3.49E-04	0.001950977	0.009063713	0.071376756	0.082391446	0.016805382
Los Angele	2020 Annual	LDA		0.001027018	9.23E-05	0	0	9.23E-05	4.14E-05	3.26E-04	4.60E-04	6.28E-05
Los Angele	2020 Annual	LDA		0.276532694	0.00216148	0	5.68E-04	0.002729063	0.012227543	0.096291915	0.111248521	0.022667959
Los Angele	2020 Annual	LDA		0.001892818	1.66E-04	0	0	1.66E-04	7.65E-05	6.03E-04	8.45E-04	1.16E-04
Los Angele	2020 Annual	LDA		0.293581259	0.003421546	0	0.001087612	0.004509158	0.012903747	0.101617	0.119029905	0.023920342
Los Angele	2020 Annual	LDA		0.001801056	1.53E-04	0	0	1.53E-04	7.31E-05	5.75E-04	8.01E-04	1.11E-04
Los Angele	2020 Annual	LDA		0.326071268	0.005038208	0	0.001643056	0.006681264	0.014251187	0.1122281	0.133160551	0.026415074
Los Angele	2020 Annual	LDA		0.001742941	1.44E-04	0	0	1.44E-04	7.09E-05	5.59E-04	7.73E-04	1.08E-04

Los Angele	2019 Annual	LDT1	0	0	3.38E-06	0	0.031823754	1.99E-05	1.85E-04	6.15E-04	1.02E-05	9.87E-05	9.35E-06	3.91E-05	6.69E-06
Los Angele	2019 Annual	LDT1	0	1.11E-04	0.003020353	32.21645	0	1.58E-04	1.85E-03	1.55E-04	1.61E-06	9.87E-05	1.49E-06	3.91E-05	9.87E-06
Los Angele	2019 Annual	LDT1	0	0	4.87E-06	0	0.045874082	1.91E-05	1.78E-04	5.93E-04	9.81E-06	9.87E-05	9.02E-06	3.91E-05	6.69E-06
Los Angele	2019 Annual	LDT1	0	1.08E-04	0.002991784	31.91171	0	1.33E-04	1.79E-03	1.51E-04	2.16E-06	9.87E-05	2.01E-06	3.91E-05	9.86E-06
Los Angele	2019 Annual	LDT1	0	0	3.69E-06	0	0.03482132	1.83E-05	1.70E-04	5.70E-04	9.42E-06	9.87E-05	8.66E-06	3.91E-05	6.69E-06
Los Angele	2019 Annual	LDT1	0	1.10E-04	0.003118892	33.26751	0	1.07E-04	1.70E-03	1.45E-04	3.40E-06	9.87E-05	3.16E-06	3.91E-05	9.85E-06
Los Angele	2019 Annual	LDT1	0	0	4.94E-06	0	0.046604555	1.74E-05	1.62E-04	5.45E-04	9.00E-06	9.87E-05	8.28E-06	3.91E-05	6.69E-06
Los Angele	2019 Annual	LDT1	0	1.11E-04	0.00323508	34.50683	0	9.27E-05	1.58E-03	1.35E-04	4.57E-06	9.87E-05	4.24E-06	3.91E-05	9.84E-06
Los Angele	2019 Annual	LDT1	0	0	4.71E-06	0	0.044398077	1.65E-05	1.53E-04	5.17E-04	8.56E-06	9.87E-05	7.88E-06	3.91E-05	6.69E-06
Los Angele	2019 Annual	LDT1	0	1.16E-04	0.003504111	37.37644	0	7.94E-05	1.38E-03	1.27E-04	5.71E-06	9.87E-05	5.30E-06	3.91E-05	9.83E-06
Los Angele	2019 Annual	LDT1	0	0	5.01E-06	0	0.047270641	1.55E-05	1.43E-04	4.89E-04	8.09E-06	9.87E-05	7.44E-06	3.91E-05	6.69E-06
Los Angele	2019 Annual	LDT1	0	1.17E-04	0.003660458	39.04409	0	6.95E-05	1.25E-03	1.16E-04	6.52E-06	9.87E-05	6.05E-06	3.91E-05	9.82E-06
Los Angele	2019 Annual	LDT1	0	0	6.40E-06	0	0.060293444	1.45E-05	1.33E-04	4.59E-04	7.60E-06	9.87E-05	7.00E-06	3.91E-05	6.69E-06
Los Angele	2019 Annual	LDT1	0	1.19E-04	0.003916754	41.77787	0	6.16E-05	1.15E-03	1.07E-04	7.01E-06	9.87E-05	6.51E-06	3.91E-05	9.81E-06
Los Angele	2019 Annual	LDT1	0	0	4.50E-06	0	0.042396855	1.34E-05	1.23E-04	4.27E-04	7.08E-06	9.87E-05	6.51E-06	3.91E-05	6.69E-06
Los Angele	2019 Annual	LDT1	0	1.20E-04	0.004228454	45.1026	0	5.45E-05	1.07E-03	9.84E-05	7.18E-06	9.87E-05	6.66E-06	3.91E-05	9.79E-06
Los Angele	2019 Annual	LDT1	0	0	5.02E-06	0	0.047340006	1.22E-05	1.12E-04	3.94E-04	6.53E-06	9.87E-05	6.01E-06	3.91E-05	6.69E-06
Los Angele	2019 Annual	LDT1	0	1.19E-04	0.004641093	49.50399	0	4.65E-05	9.91E-04	8.92E-05	7.01E-06	9.87E-05	6.51E-06	3.91E-05	9.76E-06
Los Angele	2019 Annual	LDT1	0	0	6.33E-06	0	0.059638362	1.09E-05	9.97E-05	3.58E-04	5.94E-06	9.87E-05	5.46E-06	3.91E-05	6.69E-06
Los Angele	2019 Annual	T6 instate heavy	3.56E-06	0	2.78E-04	0	2.627148756	4.94E-04	2.15E-03	1.10E-02	1.44E-04	3.14E-04	1.32E-04	1.30E-04	2.47E-05
Los Angele	2019 Annual	T6 instate heavy	3.49E-06	0	2.78E-04	0	2.622837367	4.76E-04	2.08E-03	1.01E-02	1.39E-04	3.14E-04	1.28E-04	1.30E-04	2.47E-05
Los Angele	2019 Annual	T6 instate heavy	2.02E-06	0	1.79E-04	0	1.692211208	4.56E-04	1.99E-03	8.84E-03	1.33E-04	3.14E-04	1.23E-04	1.30E-04	2.47E-05
Los Angele	2019 Annual	T6 instate heavy	5.77E-06	0	3.78E-04	0	3.569831602	2.76E-04	1.24E-03	3.90E-03	1.28E-04	3.14E-04	1.18E-04	1.30E-04	2.39E-05
Los Angele	2019 Annual	T6 instate heavy	2.99E-06	0	2.46E-04	0	2.323690083	2.63E-04	1.17E-03	3.45E-03	1.22E-04	3.14E-04	1.12E-04	1.30E-04	2.39E-05
Los Angele	2019 Annual	T6 instate heavy	2.59E-06	0	2.66E-04	0	2.512440267	2.50E-04	1.11E-03	2.91E-03	1.15E-04	3.14E-04	1.06E-04	1.30E-04	2.38E-05
Los Angele	2019 Annual	T6 instate heavy	3.26E-06	0	3.55E-04	0	3.344298884	2.03E-04	9.06E-04	2.37E-03	8.95E-05	3.14E-04	8.23E-05	1.30E-04	2.37E-05
Los Angele	2019 Annual	T6 instate heavy	3.90E-06	0	4.48E-04	0	4.226668383	1.94E-04	8.67E-04	2.21E-03	8.45E-05	3.14E-04	7.78E-05	1.30E-04	2.37E-05
Los Angele	2019 Annual	T6 instate heavy	4.13E-06	0	4.97E-04	0	4.686830623	1.85E-04	8.27E-04	2.05E-03	7.93E-05	3.14E-04	7.30E-05	1.30E-04	2.37E-05
Los Angele	2019 Annual	T6 instate heavy	4.33E-06	0	5.40E-04	0	5.096293985	1.76E-04	7.86E-04	1.88E-03	7.39E-05	3.14E-04	6.80E-05	1.30E-04	2.37E-05
Los Angele	2019 Annual	T6 instate heavy	4.74E-06	0	6.02E-04	0	5.681851653	1.67E-04	7.45E-04	1.71E-03	6.82E-05	3.14E-04	6.28E-05	1.30E-04	2.37E-05
Los Angele	2019 Annual	T6 instate heavy	5.17E-06	0	6.54E-04	0	6.165885885	1.57E-04	7.04E-04	1.53E-03	6.25E-05	3.14E-04	5.75E-05	1.30E-04	2.37E-05
Los Angele	2019 Annual	T6 instate heavy	4.63E-06	0	5.85E-04	0	5.519881483	1.47E-04	6.64E-04	1.36E-03	5.68E-05	3.14E-04	5.22E-05	1.30E-04	2.37E-05
Los Angele	2019 Annual	T6 instate heavy	1.15E-06	0	6.14E-05	0	0.579254855	1.46E-04	7.15E-04	1.32E-03	5.14E-05	3.14E-04	4.73E-05	1.30E-04	2.40E-05
Los Angele	2019 Annual	LDA/LDT1	0	0.016410681	0.469546728	4995.38684	11.49975113	1.10E-04	1.50E-03	1.29E-04	4.52E-06	9.87E-05	4.19E-06	3.91E-05	8.58E-06
Los Angele	2019 Annual	T6 instate heavy	5.17418E-05	0	0.00536907	0	50.64912503	2.28E-04	1.01E-03	3.19E-03	8.89E-05	3.14E-04	8.18E-05	1.30E-04	2.39E-05

EMFAC 2011

2020 Estimated Annual Emissions

EMFAC 2011 Vehicle Categories

Los Angeles COUNTY

South Coast AIR BASIN

South Coast AQMD

Area	CalYr	Season	Veh	SOX_IDLEX (Tons/day)	SOX_STREX (Tons/day)	SOX_TOTEX (Tons/day)	FUEL_GAS (1000 Gallons)	FUEL_DSL (1000 Gallons)	exhaust ROG lb/mile	exhaust CO lb/mile	exhaust NOx lb/mile	exhaust PM10 lb/mile	tire wear a PM10 lb/mile	exhaust PM2.5 lb/mile	tire wear a PM2.5 lb/mile	SOx lb/mile
Los Angele	2020 Annual	LDA		0	7.91E-04	0.01722146	183.6919	0	2.66E-04	2.33E-03	1.55E-04	7.21E-07	9.87E-05	6.69E-07	3.91E-05	8.55E-06
Los Angele	2020 Annual	LDA		0	0	0	0	0	0	0	0	0	0	0	0	0
Los Angele	2020 Annual	LDA		0	8.58E-04	0.019049979	203.1957	0	2.36E-04	2.10E-03	1.50E-04	7.47E-07	9.87E-05	6.93E-07	3.91E-05	8.54E-06
Los Angele	2020 Annual	LDA		0	0	1.83E-06	0	0.017249484	1.82E-05	1.71E-04	5.54E-04	1.10E-05	9.87E-05	1.01E-05	3.91E-05	6.69E-06
Los Angele	2020 Annual	LDA		0	7.74E-04	0.017579722	187.5133	0	2.13E-04	2.05E-03	1.56E-04	1.02E-06	9.87E-05	9.49E-07	3.91E-05	8.55E-06
Los Angele	2020 Annual	LDA		0	0	6.28E-05	0	0.5923075	1.77E-05	1.66E-04	5.39E-04	1.07E-05	9.87E-05	9.82E-06	3.91E-05	6.69E-06
Los Angele	2020 Annual	LDA		0	0.001020672	0.023688631	252.6736	0	1.92E-04	1.97E-03	1.60E-04	1.06E-06	9.87E-05	9.84E-07	3.91E-05	8.54E-06
Los Angele	2020 Annual	LDA		0	0	1.16E-04	0	1.094704	1.71E-05	1.60E-04	5.24E-04	1.04E-05	9.87E-05	9.54E-06	3.91E-05	6.69E-06
Los Angele	2020 Annual	LDA		0	0.001049255	0.024969597	266.337	0	1.72E-04	1.92E-03	1.58E-04	1.66E-06	9.87E-05	1.54E-06	3.91E-05	8.53E-06
Los Angele	2020 Annual	LDA		0	0	1.11E-04	0	1.044772	1.65E-05	1.55E-04	5.07E-04	1.00E-05	9.87E-05	9.24E-06	3.91E-05	6.69E-06
Los Angele	2020 Annual	LDA		0	0.001126127	0.027541201	293.7669	0	1.52E-04	1.86E-03	1.55E-04	2.23E-06	9.87E-05	2.07E-06	3.91E-05	8.52E-06
Los Angele	2020 Annual	LDA		0	0	1.08E-04	0	1.014277	1.59E-05	1.49E-04	4.90E-04	9.70E-06	9.87E-05	8.92E-06	3.91E-05	6.69E-06

Los Angele	2019 Annual	LDT1	3.11E-04
Los Angele	2019 Annual	LDT1	3.88E-04
Los Angele	2019 Annual	LDT1	2.76E-04
Los Angele	2019 Annual	LDT1	3.38E-04
Los Angele	2019 Annual	LDT1	2.41E-04
Los Angele	2019 Annual	LDT1	3.30E-04
Los Angele	2019 Annual	LDT1	2.35E-04
Los Angele	2019 Annual	LDT1	3.22E-04
Los Angele	2019 Annual	LDT1	2.29E-04
Los Angele	2019 Annual	LDT1	3.09E-04
Los Angele	2019 Annual	LDT1	2.20E-04
Los Angele	2019 Annual	LDT1	2.97E-04
Los Angele	2019 Annual	LDT1	2.12E-04
Los Angele	2019 Annual	LDT1	2.96E-04
Los Angele	2019 Annual	LDT1	2.12E-04
Los Angele	2019 Annual	LDT1	2.96E-04
Los Angele	2019 Annual	LDT1	2.12E-04
Los Angele	2019 Annual	LDT1	2.95E-04
Los Angele	2019 Annual	LDT1	2.12E-04
Los Angele	2019 Annual	T6 instate heavy	1.19E-03
Los Angele	2019 Annual	T6 instate heavy	1.19E-03
Los Angele	2019 Annual	T6 instate heavy	1.19E-03
Los Angele	2019 Annual	T6 instate heavy	1.15E-03
Los Angele	2019 Annual	T6 instate heavy	1.15E-03
Los Angele	2019 Annual	T6 instate heavy	1.15E-03
Los Angele	2019 Annual	T6 instate heavy	1.14E-03
Los Angele	2019 Annual	T6 instate heavy	1.14E-03
Los Angele	2019 Annual	T6 instate heavy	1.14E-03
Los Angele	2019 Annual	T6 instate heavy	1.14E-03
Los Angele	2019 Annual	T6 instate heavy	1.14E-03
Los Angele	2019 Annual	T6 instate heavy	1.14E-03
Los Angele	2019 Annual	T6 instate heavy	1.14E-03
Los Angele	2019 Annual	T6 instate heavy	1.14E-03
Los Angele	2019 Annual	T6 instate heavy	1.16E-03
Los Angele	2019 Annual	LDA/LDT1	2.98E-04
Los Angele	2019 Annual	T6 instate heavy	1.15E-03

EMFAC 2011

2020 Estimated Annual Emissions

EMFAC 2011 Vehicle Categories

Los Angeles COUNTY

South Coast AIR BASIN

South Coast AQMD

Area	CalYr	Season	Veh	exhaust CO2 ton/mile
Los Angele	2020 Annual	LDA		3.84E-04
Los Angele	2020 Annual	LDA		
Los Angele	2020 Annual	LDA		3.84E-04
Los Angele	2020 Annual	LDA		3.15E-04
Los Angele	2020 Annual	LDA		3.84E-04
Los Angele	2020 Annual	LDA		3.15E-04
Los Angele	2020 Annual	LDA		3.70E-04
Los Angele	2020 Annual	LDA		3.04E-04
Los Angele	2020 Annual	LDA		3.28E-04
Los Angele	2020 Annual	LDA		2.70E-04
Los Angele	2020 Annual	LDA		2.86E-04
Los Angele	2020 Annual	LDA		2.36E-04

Los Angele	2020 Annual	LDA	GAS	2013 AllSpeeds	214410	6811883.632	1376375	0.082433318	0	0.074428491	0.156861809
Los Angele	2020 Annual	LDA	DSL	2013 AllSpeeds	1037.128	32949.99374	6657.696	2.52E-04	0	0	2.52E-04
Los Angele	2020 Annual	LDA	GAS	2014 AllSpeeds	221334.8	7320224.353	1425254	0.085931435	0	0.074793987	0.160725422
Los Angele	2020 Annual	LDA	DSL	2014 AllSpeeds	909.1592	30068.7631	5854.401	2.19E-04	0	0	2.19E-04
Los Angele	2020 Annual	LDA	GAS	2015 AllSpeeds	231587.8	8009076.028	1498223	0.089145137	0	0.075107314	0.164252451
Los Angele	2020 Annual	LDA	DSL	2015 AllSpeeds	857.937	29670.38693	5550.296	2.05E-04	0	0	2.05E-04
Los Angele	2020 Annual	LDA	GAS	2016 AllSpeeds	234044.6	8511593.488	1518797	0.08509174	0	0.070175275	0.155267015
Los Angele	2020 Annual	LDA	DSL	2016 AllSpeeds	758.2899	27577.1106	4920.809	1.79E-04	0	0	1.79E-04
Los Angele	2020 Annual	LDA	GAS	2017 AllSpeeds	237576.8	9158394.497	1544095	0.08537016	0	0.06692747	0.15229763
Los Angele	2020 Annual	LDA	DSL	2017 AllSpeeds	739.0627	28490.35046	4803.427	1.73E-04	0	0	1.73E-04
Los Angele	2020 Annual	LDA	GAS	2018 AllSpeeds	239990.7	9927236.109	1564583	0.087642151	0	0.063877411	0.151519562
Los Angele	2020 Annual	LDA	DSL	2018 AllSpeeds	688.707	28488.52031	4489.92	1.60E-04	0	0	1.60E-04
Los Angele	2020 Annual	LDA	GAS	2019 AllSpeeds	246041.3	1.12E+07	1608949	0.092375802	0	0.061033573	0.153409375
Los Angele	2020 Annual	LDA	DSL	2019 AllSpeeds	657.9922	29829.41588	4302.838	1.53E-04	0	0	1.53E-04
Los Angele	2020 Annual	LDA	GAS	2020 AllSpeeds	246566.5	1.29E+07	1617315	0.097169318	0	0.055169329	0.152338647
Los Angele	2020 Annual	LDA	DSL	2020 AllSpeeds	594.3916	30980.61828	3898.819	1.43E-04	0	0	1.43E-04
Los Angele	2020 Annual	LDT1	GAS	2007 AllSpeeds	8785.877	270267.164	54203.44	0.003847981	0	0.003611499	0.00745948
Los Angele	2020 Annual	LDT1	DSL	2007 AllSpeeds	0	0	0	0	0	0	0
Los Angele	2020 Annual	LDT1	GAS	2008 AllSpeeds	18399.31	576116.7055	114432.3	0.007571324	0	0.006767186	0.014338509
Los Angele	2020 Annual	LDT1	DSL	2008 AllSpeeds	0	0	0	0	0	0	0
Los Angele	2020 Annual	LDT1	GAS	2009 AllSpeeds	16537.82	527653.511	103516.4	0.006972379	0	0.006122886	0.013095264
Los Angele	2020 Annual	LDT1	DSL	2009 AllSpeeds	0	0	0	0	0	0	0
Los Angele	2020 Annual	LDT1	GAS	2010 AllSpeeds	18293.33	595367.7995	115419.4	0.007890619	0	0.006804253	0.014694872
Los Angele	2020 Annual	LDT1	DSL	2010 AllSpeeds	28.7782	936.6070995	181.5723	9.64E-06	0	0	9.64E-06
Los Angele	2020 Annual	LDT1	GAS	2011 AllSpeeds	17441.92	579974.2734	110745.1	0.00751004	0	0.006387013	0.013897053
Los Angele	2020 Annual	LDT1	DSL	2011 AllSpeeds	41.38587	1376.156511	262.774	1.37E-05	0	0	1.37E-05
Los Angele	2020 Annual	LDT1	GAS	2012 AllSpeeds	16943.48	576633.7476	108258	0.007273532	0	0.006089425	0.013362957
Los Angele	2020 Annual	LDT1	DSL	2012 AllSpeeds	30.23569	1029.008288	193.1867	9.83E-06	0	0	9.83E-06
Los Angele	2020 Annual	LDT1	GAS	2013 AllSpeeds	17286.64	603409.0658	110969.1	0.007391461	0	0.006064669	0.01345613
Los Angele	2020 Annual	LDT1	DSL	2013 AllSpeeds	40.3267	1407.653513	258.8716	1.29E-05	0	0	1.29E-05
Los Angele	2020 Annual	LDT1	GAS	2014 AllSpeeds	17409.37	624852.7948	112105.1	0.007403843	0	0.005929994	0.013333837
Los Angele	2020 Annual	LDT1	DSL	2014 AllSpeeds	37.82977	1357.782793	243.5993	1.18E-05	0	0	1.18E-05
Los Angele	2020 Annual	LDT1	GAS	2015 AllSpeeds	18259.26	676197.1138	118125.6	0.007572979	0	0.005951542	0.013524521
Los Angele	2020 Annual	LDT1	DSL	2015 AllSpeeds	37.92851	1404.617408	245.3729	1.16E-05	0	0	1.16E-05
Los Angele	2020 Annual	LDT1	GAS	2016 AllSpeeds	18327.69	703399.6438	118934.8	0.007029164	0	0.005495169	0.012524333
Los Angele	2020 Annual	LDT1	DSL	2016 AllSpeeds	47.77551	1833.589473	310.0321	1.42E-05	0	0	1.42E-05
Los Angele	2020 Annual	LDT1	GAS	2017 AllSpeeds	18671.82	747389.622	121354.7	0.006950034	0	0.005249545	0.01219958
Los Angele	2020 Annual	LDT1	DSL	2017 AllSpeeds	31.89508	1276.692618	207.2973	9.23E-06	0	0	9.23E-06
Los Angele	2020 Annual	LDT1	GAS	2018 AllSpeeds	18733.75	789823.4508	122131.9	0.006947457	0	0.004969195	0.011916652
Los Angele	2020 Annual	LDT1	DSL	2018 AllSpeeds	33.24561	1401.657952	216.7397	9.36E-06	0	0	9.36E-06
Los Angele	2020 Annual	LDT1	GAS	2019 AllSpeeds	18910.17	854052.8545	123660.1	0.007039573	0	0.004668552	0.011708125
Los Angele	2020 Annual	LDT1	DSL	2019 AllSpeeds	37.61664	1698.916099	245.9882	1.04E-05	0	0	1.04E-05
Los Angele	2020 Annual	LDT1	GAS	2020 AllSpeeds	19016.31	956240.5747	124734.5	0.007188317	0	0.004229482	0.0114178
Los Angele	2020 Annual	LDT1	DSL	2020 AllSpeeds	31.59509	1588.778183	207.2431	8.69E-06	0	0	8.69E-06
Los Angele	2020 Annual	T6 instate heavy	DSL	2007 AllSpeeds	442.372846	20333.34343	0	0.005088552	1.02E-04	0	0.00519091
Los Angele	2020 Annual	T6 instate heavy	DSL	2008 AllSpeeds	394.3362312	18871.85001	0	0.004568963	9.12E-05	0	0.004660206
Los Angele	2020 Annual	T6 instate heavy	DSL	2009 AllSpeeds	242.0823914	12845.32353	0	0.002996786	5.60E-05	0	0.0030528
Los Angele	2020 Annual	T6 instate heavy	DSL	2010 AllSpeeds	635.9135926	26969.55746	0	0.003705247	1.47E-04	0	0.003852387
Los Angele	2020 Annual	T6 instate heavy	DSL	2011 AllSpeeds	457.6823515	24823.24686	0	0.003287063	1.06E-04	0	0.003392963
Los Angele	2020 Annual	T6 instate heavy	DSL	2012 AllSpeeds	280.7007946	17905.89109	0	0.002276539	6.49E-05	0	0.002341489
Los Angele	2020 Annual	T6 instate heavy	DSL	2013 AllSpeeds	742.4097278	37132.8717	0	0.003794771	1.72E-04	0	0.003966553
Los Angele	2020 Annual	T6 instate heavy	DSL	2014 AllSpeeds	448.7060889	32290.81063	0	0.003174481	1.04E-04	0	0.003278305
Los Angele	2020 Annual	T6 instate heavy	DSL	2015 AllSpeeds	815.8625535	49814.04999	0	0.004691804	1.89E-04	0	0.004880582
Los Angele	2020 Annual	T6 instate heavy	DSL	2016 AllSpeeds	540.7040036	43084.29861	0	0.003870315	1.25E-04	0	0.003995425
Los Angele	2020 Annual	T6 instate heavy	DSL	2017 AllSpeeds	578.1650604	47718.77402	0	0.004068812	1.34E-04	0	0.00420259
Los Angele	2020 Annual	T6 instate heavy	DSL	2018 AllSpeeds	607.1588018	51053.27546	0	0.004111742	1.40E-04	0	0.004252229

Los Angele	2020 Annual	LDA	0.01517822	0.047359593	0.2202904	0.015949529	0.455639551	0.153418836	0	0.079466686	0.232885522
Los Angele	2020 Annual	LDA	0	0	0	0	2.52E-04	2.86E-04	0	0	2.86E-04
Los Angele	2020 Annual	LDA	0.012646832	0.035458289	0.1897082	0.01268597	0.411224713	0.159929276	0	0.07985691	0.239786186
Los Angele	2020 Annual	LDA	0	0	0	0	2.19E-04	2.49E-04	0	0	2.49E-04
Los Angele	2020 Annual	LDA	0.010731333	0.026199227	0.1815415	0.009933566	0.392658077	0.165910375	0	0.080191441	0.246101816
Los Angele	2020 Annual	LDA	0	0	0	0	2.05E-04	2.33E-04	0	0	2.33E-04
Los Angele	2020 Annual	LDA	0.009286619	0.019441601	0.1706907	0.007925924	0.362611859	0.158366497	0	0.074925564	0.233292061
Los Angele	2020 Annual	LDA	0	0	0	0	1.79E-04	2.04E-04	0	0	2.04E-04
Los Angele	2020 Annual	LDA	0.008340497	0.014769427	0.162658	0.006572793	0.344638347	0.158884668	0	0.071457893	0.230342561
Los Angele	2020 Annual	LDA	0	0	0	0	1.73E-04	1.97E-04	0	0	1.97E-04
Los Angele	2020 Annual	LDA	0.007560604	0.01123246	0.155357	0.005521333	0.331190959	0.163113136	0	0.068201385	0.231314521
Los Angele	2020 Annual	LDA	0	0	0	0	1.60E-04	1.82E-04	0	0	1.82E-04
Los Angele	2020 Annual	LDA	0.007257701	0.009244677	0.1521839	0.004991618	0.327087271	0.171923063	0	0.065165043	0.237088106
Los Angele	2020 Annual	LDA	0	0	0	0	1.53E-04	1.75E-04	0	0	1.75E-04
Los Angele	2020 Annual	LDA	0.006943998	0.007741623	0.1464024	0.004555953	0.317982622	0.180844404	0	0.058903821	0.239748225
Los Angele	2020 Annual	LDA	0	0	0	0	1.43E-04	1.63E-04	0	0	1.63E-04
Los Angele	2020 Annual	LDT1	0.002076048	0.00614378	0.021777133	0.002538961	0.039995402	0.00716158	0	0.003855967	0.011017547
Los Angele	2020 Annual	LDT1	0	0	0	0	0	0	0	0	0
Los Angele	2020 Annual	LDT1	0.003823475	0.011208364	0.040755242	0.004615603	0.074741193	0.014091191	0	0.007225268	0.021316459
Los Angele	2020 Annual	LDT1	0	0	0	0	0	0	0	0	0
Los Angele	2020 Annual	LDT1	0.002977609	0.008588316	0.032348122	0.003534912	0.060544224	0.012976478	0	0.006537355	0.019513833
Los Angele	2020 Annual	LDT1	0	0	0	0	0	0	0	0	0
Los Angele	2020 Annual	LDT1	0.002834347	0.008013218	0.031638492	0.003296582	0.060477511	0.01468544	0	0.007264844	0.021950284
Los Angele	2020 Annual	LDT1	0	0	0	0	9.64E-06	1.10E-05	0	0	1.10E-05
Los Angele	2020 Annual	LDT1	0.002295486	0.006296663	0.026492443	0.002600248	0.051581893	0.013977135	0	0.00681936	0.020796494
Los Angele	2020 Annual	LDT1	0	0	0	0	1.37E-05	1.56E-05	0	0	1.56E-05
Los Angele	2020 Annual	LDT1	0.001844714	0.004837305	0.022279233	0.002015075	0.044339283	0.013536963	0	0.006501629	0.020038592
Los Angele	2020 Annual	LDT1	0	0	0	0	9.83E-06	1.12E-05	0	0	1.12E-05
Los Angele	2020 Annual	LDT1	0.001590066	0.003930482	0.019345988	0.001670868	0.039993534	0.013756445	0	0.006475195	0.02023164
Los Angele	2020 Annual	LDT1	0	0	0	0	1.29E-05	1.47E-05	0	0	1.47E-05
Los Angele	2020 Annual	LDT1	0.001292537	0.002886975	0.014527638	0.001296537	0.033337524	0.013779489	0	0.006331404	0.020110893
Los Angele	2020 Annual	LDT1	0	0	0	0	1.18E-05	1.35E-05	0	0	1.35E-05
Los Angele	2020 Annual	LDT1	0.001099291	0.002167995	0.013444481	0.00101757	0.031253858	0.014094273	0	0.006354412	0.020448685
Los Angele	2020 Annual	LDT1	0	0	0	0	1.16E-05	1.32E-05	0	0	1.32E-05
Los Angele	2020 Annual	LDT1	9.45E-04	0.001625867	0.01203504	8.06E-04	0.02793651	0.013082163	0	0.005867146	0.01894931
Los Angele	2020 Annual	LDT1	0	0	0	0	1.42E-05	1.62E-05	0	0	1.62E-05
Los Angele	2020 Annual	LDT1	8.52E-04	0.00126659	0.01097061	6.71E-04	0.025959684	0.012934893	0	0.005604896	0.018539789
Los Angele	2020 Annual	LDT1	0	0	0	0	9.23E-06	1.05E-05	0	0	1.05E-05
Los Angele	2020 Annual	LDT1	7.67E-04	9.82E-04	0.010237754	5.60E-04	0.024463331	0.012930097	0	0.005305567	0.018235664
Los Angele	2020 Annual	LDT1	0	0	0	0	9.36E-06	1.07E-05	0	0	1.07E-05
Los Angele	2020 Annual	LDT1	7.25E-04	8.17E-04	0.009528238	4.98E-04	0.023277019	0.013101537	0	0.004984574	0.018086111
Los Angele	2020 Annual	LDT1	0	0	0	0	1.04E-05	1.18E-05	0	0	1.18E-05
Los Angele	2020 Annual	LDT1	6.96E-04	7.05E-04	0.00893852	4.57E-04	0.022213573	0.013378369	0	0.004515783	0.017894152
Los Angele	2020 Annual	LDT1	0	0	0	0	8.69E-06	9.89E-06	0	0	9.89E-06
Los Angele	2020 Annual	T6 instate heavy	0	0	0	0	0.00519091	0.005792929	1.17E-04	0	0.005909456
Los Angele	2020 Annual	T6 instate heavy	0	0	0	0	0.004660206	0.005201416	1.04E-04	0	0.00530529
Los Angele	2020 Annual	T6 instate heavy	0	0	0	0	0.0030528	0.003411612	6.38E-05	0	0.00347538
Los Angele	2020 Annual	T6 instate heavy	0	0	0	0	0.003852387	0.004218141	1.68E-04	0	0.004385649
Los Angele	2020 Annual	T6 instate heavy	0	0	0	0	0.003392963	0.003742071	1.21E-04	0	0.00386263
Los Angele	2020 Annual	T6 instate heavy	0	0	0	0	0.002341489	0.002591667	7.39E-05	0	0.002665607
Los Angele	2020 Annual	T6 instate heavy	0	0	0	0	0.003966553	0.004320058	1.96E-04	0	0.004515619
Los Angele	2020 Annual	T6 instate heavy	0	0	0	0	0.003278305	0.003613905	1.18E-04	0	0.003732101
Los Angele	2020 Annual	T6 instate heavy	0	0	0	0	0.004880582	0.005341262	2.15E-04	0	0.005556171
Los Angele	2020 Annual	T6 instate heavy	0	0	0	0	0.003995425	0.004406059	1.42E-04	0	0.004548488
Los Angele	2020 Annual	T6 instate heavy	0	0	0	0	0.00420259	0.004632033	1.52E-04	0	0.004784329
Los Angele	2020 Annual	T6 instate heavy	0	0	0	0	0.004252229	0.004680905	1.60E-04	0	0.004840839

Los Angele	2020 Annual	LDA	0.01517822	0.047359593	0.2202904	0.015949529	0.531663264	4.813440893	0	1.304559	6.117999893
Los Angele	2020 Annual	LDA	0	0	0	0	2.86E-04	0.002351633	0	0	0.002351633
Los Angele	2020 Annual	LDA	0.012646832	0.035458289	0.1897082	0.01268597	0.490285477	4.977610904	0	1.289956	6.267566904
Los Angele	2020 Annual	LDA	0	0	0	0	2.49E-04	0.002046261	0	0	0.002046261
Los Angele	2020 Annual	LDA	0.010731333	0.026199227	0.1815415	0.009933566	0.474507442	5.100513871	0	1.253991	6.354504871
Los Angele	2020 Annual	LDA	0	0	0	0	2.33E-04	0.001910233	0	0	0.001910233
Los Angele	2020 Annual	LDA	0.009286619	0.019441601	0.1706907	0.007925924	0.440636905	4.830365012	0	1.102744	5.933109012
Los Angele	2020 Annual	LDA	0	0	0	0	2.04E-04	0.001669609	0	0	0.001669609
Los Angele	2020 Annual	LDA	0.008340497	0.014769427	0.162658	0.006572793	0.422683277	4.767464833	0	1.007082	5.774546833
Los Angele	2020 Annual	LDA	0	0	0	0	1.97E-04	0.001609896	0	0	0.001609896
Los Angele	2020 Annual	LDA	0.007560604	0.01123246	0.155357	0.005521333	0.410985918	4.827888108	0	0.9402281	5.768116208
Los Angele	2020 Annual	LDA	0	0	0	0	1.82E-04	0.001487898	0	0	0.001487898
Los Angele	2020 Annual	LDA	0.007257701	0.009244677	0.1521839	0.004991618	0.410766001	5.088552197	0	0.8987569	5.987309097
Los Angele	2020 Annual	LDA	0	0	0	0	1.75E-04	0.001420975	0	0	0.001420975
Los Angele	2020 Annual	LDA	0.006943998	0.007741623	0.1464024	0.004555953	0.4053922	5.511673711	0	0.8473369	6.359010611
Los Angele	2020 Annual	LDA	0	0	0	0	1.63E-04	0.001318871	0	0	0.001318871
Los Angele	2020 Annual	LDT1	0.002076048	0.00614378	0.021777133	0.002538961	0.043553469	0.244011544	0	0.070467912	0.314479456
Los Angele	2020 Annual	LDT1	0	0	0	0	0	0	0	0	0
Los Angele	2020 Annual	LDT1	0.003823475	0.011208364	0.040755242	0.004615603	0.081719143	0.472249631	0	0.1313026	0.603552231
Los Angele	2020 Annual	LDT1	0	0	0	0	0	0	0	0	0
Los Angele	2020 Annual	LDT1	0.002977609	0.008588316	0.032348122	0.003534912	0.066962793	0.42273903	0	0.1148582	0.53759723
Los Angele	2020 Annual	LDT1	0	0	0	0	0	0	0	0	0
Los Angele	2020 Annual	LDT1	0.002834347	0.008013218	0.031638492	0.003296582	0.067732923	0.462042039	0	0.122366	0.584408039
Los Angele	2020 Annual	LDT1	0	0	0	0	1.10E-05	8.99E-05	0	0	8.99E-05
Los Angele	2020 Annual	LDT1	0.002295486	0.006296663	0.026492443	0.002600248	0.058481335	0.439761067	0	0.1143144	0.554075467
Los Angele	2020 Annual	LDT1	0	0	0	0	1.56E-05	1.27E-04	0	0	1.27E-04
Los Angele	2020 Annual	LDT1	0.001844714	0.004837305	0.022279233	0.002015075	0.051014918	0.426034881	0	0.1084241	0.534458981
Los Angele	2020 Annual	LDT1	0	0	0	0	1.12E-05	9.15E-05	0	0	9.15E-05
Los Angele	2020 Annual	LDT1	0.001590066	0.003930482	0.019345988	0.001670868	0.046769045	0.431927114	0	0.1069688	0.538895914
Los Angele	2020 Annual	LDT1	0	0	0	0	1.47E-05	1.20E-04	0	0	1.20E-04
Los Angele	2020 Annual	LDT1	0.001292537	0.002886975	0.014527638	0.001296537	0.04011458	0.428952096	0	0.1027927	0.531744796
Los Angele	2020 Annual	LDT1	0	0	0	0	1.35E-05	1.10E-04	0	0	1.10E-04
Los Angele	2020 Annual	LDT1	0.001099291	0.002167995	0.013444481	0.00101757	0.038178022	0.433128421	0	0.099734619	0.53286304
Los Angele	2020 Annual	LDT1	0	0	0	0	1.32E-05	1.07E-04	0	0	1.07E-04
Los Angele	2020 Annual	LDT1	9.45E-04	0.001625867	0.01203504	8.06E-04	0.034361487	0.398842682	0	0.08639732	0.485240002
Los Angele	2020 Annual	LDT1	0	0	0	0	1.62E-05	1.31E-04	0	0	1.31E-04
Los Angele	2020 Annual	LDT1	8.52E-04	0.00126659	0.01097061	6.71E-04	0.032299894	0.38777765	0	0.078950569	0.466728219
Los Angele	2020 Annual	LDT1	0	0	0	0	1.05E-05	8.51E-05	0	0	8.51E-05
Los Angele	2020 Annual	LDT1	7.67E-04	9.82E-04	0.010237754	5.60E-04	0.030782343	0.382389694	0	0.073116146	0.45550584
Los Angele	2020 Annual	LDT1	0	0	0	0	1.07E-05	8.61E-05	0	0	8.61E-05
Los Angele	2020 Annual	LDT1	7.25E-04	8.17E-04	0.009528238	4.98E-04	0.029655004	0.387771189	0	0.068810947	0.456582136
Los Angele	2020 Annual	LDT1	0	0	0	0	1.18E-05	9.49E-05	0	0	9.49E-05
Los Angele	2020 Annual	LDT1	6.96E-04	7.05E-04	0.00893852	4.57E-04	0.028689925	0.40847515	0	0.06517648	0.47365163
Los Angele	2020 Annual	LDT1	0	0	0	0	9.89E-06	7.92E-05	0	0	7.92E-05
Los Angele	2020 Annual	T6 instate heavy	0	0	0	0	0.005909456	0.02146949	0.001210392	0	0.022679882
Los Angele	2020 Annual	T6 instate heavy	0	0	0	0	0.00530529	0.019277251	0.001078957	0	0.020356208
Los Angele	2020 Annual	T6 instate heavy	0	0	0	0	0.00347538	0.012643962	6.62E-04	0	0.013306332
Los Angele	2020 Annual	T6 instate heavy	0	0	0	0	0.004385649	0.015633082	0.001739945	0	0.017373028
Los Angele	2020 Annual	T6 instate heavy	0	0	0	0	0.00386263	0.013868691	0.00125228	0	0.015120972
Los Angele	2020 Annual	T6 instate heavy	0	0	0	0	0.002665607	0.009605117	7.68E-04	0	0.010373152
Los Angele	2020 Annual	T6 instate heavy	0	0	0	0	0.004515619	0.016010802	0.002031333	0	0.018042135
Los Angele	2020 Annual	T6 instate heavy	0	0	0	0	0.003732101	0.013393691	0.00122772	0	0.014621412
Los Angele	2020 Annual	T6 instate heavy	0	0	0	0	0.005556171	0.01979554	0.00223231	0	0.022027849
Los Angele	2020 Annual	T6 instate heavy	0	0	0	0	0.004548488	0.016329534	0.001479439	0	0.017808973
Los Angele	2020 Annual	T6 instate heavy	0	0	0	0	0.004784329	0.017167028	0.001581937	0	0.018748965
Los Angele	2020 Annual	T6 instate heavy	0	0	0	0	0.004840839	0.017348157	0.001661268	0	0.019009426

Los Angele	2020 Annual	LDA	0.435695265	0	0.082066171	0.517761436	2781.194967	0	112.7308	2893.925767	1822.238942
Los Angele	2020 Annual	LDA	0.007759658	0	0	0.007759658	11.54289943	0	0	11.54289943	7.562907705
Los Angele	2020 Annual	LDA	0.453724756	0	0.081199884	0.53492464	2989.553342	0	116.7293	3106.282642	1915.705782
Los Angele	2020 Annual	LDA	0.006785126	0	0	0.006785126	10.53355886	0	0	10.53355886	6.74990452
Los Angele	2020 Annual	LDA	0.465465047	0	0.078081235	0.543546282	3271.694302	0	122.6979	3394.392202	2011.110487
Los Angele	2020 Annual	LDA	0.006371984	0	0	0.006371984	10.39400264	0	0	10.39400264	6.389193422
Los Angele	2020 Annual	LDA	0.469533132	0	0.072971299	0.542504431	3477.807373	0	124.3738	3602.181173	2056.4275
Los Angele	2020 Annual	LDA	0.005608275	0	0	0.005608275	9.66069434	0	0	9.66069434	5.712368563
Los Angele	2020 Annual	LDA	0.469331732	0	0.065852925	0.535184657	3743.091674	0	126.4399	3869.531574	2213.290107
Los Angele	2020 Annual	LDA	0.005452691	0	0	0.005452691	9.980617214	0	0	9.980617214	5.901538959
Los Angele	2020 Annual	LDA	0.476063632	0	0.059320845	0.535384477	4058.315417	0	128.1089	4186.424317	2399.681906
Los Angele	2020 Annual	LDA	0.00509058	0	0	0.00509058	9.979975683	0	0	9.979975683	5.901159621
Los Angele	2020 Annual	LDA	0.49787699	0	0.053259373	0.551136363	4560.98806	0	131.7342	4692.72226	2696.91224
Los Angele	2020 Annual	LDA	0.004923727	0	0	0.004923727	10.44971201	0	0	10.44971201	6.17891471
Los Angele	2020 Annual	LDA	0.528985819	0	0.045387678	0.574373497	5256.647776	0	132.4176	5389.065376	3108.25583
Los Angele	2020 Annual	LDA	0.004647968	0	0	0.004647968	10.85299701	0	0	10.85299701	6.417377133
Los Angele	2020 Annual	LDT1	0.017511852	0	0.003311378	0.02082323	128.3147407	0	5.166889	133.4816297	115.4832666
Los Angele	2020 Annual	LDT1	0	0	0	0	0	0	0	0	0
Los Angele	2020 Annual	LDT1	0.036204105	0	0.006692426	0.042896531	273.279906	0	10.89841	284.178316	245.9519154
Los Angele	2020 Annual	LDT1	0	0	0	0	0	0	0	0	0
Los Angele	2020 Annual	LDT1	0.034325442	0	0.006357079	0.040682521	250.7194562	0	9.875723	260.5951792	225.6475106
Los Angele	2020 Annual	LDT1	0	0	0	0	0	0	0	0	0
Los Angele	2020 Annual	LDT1	0.040072906	0	0.007436124	0.04750903	282.7200463	0	11.00448	293.7245263	245.5423602
Los Angele	2020 Annual	LDT1	2.98E-04	0	0	2.98E-04	0.328108157	0	0	0.328108157	0.284961934
Los Angele	2020 Annual	LDT1	0.038639275	0	0.007025193	0.045664468	275.3812513	0	10.55771	285.9389613	212.153716
Los Angele	2020 Annual	LDT1	4.23E-04	0	0	4.23E-04	0.482089189	0	0	0.482089189	0.371401511
Los Angele	2020 Annual	LDT1	0.037907795	0	0.00672962	0.044637415	273.7748959	0	10.31983	284.0947259	184.0588625
Los Angele	2020 Annual	LDT1	3.05E-04	0	0	3.05E-04	0.360477749	0	0	0.360477749	0.24234919
Los Angele	2020 Annual	LDT1	0.038946285	0	0.006707763	0.045654049	286.5386405	0	10.57696	297.1156005	187.7401172
Los Angele	2020 Annual	LDT1	4.01E-04	0	0	4.01E-04	0.493123164	0	0	0.493123164	0.323094297
Los Angele	2020 Annual	LDT1	0.038980981	0	0.00645128	0.045432261	296.7985402	0	10.68477	307.4833102	190.1885045
Los Angele	2020 Annual	LDT1	3.70E-04	0	0	3.70E-04	0.475652597	0	0	0.475652597	0.304798184
Los Angele	2020 Annual	LDT1	0.039347273	0	0.00617366	0.045520932	321.2368548	0	11.25693	332.4937848	197.4642947
Los Angele	2020 Annual	LDT1	3.63E-04	0	0	3.63E-04	0.4920595	0	0	0.4920595	0.302468975
Los Angele	2020 Annual	LDT1	0.038788422	0	0.005716049	0.044504471	334.2425505	0	11.33341	345.5759605	197.6376201
Los Angele	2020 Annual	LDT1	4.48E-04	0	0	4.48E-04	0.642335129	0	0	0.642335129	0.379812762
Los Angele	2020 Annual	LDT1	0.038198999	0	0.005157159	0.043356158	355.2522672	0	11.56397	366.8162372	210.0606656
Los Angele	2020 Annual	LDT1	2.93E-04	0	0	2.93E-04	0.447245437	0	0	0.447245437	0.264456227
Los Angele	2020 Annual	LDT1	0.03772216	0	0.004601806	0.042323967	375.483536	0	11.63641	387.119946	222.0234148
Los Angele	2020 Annual	LDT1	3.00E-04	0	0	3.00E-04	0.491022743	0	0	0.491022743	0.290341748
Los Angele	2020 Annual	LDT1	0.037939179	0	0.00406035	0.041999529	406.1520666	0	11.78233	417.9343966	240.157717
Los Angele	2020 Annual	LDT1	3.35E-04	0	0	3.35E-04	0.59515694	0	0	0.59515694	0.351916298
Los Angele	2020 Annual	LDT1	0.039185909	0	0.003472883	0.042658791	454.8581564	0	11.88397	466.7421264	268.9576279
Los Angele	2020 Annual	LDT1	2.84E-04	0	0	2.84E-04	0.556573918	0	0	0.556573918	0.329102157
Los Angele	2020 Annual	T6 instate heavy	0.111362158	0.001828653	0	0.113190812	25.97697916	0.363670545	0	26.3406497	23.37928124
Los Angele	2020 Annual	T6 instate heavy	0.095320928	0.001630083	0	0.096951011	24.10983988	0.324180097	0	24.43401997	21.69885589
Los Angele	2020 Annual	T6 instate heavy	0.056911603	0.001000705	0	0.057912308	16.41061651	0.199013651	0	16.60963016	14.76955486
Los Angele	2020 Annual	T6 instate heavy	0.052057441	0.0026287	0	0.054686141	33.30388512	0.522778568	0	33.82666369	29.97349661
Los Angele	2020 Annual	T6 instate heavy	0.042957629	0.001891939	0	0.044849568	30.65347153	0.376256345	0	31.02972787	27.58812437
Los Angele	2020 Annual	T6 instate heavy	0.02645813	0.001160343	0	0.027618473	22.11143956	0.230761476	0	22.34220103	19.9002956
Los Angele	2020 Annual	T6 instate heavy	0.044500739	0.003068927	0	0.047569666	45.74871895	0.610328037	0	46.35904699	41.17384706
Los Angele	2020 Annual	T6 instate heavy	0.036419959	0.001854833	0	0.038274792	39.78316658	0.368877045	0	40.15204362	35.80484992
Los Angele	2020 Annual	T6 instate heavy	0.052454997	0.003372562	0	0.055827559	61.37227929	0.670712912	0	62.0429922	55.23505136
Los Angele	2020 Annual	T6 instate heavy	0.041961489	0.002235129	0	0.044196618	53.08104055	0.444507663	0	53.52554821	47.7729365
Los Angele	2020 Annual	T6 instate heavy	0.042520138	0.002389983	0	0.044910121	58.79084169	0.475304044	0	59.26614574	52.911175753
Los Angele	2020 Annual	T6 instate heavy	0.0411084	0.002509835	0	0.043618235	62.89903915	0.499139526	0	63.39817868	56.60913524

Los Angele	2020 Annual	LDA	0	73.86122016	1896.100162	0.008582849	0	0.003384613	0.011967463	0.060070526	0.275949
Los Angele	2020 Annual	LDA	0	0	7.562907705	1.54E-04	0	0	1.54E-04	2.91E-04	0.001334803
Los Angele	2020 Annual	LDA	0	74.80013544	1990.505917	0.012297291	0	0.004958367	0.017255659	0.064553335	0.296542
Los Angele	2020 Annual	LDA	0	0	6.74990452	1.34E-04	0	0	1.34E-04	2.65E-04	0.001218084
Los Angele	2020 Annual	LDA	0	75.42239913	2086.532886	0.01681707	0	0.006712291	0.023529361	0.070627958	0.3244473
Los Angele	2020 Annual	LDA	0	0	6.389193422	1.26E-04	0	0	1.26E-04	2.62E-04	0.001201946
Los Angele	2020 Annual	LDA	0	73.54222794	2129.969728	0.020551587	0	0.007939638	0.028491224	0.075059414	0.3448042
Los Angele	2020 Annual	LDA	0	0	5.712368563	1.11E-04	0	0	1.11E-04	2.43E-04	0.001117147
Los Angele	2020 Annual	LDA	0	74.76391287	2288.05402	0.024035157	0	0.008824261	0.032859417	0.080763213	0.3710061
Los Angele	2020 Annual	LDA	0	0	5.901538959	1.08E-04	0	0	1.08E-04	2.51E-04	0.001154143
Los Angele	2020 Annual	LDA	0	75.75079257	2475.432699	0.02709319	0	0.009325169	0.036418359	0.087543249	0.4021519
Los Angele	2020 Annual	LDA	0	0	5.901159621	1.01E-04	0	0	1.01E-04	2.51E-04	0.001154069
Los Angele	2020 Annual	LDA	0	77.89443246	2774.806672	0.030439528	0	0.009616613	0.040056141	0.09836141	0.4518479
Los Angele	2020 Annual	LDA	0	0	6.17891471	9.78E-05	0	0	9.78E-05	2.63E-04	0.001208388
Los Angele	2020 Annual	LDA	0	78.29852688	3186.554357	0.035071346	0	0.009666504	0.04473785	0.1133299	0.520609
Los Angele	2020 Annual	LDA	0	0	6.417377133	9.24E-05	0	0	9.24E-05	2.73E-04	0.001255023
Los Angele	2020 Annual	LDT1	0	4.6502001	120.1334667	8.51E-05	0	1.07E-05	9.58E-05	0.002383348	0.010948509
Los Angele	2020 Annual	LDT1	0	0	0	0	0	0	0	0	0
Los Angele	2020 Annual	LDT1	0	9.808569	255.7604844	1.81E-04	0	2.94E-05	2.11E-04	0.00508048	0.023338458
Los Angele	2020 Annual	LDT1	0	0	0	0	0	0	0	0	0
Los Angele	2020 Annual	LDT1	0	8.8881507	234.5356613	2.22E-04	0	4.20E-05	2.64E-04	0.004653108	0.021375215
Los Angele	2020 Annual	LDT1	0	0	0	0	0	0	0	0	0
Los Angele	2020 Annual	LDT1	0	9.55739088	255.0997511	2.50E-04	0	5.78E-05	3.08E-04	0.005250245	0.024118317
Los Angele	2020 Annual	LDT1	0	0	0.284961934	4.92E-06	0	0	4.92E-06	8.26E-06	3.79E-05
Los Angele	2020 Annual	LDT1	0	8.133659784	220.2873757	3.65E-04	0	1.03E-04	4.69E-04	0.005114497	0.023494726
Los Angele	2020 Annual	LDT1	0	0	0.371401511	7.00E-06	0	0	7.00E-06	1.21E-05	5.57E-05
Los Angele	2020 Annual	LDT1	0	6.938021709	190.9968842	4.84E-04	0	1.42E-04	6.26E-04	0.005085039	0.023359401
Los Angele	2020 Annual	LDT1	0	0	0.24234919	5.05E-06	0	0	5.05E-06	9.07E-06	4.17E-05
Los Angele	2020 Annual	LDT1	0	6.930024192	194.6701414	7.60E-04	0	2.73E-04	0.001032658	0.005321157	0.024444064
Los Angele	2020 Annual	LDT1	0	0	0.323094297	6.63E-06	0	0	6.63E-06	1.24E-05	5.70E-05
Los Angele	2020 Annual	LDT1	0	6.846800616	197.0353051	0.001049176	0	3.90E-04	0.00143899	0.005510259	0.025312755
Los Angele	2020 Annual	LDT1	0	0	0.304798184	6.11E-06	0	0	6.11E-06	1.20E-05	5.50E-05
Los Angele	2020 Annual	LDT1	0	6.919634871	204.3839295	0.001419027	0	5.29E-04	0.001947942	0.005963038	0.027392711
Los Angele	2020 Annual	LDT1	0	0	0.302468975	6.01E-06	0	0	6.01E-06	1.24E-05	5.69E-05
Los Angele	2020 Annual	LDT1	0	6.701445333	204.3390654	0.001697435	0	6.21E-04	0.002318827	0.006202924	0.028494686
Los Angele	2020 Annual	LDT1	0	0	0.379812762	7.42E-06	0	0	7.42E-06	1.62E-05	7.43E-05
Los Angele	2020 Annual	LDT1	0	6.837775461	216.8984411	0.001960419	0	6.93E-04	0.002653581	0.006590849	0.030276716
Los Angele	2020 Annual	LDT1	0	0	0.264456227	4.85E-06	0	0	4.85E-06	1.13E-05	5.17E-05
Los Angele	2020 Annual	LDT1	0	6.880609233	228.9040241	0.002154294	0	7.27E-04	0.002881788	0.006965051	0.031995706
Los Angele	2020 Annual	LDT1	0	0	0.290341748	4.96E-06	0	0	4.96E-06	1.24E-05	5.68E-05
Los Angele	2020 Annual	LDT1	0	6.966891729	247.1246087	0.002329547	0	7.39E-04	0.00306828	0.007531455	0.034597632
Los Angele	2020 Annual	LDT1	0	0	0.351916298	5.55E-06	0	0	5.55E-06	1.50E-05	6.88E-05
Los Angele	2020 Annual	LDT1	0	7.026991461	275.9846193	0.002608119	0	7.45E-04	0.003353225	0.0084326	0.03873726
Los Angele	2020 Annual	LDT1	0	0	0.329102157	4.72E-06	0	0	4.72E-06	1.40E-05	6.44E-05
Los Angele	2020 Annual	T6 instate heavy	0.327303491	0	23.70658473	0.001506961	4.30E-06	0	0.001511259	2.69E-04	0.002921398
Los Angele	2020 Annual	T6 instate heavy	0.291762088	0	21.99061798	0.00135456	3.83E-06	0	0.001358391	2.50E-04	0.002711418
Los Angele	2020 Annual	T6 instate heavy	0.179112286	0	14.94866715	8.90E-04	2.35E-06	0	8.92E-04	1.70E-04	0.001845555
Los Angele	2020 Annual	T6 instate heavy	0.470500711	0	30.44399732	0.001794994	6.18E-06	0	0.001801173	3.57E-04	0.003874858
Los Angele	2020 Annual	T6 instate heavy	0.338630711	0	27.92675508	0.001580938	4.45E-06	0	0.001585384	3.28E-04	0.003566486
Los Angele	2020 Annual	T6 instate heavy	0.207685329	0	20.10798093	0.001085796	2.73E-06	0	0.001088523	2.37E-04	0.002572633
Los Angele	2020 Annual	T6 instate heavy	0.549295233	0	41.72314229	0.001742079	7.21E-06	0	0.001749292	4.91E-04	0.005335075
Los Angele	2020 Annual	T6 instate heavy	0.33198934	0	36.13683926	0.001440102	4.36E-06	0	0.001444462	4.27E-04	0.00463939
Los Angele	2020 Annual	T6 instate heavy	0.603641621	0	55.83869298	0.002099135	7.93E-06	0	0.002107062	6.59E-04	0.007157046
Los Angele	2020 Annual	T6 instate heavy	0.400056897	0	48.17299339	0.001703656	5.25E-06	0	0.001708909	5.70E-04	0.006190148
Los Angele	2020 Annual	T6 instate heavy	0.42777364	0	53.33953117	0.001757022	5.62E-06	0	0.00176264	6.31E-04	0.006856007
Los Angele	2020 Annual	T6 instate heavy	0.449225573	0	57.05836081	0.001735855	5.90E-06	0	0.001741754	6.75E-04	0.007335092



Los Angele	2020 Annual	LDA	0.347986989	0.007963469	0	0.003140362	0.011103832	0.015017631	0.1182639	0.144385363	0.02784114
Los Angele	2020 Annual	LDA	0.001779158	1.41E-04	0	0	1.41E-04	7.26E-05	5.72E-04	7.86E-04	1.10E-04
Los Angele	2020 Annual	LDA	0.378350994	0.011409857	0	0.004600547	0.016010405	0.016138334	0.1270894	0.159238139	0.029923683
Los Angele	2020 Annual	LDA	0.001617744	1.24E-04	0	0	1.24E-04	6.63E-05	5.22E-04	7.12E-04	1.01E-04
Los Angele	2020 Annual	LDA	0.418604619	0.015603466	0	0.006227899	0.021831365	0.017656989	0.1390488	0.178537154	0.03274205
Los Angele	2020 Annual	LDA	0.001589934	1.16E-04	0	0	1.16E-04	6.54E-05	5.15E-04	6.97E-04	9.92E-05
Los Angele	2020 Annual	LDA	0.448354838	0.019068484	0	0.007366675	0.026435159	0.018764853	0.1477732	0.192973212	0.034794968
Los Angele	2020 Annual	LDA	0.001471564	1.02E-04	0	0	1.02E-04	6.08E-05	4.79E-04	6.42E-04	9.22E-05
Los Angele	2020 Annual	LDA	0.48462873	0.022300659	0	0.008187459	0.030488118	0.020190803	0.1590026	0.209681521	0.037441995
Los Angele	2020 Annual	LDA	0.001513563	9.95E-05	0	0	9.95E-05	6.28E-05	4.95E-04	6.57E-04	9.53E-05
Los Angele	2020 Annual	LDA	0.526113508	0.025138011	0	0.008652219	0.03379023	0.021885812	0.1723508	0.228026842	0.040589552
Los Angele	2020 Annual	LDA	0.001506329	9.30E-05	0	0	9.30E-05	6.28E-05	4.95E-04	6.50E-04	9.53E-05
Los Angele	2020 Annual	LDA	0.590265451	0.028242858	0	0.008922631	0.037165489	0.024590353	0.1936491	0.255404942	0.04561146
Los Angele	2020 Annual	LDA	0.00156921	8.99E-05	0	0	8.99E-05	6.58E-05	5.18E-04	6.74E-04	9.98E-05
Los Angele	2020 Annual	LDA	0.67867675	0.032540422	0	0.00896892	0.041509342	0.028332463	0.2231181	0.292959905	0.05256227
Los Angele	2020 Annual	LDA	0.001620581	8.50E-05	0	0	8.50E-05	6.83E-05	5.38E-04	6.91E-04	1.04E-04
Los Angele	2020 Annual	LDT1	0.013427667	7.90E-05	0	9.94E-06	8.89E-05	5.96E-04	0.004692217	0.00537695	0.001284841
Los Angele	2020 Annual	LDT1	0	0	0	0	0	0	0	0	0
Los Angele	2020 Annual	LDT1	0.028629548	1.68E-04	0	2.72E-05	1.95E-04	0.00127012	0.010002197	0.011467729	0.002735628
Los Angele	2020 Annual	LDT1	0	0	0	0	0	0	0	0	0
Los Angele	2020 Annual	LDT1	0.026292064	2.06E-04	0	3.90E-05	2.45E-04	0.001163277	0.009160806	0.01056879	0.002509626
Los Angele	2020 Annual	LDT1	0	0	0	0	0	0	0	0	0
Los Angele	2020 Annual	LDT1	0.029676354	2.32E-04	0	5.36E-05	2.86E-04	0.001312561	0.01033642	0.011934561	0.002829714
Los Angele	2020 Annual	LDT1	5.11E-05	4.53E-06	0	0	4.53E-06	2.06E-06	1.63E-05	2.29E-05	3.13E-06
Los Angele	2020 Annual	LDT1	0.029077792	3.39E-04	0	9.58E-05	4.35E-04	0.001278624	0.010069168	0.011782547	0.002756089
Los Angele	2020 Annual	LDT1	7.49E-05	6.44E-06	0	0	6.44E-06	3.03E-06	2.39E-05	3.34E-05	4.60E-06
Los Angele	2020 Annual	LDT1	0.02907067	4.49E-04	0	1.32E-04	5.81E-04	0.00127126	0.010011172	0.01186347	0.002739828
Los Angele	2020 Annual	LDT1	5.58E-05	4.64E-06	0	0	4.64E-06	2.27E-06	1.79E-05	2.48E-05	3.44E-06
Los Angele	2020 Annual	LDT1	0.030797879	7.05E-04	0	2.53E-04	9.58E-04	0.001330289	0.010476028	0.012764454	0.002867331
Los Angele	2020 Annual	LDT1	7.61E-05	6.10E-06	0	0	6.10E-06	3.10E-06	2.44E-05	3.36E-05	4.71E-06
Los Angele	2020 Annual	LDT1	0.032262004	9.73E-04	0	3.62E-04	0.001335145	0.001377565	0.010848325	0.013561035	0.002969697
Los Angele	2020 Annual	LDT1	7.31E-05	5.62E-06	0	0	5.62E-06	2.99E-06	2.36E-05	3.22E-05	4.54E-06
Los Angele	2020 Annual	LDT1	0.035303691	0.001316623	0	4.91E-04	0.001807369	0.00149076	0.011739734	0.015037863	0.00321371
Los Angele	2020 Annual	LDT1	7.53E-05	5.53E-06	0	0	5.53E-06	3.10E-06	2.44E-05	3.30E-05	4.70E-06
Los Angele	2020 Annual	LDT1	0.037016437	0.00157494	0	5.77E-04	0.002151489	0.001550731	0.012212007	0.015914227	0.003342962
Los Angele	2020 Annual	LDT1	9.79E-05	6.83E-06	0	0	6.83E-06	4.04E-06	3.18E-05	4.27E-05	6.13E-06
Los Angele	2020 Annual	LDT1	0.039521146	0.001818946	0	6.43E-04	0.002462085	0.001647712	0.012975733	0.01708553	0.003552498
Los Angele	2020 Annual	LDT1	6.78E-05	4.47E-06	0	0	4.47E-06	2.81E-06	2.22E-05	2.94E-05	4.27E-06
Los Angele	2020 Annual	LDT1	0.041842544	0.00199883	0	6.75E-04	0.002673824	0.001741263	0.013712443	0.018127529	0.003754357
Los Angele	2020 Annual	LDT1	7.41E-05	4.57E-06	0	0	4.57E-06	3.09E-06	2.43E-05	3.20E-05	4.69E-06
Los Angele	2020 Annual	LDT1	0.045197368	0.002161435	0	6.85E-04	0.002846858	0.001882864	0.014827558	0.01955728	0.004060572
Los Angele	2020 Annual	LDT1	8.94E-05	5.10E-06	0	0	5.10E-06	3.75E-06	2.95E-05	3.83E-05	5.68E-06
Los Angele	2020 Annual	LDT1	0.050523085	0.002419904	0	6.91E-04	0.00311124	0.00210815	0.01660168	0.02182107	0.004547078
Los Angele	2020 Annual	LDT1	8.31E-05	4.34E-06	0	0	4.34E-06	3.50E-06	2.76E-05	3.54E-05	5.31E-06
Los Angele	2020 Annual	T6 instate heavy	0.004701622	0.001386404	3.95E-06	0	0.001390359	6.72E-05	0.001252028	0.002709627	2.48E-04
Los Angele	2020 Annual	T6 instate heavy	0.004319441	0.001246195	3.52E-06	0	0.00124972	6.24E-05	0.001162036	0.002474164	2.30E-04
Los Angele	2020 Annual	T6 instate heavy	0.002907398	8.18E-04	2.16E-06	0	8.21E-04	4.25E-05	7.91E-04	0.001654005	1.57E-04
Los Angele	2020 Annual	T6 instate heavy	0.006032777	0.001651395	5.68E-06	0	0.001657079	8.92E-05	0.001660653	0.003406919	3.18E-04
Los Angele	2020 Annual	T6 instate heavy	0.005480226	0.001454463	4.09E-06	0	0.001458553	8.21E-05	0.001528494	0.003069136	2.92E-04
Los Angele	2020 Annual	T6 instate heavy	0.003898011	9.99E-04	2.51E-06	0	0.001001441	5.92E-05	0.001102557	0.002163212	2.11E-04
Los Angele	2020 Annual	T6 instate heavy	0.007575551	0.001602713	6.64E-06	0	0.001609349	1.23E-04	0.002286461	0.004018605	4.36E-04
Los Angele	2020 Annual	T6 instate heavy	0.006510987	0.001324894	4.01E-06	0	0.001328905	1.07E-04	0.00198831	0.003423999	3.80E-04
Los Angele	2020 Annual	T6 instate heavy	0.009923035	0.001931205	7.29E-06	0	0.001938497	1.65E-04	0.003067306	0.005170534	5.86E-04
Los Angele	2020 Annual	T6 instate heavy	0.008468964	0.001567363	4.83E-06	0	0.001572196	1.42E-04	0.00265292	0.004367594	5.06E-04
Los Angele	2020 Annual	T6 instate heavy	0.009249858	0.001616461	5.17E-06	0	0.001621628	1.58E-04	0.002938289	0.00471772	5.61E-04
Los Angele	2020 Annual	T6 instate heavy	0.009752165	0.001596986	5.43E-06	0	0.001602413	1.69E-04	0.003143611	0.004914854	6.00E-04

Los Angele	2020 Annual	LDA	0	0.00114808	0.02898922	309.2121	0	1.34E-04	1.80E-03	1.52E-04	3.51E-06	9.87E-05	3.26E-06	3.91E-05	8.51E-06
Los Angele	2020 Annual	LDA	0	0	1.10E-04	0	1.038861	1.53E-05	1.43E-04	4.71E-04	9.33E-06	9.87E-05	8.59E-06	3.91E-05	6.69E-06
Los Angele	2020 Annual	LDA	0	0.001187775	0.031111458	331.8489	0	1.12E-04	1.71E-03	1.46E-04	4.71E-06	9.87E-05	4.37E-06	3.91E-05	8.50E-06
Los Angele	2020 Annual	LDA	0	0	1.01E-04	0	0.9480204	1.46E-05	1.36E-04	4.51E-04	8.95E-06	9.87E-05	8.23E-06	3.91E-05	6.69E-06
Los Angele	2020 Annual	LDA	0	0.001246797	0.033988847	362.5404	0	9.81E-05	1.59E-03	1.36E-04	5.88E-06	9.87E-05	5.45E-06	3.91E-05	8.49E-06
Los Angele	2020 Annual	LDA	0	0	9.92E-05	0	0.9354602	1.38E-05	1.29E-04	4.30E-04	8.52E-06	9.87E-05	7.83E-06	3.91E-05	6.69E-06
Los Angele	2020 Annual	LDA	0	0.001260997	0.036055965	384.5892	0	8.52E-05	1.39E-03	1.27E-04	6.69E-06	9.87E-05	6.21E-06	3.91E-05	8.47E-06
Los Angele	2020 Annual	LDA	0	0	9.22E-05	0	0.8694625	1.30E-05	1.21E-04	4.07E-04	8.07E-06	9.87E-05	7.42E-06	3.91E-05	6.69E-06
Los Angele	2020 Annual	LDA	0	0.001280016	0.038722011	413.0265	0	7.53E-05	1.26E-03	1.17E-04	7.18E-06	9.87E-05	6.66E-06	3.91E-05	8.46E-06
Los Angele	2020 Annual	LDA	0	0	9.53E-05	0	0.8982555	1.22E-05	1.13E-04	3.83E-04	7.59E-06	9.87E-05	6.99E-06	3.91E-05	6.69E-06
Los Angele	2020 Annual	LDA	0	0.00129553	0.041885082	446.7653	0	6.67E-05	1.16E-03	1.08E-04	7.34E-06	9.87E-05	6.81E-06	3.91E-05	8.44E-06
Los Angele	2020 Annual	LDA	0	0	9.53E-05	0	0.8981977	1.13E-05	1.04E-04	3.57E-04	7.09E-06	9.87E-05	6.53E-06	3.91E-05	6.69E-06
Los Angele	2020 Annual	LDA	0	0.001330976	0.046942436	500.7093	0	5.86E-05	1.07E-03	9.88E-05	7.18E-06	9.87E-05	6.66E-06	3.91E-05	8.46E-06
Los Angele	2020 Annual	LDA	0	0	9.98E-05	0	0.940474	1.03E-05	9.53E-05	3.30E-04	6.56E-06	9.87E-05	6.03E-06	3.91E-05	6.69E-06
Los Angele	2020 Annual	LDA	0	0.001336805	0.053899075	574.9119	0	4.95E-05	9.90E-04	8.94E-05	6.96E-06	9.87E-05	6.46E-06	3.91E-05	8.39E-06
Los Angele	2020 Annual	LDA	0	0	1.04E-04	0	0.9767697	9.22E-06	8.51E-05	3.00E-04	5.96E-06	9.87E-05	5.49E-06	3.91E-05	6.69E-06
Los Angele	2020 Annual	LDT1	0	5.28E-05	0.001337635	14.26782	0	2.96E-04	2.33E-03	1.54E-04	7.09E-07	9.87E-05	6.58E-07	3.91E-05	9.90E-06
Los Angele	2020 Annual	LDT1	0	0	0	0	0	0	0	0	0	0	0	0	0
Los Angele	2020 Annual	LDT1	0	1.11E-04	0.002846687	30.36406	0	2.59E-04	2.10E-03	1.49E-04	7.31E-07	9.87E-05	6.78E-07	3.91E-05	9.88E-06
Los Angele	2020 Annual	LDT1	0	0	0	0	0	0	0	0	0	0	0	0	0
Los Angele	2020 Annual	LDT1	0	1.01E-04	0.002610199	27.84156	0	2.29E-04	2.04E-03	1.54E-04	1.00E-06	9.87E-05	9.28E-07	3.91E-05	9.89E-06
Los Angele	2020 Annual	LDT1	0	0	0	0	0	0	0	0	0	0	0	0	0
Los Angele	2020 Annual	LDT1	0	1.12E-04	0.002941693	31.37743	0	2.03E-04	1.96E-03	1.60E-04	1.03E-06	9.87E-05	9.59E-07	3.91E-05	9.88E-06
Los Angele	2020 Annual	LDT1	0	0	3.13E-06	0	0.029529737	2.06E-05	1.92E-04	6.36E-04	1.05E-05	9.87E-05	9.66E-06	3.91E-05	6.69E-06
Los Angele	2020 Annual	LDT1	0	1.07E-04	0.002866347	30.54307	0	1.78E-04	1.91E-03	1.57E-04	1.62E-06	9.87E-05	1.50E-06	3.91E-05	9.87E-06
Los Angele	2020 Annual	LDT1	0	0	4.60E-06	0	0.043388028	1.99E-05	1.85E-04	6.15E-04	1.02E-05	9.87E-05	9.35E-06	3.91E-05	6.69E-06
Los Angele	2020 Annual	LDT1	0	1.05E-04	0.002844732	30.3432	0	1.54E-04	1.85E-03	1.55E-04	2.17E-06	9.87E-05	2.02E-06	3.91E-05	9.87E-06
Los Angele	2020 Annual	LDT1	0	0	3.44E-06	0	0.032442998	1.91E-05	1.78E-04	5.93E-04	9.81E-06	9.87E-05	9.02E-06	3.91E-05	6.69E-06
Los Angele	2020 Annual	LDT1	0	1.07E-04	0.002974779	31.73033	0	1.33E-04	1.79E-03	1.51E-04	3.42E-06	9.87E-05	3.18E-06	3.91E-05	9.86E-06
Los Angele	2020 Annual	LDT1	0	0	4.71E-06	0	0.04438109	1.83E-05	1.70E-04	5.70E-04	9.42E-06	9.87E-05	8.66E-06	3.91E-05	6.69E-06
Los Angele	2020 Annual	LDT1	0	1.08E-04	0.003078151	32.83295	0	1.07E-04	1.70E-03	1.45E-04	4.61E-06	9.87E-05	4.27E-06	3.91E-05	9.85E-06
Los Angele	2020 Annual	LDT1	0	0	4.54E-06	0	0.042808734	1.74E-05	1.62E-04	5.45E-04	9.00E-06	9.87E-05	8.28E-06	3.91E-05	6.69E-06
Los Angele	2020 Annual	LDT1	0	1.14E-04	0.003327827	35.49611	0	9.24E-05	1.58E-03	1.35E-04	5.76E-06	9.87E-05	5.35E-06	3.91E-05	9.84E-06
Los Angele	2020 Annual	LDT1	0	0	4.70E-06	0	0.044285361	1.65E-05	1.53E-04	5.17E-04	8.56E-06	9.87E-05	7.88E-06	3.91E-05	6.69E-06
Los Angele	2020 Annual	LDT1	0	1.15E-04	0.003457619	36.88053	0	7.94E-05	1.38E-03	1.27E-04	6.59E-06	9.87E-05	6.12E-06	3.91E-05	9.83E-06
Los Angele	2020 Annual	LDT1	0	0	6.13E-06	0	0.057810161	1.55E-05	1.43E-04	4.89E-04	8.09E-06	9.87E-05	7.44E-06	3.91E-05	6.69E-06
Los Angele	2020 Annual	LDT1	0	1.17E-04	0.003669332	39.13876	0	6.95E-05	1.25E-03	1.16E-04	7.10E-06	9.87E-05	6.59E-06	3.91E-05	9.82E-06
Los Angele	2020 Annual	LDT1	0	0	4.27E-06	0	0.040252093	1.45E-05	1.33E-04	4.59E-04	7.60E-06	9.87E-05	7.00E-06	3.91E-05	6.69E-06
Los Angele	2020 Annual	LDT1	0	1.17E-04	0.003871814	41.29852	0	6.19E-05	1.15E-03	1.07E-04	7.30E-06	9.87E-05	6.77E-06	3.91E-05	9.80E-06
Los Angele	2020 Annual	LDT1	0	0	4.69E-06	0	0.044192046	1.34E-05	1.23E-04	4.27E-04	7.08E-06	9.87E-05	6.51E-06	3.91E-05	6.69E-06
Los Angele	2020 Annual	LDT1	0	1.19E-04	0.004179408	44.57946	0	5.45E-05	1.07E-03	9.84E-05	7.19E-06	9.87E-05	6.67E-06	3.91E-05	9.79E-06
Los Angele	2020 Annual	LDT1	0	0	5.68E-06	0	0.053564128	1.22E-05	1.12E-04	3.94E-04	6.53E-06	9.87E-05	6.01E-06	3.91E-05	6.69E-06
Los Angele	2020 Annual	LDT1	0	1.20E-04	0.004666858	49.77881	0	4.65E-05	9.91E-04	8.92E-05	7.01E-06	9.87E-05	6.51E-06	3.91E-05	9.76E-06
Los Angele	2020 Annual	LDT1	0	0	5.31E-06	0	0.050091654	1.09E-05	9.97E-05	3.58E-04	5.94E-06	9.87E-05	5.46E-06	3.91E-05	6.69E-06
Los Angele	2020 Annual	T6 instate heavy	3.47E-06	0	2.51E-04	0	2.370658473	5.11E-04	2.23E-03	1.11E-02	1.49E-04	3.14E-04	1.37E-04	1.30E-04	2.47E-05
Los Angele	2020 Annual	T6 instate heavy	3.09E-06	0	2.33E-04	0	2.199061798	4.94E-04	2.16E-03	1.03E-02	1.44E-04	3.14E-04	1.32E-04	1.30E-04	2.47E-05
Los Angele	2020 Annual	T6 instate heavy	1.90E-06	0	1.58E-04	0	1.494866715	4.75E-04	2.07E-03	9.02E-03	1.39E-04	3.14E-04	1.28E-04	1.30E-04	2.47E-05
Los Angele	2020 Annual	T6 instate heavy	4.99E-06	0	3.23E-04	0	3.044399732	2.86E-04	1.29E-03	4.06E-03	1.34E-04	3.14E-04	1.23E-04	1.30E-04	2.39E-05
Los Angele	2020 Annual	T6 instate heavy	3.59E-06	0	2.96E-04	0	2.792675508	2.73E-04	1.22E-03	3.61E-03	1.28E-04	3.14E-04	1.18E-04	1.30E-04	2.39E-05
Los Angele	2020 Annual	T6 instate heavy	2.20E-06	0	2.13E-04	0	2.010798093	2.62E-04	1.16E-03	3.08E-03	1.22E-04	3.14E-04	1.12E-04	1.30E-04	2.38E-05
Los Angele	2020 Annual	T6 instate heavy	5.82E-06	0	4.42E-04	0	4.172314229	2.14E-04	9.72E-04	2.56E-03	9.42E-05	3.14E-04	8.67E-05	1.30E-04	2.38E-05
Los Angele	2020 Annual	T6 instate heavy	3.52E-06	0	3.83E-04	0	3.613683926	2.03E-04	9.06E-04	2.37E-03	8.95E-05	3.14E-04	8.23E-05	1.30E-04	2.37E-05
Los Angele	2020 Annual	T6 instate heavy	6.40E-06	0	5.92E-04	0	5.583869298	1.96E-04	8.84E-04	2.24E-03	8.46E-05	3.14E-04	7.78E-05	1.30E-04	2.38E-05
Los Angele	2020 Annual	T6 instate heavy	4.24E-06	0	5.11E-04	0	4.817299339	1.85E-04	8.27E-04	2.05E-03	7.93E-05	3.14E-04	7.30E-05	1.30E-04	2.37E-05
Los Angele	2020 Annual	T6 instate heavy	4.53E-06	0	5.65E-04	0	5.333953117	1.76E-04	7.86E-04	1.88E-03	7.39E-05	3.14E-04	6.80E-05	1.30E-04	2.37E-05
Los Angele	2020 Annual	T6 instate heavy	4.76E-06	0	6.05E-04	0	5.705836081	1.67E-04	7.45E-04	1.71E-03	6.82E-05	3.14E-04	6.28E-05	1.30E-04	2.37E-05



Los Angele	2020 Annual	T6 instate heavy	DSL	2019	AllSpeeds	661.3116349	55368.90746	0	0.004192607	1.53E-04	0	0.004345624
Los Angele	2020 Annual	T6 instate heavy	DSL	2020	AllSpeeds	588.6513306	49286.58918	0	0.003495658	1.36E-04	0	0.003631862
Los Angele	2020 Annual	T6 instate heavy	DSL	2021	AllSpeeds	145.1944889	5066.456815	0	3.35E-04	3.36E-05	0	3.69E-04
Los Angele	2020 Annual	LDA/LDT1	GAS&DSL >2007		AllSpeeds	3193983.907	113658048.3	20504967.06	1.1996858	0	1.011878239	2.211564039
Los Angele	2020 Annual	T6 instate heavy	DSL	>2007	AllSpeeds	7581.251898	492565.2463	0	0.053658378	0.001754183	0	0.055412561

EMFAC 2011

2021 Estimated Annual Emissions

EMFAC 2011 Vehicle Categories

Los Angeles COUNTY

South Coast AIR BASIN

South Coast AQMD

Area	CalYr	Season	Veh	Fuel	MdIYr	Speed (Miles/hr)	Pop (Vehicles)	VMT (Miles/day)	Trips (Trips/day)	ROG_RUNEX (Tons/day)	ROG_IDLEX (Tons/day)	ROG_STREX (Tons/day)	ROG_TOTEX (Tons/day)
Los Angele	2021 Annual	LDA	GAS	2007	AllSpeeds		133957.2	3431530.167	821075.4	0.048340984	0	0.053974725	0.102315709
Los Angele	2021 Annual	LDA	DSL	2007	AllSpeeds		0	0	0	0	0	0	0
Los Angele	2021 Annual	LDA	GAS	2008	AllSpeeds		147036.3	3865741.881	907123	0.050500259	0	0.05319979	0.103700049
Los Angele	2021 Annual	LDA	DSL	2008	AllSpeeds		19.50717	512.8699202	120.3472	4.79E-06	0	0	4.79E-06
Los Angele	2021 Annual	LDA	GAS	2009	AllSpeeds		134535.1	3634434.155	836724.7	0.048243376	0	0.049696174	0.09793955
Los Angele	2021 Annual	LDA	DSL	2009	AllSpeeds		651.6995	17605.53413	4053.166	1.60E-04	0	0	1.60E-04
Los Angele	2021 Annual	LDA	GAS	2010	AllSpeeds		179231.9	4982409.108	1121879	0.066132785	0	0.066046208	0.132178993
Los Angele	2021 Annual	LDA	DSL	2010	AllSpeeds		1188.717	33044.80816	7440.624	2.92E-04	0	0	2.92E-04
Los Angele	2021 Annual	LDA	GAS	2011	AllSpeeds		185271	5307821.51	1168943	0.069252425	0	0.067709379	0.136961804
Los Angele	2021 Annual	LDA	DSL	2011	AllSpeeds		1092.012	31285.0482	6889.905	2.68E-04	0	0	2.68E-04
Los Angele	2021 Annual	LDA	GAS	2012	AllSpeeds		200570.6	5933429.946	1273496	0.075821369	0	0.0723271	0.148148469
Los Angele	2021 Annual	LDA	DSL	2012	AllSpeeds		1027.395	30393.21687	6523.304	2.52E-04	0	0	2.52E-04
Los Angele	2021 Annual	LDA	GAS	2013	AllSpeeds		204704.5	6266941.52	1307931	0.078258758	0	0.072641961	0.150900719
Los Angele	2021 Annual	LDA	DSL	2013	AllSpeeds		975.5803	29867.03147	6233.334	2.38E-04	0	0	2.38E-04
Los Angele	2021 Annual	LDA	GAS	2014	AllSpeeds		214422.1	6812265.165	14736452	0.082778541	0	0.074427962	0.152206503
Los Angele	2021 Annual	LDA	DSL	2014	AllSpeeds		909.1592	28884.37117	5836.219	2.21E-04	0	0	2.21E-04
Los Angele	2021 Annual	LDA	GAS	2015	AllSpeeds		223848.7	7403364.106	1441441	0.087269667	0	0.075643152	0.162912819
Los Angele	2021 Annual	LDA	DSL	2015	AllSpeeds		857.937	28374.67998	5524.562	2.07E-04	0	0	2.07E-04
Los Angele	2021 Annual	LDA	GAS	2016	AllSpeeds		230648	7976571.582	1492143	0.089150013	0	0.074798957	0.16394897
Los Angele	2021 Annual	LDA	DSL	2016	AllSpeeds		758.2899	26224.24881	4905.645	1.81E-04	0	0	1.81E-04
Los Angele	2021 Annual	LDA	GAS	2017	AllSpeeds		236112.1	8586783.324	1532214	0.086198491	0	0.070791051	0.156989542
Los Angele	2021 Annual	LDA	DSL	2017	AllSpeeds		739.0627	26877.8675	4796.036	1.75E-04	0	0	1.75E-04
Los Angele	2021 Annual	LDA	GAS	2018	AllSpeeds		237971.8	9173618.262	1546662	0.085865156	0	0.067034535	0.152899691
Los Angele	2021 Annual	LDA	DSL	2018	AllSpeeds		684.072	26370.49987	4446.023	1.60E-04	0	0	1.60E-04
Los Angele	2021 Annual	LDA	GAS	2019	AllSpeeds		241518	9990411.108	1574540	0.088565285	0	0.064280801	0.152846086
Los Angele	2021 Annual	LDA	DSL	2019	AllSpeeds		657.9922	27217.99524	4289.68	1.53E-04	0	0	1.53E-04
Los Angele	2021 Annual	LDA	GAS	2020	AllSpeeds		246566.5	1.12E+07	1612384	0.092959988	0	0.061163161	0.154123149
Los Angele	2021 Annual	LDA	DSL	2020	AllSpeeds		594.3916	26946.14681	3886.932	1.39E-04	0	0	1.39E-04
Los Angele	2021 Annual	LDA	GAS	2021	AllSpeeds		233684.1	1.22E+07	1532814	0.092479824	0	0.052287616	0.14476744
Los Angele	2021 Annual	LDA	DSL	2021	AllSpeeds		527.5645	27497.48043	3460.477	1.27E-04	0	0	1.27E-04
Los Angele	2021 Annual	LDT1	GAS	2007	AllSpeeds		8280.188	250487.2063	50752.48	0.00363483	0	0.003426438	0.007061268
Los Angele	2021 Annual	LDT1	DSL	2007	AllSpeeds		0	0	0	0	0	0	0
Los Angele	2021 Annual	LDT1	GAS	2008	AllSpeeds		17339.87	533399.02	106976.3	0.007154688	0	0.006419911	0.013574599
Los Angele	2021 Annual	LDT1	DSL	2008	AllSpeeds		0	0	0	0	0	0	0
Los Angele	2021 Annual	LDT1	GAS	2009	AllSpeeds		15835.54	495844.2586	98487.25	0.006697882	0	0.005921762	0.012619644
Los Angele	2021 Annual	LDT1	DSL	2009	AllSpeeds		0	0	0	0	0	0	0
Los Angele	2021 Annual	LDT1	GAS	2010	AllSpeeds		17536.11	559503.18	109765	0.007596972	0	0.006592972	0.014189944
Los Angele	2021 Annual	LDT1	DSL	2010	AllSpeeds		27.49653	877.3009792	172.1111	9.32E-06	0	0	9.32E-06
Los Angele	2021 Annual	LDT1	GAS	2011	AllSpeeds		16832.68	547829.7449	106203.6	0.007290246	0	0.006260299	0.013550545
Los Angele	2021 Annual	LDT1	DSL	2011	AllSpeeds		39.23577	1276.955995	247.5529	1.31E-05	0	0	1.31E-05
Los Angele	2021 Annual	LDT1	GAS	2012	AllSpeeds		16428.96	546291.1635	104313.5	0.007103198	0	0.006016152	0.013119349
Los Angele	2021 Annual	LDT1	DSL	2012	AllSpeeds		29.26885	973.2433716	185.8386	9.67E-06	0	0	9.67E-06

Los Angele	2020 Annual	T6 instate heavy	0	0	0	0	0.004345624	0.004772964	1.74E-04	0	0.004947162
Los Angele	2020 Annual	T6 instate heavy	0	0	0	0	0.003631862	0.00397954	1.55E-04	0	0.004134599
Los Angele	2020 Annual	T6 instate heavy	0	0	0	0	3.69E-04	3.81E-04	3.82E-05	0	4.20E-04
Los Angele	2020 Annual	LDA/LDT1	0.237211822	0.724133408	3.105613335	0.252715338	6.531237942	2.230884612	0	1.080373941	3.311258553
Los Angele	2020 Annual	T6 instate heavy	0	0	0	0	0.055412561	0.061085979	0.001997003	0	0.063082983

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Los Angele	2021 Annual	LDA		0.026453251	0.1013548	0.2297346	0.03263738	0.49249574	0.089968692	0	0.057628352	0.147597044
Los Angele	2021 Annual	LDA		0	0	0	0	0	0	0	0	0
Los Angele	2021 Annual	LDA		0.025754478	0.097744115	0.2362174	0.03142735	0.494843392	0.093987371	0	0.056800976	0.150788347
Los Angele	2021 Annual	LDA		0	0	0	0	4.79E-06	5.45E-06	0	0	5.45E-06
Los Angele	2021 Annual	LDA		0.020602763	0.077235661	0.2020427	0.02479231	0.422612984	0.08978703	0	0.053060185	0.142847215
Los Angele	2021 Annual	LDA		0	0	0	0	1.60E-04	1.82E-04	0	0	1.82E-04
Los Angele	2021 Annual	LDA		0.02388576	0.087930359	0.2510253	0.028266553	0.523286965	0.123081483	0	0.070516981	0.193598464
Los Angele	2021 Annual	LDA		0	0	0	0	2.92E-04	3.33E-04	0	0	3.33E-04
Los Angele	2021 Annual	LDA		0.021253521	0.076437563	0.2419639	0.024627294	0.501244082	0.128887528	0	0.072292745	0.201180273
Los Angele	2021 Annual	LDA		0	0	0	0	2.68E-04	3.05E-04	0	0	3.05E-04
Los Angele	2021 Annual	LDA		0.019351173	0.067115076	0.242528	0.021797512	0.49894023	0.141113166	0	0.077223048	0.218336214
Los Angele	2021 Annual	LDA		0	0	0	0	2.52E-04	2.86E-04	0	0	2.86E-04
Los Angele	2021 Annual	LDA		0.017150141	0.057056967	0.2319656	0.018733963	0.47580739	0.145649451	0	0.07755921	0.223208661
Los Angele	2021 Annual	LDA		0	0	0	0	2.38E-04	2.71E-04	0	0	2.71E-04
Los Angele	2021 Annual	LDA		0.015178381	0.047360092	0.2202927	0.015949698	0.455987374	0.154061345	0	0.079466112	0.233527457
Los Angele	2021 Annual	LDA		0	0	0	0	2.21E-04	2.51E-04	0	0	2.51E-04
Los Angele	2021 Annual	LDA		0.012498731	0.034786105	0.1905781	0.012484458	0.413260213	0.162419896	0	0.080763556	0.243183452
Los Angele	2021 Annual	LDA		0	0	0	0	2.07E-04	2.35E-04	0	0	2.35E-04
Los Angele	2021 Annual	LDA		0.010687024	0.026091048	0.1807919	0.00989255	0.391411492	0.16591945	0	0.079862215	0.245781665
Los Angele	2021 Annual	LDA		0	0	0	0	1.81E-04	2.06E-04	0	0	2.06E-04
Los Angele	2021 Annual	LDA		0.009368273	0.019612543	0.1721915	0.007995615	0.366157473	0.1604263	0	0.075583003	0.236009303
Los Angele	2021 Annual	LDA		0	0	0	0	1.75E-04	1.99E-04	0	0	1.99E-04
Los Angele	2021 Annual	LDA		0.008208422	0.014393474	0.1624509	0.006439521	0.344392008	0.159805922	0	0.071572214	0.231378136
Los Angele	2021 Annual	LDA		0	0	0	0	1.60E-04	1.82E-04	0	0	1.82E-04
Los Angele	2021 Annual	LDA		0.007608348	0.01130339	0.1563381	0.0055562	0.333652124	0.164831197	0	0.068632059	0.233463256
Los Angele	2021 Annual	LDA		0	0	0	0	1.53E-04	1.74E-04	0	0	1.74E-04
Los Angele	2021 Annual	LDA		0.007273111	0.009264307	0.1525071	0.005002217	0.328169884	0.173010304	0	0.0653034	0.238313704
Los Angele	2021 Annual	LDA		0	0	0	0	1.39E-04	1.58E-04	0	0	1.58E-04
Los Angele	2021 Annual	LDA		0.006581286	0.007337248	0.1387552	0.004317978	0.301759153	0.172116662	0	0.055827055	0.227943717
Los Angele	2021 Annual	LDA		0	0	0	0	1.27E-04	1.44E-04	0	0	1.44E-04
Los Angele	2021 Annual	LDT1		0.002129317	0.006335523	0.022025652	0.002627094	0.040178853	0.006764879	0	0.003658379	0.010423258
Los Angele	2021 Annual	LDT1		0	0	0	0	0	0	0	0	0
Los Angele	2021 Annual	LDT1		0.003950794	0.0116581	0.041362766	0.004821012	0.07536727	0.013315779	0	0.006854485	0.020170265
Los Angele	2021 Annual	LDT1		0	0	0	0	0	0	0	0	0
Los Angele	2021 Annual	LDT1		0.003153549	0.00920625	0.033582773	0.003794811	0.062357027	0.012465608	0	0.006322615	0.018788223
Los Angele	2021 Annual	LDT1		0	0	0	0	0	0	0	0	0
Los Angele	2021 Annual	LDT1		0.003037315	0.008724163	0.033025231	0.003594374	0.062571027	0.014138927	0	0.007039261	0.021178188
Los Angele	2021 Annual	LDT1		0	0	0	0	9.32E-06	1.06E-05	0	0	1.06E-05
Los Angele	2021 Annual	LDT1		0.002509339	0.007059427	0.028097665	0.002907671	0.054124647	0.013568071	0	0.006684069	0.020252139
Los Angele	2021 Annual	LDT1		0	0	0	0	1.31E-05	1.50E-05	0	0	1.50E-05
Los Angele	2021 Annual	LDT1		0.002059775	0.005607986	0.023957802	0.00232017	0.047065082	0.013219949	0	0.006423394	0.019643344
Los Angele	2021 Annual	LDT1		0	0	0	0	9.67E-06	1.10E-05	0	0	1.10E-05

Los Angele	2020 Annual	T6 instate heavy	0	0	0	0	0.004947162	0.017689339	0.001809438	0	0.019498777
Los Angele	2020 Annual	T6 instate heavy	0	0	0	0	0.004134599	0.01474879	0.001610629	0	0.016359419
Los Angele	2020 Annual	T6 instate heavy	0	0	0	0	4.20E-04	0.00141359	3.97E-04	0	0.001810862
Los Angele	2020 Annual	LDA/LDT1	0.237211822	0.724133408	3.105613335	0.252715338	7.630932455	69.20292257	0	17.15596869	86.35889126
Los Angele	2020 Annual	T6 instate heavy	0	0	0	0	0.063082983	0.226394066	0.020743325	0	0.247137391

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Los Angele	2021 Annual	LDA		0.026453251	0.1013548	0.2297346	0.03263738	0.537777075	3.019711238	0	1.034642	4.054353238
Los Angele	2021 Annual	LDA		0	0	0	0	0	0	0	0	0
Los Angele	2021 Annual	LDA		0.025754478	0.097744115	0.2362174	0.03142735	0.54193169	3.112687133	0	1.017086	4.129773133
Los Angele	2021 Annual	LDA		0	0	0	0	5.45E-06	4.50E-05	0	0	4.50E-05
Los Angele	2021 Annual	LDA		0.020602763	0.077235661	0.2020427	0.02479231	0.467520649	2.890842398	0	0.918041	3.808883398
Los Angele	2021 Annual	LDA		0	0	0	0	1.82E-04	0.001504389	0	0	0.001504389
Los Angele	2021 Annual	LDA		0.02388576	0.087930359	0.2510253	0.028266553	0.584706436	3.846434786	0	1.17807	5.024504786
Los Angele	2021 Annual	LDA		0	0	0	0	3.33E-04	0.002742596	0	0	0.002742596
Los Angele	2021 Annual	LDA		0.021253521	0.076437563	0.2419639	0.024627294	0.565462551	4.030784635	0	1.204382	5.235166635
Los Angele	2021 Annual	LDA		0	0	0	0	3.05E-04	0.00251454	0	0	0.00251454
Los Angele	2021 Annual	LDA		0.019351173	0.067115076	0.242528	0.021797512	0.569127975	4.422520557	0	1.283938	5.706458557
Los Angele	2021 Annual	LDA		0	0	0	0	2.86E-04	0.002357721	0	0	0.002357721
Los Angele	2021 Annual	LDA		0.017150141	0.057056967	0.2319656	0.018733963	0.548115332	4.561526778	0	1.282283	5.843809778
Los Angele	2021 Annual	LDA		0	0	0	0	2.71E-04	0.002228823	0	0	0.002228823
Los Angele	2021 Annual	LDA		0.015178381	0.047360092	0.2202927	0.015949698	0.532308328	4.822704604	0	1.304561	6.127265604
Los Angele	2021 Annual	LDA		0	0	0	0	2.51E-04	0.002065067	0	0	0.002065067
Los Angele	2021 Annual	LDA		0.012498731	0.034786105	0.1905781	0.012484458	0.493530846	5.043658385	0	1.304579	6.348237385
Los Angele	2021 Annual	LDA		0	0	0	0	2.35E-04	0.001934343	0	0	0.001934343
Los Angele	2021 Annual	LDA		0.010687024	0.026091048	0.1807919	0.00989255	0.473244187	5.089352045	0	1.248863	6.338215045
Los Angele	2021 Annual	LDA		0	0	0	0	2.06E-04	0.00169131	0	0	0.00169131
Los Angele	2021 Annual	LDA		0.009368273	0.019612543	0.1721915	0.007995615	0.445177234	4.88216523	0	1.11243	5.99459523
Los Angele	2021 Annual	LDA		0	0	0	0	1.99E-04	0.001630113	0	0	0.001630113
Los Angele	2021 Annual	LDA		0.008208422	0.014393474	0.1624509	0.006439521	0.422870453	4.784272438	0	1.008693	5.792965438
Los Angele	2021 Annual	LDA		0	0	0	0	1.82E-04	0.00149271	0	0	0.00149271
Los Angele	2021 Annual	LDA		0.007608348	0.01130339	0.1563381	0.0055562	0.414269293	4.867716549	0	0.9461655	5.813882049
Los Angele	2021 Annual	LDA		0	0	0	0	1.74E-04	0.001424021	0	0	0.001424021
Los Angele	2021 Annual	LDA		0.007273111	0.009264307	0.1525071	0.005002217	0.412360439	5.109160808	0	0.9006653	6.009826108
Los Angele	2021 Annual	LDA		0	0	0	0	1.58E-04	0.001285865	0	0	0.001285865
Los Angele	2021 Annual	LDA		0.006581286	0.007337248	0.1387552	0.004317978	0.38493543	5.233823222	0	0.8030773	6.036900522
Los Angele	2021 Annual	LDA		0	0	0	0	1.44E-04	0.001172633	0	0	0.001172633
Los Angele	2021 Annual	LDT1		0.002129317	0.006335523	0.022025652	0.002627094	0.043540843	0.229210033	0	0.066775553	0.295985586
Los Angele	2021 Annual	LDT1		0	0	0	0	0	0	0	0	0
Los Angele	2021 Annual	LDT1		0.003950794	0.0116581	0.041362766	0.004821012	0.081962936	0.443840215	0	0.124504	0.568344215
Los Angele	2021 Annual	LDT1		0	0	0	0	0	0	0	0	0
Los Angele	2021 Annual	LDT1		0.003153549	0.00920625	0.033582773	0.003794811	0.068525606	0.404012014	0	0.1110871	0.515099114
Los Angele	2021 Annual	LDT1		0	0	0	0	0	0	0	0	0
Los Angele	2021 Annual	LDT1		0.003037315	0.008724163	0.033025231	0.003594374	0.069559271	0.443654878	0	0.1189788	0.562633678
Los Angele	2021 Annual	LDT1		0	0	0	0	1.06E-05	8.71E-05	0	0	8.71E-05
Los Angele	2021 Annual	LDT1		0.002509339	0.007059427	0.028097665	0.002907671	0.06082624	0.425921647	0	0.1125836	0.538505247
Los Angele	2021 Annual	LDT1		0	0	0	0	1.50E-05	1.23E-04	0	0	1.23E-04
Los Angele	2021 Annual	LDT1		0.002059775	0.005607986	0.023957802	0.00232017	0.053589076	0.415032116	0	0.1076851	0.522717216
Los Angele	2021 Annual	LDT1		0	0	0	0	1.10E-05	9.02E-05	0	0	9.02E-05

Los Angele	2020 Annual	T6 instate heavy	0.039740706	0.002733689	0	0.042474395	68.21601644	0.543658059	0	68.7596745	61.3944148
Los Angele	2020 Annual	T6 instate heavy	0.031083035	0.00243333	0	0.033516366	60.72243308	0.483924708	0	61.20635779	54.65018977
Los Angele	2020 Annual	T6 instate heavy	0.002753995	6.00E-04	0	0.003354191	6.242014106	0.11936302	0	6.361377126	5.617812695
Los Angele	2020 Annual	LDA/LDT1	6.361348954	0	1.026660115	7.388009069	47011.39316	0	1694.216972	48705.61013	31456.48345
Los Angele	2020 Annual	T6 instate heavy	0.717611347	0.031338907	0	0.748950254	609.4217816	6.232475698	0	615.6542573	548.4796034

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Area	CalYr	Season	Veh	NOX_RUNEX (Tons/day)	NOX_IDLEX (Tons/day)	NOX_STREX (Tons/day)	NOX_TOTEX (Tons/day)	CO2_RUNEX (Tons/day)	CO2_IDLEX (Tons/day)	CO2_STREX (Tons/day)	CO2_TOTEX (Tons/day)	CO2_RUNEX(Pavt) (Tons/day)
Los Angele	2021 Annual	LDA		0.219271812	0	0.049120255	0.268392067	1400.469919	0	67.10817	1467.578089	1260.422927
Los Angele	2021 Annual	LDA		0	0	0	0	0	0	0	0	0
Los Angele	2021 Annual	LDA		0.240188761	0	0.052122682	0.292311443	1578.002474	0	74.15627	1652.158744	1420.202226
Los Angele	2021 Annual	LDA		1.45E-04	0	0	1.45E-04	0.179554536	0	0	0.179554536	0.161599083
Los Angele	2021 Annual	LDA		0.235876269	0	0.051136877	0.287013146	1486.572777	0	68.53979	1555.112567	1337.9155
Los Angele	2021 Annual	LDA		0.004874335	0	0	0.004874335	6.163655333	0	0	6.163655333	5.5472898
Los Angele	2021 Annual	LDA		0.333227203	0	0.071514755	0.404741958	2037.807071	0	91.8926	2129.699671	1769.835441
Los Angele	2021 Annual	LDA		0.008908694	0	0	0.008908694	11.56890876	0	0	11.56890876	10.04759726
Los Angele	2021 Annual	LDA		0.352549756	0	0.073734909	0.426284665	2170.920019	0	95.74844	2266.668459	1672.476783
Los Angele	2021 Annual	LDA		0.008191311	0	0	0.008191311	10.95281976	0	0	10.95281976	8.438052342
Los Angele	2021 Annual	LDA		0.390561143	0	0.079229407	0.46979055	2426.689002	0	104.3077	2530.996702	1631.463016
Los Angele	2021 Annual	LDA		0.007705552	0	0	0.007705552	10.64059331	0	0	10.64059331	7.15367088
Los Angele	2021 Annual	LDA		0.407666221	0	0.079913542	0.487579763	2562.993891	0	107.1241	2670.117991	1679.273598
Los Angele	2021 Annual	LDA		0.00731118	0	0	0.00731118	10.45637636	0	0	10.45637636	6.851017793
Los Angele	2021 Annual	LDA		0.436164455	0	0.082065418	0.518229873	2786.780918	0	112.732	2899.512918	1785.769212
Los Angele	2021 Annual	LDA		0.006802716	0	0	0.006802716	10.11234918	0	0	10.11234918	6.479993357
Los Angele	2021 Annual	LDA		0.45935868	0	0.082120687	0.541479367	3029.332443	0	118.0467	3147.379143	1862.130652
Los Angele	2021 Annual	LDA		0.006403326	0	0	0.006403326	9.933907584	0	0	9.933907584	6.106372992
Los Angele	2021 Annual	LDA		0.464040792	0	0.077758066	0.541798858	3264.695464	0	122.1913	3386.886764	1930.414428
Los Angele	2021 Annual	LDA		0.005632314	0	0	0.005632314	9.181047422	0	0	9.181047422	5.428753341
Los Angele	2021 Annual	LDA		0.474166567	0	0.073611423	0.54777799	3515.396449	0	125.4674	3640.863849	2078.65392
Los Angele	2021 Annual	LDA		0.005466478	0	0	0.005466478	9.40987665	0	0	9.40987665	5.564060063
Los Angele	2021 Annual	LDA		0.470590585	0	0.065958284	0.536548869	3756.570922	0	126.6422	3883.213122	2221.260386
Los Angele	2021 Annual	LDA		0.005047354	0	0	0.005047354	9.23224973	0	0	9.23224973	5.459029265
Los Angele	2021 Annual	LDA		0.479587537	0	0.059695445	0.539282982	4092.103215	0	128.9179	4221.021115	2419.660631
Los Angele	2021 Annual	LDA		0.004863913	0	0	0.004863913	9.528955611	0	0	9.528955611	5.634471453
Los Angele	2021 Annual	LDA		0.499473298	0	0.053372461	0.552845759	4579.805374	0	132.0139	4711.819274	2708.038918
Los Angele	2021 Annual	LDA		0.004448137	0	0	0.004448137	9.433781766	0	0	9.433781766	5.578195158
Los Angele	2021 Annual	LDA		0.501896607	0	0.043016896	0.544913503	4992.028889	0	125.501	5117.529889	2951.786682
Los Angele	2021 Annual	LDA		0.004125706	0	0	0.004125706	9.626803005	0	0	9.626803005	5.692328617
Los Angele	2021 Annual	LDT1		0.016307183	0	0.003117598	0.019424781	119.1614141	0	4.837929	123.9993431	107.2452726
Los Angele	2021 Annual	LDT1		0	0	0	0	0	0	0	0	0
Los Angele	2021 Annual	LDT1		0.033713071	0	0.006300515	0.040013586	253.5223501	0	10.18831	263.7106601	228.1701151
Los Angele	2021 Annual	LDT1		0	0	0	0	0	0	0	0	0
Los Angele	2021 Annual	LDT1		0.032487392	0	0.00610381	0.038591202	236.0757024	0	9.395931	245.4716334	212.4681322
Los Angele	2021 Annual	LDT1		0	0	0	0	0	0	0	0	0
Los Angele	2021 Annual	LDT1		0.037993328	0	0.007155405	0.045148733	266.2199562	0	10.46538	276.6853362	231.212032
Los Angele	2021 Annual	LDT1		2.87E-04	0	0	2.87E-04	0.307140973	0	0	0.307140973	0.266751935
Los Angele	2021 Annual	LDT1		0.036909184	0	0.006841656	0.04375084	260.638173	0	10.12474	270.762913	200.7956484
Los Angele	2021 Annual	LDT1		4.06E-04	0	0	4.06E-04	0.447059221	0	0	0.447059221	0.344414424
Los Angele	2021 Annual	LDT1		0.036430243	0	0.00661629	0.043046534	259.8870164	0	9.943814	269.8308304	174.7220411
Los Angele	2021 Annual	LDT1		2.99E-04	0	0	2.99E-04	0.340730145	0	0	0.340730145	0.229072876

Los Angele	2020 Annual	T6 instate heavy	0.489292253	0	61.88370705	0.001723547	6.43E-06	0	0.001729972	7.32E-04	0.007955142
Los Angele	2020 Annual	T6 instate heavy	0.435532237	0	55.08572201	0.001393252	5.72E-06	0	0.001398971	6.52E-04	0.007081263
Los Angele	2020 Annual	T6 instate heavy	0.107426718	0	5.725239413	1.29E-04	1.41E-06	0	1.30E-04	6.70E-05	7.28E-04
Los Angele	2020 Annual	LDA/LDT1	0	1161.169741	32617.6532	0.207889821	0	0.069910364	0.277800185	1.002292486	4.604281892
Los Angele	2020 Annual	T6 instate heavy	5.609228128	0	554.0888316	0.021936205	7.36568E-05	0	0.022009862	0.006515523	0.070769438

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Los Angele	2021 Annual	LDA		0	60.397353	1320.82028	0.001083173	0	1.62E-04	0.001245138	0.030260919	0.1390111
Los Angele	2021 Annual	LDA		0	0	0	0	0	0	0	0	0
Los Angele	2021 Annual	LDA		0	66.740643	1486.942869	0.001220483	0	2.33E-04	0.001453151	0.034090009	0.156601
Los Angele	2021 Annual	LDA		0	0	0.161599083	2.88E-06	0	0	2.88E-06	4.52E-06	2.08E-05
Los Angele	2021 Annual	LDA		0	61.685811	1399.601311	0.001533024	0	3.40E-04	0.001872687	0.032050226	0.1472307
Los Angele	2021 Annual	LDA		0	0	5.5472898	9.65E-05	0	0	9.65E-05	1.55E-04	7.13E-04
Los Angele	2021 Annual	LDA		0	79.8087231	1849.644164	0.002101482	0	5.62E-04	0.00266333	0.043937333	0.2018371
Los Angele	2021 Annual	LDA		0	0	10.04759726	1.76E-04	0	0	1.76E-04	2.91E-04	0.001338643
Los Angele	2021 Annual	LDA		0	73.76459818	1746.241381	0.003358132	0	0.001090736	0.004448868	0.046806969	0.2150196
Los Angele	2021 Annual	LDA		0	0	8.438052342	1.62E-04	0	0	1.62E-04	2.76E-04	0.001267356
Los Angele	2021 Annual	LDA		0	70.12606671	1701.589083	0.005005031	0	0.001671593	0.006676624	0.0523239	0.2403629
Los Angele	2021 Annual	LDA		0	0	7.15367088	1.53E-04	0	0	1.53E-04	2.68E-04	0.001231228
Los Angele	2021 Annual	LDA		0	70.18771032	1749.461308	0.007929238	0	0.00321628	0.011145518	0.055264957	0.2538734
Los Angele	2021 Annual	LDA		0	0	6.851017793	1.45E-04	0	0	1.45E-04	2.63E-04	0.001209912
Los Angele	2021 Annual	LDA		0	72.2386656	1858.007878	0.011491845	0	0.004788571	0.016280416	0.060073897	0.2759645
Los Angele	2021 Annual	LDA		0	0	6.479993357	1.35E-04	0	0	1.35E-04	2.55E-04	0.001170104
Los Angele	2021 Annual	LDA		0	72.56330649	1934.693959	0.015610191	0	0.006457844	0.022068035	0.065286502	0.2999099
Los Angele	2021 Annual	LDA		0	0	6.106372992	1.27E-04	0	0	1.27E-04	2.50E-04	0.001149457
Los Angele	2021 Annual	LDA		0	72.25171569	2002.666144	0.019340433	0	0.00780031	0.027140743	0.070341326	0.3231305
Los Angele	2021 Annual	LDA		0	0	5.428753341	1.12E-04	0	0	1.12E-04	2.31E-04	0.001062343
Los Angele	2021 Annual	LDA		0	74.18887362	2152.842794	0.022629471	0	0.008756394	0.031385865	0.075722463	0.3478501
Los Angele	2021 Annual	LDA		0	0	5.564060063	1.08E-04	0	0	1.08E-04	2.37E-04	0.001088821
Los Angele	2021 Annual	LDA		0	74.88353286	2296.143919	0.025141403	0	0.009218403	0.034359806	0.080897473	0.3716228
Los Angele	2021 Annual	LDA		0	0	5.459029265	1.00E-04	0	0	1.00E-04	2.33E-04	0.001068268
Los Angele	2021 Annual	LDA		0	76.22915427	2495.889785	0.027378456	0	0.00941102	0.036789476	0.088100344	0.404711
Los Angele	2021 Annual	LDA		0	0	5.634471453	9.65E-05	0	0	9.65E-05	2.40E-04	0.001102599
Los Angele	2021 Annual	LDA		0	78.05981907	2786.098737	0.030631901	0	0.009637032	0.040268933	0.098571397	0.4528124
Los Angele	2021 Annual	LDA		0	0	5.578195158	8.83E-05	0	0	8.83E-05	2.38E-04	0.001091587
Los Angele	2021 Annual	LDA		0	74.2087413	3025.995423	0.033378635	0	0.009161585	0.04254022	0.1074087	0.4934087
Los Angele	2021 Annual	LDA		0	0	5.692328617	8.20E-05	0	0	8.20E-05	2.42E-04	0.001113922
Los Angele	2021 Annual	LDT1		0	4.3541361	111.5994087	7.92E-05	0	1.00E-05	8.92E-05	0.002208919	0.010147223
Los Angele	2021 Annual	LDT1		0	0	0	0	0	0	0	0	0
Los Angele	2021 Annual	LDT1		0	9.169479	237.3395941	1.69E-04	0	2.75E-05	1.96E-04	0.004703774	0.021607967
Los Angele	2021 Annual	LDT1		0	0	0	0	0	0	0	0	0
Los Angele	2021 Annual	LDT1		0	8.4563379	220.9244701	2.09E-04	0	4.00E-05	2.49E-04	0.004372598	0.020086626
Los Angele	2021 Annual	LDT1		0	0	0	0	0	0	0	0	0
Los Angele	2021 Annual	LDT1		0	9.08918253	240.3012145	2.36E-04	0	5.50E-05	2.91E-04	0.004933973	0.022665445
Los Angele	2021 Annual	LDT1		0	0	0.266751935	4.75E-06	0	0	4.75E-06	7.74E-06	3.55E-05
Los Angele	2021 Annual	LDT1		0	7.800099696	208.5957481	3.46E-04	0	9.91E-05	4.46E-04	0.004831031	0.022192556
Los Angele	2021 Annual	LDT1		0	0	0.344414424	6.71E-06	0	0	6.71E-06	1.13E-05	5.17E-05
Los Angele	2021 Annual	LDT1		0	6.685226152	181.4072673	4.61E-04	0	1.37E-04	5.97E-04	0.004817464	0.022130229
Los Angele	2021 Annual	LDT1		0	0	0.229072876	4.95E-06	0	0	4.95E-06	8.58E-06	3.94E-05



Los Angele	2020 Annual	T6 instate heavy	0.010417519	0.001585663	5.91E-06	0	0.001591574	1.83E-04	0.003409347	0.005184022	6.51E-04
Los Angele	2020 Annual	T6 instate heavy	0.009132185	0.001281792	5.26E-06	0	0.001287054	1.63E-04	0.003034827	0.004484868	5.79E-04
Los Angele	2020 Annual	T6 instate heavy	9.25E-04	1.18E-04	1.30E-06	0	1.20E-04	1.68E-05	3.12E-04	4.48E-04	5.96E-05
Los Angele	2020 Annual	LDA/LDT1	5.884374564	0.192874966	0	0.064865285	0.257740251	0.250573108	1.973263424	2.481576783	0.470348893
Los Angele	2020 Annual	T6 instate heavy	0.099294823	0.020181308	6.77642E-05	0	0.020249073	0.001628881	0.030329759	0.052207713	0.005814169

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Los Angele	2021 Annual	LDA		0.170517157	0.001005006	0	1.50E-04	0.001155282	0.00756523	0.059576191	0.068296703	0.014029108
Los Angele	2021 Annual	LDA		0	0	0	0	0	0	0	0	0
Los Angele	2021 Annual	LDA		0.19214416	0.001132407	0	2.16E-04	0.001348284	0.008522502	0.067114711	0.076985498	0.015802773
Los Angele	2021 Annual	LDA		2.82E-05	2.65E-06	0	0	2.65E-06	1.13E-06	8.90E-06	1.27E-05	1.71E-06
Los Angele	2021 Annual	LDA		0.181153613	0.001422393	0	3.15E-04	0.001737544	0.008012557	0.063098885	0.072848986	0.014886542
Los Angele	2021 Annual	LDA		9.65E-04	8.88E-05	0	0	8.88E-05	3.88E-05	3.06E-04	4.33E-04	5.88E-05
Los Angele	2021 Annual	LDA		0.248437763	0.001949829	0	5.21E-04	0.002471131	0.010984333	0.086501621	0.099957085	0.020404778
Los Angele	2021 Annual	LDA		0.001806525	1.62E-04	0	0	1.62E-04	7.29E-05	5.74E-04	8.09E-04	1.10E-04
Los Angele	2021 Annual	LDA		0.266275437	0.003115793	0	0.001012023	0.004127816	0.011701742	0.092151247	0.107980805	0.021736538
Los Angele	2021 Annual	LDA		0.001705526	1.49E-04	0	0	1.49E-04	6.90E-05	5.43E-04	7.61E-04	1.05E-04
Los Angele	2021 Annual	LDA		0.299363424	0.004643842	0	0.001550962	0.006194805	0.013080975	0.1030127	0.12228848	0.024296058
Los Angele	2021 Annual	LDA		0.001651931	1.40E-04	0	0	1.40E-04	6.70E-05	5.28E-04	7.35E-04	1.02E-04
Los Angele	2021 Annual	LDA		0.320283875	0.007357026	0	0.002984177	0.010341203	0.013816239	0.1088029	0.132960342	0.025658933
Los Angele	2021 Annual	LDA		0.001618182	1.33E-04	0	0	1.33E-04	6.58E-05	5.19E-04	7.18E-04	9.98E-05
Los Angele	2021 Annual	LDA		0.352318813	0.010662535	0	0.004443003	0.015105538	0.015018474	0.1182705	0.148394512	0.027897058
Los Angele	2021 Annual	LDA		0.001559656	1.24E-04	0	0	1.24E-04	6.37E-05	5.01E-04	6.89E-04	9.65E-05
Los Angele	2021 Annual	LDA		0.387264437	0.014483683	0	0.005991814	0.020475496	0.016321626	0.1285328	0.165329922	0.030321857
Los Angele	2021 Annual	LDA		0.001526623	1.17E-04	0	0	1.17E-04	6.26E-05	4.93E-04	6.72E-04	9.48E-05
Los Angele	2021 Annual	LDA		0.420612569	0.017944731	0	0.007237401	0.025182132	0.017585332	0.1384845	0.181251964	0.03267201
Los Angele	2021 Annual	LDA		0.001405287	1.03E-04	0	0	1.03E-04	5.78E-05	4.55E-04	6.16E-04	8.76E-05
Los Angele	2021 Annual	LDA		0.454958428	0.020996418	0	0.008124488	0.029120905	0.018930616	0.1490786	0.197130121	0.035171047
Los Angele	2021 Annual	LDA		0.001434271	9.98E-05	0	0	9.98E-05	5.93E-05	4.67E-04	6.26E-04	8.98E-05
Los Angele	2021 Annual	LDA		0.486880079	0.023327075	0	0.008553158	0.031880233	0.020224368	0.1592669	0.211371501	0.037576839
Los Angele	2021 Annual	LDA		0.001400963	9.21E-05	0	0	9.21E-05	5.81E-05	4.58E-04	6.08E-04	8.81E-05
Los Angele	2021 Annual	LDA		0.52960082	0.02540269	0	0.008731874	0.034134564	0.022025086	0.1734476	0.22960725	0.040927496
Los Angele	2021 Annual	LDA		0.001439167	8.88E-05	0	0	8.88E-05	6.00E-05	4.73E-04	6.21E-04	9.10E-05
Los Angele	2021 Annual	LDA		0.59165273	0.02842135	0	0.008941574	0.037362924	0.024642849	0.1940624	0.256068173	0.045799643
Los Angele	2021 Annual	LDA		0.001417548	8.13E-05	0	0	8.13E-05	5.94E-05	4.68E-04	6.08E-04	9.01E-05
Los Angele	2021 Annual	LDA		0.64335762	0.030969867	0	0.008500439	0.039470306	0.026852172	0.2114609	0.277783378	0.049916286
Los Angele	2021 Annual	LDA		0.001438395	7.54E-05	0	0	7.54E-05	6.06E-05	4.77E-04	6.13E-04	9.19E-05
Los Angele	2021 Annual	LDT1		0.012445372	7.35E-05	0	9.30E-06	8.28E-05	5.52E-04	0.00434881	0.004983831	0.001193231
Los Angele	2021 Annual	LDT1		0	0	0	0	0	0	0	0	0
Los Angele	2021 Annual	LDT1		0.026507702	1.56E-04	0	2.55E-05	1.82E-04	0.001175944	0.009260558	0.010618321	0.002537945
Los Angele	2021 Annual	LDT1		0	0	0	0	0	0	0	0	0
Los Angele	2021 Annual	LDT1		0.02470843	1.94E-04	0	3.71E-05	2.31E-04	0.00109315	0.008608554	0.009932925	0.002363147
Los Angele	2021 Annual	LDT1		0	0	0	0	0	0	0	0	0
Los Angele	2021 Annual	LDT1		0.027890303	2.19E-04	0	5.10E-05	2.70E-04	0.001233493	0.00971376	0.011217146	0.00266471
Los Angele	2021 Annual	LDT1		4.80E-05	4.37E-06	0	0	4.37E-06	1.93E-06	1.52E-05	2.15E-05	2.93E-06
Los Angele	2021 Annual	LDT1		0.02746912	3.21E-04	0	9.19E-05	4.13E-04	0.001207758	0.009511094	0.011132233	0.002608699
Los Angele	2021 Annual	LDT1		6.97E-05	6.17E-06	0	0	6.17E-06	2.82E-06	2.22E-05	3.12E-05	4.27E-06
Los Angele	2021 Annual	LDT1		0.027545191	4.27E-04	0	1.27E-04	5.54E-04	0.001204366	0.009484382	0.011243128	0.002601021
Los Angele	2021 Annual	LDT1		5.30E-05	4.55E-06	0	0	4.55E-06	2.15E-06	1.69E-05	2.36E-05	3.25E-06

Los Angele	2020 Annual	T6 instate heavy	5.19E-06	0	6.56E-04	0	6.188370705	1.57E-04	7.04E-04	1.53E-03	6.25E-05	3.14E-04	5.75E-05	1.30E-04	2.37E-05
Los Angele	2020 Annual	T6 instate heavy	4.62E-06	0	5.84E-04	0	5.508572201	1.47E-04	6.64E-04	1.36E-03	5.68E-05	3.14E-04	5.22E-05	1.30E-04	2.37E-05
Los Angele	2020 Annual	T6 instate heavy	1.14E-06	0	6.07E-05	0	0.572523941	1.46E-04	7.15E-04	1.32E-03	5.14E-05	3.14E-04	4.73E-05	1.30E-04	2.40E-05
Los Angele	2020 Annual	LDA/LDT1	0	0.017212522	0.487561415	5187.25461	11.75155701	1.15E-04	1.52E-03	1.30E-04	4.89E-06	9.87E-05	4.54E-06	3.91E-05	8.58E-06
Los Angele	2020 Annual	T6 instate heavy	5.94607E-05	0	0.005873629	0	55.40888316	2.25E-04	1.00E-03	3.04E-03	8.94E-05	3.14E-04	8.22E-05	1.30E-04	2.38E-05

EMFAC 2011

2021 Estimated Annual Emissions

EMFAC 2011 Vehicle Categories

Los Angeles COUNTY

South Coast AIR BASIN

South Coast AQMD

Area	CalYr	Season	Veh	SOX_IDLEX (Tons/day)	SOX_STREX (Tons/day)	SOX_TOTEX (Tons/day)	FUEL_GAS (1000 Gallons)	FUEL_DSL (1000 Gallons)	exhaust ROG lb/mile	exhaust CO lb/mile	exhaust NOx lb/mile	exhaust PM10 lb/mile	tire wear a PM10 lb/mile	exhaust PM2.5 lb/mile	tire wear a PM2.5 lb/mile	SOx lb/mile
Los Angele	2021 Annual	LDA		0	6.88E-04	0.01471691	156.9772	0	2.87E-04	2.36E-03	1.56E-04	7.26E-07	9.87E-05	6.73E-07	3.91E-05	8.58E-06
Los Angele	2021 Annual	LDA		0	0	0	0	0	0	0	0	0	0	0	0	0
Los Angele	2021 Annual	LDA		0	7.58E-04	0.016560627	176.6432	0	2.56E-04	2.14E-03	1.51E-04	7.52E-07	9.87E-05	6.98E-07	3.91E-05	8.57E-06
Los Angele	2021 Annual	LDA		0	0	1.71E-06	0	0.016159911	1.87E-05	1.75E-04	5.67E-04	1.12E-05	9.87E-05	1.03E-05	3.91E-05	6.68E-06
Los Angele	2021 Annual	LDA		0	7.00E-04	0.015586669	166.2545	0	2.33E-04	2.10E-03	1.58E-04	1.03E-06	9.87E-05	9.56E-07	3.91E-05	8.58E-06
Los Angele	2021 Annual	LDA		0	0	5.88E-05	0	0.554729	1.82E-05	1.71E-04	5.54E-04	1.10E-05	9.87E-05	1.01E-05	3.91E-05	6.68E-06
Los Angele	2021 Annual	LDA		0	9.38E-04	0.021342605	227.6499	0	2.10E-04	2.02E-03	1.62E-04	1.07E-06	9.87E-05	9.92E-07	3.91E-05	8.57E-06
Los Angele	2021 Annual	LDA		0	0	1.10E-04	0	1.041202	1.77E-05	1.66E-04	5.39E-04	1.07E-05	9.87E-05	9.83E-06	3.91E-05	6.68E-06
Los Angele	2021 Annual	LDA		0	9.77E-04	0.022713319	242.2706	0	1.89E-04	1.97E-03	1.61E-04	1.68E-06	9.87E-05	1.56E-06	3.91E-05	8.56E-06
Los Angele	2021 Annual	LDA		0	0	1.05E-04	0	0.9857539	1.71E-05	1.61E-04	5.24E-04	1.04E-05	9.87E-05	9.54E-06	3.91E-05	6.68E-06
Los Angele	2021 Annual	LDA		0	0.001063612	0.02535967	270.4977	0	1.68E-04	1.92E-03	1.58E-04	2.25E-06	9.87E-05	2.09E-06	3.91E-05	8.55E-06
Los Angele	2021 Annual	LDA		0	0	1.02E-04	0	0.9576535	1.66E-05	1.55E-04	5.07E-04	1.00E-05	9.87E-05	9.24E-06	3.91E-05	6.68E-06
Los Angele	2021 Annual	LDA		0	0.001091709	0.026750642	285.3345	0	1.52E-04	1.86E-03	1.56E-04	3.56E-06	9.87E-05	3.30E-06	3.91E-05	8.54E-06
Los Angele	2021 Annual	LDA		0	0	9.98E-05	0	0.9410739	1.59E-05	1.49E-04	4.90E-04	9.70E-06	9.87E-05	8.93E-06	3.91E-05	6.68E-06
Los Angele	2021 Annual	LDA		0	0.001148092	0.02904515	309.8087	0	1.34E-04	1.80E-03	1.52E-04	4.78E-06	9.87E-05	4.43E-06	3.91E-05	8.50E-06
Los Angele	2021 Annual	LDA		0	0	9.65E-05	0	0.9101115	1.53E-05	1.43E-04	4.71E-04	9.34E-06	9.87E-05	8.59E-06	3.91E-05	6.68E-06
Los Angele	2021 Annual	LDA		0	0.001201181	0.031523038	336.239	0	1.12E-04	1.71E-03	1.46E-04	5.96E-06	9.87E-05	5.53E-06	3.91E-05	8.52E-06
Los Angele	2021 Annual	LDA		0	0	9.48E-05	0	0.8940517	1.46E-05	1.36E-04	4.51E-04	8.95E-06	9.87E-05	8.23E-06	3.91E-05	6.68E-06
Los Angele	2021 Annual	LDA		0	0.00124165	0.03391366	361.7385	0	9.81E-05	1.59E-03	1.36E-04	6.81E-06	9.87E-05	6.31E-06	3.91E-05	8.50E-06
Los Angele	2021 Annual	LDA		0	0	8.76E-05	0	0.8262943	1.38E-05	1.29E-04	4.30E-04	8.52E-06	9.87E-05	7.84E-06	3.91E-05	6.68E-06
Los Angele	2021 Annual	LDA		0	0.001272084	0.036443131	388.7189	0	8.53E-05	1.40E-03	1.28E-04	7.31E-06	9.87E-05	6.78E-06	3.91E-05	8.49E-06
Los Angele	2021 Annual	LDA		0	0	8.98E-05	0	0.846889	1.30E-05	1.21E-04	4.07E-04	8.07E-06	9.87E-05	7.42E-06	3.91E-05	6.68E-06
Los Angele	2021 Annual	LDA		0	0.001282064	0.038858903	414.4866	0	7.51E-05	1.26E-03	1.17E-04	7.49E-06	9.87E-05	6.95E-06	3.91E-05	8.47E-06
Los Angele	2021 Annual	LDA		0	0	8.81E-05	0	0.8309026	1.22E-05	1.13E-04	3.83E-04	7.60E-06	9.87E-05	6.99E-06	3.91E-05	6.68E-06
Los Angele	2021 Annual	LDA		0	0.001303711	0.042231207	450.4572	0	6.68E-05	1.16E-03	1.08E-04	7.36E-06	9.87E-05	6.83E-06	3.91E-05	8.45E-06
Los Angele	2021 Annual	LDA		0	0	9.10E-05	0	0.857606	1.13E-05	1.05E-04	3.57E-04	7.09E-06	9.87E-05	6.53E-06	3.91E-05	6.68E-06
Los Angele	2021 Annual	LDA		0	0.001333802	0.047133445	502.7466	0	5.87E-05	1.08E-03	9.89E-05	7.21E-06	9.87E-05	6.69E-06	3.91E-05	8.43E-06
Los Angele	2021 Annual	LDA		0	0	9.01E-05	0	0.8490403	1.03E-05	9.54E-05	3.30E-04	6.56E-06	9.87E-05	6.03E-06	3.91E-05	6.68E-06
Los Angele	2021 Annual	LDA		0	0.001266979	0.051183265	545.9438	0	4.96E-05	9.91E-04	8.95E-05	6.99E-06	9.87E-05	6.48E-06	3.91E-05	8.40E-06
Los Angele	2021 Annual	LDA		0	0	9.19E-05	0	0.8664123	9.23E-06	8.53E-05	3.00E-04	5.96E-06	9.87E-05	5.49E-06	3.91E-05	6.68E-06
Los Angele	2021 Annual	LDT1		0	4.94E-05	0.001242678	13.25496	0	3.21E-04	2.36E-03	1.55E-04	7.12E-07	9.87E-05	6.61E-07	3.91E-05	9.92E-06
Los Angele	2021 Annual	LDT1		0	0	0	0	0	0	0	0	0	0	0	0	0
Los Angele	2021 Annual	LDT1		0	1.04E-04	0.002641799	28.17862	0	2.83E-04	2.13E-03	1.50E-04	7.35E-07	9.87E-05	6.82E-07	3.91E-05	9.91E-06
Los Angele	2021 Annual	LDT1		0	0	0	0	0	0	0	0	0	0	0	0	0
Los Angele	2021 Annual	LDT1		0	9.57E-05	0.002458866	26.22738	0	2.52E-04	2.08E-03	1.56E-04	1.01E-06	9.87E-05	9.33E-07	3.91E-05	9.92E-06
Los Angele	2021 Annual	LDT1		0	0	0	0	0	0	0	0	0	0	0	0	0
Los Angele	2021 Annual	LDT1		0	1.07E-04	0.002771248	29.55939	0	2.24E-04	2.01E-03	1.61E-04	1.04E-06	9.87E-05	9.65E-07	3.91E-05	9.91E-06
Los Angele	2021 Annual	LDT1		0	0	2.93E-06	0	0.02764269	2.13E-05	1.99E-04	6.55E-04	1.08E-05	9.87E-05	9.96E-06	3.91E-05	6.68E-06
Los Angele	2021 Annual	LDT1		0	1.03E-04	0.002711727	28.92451	0	1.98E-04	1.97E-03	1.60E-04	1.63E-06	9.87E-05	1.51E-06	3.91E-05	9.90E-06
Los Angele	2021 Annual	LDT1		0	0	4.27E-06	0	0.040235329	2.06E-05	1.92E-04	6.36E-04	1.05E-05	9.87E-05	9.67E-06	3.91E-05	6.68E-06
Los Angele	2021 Annual	LDT1		0	1.01E-04	0.002702158	28.82244	0	1.72E-04	1.91E-03	1.58E-04	2.19E-06	9.87E-05	2.03E-06	3.91E-05	9.89E-06
Los Angele	2021 Annual	LDT1		0	0	3.25E-06	0	0.030665714	1.99E-05	1.85E-04	6.15E-04	1.02E-05	9.87E-05	9.36E-06	3.91E-05	6.68E-06

Los Angele	2020 Annual	T6 instate heavy	1.12E-03
Los Angele	2020 Annual	T6 instate heavy	1.12E-03
Los Angele	2020 Annual	T6 instate heavy	1.13E-03
Los Angele	2020 Annual	LDA/LDT1	2.87E-04
Los Angele	2020 Annual	T6 instate heavy	1.12E-03

EMFAC 2011

2021 Estimated Annual Emissions

EMFAC 2011 Vehicle Categories

Los Angeles COUNTY

South Coast AIR BASIN

South Coast AQMD

Area	CalYr	Season	Veh	exhaust CO2 ton/mile
Los Angele	2021 Annual	LDA		3.85E-04
Los Angele	2021 Annual	LDA		
Los Angele	2021 Annual	LDA		3.85E-04
Los Angele	2021 Annual	LDA		3.15E-04
Los Angele	2021 Annual	LDA		3.85E-04
Los Angele	2021 Annual	LDA		3.15E-04
Los Angele	2021 Annual	LDA		3.71E-04
Los Angele	2021 Annual	LDA		3.04E-04
Los Angele	2021 Annual	LDA		3.29E-04
Los Angele	2021 Annual	LDA		2.70E-04
Los Angele	2021 Annual	LDA		2.87E-04
Los Angele	2021 Annual	LDA		2.35E-04
Los Angele	2021 Annual	LDA		2.79E-04
Los Angele	2021 Annual	LDA		2.29E-04
Los Angele	2021 Annual	LDA		2.73E-04
Los Angele	2021 Annual	LDA		2.24E-04
Los Angele	2021 Annual	LDA		2.61E-04
Los Angele	2021 Annual	LDA		2.15E-04
Los Angele	2021 Annual	LDA		2.51E-04
Los Angele	2021 Annual	LDA		2.07E-04
Los Angele	2021 Annual	LDA		2.51E-04
Los Angele	2021 Annual	LDA		2.07E-04
Los Angele	2021 Annual	LDA		2.50E-04
Los Angele	2021 Annual	LDA		2.07E-04
Los Angele	2021 Annual	LDA		2.50E-04
Los Angele	2021 Annual	LDA		2.07E-04
Los Angele	2021 Annual	LDA		2.49E-04
Los Angele	2021 Annual	LDA		2.07E-04
Los Angele	2021 Annual	LDA		2.48E-04
Los Angele	2021 Annual	LDA		2.07E-04
Los Angele	2021 Annual	LDT1		4.46E-04
Los Angele	2021 Annual	LDT1		
Los Angele	2021 Annual	LDT1		4.45E-04
Los Angele	2021 Annual	LDT1		
Los Angele	2021 Annual	LDT1		4.46E-04
Los Angele	2021 Annual	LDT1		
Los Angele	2021 Annual	LDT1		4.29E-04
Los Angele	2021 Annual	LDT1		3.04E-04
Los Angele	2021 Annual	LDT1		3.81E-04
Los Angele	2021 Annual	LDT1		2.70E-04
Los Angele	2021 Annual	LDT1		3.32E-04
Los Angele	2021 Annual	LDT1		2.35E-04

Los Angele	2021 Annual	LDT1	GAS	2013 AllSpeeds	16849.27	573427.2736	107656.1	0.007262401	0	0.006054707	0.013317108
Los Angele	2021 Annual	LDT1	DSL	2013 AllSpeeds	38.53652	1311.509901	246.2238	1.25E-05	0	0	1.25E-05
Los Angele	2021 Annual	LDT1	GAS	2014 AllSpeeds	17061.57	595552.8035	109524.3	0.007325382	0	0.005985341	0.013310723
Los Angele	2021 Annual	LDT1	DSL	2014 AllSpeeds	37.0422	1293.004098	237.7871	1.18E-05	0	0	1.18E-05
Los Angele	2021 Annual	LDT1	GAS	2015 AllSpeeds	17911.11	642860.8718	115336	0.007648002	0	0.006099955	0.013747957
Los Angele	2021 Annual	LDT1	DSL	2015 AllSpeeds	37.73373	1354.335731	242.9809	1.18E-05	0	0	1.18E-05
Los Angele	2021 Annual	LDT1	GAS	2016 AllSpeeds	18018	667262.1094	116564.8	0.007504208	0	0.005873026	0.013377234
Los Angele	2021 Annual	LDT1	DSL	2016 AllSpeeds	46.3851	1717.79282	300.0816	1.42E-05	0	0	1.42E-05
Los Angele	2021 Annual	LDT1	GAS	2017 AllSpeeds	18372.18	705107.2205	119223.5	0.00707564	0	0.005508395	0.012584035
Los Angele	2021 Annual	LDT1	DSL	2017 AllSpeeds	31.89508	1224.109976	206.9784	9.48E-06	0	0	9.48E-06
Los Angele	2021 Annual	LDT1	GAS	2018 AllSpeeds	18460.16	738916.6557	119979	0.006899089	0	0.005189313	0.012088402
Los Angele	2021 Annual	LDT1	DSL	2018 AllSpeeds	33.24561	1330.751217	216.0748	9.62E-06	0	0	9.62E-06
Los Angele	2021 Annual	LDT1	GAS	2019 AllSpeeds	18515.96	780641.3337	120712	0.006895657	0	0.004911557	0.011807215
Los Angele	2021 Annual	LDT1	DSL	2019 AllSpeeds	37.61664	1585.943694	245.236	1.06E-05	0	0	1.06E-05
Los Angele	2021 Annual	LDT1	GAS	2020 AllSpeeds	19016.31	858846.3785	124354.2	0.007108324	0	0.004694469	0.011802793
Los Angele	2021 Annual	LDT1	DSL	2020 AllSpeeds	31.59509	1426.959322	206.6112	8.70E-06	0	0	8.70E-06
Los Angele	2021 Annual	LDT1	GAS	2021 AllSpeeds	19776.72	994478.4593	129722.3	0.007507458	0	0.004398821	0.011906279
Los Angele	2021 Annual	LDT1	DSL	2021 AllSpeeds	23.60095	1186.788053	154.8068	6.49E-06	0	0	6.49E-06
Los Angele	2021 Annual	T6 instate heavy	DSL	2007 AllSpeeds	794.9316354	33089.2899	0	0.008549578	1.84E-04	0	0.008733513
Los Angele	2021 Annual	T6 instate heavy	DSL	2008 AllSpeeds	377.3886684	16908.2242	0	0.004243629	8.73E-05	0	0.004330951
Los Angele	2021 Annual	T6 instate heavy	DSL	2009 AllSpeeds	218.0162861	10835.9762	0	0.002631026	5.04E-05	0	0.002681471
Los Angele	2021 Annual	T6 instate heavy	DSL	2010 AllSpeeds	544.968074	22599.48798	0	0.003219679	1.26E-04	0	0.003345776
Los Angele	2021 Annual	T6 instate heavy	DSL	2011 AllSpeeds	425.6114315	22269.2957	0	0.003068342	9.85E-05	0	0.003166822
Los Angele	2021 Annual	T6 instate heavy	DSL	2012 AllSpeeds	389.7235858	23410.81395	0	0.003108994	9.02E-05	0	0.00319917
Los Angele	2021 Annual	T6 instate heavy	DSL	2013 AllSpeeds	612.0706749	29602.47456	0	0.003142456	1.42E-04	0	0.003284079
Los Angele	2021 Annual	T6 instate heavy	DSL	2014 AllSpeeds	1320.11291	59038.44669	0	0.006050844	3.05E-04	0	0.006356297
Los Angele	2021 Annual	T6 instate heavy	DSL	2015 AllSpeeds	710.6598918	42142.58689	0	0.00415498	1.64E-04	0	0.004319416
Los Angele	2021 Annual	T6 instate heavy	DSL	2016 AllSpeeds	1218.867965	64513.70269	0	0.00609388	2.82E-04	0	0.006375907
Los Angele	2021 Annual	T6 instate heavy	DSL	2017 AllSpeeds	567.317426	45276.7995	0	0.00407903	1.31E-04	0	0.004210299
Los Angele	2021 Annual	T6 instate heavy	DSL	2018 AllSpeeds	582.0164058	48110.76159	0	0.004114097	1.35E-04	0	0.004248766
Los Angele	2021 Annual	T6 instate heavy	DSL	2019 AllSpeeds	610.8403124	51451.1838	0	0.004155771	1.41E-04	0	0.004297109
Los Angele	2021 Annual	T6 instate heavy	DSL	2020 AllSpeeds	661.5315468	55487.78397	0	0.004213757	1.53E-04	0	0.004366825
Los Angele	2021 Annual	T6 instate heavy	DSL	2021 AllSpeeds	583.0926195	48914.3133	0	0.003479285	1.35E-04	0	0.003614204
Los Angele	2021 Annual	T6 instate heavy	DSL	2022 AllSpeeds	143.8552483	5033.427711	0	3.34E-04	3.33E-05	0	3.67E-04
Los Angele	2021 Annual	LDA/LDT1	GAS&DSL >2007	AllSpeeds	3317409.56	116590175.1	21256460.97	1.249225258	0	1.059375688	2.308600946
Los Angele	2021 Annual	T6 instate heavy	DSL >2007	AllSpeeds	9761.004681	578684.5686	0	0.064639164	0.002258543	0	0.066897707

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Area	CalYr	Season	Veh	Fuel	MdlYr	Speed (Miles/hr)	Pop (Vehicles)	VMT (Miles/day)	Trips (Trips/day)	ROG_RUNEX (Tons/day)	ROG_IDLEX (Tons/day)	ROG_STREX (Tons/day)	ROG_TOTEX (Tons/day)
Los Angele	2022 Annual	LDA	GAS	2007 AllSpeeds			114889.8	2870239.439	698460	0.040923732	0	0.046398204	0.087321936
Los Angele	2022 Annual	LDA	DSL	2007 AllSpeeds			0	0	0	0	0	0	0
Los Angele	2022 Annual	LDA	GAS	2008 AllSpeeds			128609.2	3294534.261	788295.5	0.043611691	0	0.046775736	0.090387427
Los Angele	2022 Annual	LDA	DSL	2008 AllSpeeds			18.52156	474.4651941	113.5258	4.54E-06	0	0	4.54E-06
Los Angele	2022 Annual	LDA	GAS	2009 AllSpeeds			119837.4	3150682.716	739322.8	0.04243617	0	0.044491742	0.086927912
Los Angele	2022 Annual	LDA	DSL	2009 AllSpeeds			627.725	16503.73979	3872.677	1.54E-04	0	0	1.54E-04
Los Angele	2022 Annual	LDA	GAS	2010 AllSpeeds			163043.9	4404590.784	1014031	0.059403478	0	0.060578074	0.119981552
Los Angele	2022 Annual	LDA	DSL	2010 AllSpeeds			1146.319	30967.58157	7129.39	2.82E-04	0	0	2.82E-04
Los Angele	2022 Annual	LDA	GAS	2011 AllSpeeds			171524.7	4768159.647	1073637	0.06328896	0	0.063206114	0.126495074
Los Angele	2022 Annual	LDA	DSL	2011 AllSpeeds			1071.077	29774.56318	6704.269	2.63E-04	0	0	2.63E-04
Los Angele	2022 Annual	LDA	GAS	2012 AllSpeeds			187815.9	5380728.499	1185000	0.070203947	0	0.068642065	0.138846012

Los Angele	2021 Annual	LDT1	0.001834228	0.00480981	0.022152593	0.002003621	0.04411736	0.013516247	0	0.006464559	0.019980806
Los Angele	2021 Annual	LDT1	0	0	0	0	1.25E-05	1.43E-05	0	0	1.43E-05
Los Angele	2021 Annual	LDT1	0.001569295	0.003879139	0.019093277	0.001649043	0.039501477	0.013633463	0	0.006390499	0.020023962
Los Angele	2021 Annual	LDT1	0	0	0	0	1.18E-05	1.35E-05	0	0	1.35E-05
Los Angele	2021 Annual	LDT1	0.001299359	0.002882854	0.014885461	0.001297875	0.034113505	0.014233899	0	0.006512871	0.020746769
Los Angele	2021 Annual	LDT1	0	0	0	0	1.18E-05	1.34E-05	0	0	1.34E-05
Los Angele	2021 Annual	LDT1	0.001084706	0.00213923	0.013266097	0.001004069	0.030871335	0.013966282	0	0.006270579	0.020236861
Los Angele	2021 Annual	LDT1	0	0	0	0	1.42E-05	1.61E-05	0	0	1.61E-05
Los Angele	2021 Annual	LDT1	9.47E-04	0.001629809	0.012064218	8.08E-04	0.028033578	0.013168662	0	0.005881266	0.019049929
Los Angele	2021 Annual	LDT1	0	0	0	0	9.48E-06	1.08E-05	0	0	1.08E-05
Los Angele	2021 Annual	LDT1	8.27E-04	0.001219884	0.010987454	6.49E-04	0.025772023	0.012840077	0	0.005540586	0.018380662
Los Angele	2021 Annual	LDT1	0	0	0	0	9.62E-06	1.10E-05	0	0	1.10E-05
Los Angele	2021 Annual	LDT1	7.58E-04	9.71E-04	0.010119009	5.53E-04	0.024208368	0.012833692	0	0.005244029	0.018077721
Los Angele	2021 Annual	LDT1	0	0	0	0	1.06E-05	1.21E-05	0	0	1.21E-05
Los Angele	2021 Annual	LDT1	7.29E-04	8.22E-04	0.009581134	5.01E-04	0.02343591	0.013229491	0	0.005012246	0.018241736
Los Angele	2021 Annual	LDT1	0	0	0	0	8.70E-06	9.90E-06	0	0	9.90E-06
Los Angele	2021 Annual	LDT1	7.24E-04	7.33E-04	0.009296397	4.75E-04	0.023134289	0.01397233	0	0.004696584	0.018668914
Los Angele	2021 Annual	LDT1	0	0	0	0	6.49E-06	7.39E-06	0	0	7.39E-06
Los Angele	2021 Annual	T6 instate heavy	0	0	0	0	0.008733513	0.009733044	2.09E-04	0	0.009942439
Los Angele	2021 Annual	T6 instate heavy	0	0	0	0	0.004330951	0.004831048	9.94E-05	0	0.004930458
Los Angele	2021 Annual	T6 instate heavy	0	0	0	0	0.002681471	0.002995223	5.74E-05	0	0.003052651
Los Angele	2021 Annual	T6 instate heavy	0	0	0	0	0.003345776	0.003665359	1.44E-04	0	0.003808911
Los Angele	2021 Annual	T6 instate heavy	0	0	0	0	0.003166822	0.003493073	1.12E-04	0	0.003605185
Los Angele	2021 Annual	T6 instate heavy	0	0	0	0	0.00319917	0.003539353	1.03E-04	0	0.003642011
Los Angele	2021 Annual	T6 instate heavy	0	0	0	0	0.003284079	0.003577447	1.61E-04	0	0.003738675
Los Angele	2021 Annual	T6 instate heavy	0	0	0	0	0.006356297	0.006888425	3.48E-04	0	0.00723616
Los Angele	2021 Annual	T6 instate heavy	0	0	0	0	0.004319416	0.004730129	1.87E-04	0	0.004917326
Los Angele	2021 Annual	T6 instate heavy	0	0	0	0	0.006375907	0.006937419	3.21E-04	0	0.007258485
Los Angele	2021 Annual	T6 instate heavy	0	0	0	0	0.004210299	0.004643665	1.49E-04	0	0.004793104
Los Angele	2021 Annual	T6 instate heavy	0	0	0	0	0.004248766	0.004683586	1.53E-04	0	0.004836897
Los Angele	2021 Annual	T6 instate heavy	0	0	0	0	0.004297109	0.004731028	1.61E-04	0	0.004891932
Los Angele	2021 Annual	T6 instate heavy	0	0	0	0	0.004366825	0.004797042	1.74E-04	0	0.004971298
Los Angele	2021 Annual	T6 instate heavy	0	0	0	0	0.003614204	0.003960901	1.54E-04	0	0.004114496
Los Angele	2021 Annual	T6 instate heavy	0	0	0	0	3.67E-04	3.80E-04	3.79E-05	0	4.18E-04
Los Angele	2021 Annual	LDA/LDT1	0.258467148	0.802700754	3.312880528	0.278927238	6.961576614	2.323011883	0	1.131086533	3.454098416
Los Angele	2021 Annual	T6 instate heavy	0	0	0	0	0.066897707	0.073586768	0.00257118	0	0.076157947

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Area	CalYr	Season	Veh	ROG_DIURN (Tons/day)	ROG_HTSK (Tons/day)	ROG_RUNLS (Tons/day)	ROG_RESTL (Tons/day)	ROG_TOTAL (Tons/day)	TOG_RUNEX (Tons/day)	TOG_IDLEX (Tons/day)	TOG_STREX (Tons/day)	TOG_TOTEX (Tons/day)
Los Angele	2022 Annual	LDA		0.024524644	0.094212212	0.205863	0.030482929	0.442404721	0.076164241	0	0.049538966	0.125703207
Los Angele	2022 Annual	LDA		0	0	0	0	0	0	0	0	0
Los Angele	2022 Annual	LDA		0.024505224	0.093619891	0.2167285	0.030171834	0.455412876	0.081166877	0	0.049942065	0.131108942
Los Angele	2022 Annual	LDA		0	0	0	0	4.54E-06	5.16E-06	0	0	5.16E-06
Los Angele	2022 Annual	LDA		0.020111255	0.076012231	0.1889182	0.024469448	0.396439046	0.078979082	0	0.04750346	0.126482542
Los Angele	2022 Annual	LDA		0	0	0	0	1.54E-04	1.75E-04	0	0	1.75E-04
Los Angele	2022 Annual	LDA		0.024019187	0.089672938	0.2407099	0.028819712	0.503203289	0.110557395	0	0.064678691	0.175236086
Los Angele	2022 Annual	LDA		0	0	0	0	2.82E-04	3.21E-04	0	0	3.21E-04
Los Angele	2022 Annual	LDA		0.021979848	0.080521815	0.2363875	0.025922801	0.491307038	0.117788769	0	0.06748464	0.185273409
Los Angele	2022 Annual	LDA		0	0	0	0	2.63E-04	3.00E-04	0	0	3.00E-04
Los Angele	2022 Annual	LDA		0.020499999	0.073189966	0.240687	0.023633972	0.496856949	0.130658429	0	0.073288552	0.203946981

Los Angele	2021 Annual	LDT1	0.001834228	0.00480981	0.022152593	0.002003621	0.050781059	0.42442403	0	0.1078069	0.53223093
Los Angele	2021 Annual	LDT1	0	0	0	0	1.43E-05	1.17E-04	0	0	1.17E-04
Los Angele	2021 Annual	LDT1	0.001569295	0.003879139	0.019093277	0.001649043	0.046214716	0.427100787	0	0.1055705	0.532671287
Los Angele	2021 Annual	LDT1	0	0	0	0	1.35E-05	1.10E-04	0	0	1.10E-04
Los Angele	2021 Annual	LDT1	0.001299359	0.002882854	0.014885461	0.001297875	0.041112318	0.442094284	0	0.1057384	0.547832684
Los Angele	2021 Annual	LDT1	0	0	0	0	1.34E-05	1.10E-04	0	0	1.10E-04
Los Angele	2021 Annual	LDT1	0.001084706	0.00213923	0.013266097	0.001004069	0.037730962	0.428224277	0	0.098417804	0.526642081
Los Angele	2021 Annual	LDT1	0	0	0	0	1.61E-05	1.31E-04	0	0	1.31E-04
Los Angele	2021 Annual	LDT1	9.47E-04	0.001629809	0.012064218	8.08E-04	0.034499471	0.400574957	0	0.086605996	0.487180953
Los Angele	2021 Annual	LDT1	0	0	0	0	1.08E-05	8.78E-05	0	0	8.78E-05
Los Angele	2021 Annual	LDT1	8.27E-04	0.001219884	0.010987454	6.49E-04	0.032064284	0.384065162	0	0.078044698	0.46210986
Los Angele	2021 Annual	LDT1	0	0	0	0	1.10E-05	8.89E-05	0	0	8.89E-05
Los Angele	2021 Annual	LDT1	7.58E-04	9.71E-04	0.010119009	5.53E-04	0.030478874	0.378680947	0	0.072268061	0.450949008
Los Angele	2021 Annual	LDT1	0	0	0	0	1.21E-05	9.75E-05	0	0	9.75E-05
Los Angele	2021 Annual	LDT1	7.29E-04	8.22E-04	0.009581134	5.01E-04	0.029874854	0.390673495	0	0.069192939	0.459866434
Los Angele	2021 Annual	LDT1	0	0	0	0	9.90E-06	7.98E-05	0	0	7.98E-05
Los Angele	2021 Annual	LDT1	7.24E-04	7.33E-04	0.009296397	4.75E-04	0.029896924	0.425646322	0	0.067786001	0.493432323
Los Angele	2021 Annual	LDT1	0	0	0	0	7.39E-06	5.93E-05	0	0	5.93E-05
Los Angele	2021 Annual	T6 instate heavy	0	0	0	0	0.009942439	0.035976024	0.00217504	0	0.038151064
Los Angele	2021 Annual	T6 instate heavy	0	0	0	0	0.004930458	0.017856892	0.001032586	0	0.018889478
Los Angele	2021 Annual	T6 instate heavy	0	0	0	0	0.003052651	0.011071172	5.97E-04	0	0.011667694
Los Angele	2021 Annual	T6 instate heavy	0	0	0	0	0.003808911	0.013548181	0.001491106	0	0.015039287
Los Angele	2021 Annual	T6 instate heavy	0	0	0	0	0.003605185	0.012911366	0.00116453	0	0.014075897
Los Angele	2021 Annual	T6 instate heavy	0	0	0	0	0.003642011	0.013082428	0.001066336	0	0.014148764
Los Angele	2021 Annual	T6 instate heavy	0	0	0	0	0.003738675	0.013223234	0.001674708	0	0.014897942
Los Angele	2021 Annual	T6 instate heavy	0	0	0	0	0.00723616	0.025461525	0.003612007	0	0.029073531
Los Angele	2021 Annual	T6 instate heavy	0	0	0	0	0.004917326	0.017483866	0.001944461	0	0.019428327
Los Angele	2021 Annual	T6 instate heavy	0	0	0	0	0.007258485	0.02564262	0.003334987	0	0.028977606
Los Angele	2021 Annual	T6 instate heavy	0	0	0	0	0.004793104	0.017164273	0.001552257	0	0.01871653
Los Angele	2021 Annual	T6 instate heavy	0	0	0	0	0.004836897	0.017311831	0.001592475	0	0.018904306
Los Angele	2021 Annual	T6 instate heavy	0	0	0	0	0.004891932	0.017487191	0.001671341	0	0.019158532
Los Angele	2021 Annual	T6 instate heavy	0	0	0	0	0.004971298	0.017731194	0.001810039	0	0.019541233
Los Angele	2021 Annual	T6 instate heavy	0	0	0	0	0.004114496	0.014640588	0.00159542	0	0.016236008
Los Angele	2021 Annual	T6 instate heavy	0	0	0	0	4.18E-04	0.001404681	3.94E-04	0	0.001798289
Los Angele	2021 Annual	LDA/LDT1	0.258467148	0.802700754	3.312880528	0.278927238	8.107074084	71.80578625	0	17.98052155	89.78630781
Los Angele	2021 Annual	T6 instate heavy	0	0	0	0	0.076157947	0.271997064	0.026707422	0	0.298704487

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Area	CalYr	Season	Veh	TOG_DIURN (Tons/day)	TOG_HTSK (Tons/day)	TOG_RUNLS (Tons/day)	TOG_RESTL (Tons/day)	TOG_TOTAL (Tons/day)	CO_RUNEX (Tons/day)	CO_IDLEX (Tons/day)	CO_STREX (Tons/day)	CO_TOTEX (Tons/day)
Los Angele	2022 Annual	LDA		0.024524644	0.094212212	0.205863	0.030482929	0.480785992	2.541074389	0	0.8859234	3.426997789
Los Angele	2022 Annual	LDA		0	0	0	0	0	0	0	0	0
Los Angele	2022 Annual	LDA		0.024505224	0.093619891	0.2167285	0.030171834	0.496134391	2.673067047	0	0.8916034	3.564670447
Los Angele	2022 Annual	LDA		0	0	0	0	5.16E-06	4.26E-05	0	0	4.26E-05
Los Angele	2022 Annual	LDA		0.020111255	0.076012231	0.1889182	0.024469448	0.435993676	2.528638014	0	0.8193262	3.347964214
Los Angele	2022 Annual	LDA		0	0	0	0	1.75E-04	0.001447658	0	0	0.001447658
Los Angele	2022 Annual	LDA		0.024019187	0.089672938	0.2407099	0.028819712	0.558457823	3.446112081	0	1.081244	4.527356081
Los Angele	2022 Annual	LDA		0	0	0	0	3.21E-04	0.002646174	0	0	0.002646174
Los Angele	2022 Annual	LDA		0.021979848	0.080521815	0.2363875	0.025922801	0.550085373	3.681031557	0	1.127411	4.808442557
Los Angele	2022 Annual	LDA		0	0	0	0	3.00E-04	0.002471178	0	0	0.002471178
Los Angele	2022 Annual	LDA		0.020499999	0.073189966	0.240687	0.023633972	0.561957918	4.086209243	0	1.220972	5.307181243

Los Angele	2021 Annual	LDT1	0.037732527	0	0.006691238	0.044423765	272.7626587	0	10.26118	283.0238387	178.714094
Los Angele	2021 Annual	LDT1	3.89E-04	0	0	3.89E-04	0.459156498	0	0	0.459156498	0.300839337
Los Angele	2021 Annual	LDT1	0.038478529	0	0.00662001	0.045098539	283.3606741	0	10.43879	293.7994641	181.57752
Los Angele	2021 Annual	LDT1	3.68E-04	0	0	3.68E-04	0.452677606	0	0	0.452677606	0.29007581
Los Angele	2021 Annual	LDT1	0.040141898	0	0.006636242	0.04677814	305.9174651	0	10.99109	316.9085551	188.0474658
Los Angele	2021 Annual	LDT1	3.69E-04	0	0	3.69E-04	0.47414973	0	0	0.47414973	0.291459839
Los Angele	2021 Annual	LDT1	0.038868541	0	0.006092049	0.044960591	317.6079743	0	11.10757	328.7155443	187.8015952
Los Angele	2021 Annual	LDT1	4.44E-04	0	0	4.44E-04	0.601395224	0	0	0.601395224	0.355604996
Los Angele	2021 Annual	LDT1	0.03892392	0	0.005729793	0.044653713	335.7223523	0	11.36089	347.0832423	198.5126269
Los Angele	2021 Annual	LDT1	2.99E-04	0	0	2.99E-04	0.428558011	0	0	0.428558011	0.253406352
Los Angele	2021 Annual	LDT1	0.037801515	0	0.005097987	0.042899503	351.8778263	0	11.43129	363.3091163	208.0653587
Los Angele	2021 Annual	LDT1	3.06E-04	0	0	3.06E-04	0.465892864	0	0	0.465892864	0.275482451
Los Angele	2021 Annual	LDT1	0.037324915	0	0.00454843	0.041873345	371.869899	0	11.50144	383.371339	219.98866713
Los Angele	2021 Annual	LDT1	3.39E-04	0	0	3.39E-04	0.555235104	0	0	0.555235104	0.328310517
Los Angele	2021 Annual	LDT1	0.038191019	0	0.004082892	0.042273911	409.2228539	0	11.84774	421.0705939	241.9734735
Los Angele	2021 Annual	LDT1	2.81E-04	0	0	2.81E-04	0.49957502	0	0	0.49957502	0.295398709
Los Angele	2021 Annual	LDT1	0.040798858	0	0.003611929	0.044410787	474.0149202	0	12.35978	486.3747002	280.2850223
Los Angele	2021 Annual	LDT1	2.12E-04	0	0	2.12E-04	0.415491682	0	0	0.415491682	0.245680231
Los Angele	2021 Annual	T6 instate heavy	0.183686926	0.003286039	0	0.186972964	42.29847263	0.653505802	0	42.95197843	38.06862537
Los Angele	2021 Annual	T6 instate heavy	0.086745193	0.001560026	0	0.088305219	21.61400444	0.310247666	0	21.9242521	19.45260399
Los Angele	2021 Annual	T6 instate heavy	0.048904549	9.01E-04	0	0.049805772	13.85177028	0.179229133	0	14.03099942	12.46659325
Los Angele	2021 Annual	T6 instate heavy	0.045309316	0.002252755	0	0.047562071	27.92396388	0.448013115	0	28.371977	25.1315675
Los Angele	2021 Annual	T6 instate heavy	0.040299361	0.001759366	0	0.042058728	27.51597777	0.349891145	0	27.86586892	24.76438
Los Angele	2021 Annual	T6 instate heavy	0.036520055	0.001611015	0	0.03813107	28.92643957	0.320388085	0	29.24682765	26.03379561
Los Angele	2021 Annual	T6 instate heavy	0.037476958	0.00253014	0	0.040007097	36.49268392	0.50317753	0	36.99586145	32.84341553
Los Angele	2021 Annual	T6 instate heavy	0.070821563	0.005457001	0	0.076278563	72.78011066	1.085252375	0	73.86536303	65.50209959
Los Angele	2021 Annual	T6 instate heavy	0.047577717	0.002937682	0	0.050515398	51.95160627	0.584226796	0	52.53583307	46.75644565
Los Angele	2021 Annual	T6 instate heavy	0.067999995	0.005038481	0	0.073038475	79.52977567	1.00201986	0	80.53179553	71.5767981
Los Angele	2021 Annual	T6 instate heavy	0.044139711	0.002345141	0	0.046484852	55.81533158	0.466386306	0	56.28171788	50.23379842
Los Angele	2021 Annual	T6 instate heavy	0.042911087	0.002405903	0	0.04531699	59.30892069	0.478470199	0	59.78739089	53.37802862
Los Angele	2021 Annual	T6 instate heavy	0.041469064	0.002525054	0	0.043994117	63.4268525	0.502166601	0	63.92901856	57.08416725
Los Angele	2021 Annual	T6 instate heavy	0.039864737	0.002734598	0	0.042599335	68.4030032	0.543838847	0	68.94684204	61.56270288
Los Angele	2021 Annual	T6 instate heavy	0.030878238	0.002410352	0	0.03328859	60.29950539	0.479354944	0	60.77886033	54.26955485
Los Angele	2021 Annual	T6 instate heavy	0.0027387	5.95E-04	0	0.00333336	6.204997697	0.118262043	0	6.32325974	5.584497927
Los Angele	2021 Annual	LDA/LDT1	6.590648977	0	1.079616952	7.670265929	48329.898	0	1756.645344	50086.54335	31856.40032
Los Angele	2021 Annual	T6 instate heavy	0.867343169	0.040349434	0	0.907692602	716.3434161	8.024429907	0	724.367846	644.7090745

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Los Angeles COUNTY

South Coast AIR BASIN

South Coast AQMD

Area	CalYr	Season	Veh	NOX_RUNEX (Tons/day)	NOX_IDLEX (Tons/day)	NOX_STREX (Tons/day)	NOX_TOTEX (Tons/day)	CO2_RUNEX (Tons/day)	CO2_IDLEX (Tons/day)	CO2_STREX (Tons/day)	CO2_TOTEX (Tons/day)	CO2_RUNEX(Pavh) (Tons/day)
Los Angele	2022 Annual	LDA		0.183837416	0	0.041936968	0.225774384	1171.205714	0	57.07721	1228.282924	1054.085142
Los Angele	2022 Annual	LDA		0	0	0	0	0	0	0	0	0
Los Angele	2022 Annual	LDA		0.205343383	0	0.045513742	0.250857125	1344.678337	0	64.43475	1409.113087	1210.210503
Los Angele	2022 Annual	LDA		1.37E-04	0	0	1.37E-04	0.166109125	0	0	0.166109125	0.149498212
Los Angele	2022 Annual	LDA		0.205329598	0	0.045469113	0.250798711	1288.686622	0	60.56023	1349.246852	1159.81796
Los Angele	2022 Annual	LDA		0.004680149	0	0	0.004680149	5.777920777	0	0	5.777920777	5.200128699
Los Angele	2022 Annual	LDA		0.296172002	0	0.065171242	0.361343244	1801.454105	0	83.05767	1884.511775	1564.56289
Los Angele	2022 Annual	LDA		0.008573803	0	0	0.008573803	10.8416772	0	0	10.8416772	9.415996644
Los Angele	2022 Annual	LDA		0.318897837	0	0.068439513	0.38733735	1950.177902	0	87.94105	2038.118952	1502.417056
Los Angele	2022 Annual	LDA		0.008027054	0	0	0.008027054	10.42400325	0	0	10.42400325	8.030652104
Los Angele	2022 Annual	LDA		0.357384127	0	0.074746929	0.432131056	2200.621298	0	97.05843	2297.679728	1479.477699

Los Angele	2021 Annual	LDT1	0	6.723125136	185.4372191	7.25E-04	0	2.65E-04	9.90E-04	0.005056763	0.023229506
Los Angele	2021 Annual	LDT1	0	0	0.300839337	6.43E-06	0	0	6.43E-06	1.16E-05	5.31E-05
Los Angele	2021 Annual	LDT1	0	6.689176632	188.2666966	0.001004167	0	3.81E-04	0.001385006	0.005251877	0.024125811
Los Angele	2021 Annual	LDT1	0	0	0.29007581	6.09E-06	0	0	6.09E-06	1.14E-05	5.24E-05
Los Angele	2021 Annual	LDT1	0	6.756223023	194.8036888	0.001354718	0	5.16E-04	0.001871144	0.005669063	0.02604226
Los Angele	2021 Annual	LDT1	0	0	0.291459839	6.10E-06	0	0	6.10E-06	1.19E-05	5.49E-05
Los Angele	2021 Annual	LDT1	0	6.567906141	194.3695013	0.001616972	0	6.09E-04	0.002225981	0.005884246	0.027030753
Los Angele	2021 Annual	LDT1	0	0	0.355604996	7.35E-06	0	0	7.35E-06	1.51E-05	6.96E-05
Los Angele	2021 Annual	LDT1	0	6.717694257	205.2303212	0.001857257	0	6.81E-04	0.002538245	0.00621798	0.02856385
Los Angele	2021 Annual	LDT1	0	0	0.253406352	4.95E-06	0	0	4.95E-06	1.08E-05	4.96E-05
Los Angele	2021 Annual	LDT1	0	6.759321777	214.8246805	0.002023883	0	7.15E-04	0.002738553	0.00651613	0.029933479
Los Angele	2021 Annual	LDT1	0	0	0.275482451	5.06E-06	0	0	5.06E-06	1.17E-05	5.39E-05
Los Angele	2021 Annual	LDT1	0	6.800801472	226.6874728	0.002138224	0	7.21E-04	0.002859346	0.006884079	0.031623743
Los Angele	2021 Annual	LDT1	0	0	0.328310517	5.62E-06	0	0	5.62E-06	1.40E-05	6.42E-05
Los Angele	2021 Annual	LDT1	0	7.005568662	248.9790422	0.002352289	0	7.43E-04	0.003095123	0.007573729	0.034791823
Los Angele	2021 Annual	LDT1	0	0	0.295398709	4.66E-06	0	0	4.66E-06	1.26E-05	5.78E-05
Los Angele	2021 Annual	LDT1	0	7.308337914	287.5933602	0.002723901	0	7.75E-04	0.00349884	0.008769798	0.040286269
Los Angele	2021 Annual	LDT1	0	0	0.245680231	3.52E-06	0	0	3.52E-06	1.05E-05	4.81E-05
Los Angele	2021 Annual	T6 instate heavy	0.588155221	0	38.65678059	0.002518229	7.72E-06	0	0.002525952	4.38E-04	0.004754112
Los Angele	2021 Annual	T6 instate heavy	0.279222899	0	19.73182689	0.001251095	3.67E-06	0	0.001254762	2.24E-04	0.002429293
Los Angele	2021 Annual	T6 instate heavy	0.16130622	0	12.62789947	7.77E-04	2.12E-06	0	7.79E-04	1.43E-04	0.001556862
Los Angele	2021 Annual	T6 instate heavy	0.403211803	0	25.5347793	0.001562557	5.29E-06	0	0.001567852	2.99E-04	0.003246987
Los Angele	2021 Annual	T6 instate heavy	0.31490203	0	25.07928203	0.001479772	4.14E-06	0	0.001483907	2.95E-04	0.003199547
Los Angele	2021 Annual	T6 instate heavy	0.288349276	0	26.32214489	0.001488578	3.79E-06	0	0.001492365	3.10E-04	0.003363555
Los Angele	2021 Annual	T6 instate heavy	0.452859777	0	33.2962753	0.001450964	5.95E-06	0	0.00145691	3.92E-04	0.004253143
Los Angele	2021 Annual	T6 instate heavy	0.976727138	0	66.47882673	0.002765307	1.28E-05	0	0.002778132	7.81E-04	0.008482364
Los Angele	2021 Annual	T6 instate heavy	0.525804116	0	47.28224976	0.00187644	6.90E-06	0	0.001883344	5.57E-04	0.006054847
Los Angele	2021 Annual	T6 instate heavy	0.901817874	0	72.47861597	0.002714186	1.18E-05	0	0.002726028	8.53E-04	0.009269023
Los Angele	2021 Annual	T6 instate heavy	0.419747676	0	50.65354609	0.001787465	5.51E-06	0	0.001792977	5.99E-04	0.006505156
Los Angele	2021 Annual	T6 instate heavy	0.430623179	0	53.8086518	0.001768599	5.65E-06	0	0.001774253	6.36E-04	0.006912326
Los Angele	2021 Annual	T6 instate heavy	0.451949455	0	57.53611671	0.001746563	5.93E-06	0	0.001752497	6.81E-04	0.007392262
Los Angele	2021 Annual	T6 instate heavy	0.489454962	0	62.05215784	0.001724462	6.43E-06	0	0.001730889	7.34E-04	0.007972222
Los Angele	2021 Annual	T6 instate heavy	0.43141945	0	54.7009743	0.001380499	5.67E-06	0	0.001386164	6.47E-04	0.007027776
Los Angele	2021 Annual	T6 instate heavy	0.106435839	0	5.690933766	1.28E-04	1.40E-06	0	1.29E-04	6.66E-05	7.23E-04
Los Angele	2021 Annual	LDA/LDT1	0	1184.217331	33040.61765	0.226780294	0	0.078279706	0.30506	1.028149416	4.723061737
Los Angele	2021 Annual	T6 instate heavy	7.221986916	0	651.9310614	0.026418916	9.48345E-05	0	0.026513751	0.007654687	0.083142654

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Area	CalYr	Season	Veh	CO2_IDLEX(Pavle) (Tons/day)	CO2_STREX(Pavk) (Tons/day)	CO2_TOTEX(Pavl) (Tons/day)	PM10_RUNEX (Tons/day)	PM10_IDLEX (Tons/day)	PM10_STREX (Tons/day)	PM10_TOTEX (Tons/day)	PM10_PMTW (Tons/day)	PM10_PMBW (Tons/day)
Los Angele	2022 Annual	LDA		0	51.369489	1105.454631	9.06E-04	0	1.38E-04	0.001043607	0.025311181	0.1162732
Los Angele	2022 Annual	LDA		0	0	0	0	0	0	0	0	0
Los Angele	2022 Annual	LDA		0	57.991275	1268.201778	0.001040021	0	2.02E-04	0.001242188	0.029052816	0.1334614
Los Angele	2022 Annual	LDA		0	0	0.149498212	2.72E-06	0	0	2.72E-06	4.18E-06	1.92E-05
Los Angele	2022 Annual	LDA		0	54.504207	1214.322167	0.001328954	0	3.00E-04	0.001629073	0.027784269	0.127634
Los Angele	2022 Annual	LDA		0	0	5.200128699	9.27E-05	0	0	9.27E-05	1.46E-04	6.69E-04
Los Angele	2022 Annual	LDA		0	72.1355864	1636.698476	0.001857744	0	5.08E-04	0.002365574	0.03884184	0.1784298
Los Angele	2022 Annual	LDA		0	0	9.415996644	1.70E-04	0	0	1.70E-04	2.73E-04	0.001254495
Los Angele	2022 Annual	LDA		0	67.74978492	1570.166841	0.003016672	0	0.001001797	0.004018469	0.04204797	0.1931579
Los Angele	2022 Annual	LDA		0	0	8.030652104	1.59E-04	0	0	1.59E-04	2.63E-04	0.001206166
Los Angele	2022 Annual	LDA		0	65.25238249	1544.730081	0.004538768	0	0.001555419	0.006094187	0.047449905	0.2179731



Los Angele	2021 Annual	LDT1	0.02927605	6.73E-04	0	2.46E-04	9.18E-04	0.001264191	0.009955502	0.012138047	0.002729698
Los Angele	2021 Annual	LDT1	7.11E-05	5.92E-06	0	0	5.92E-06	2.89E-06	2.28E-05	3.16E-05	4.38E-06
Los Angele	2021 Annual	LDT1	0.030762694	9.32E-04	0	3.53E-04	0.001285057	0.001312969	0.010339633	0.012937659	0.00283553
Los Angele	2021 Annual	LDT1	6.99E-05	5.60E-06	0	0	5.60E-06	2.85E-06	2.24E-05	3.09E-05	4.32E-06
Los Angele	2021 Annual	LDT1	0.033582466	0.001256955	0	4.79E-04	0.001736113	0.001417266	0.011160966	0.014314344	0.003060939
Los Angele	2021 Annual	LDT1	7.29E-05	5.61E-06	0	0	5.61E-06	2.99E-06	2.35E-05	3.21E-05	4.53E-06
Los Angele	2021 Annual	LDT1	0.03514098	0.001500283	0	5.65E-04	0.002065343	0.001471062	0.011584608	0.015121012	0.003177406
Los Angele	2021 Annual	LDT1	9.21E-05	6.77E-06	0	0	6.77E-06	3.79E-06	2.98E-05	4.04E-05	5.74E-06
Los Angele	2021 Annual	LDT1	0.037320075	0.001273228	0	6.32E-04	0.002355073	0.001554495	0.012241649	0.016151217	0.003357763
Los Angele	2021 Annual	LDT1	6.53E-05	4.56E-06	0	0	4.56E-06	2.70E-06	2.13E-05	2.85E-05	4.09E-06
Los Angele	2021 Annual	LDT1	0.039188162	0.00187783	0	6.63E-04	0.002540926	0.001629033	0.012828632	0.01699859	0.003518754
Los Angele	2021 Annual	LDT1	7.07E-05	4.66E-06	0	0	4.66E-06	2.93E-06	2.31E-05	3.07E-05	4.45E-06
Los Angele	2021 Annual	LDT1	0.041367168	0.001983919	0	6.69E-04	0.002653001	0.00172102	0.013553031	0.017927052	0.003718226
Los Angele	2021 Annual	LDT1	8.38E-05	5.17E-06	0	0	5.17E-06	3.50E-06	2.75E-05	3.62E-05	5.30E-06
Los Angele	2021 Annual	LDT1	0.045460675	0.002182536	0	6.89E-04	0.002871764	0.001893432	0.014910778	0.019675974	0.004091274
Los Angele	2021 Annual	LDT1	7.50E-05	4.29E-06	0	0	4.29E-06	3.15E-06	2.48E-05	3.22E-05	4.77E-06
Los Angele	2021 Annual	LDT1	0.052554907	0.002527331	0	7.19E-04	0.003246346	0.00219245	0.017265541	0.022704337	0.004738582
Los Angele	2021 Annual	LDT1	6.21E-05	3.24E-06	0	0	3.24E-06	2.62E-06	2.06E-05	2.65E-05	3.97E-06
Los Angele	2021 Annual	T6 instate heavy	0.007717761	0.002316771	7.11E-06	0	0.002323876	1.09E-04	0.002037477	0.004470777	4.04E-04
Los Angele	2021 Annual	T6 instate heavy	0.003907713	0.001151008	3.37E-06	0	0.001154381	5.59E-05	0.001041126	0.002251421	2.06E-04
Los Angele	2021 Annual	T6 instate heavy	0.002478832	7.14E-04	1.95E-06	0	7.16E-04	3.58E-05	6.67E-04	0.001419404	1.32E-04
Los Angele	2021 Annual	T6 instate heavy	0.005113779	0.001437553	4.87E-06	0	0.001442424	7.47E-05	0.001391566	0.002908725	2.66E-04
Los Angele	2021 Annual	T6 instate heavy	0.004978026	0.00136139	3.80E-06	0	0.001365194	7.36E-05	0.001371234	0.002810072	2.63E-04
Los Angele	2021 Annual	T6 instate heavy	0.005165591	0.001369492	3.48E-06	0	0.001372976	7.74E-05	0.001441523	0.002891917	2.76E-04
Los Angele	2021 Annual	T6 instate heavy	0.006101627	0.001334886	5.47E-06	0	0.001340357	9.79E-05	0.001822776	0.003261026	3.48E-04
Los Angele	2021 Annual	T6 instate heavy	0.012041441	0.002544082	1.18E-05	0	0.002555882	1.95E-04	0.003635299	0.006386417	6.94E-04
Los Angele	2021 Annual	T6 instate heavy	0.008495642	0.001726325	6.35E-06	0	0.001732677	1.39E-04	0.002594934	0.004666974	4.96E-04
Los Angele	2021 Annual	T6 instate heavy	0.012848421	0.002497051	1.09E-05	0	0.002507946	2.13E-04	0.003972438	0.006693727	7.59E-04
Los Angele	2021 Annual	T6 instate heavy	0.008897042	0.001644468	5.07E-06	0	0.001649539	1.50E-04	0.002787924	0.00458719	5.33E-04
Los Angele	2021 Annual	T6 instate heavy	0.009322976	0.001627111	5.20E-06	0	0.001632313	1.59E-04	0.002962425	0.004753838	5.66E-04
Los Angele	2021 Annual	T6 instate heavy	0.009825342	0.001606838	5.46E-06	0	0.001612297	1.70E-04	0.003168112	0.004950555	6.05E-04
Los Angele	2021 Annual	T6 instate heavy	0.010437088	0.001586505	5.91E-06	0	0.001592418	1.83E-04	0.003416666	0.005192579	6.53E-04
Los Angele	2021 Annual	T6 instate heavy	0.009060966	0.001270059	5.21E-06	0	0.001275271	1.62E-04	0.003011904	0.004448931	5.75E-04
Los Angele	2021 Annual	T6 instate heavy	9.19E-04	1.17E-04	1.29E-06	0	1.19E-04	1.66E-05	3.10E-04	4.45E-04	5.92E-05
Los Angele	2021 Annual	LDA/LDT1	6.056271153	0.210401769	0	0.072630648	0.283032417	0.25703735	2.024169308	2.564239075	0.483552783
Los Angele	2021 Annual	T6 instate heavy	0.117311091	0.024305403	8.72477E-05	0	0.024392651	0.001913672	0.035632566	0.061938888	0.006834251

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Area	CalYr	Season	Veh	PM10_TOTAL (Tons/day)	PM2_5_RUNEX (Tons/day)	PM2_5_IDLEX (Tons/day)	PM2_5_STREX (Tons/day)	PM2_5_TOTEX (Tons/day)	PM2_5_PMTW (Tons/day)	PM2_5_PMBW (Tons/day)	PM2_5_TOTAL (Tons/day)	SOX_RUNEX (Tons/day)
Los Angele	2022 Annual	LDA		0.142627988	8.40E-04	0	1.28E-04	9.68E-04	0.006327795	0.049831394	0.057127485	0.011732745
Los Angele	2022 Annual	LDA		0	0	0	0	0	0	0	0	0
Los Angele	2022 Annual	LDA		0.163756404	9.65E-04	0	1.88E-04	0.001152546	0.007263204	0.057197742	0.065613492	0.013466519
Los Angele	2022 Annual	LDA		2.61E-05	2.50E-06	0	0	2.50E-06	1.05E-06	8.24E-06	1.18E-05	1.59E-06
Los Angele	2022 Annual	LDA		0.157047342	0.00123305	0	2.78E-04	0.001511511	0.006946067	0.054700285	0.063157863	0.012905297
Los Angele	2022 Annual	LDA		9.07E-04	8.53E-05	0	0	8.53E-05	3.64E-05	2.87E-04	4.08E-04	5.52E-05
Los Angele	2022 Annual	LDA		0.219637214	0.00172368	0	4.71E-04	0.002194862	0.00971046	0.076469883	0.088375205	0.018038917
Los Angele	2022 Annual	LDA		0.001697407	1.56E-04	0	0	1.56E-04	6.83E-05	5.38E-04	7.62E-04	1.04E-04
Los Angele	2022 Annual	LDA		0.239224339	0.002798975	0	9.30E-04	0.003728477	0.010511992	0.082781956	0.097022425	0.019527338
Los Angele	2022 Annual	LDA		0.001627744	1.46E-04	0	0	1.46E-04	6.56E-05	5.17E-04	7.29E-04	9.95E-05
Los Angele	2022 Annual	LDA		0.271517192	0.004211227	0	0.001443172	0.005654399	0.011862476	0.093417019	0.110933894	0.02203393

Los Angele	2021 Annual	LDT1	0	1.04E-04	0.002834006	30.22879	0	1.54E-04	1.86E-03	1.55E-04	3.45E-06	9.87E-05	3.20E-06	3.91E-05	9.88E-06
Los Angele	2021 Annual	LDT1	0	0	4.38E-06	0	0.041324083	1.91E-05	1.78E-04	5.93E-04	9.81E-06	9.87E-05	9.02E-06	3.91E-05	6.68E-06
Los Angele	2021 Annual	LDT1	0	1.06E-04	0.002941574	31.37616	0	1.33E-04	1.79E-03	1.51E-04	4.65E-06	9.87E-05	4.32E-06	3.91E-05	9.88E-06
Los Angele	2021 Annual	LDT1	0	0	4.32E-06	0	0.040740985	1.83E-05	1.70E-04	5.70E-04	9.42E-06	9.87E-05	8.67E-06	3.91E-05	6.68E-06
Los Angele	2021 Annual	LDT1	0	1.12E-04	0.003172502	33.83934	0	1.06E-04	1.70E-03	1.46E-04	5.82E-06	9.87E-05	5.40E-06	3.91E-05	9.87E-06
Los Angele	2021 Annual	LDT1	0	0	4.53E-06	0	0.042673472	1.74E-05	1.62E-04	5.45E-04	9.01E-06	9.87E-05	8.29E-06	3.91E-05	6.68E-06
Los Angele	2021 Annual	LDT1	0	1.13E-04	0.003290009	35.09273	0	9.25E-05	1.58E-03	1.35E-04	6.67E-06	9.87E-05	6.19E-06	3.91E-05	9.86E-06
Los Angele	2021 Annual	LDT1	0	0	5.74E-06	0	0.054125577	1.65E-05	1.53E-04	5.17E-04	8.56E-06	9.87E-05	7.88E-06	3.91E-05	6.68E-06
Los Angele	2021 Annual	LDT1	0	1.15E-04	0.003472698	37.04137	0	7.95E-05	1.38E-03	1.27E-04	7.20E-06	9.87E-05	6.68E-06	3.91E-05	9.85E-06
Los Angele	2021 Annual	LDT1	0	0	4.09E-06	0	0.038570222	1.55E-05	1.43E-04	4.89E-04	8.09E-06	9.87E-05	7.45E-06	3.91E-05	6.68E-06
Los Angele	2021 Annual	LDT1	0	1.15E-04	0.003634248	38.76453	0	6.98E-05	1.25E-03	1.16E-04	7.41E-06	9.87E-05	6.88E-06	3.91E-05	9.84E-06
Los Angele	2021 Annual	LDT1	0	0	4.45E-06	0	0.041930355	1.45E-05	1.34E-04	4.59E-04	7.61E-06	9.87E-05	7.00E-06	3.91E-05	6.68E-06
Los Angele	2021 Annual	LDT1	0	1.16E-04	0.00383432	40.89859	0	6.20E-05	1.16E-03	1.07E-04	7.33E-06	9.87E-05	6.80E-06	3.91E-05	9.82E-06
Los Angele	2021 Annual	LDT1	0	0	5.30E-06	0	0.049971156	1.34E-05	1.23E-04	4.27E-04	7.08E-06	9.87E-05	6.52E-06	3.91E-05	6.68E-06
Los Angele	2021 Annual	LDT1	0	1.19E-04	0.00421077	44.91397	0	5.46E-05	1.07E-03	9.84E-05	7.21E-06	9.87E-05	6.69E-06	3.91E-05	9.81E-06
Los Angele	2021 Annual	LDT1	0	0	4.77E-06	0	0.044961758	1.22E-05	1.12E-04	3.94E-04	6.53E-06	9.87E-05	6.01E-06	3.91E-05	6.68E-06
Los Angele	2021 Annual	LDT1	0	1.25E-04	0.004863158	51.87264	0	4.65E-05	9.92E-04	8.93E-05	7.04E-06	9.87E-05	6.53E-06	3.91E-05	9.78E-06
Los Angele	2021 Annual	LDT1	0	0	3.97E-06	0	0.037394255	1.09E-05	9.99E-05	3.58E-04	5.94E-06	9.87E-05	5.46E-06	3.91E-05	6.68E-06
Los Angele	2021 Annual	T6 instate heavy	6.23E-06	0	4.10E-04	0	3.865678059	5.28E-04	2.31E-03	1.13E-02	1.53E-04	3.14E-04	1.40E-04	1.30E-04	2.48E-05
Los Angele	2021 Annual	T6 instate heavy	2.96E-06	0	2.09E-04	0	1.973182689	5.12E-04	2.23E-03	1.04E-02	1.48E-04	3.14E-04	1.37E-04	1.30E-04	2.47E-05
Los Angele	2021 Annual	T6 instate heavy	1.71E-06	0	1.34E-04	0	1.262789947	4.95E-04	2.15E-03	9.19E-03	1.44E-04	3.14E-04	1.32E-04	1.30E-04	2.47E-05
Los Angele	2021 Annual	T6 instate heavy	4.27E-06	0	2.71E-04	0	2.55347793	2.96E-04	1.33E-03	4.21E-03	1.39E-04	3.14E-04	1.28E-04	1.30E-04	2.40E-05
Los Angele	2021 Annual	T6 instate heavy	3.34E-06	0	2.66E-04	0	2.507928203	2.84E-04	1.26E-03	3.78E-03	1.33E-04	3.14E-04	1.23E-04	1.30E-04	2.39E-05
Los Angele	2021 Annual	T6 instate heavy	3.06E-06	0	2.79E-04	0	2.632214489	2.73E-04	1.21E-03	3.26E-03	1.27E-04	3.14E-04	1.17E-04	1.30E-04	2.38E-05
Los Angele	2021 Annual	T6 instate heavy	4.80E-06	0	3.53E-04	0	3.32962753	2.22E-04	1.01E-03	2.70E-03	9.84E-05	3.14E-04	9.06E-05	1.30E-04	2.38E-05
Los Angele	2021 Annual	T6 instate heavy	1.04E-05	0	7.05E-04	0	6.647882673	2.15E-04	9.85E-04	2.58E-03	9.41E-05	3.14E-04	8.66E-05	1.30E-04	2.39E-05
Los Angele	2021 Annual	T6 instate heavy	5.57E-06	0	5.01E-04	0	4.728224976	2.05E-04	9.22E-04	2.40E-03	8.94E-05	3.14E-04	8.22E-05	1.30E-04	2.38E-05
Los Angele	2021 Annual	T6 instate heavy	9.56E-06	0	7.68E-04	0	7.247861597	1.98E-04	8.98E-04	2.26E-03	8.45E-05	3.14E-04	7.77E-05	1.30E-04	2.38E-05
Los Angele	2021 Annual	T6 instate heavy	4.45E-06	0	5.37E-04	0	5.065354609	1.86E-04	8.27E-04	2.05E-03	7.92E-05	3.14E-04	7.29E-05	1.30E-04	2.37E-05
Los Angele	2021 Annual	T6 instate heavy	4.56E-06	0	5.70E-04	0	5.38086518	1.77E-04	7.86E-04	1.88E-03	7.38E-05	3.14E-04	6.79E-05	1.30E-04	2.37E-05
Los Angele	2021 Annual	T6 instate heavy	4.79E-06	0	6.10E-04	0	5.753611671	1.67E-04	7.45E-04	1.71E-03	6.81E-05	3.14E-04	6.27E-05	1.30E-04	2.37E-05
Los Angele	2021 Annual	T6 instate heavy	5.19E-06	0	6.58E-04	0	6.205215784	1.57E-04	7.04E-04	1.54E-03	6.24E-05	3.14E-04	5.74E-05	1.30E-04	2.37E-05
Los Angele	2021 Annual	T6 instate heavy	4.57E-06	0	5.80E-04	0	5.47009743	1.48E-04	6.64E-04	1.36E-03	5.67E-05	3.14E-04	5.21E-05	1.30E-04	2.37E-05
Los Angele	2021 Annual	T6 instate heavy	1.13E-06	0	6.03E-05	0	0.569093377	1.46E-04	7.15E-04	1.32E-03	5.13E-05	3.14E-04	4.72E-05	1.30E-04	2.40E-05
Los Angele	2021 Annual	LDA/LDT1	0	0.017850109	0.501402892	5334.76232	11.86811551	1.19E-04	1.54E-03	1.32E-04	5.23E-06	9.87E-05	4.86E-06	3.91E-05	8.60E-06
Los Angele	2021 Annual	T6 instate heavy	7.65568E-05	0	0.006910808	0	65.19310614	2.31E-04	1.03E-03	3.14E-03	9.16E-05	3.14E-04	8.43E-05	1.30E-04	2.39E-05

EMFAC 2011

2022 Estimated Annual Emissions

EMFAC 2011 Vehicle Categories

Los Angeles COUNTY

South Coast AIR BASIN

South Coast AQMD

Area	CalYr	Season	Veh	SOX_IDLEX (Tons/day)	SOX_STREX (Tons/day)	SOX_TOTEX (Tons/day)	FUEL_GAS (1000 Gallons)	FUEL_DSL (1000 Gallons)	exhaust ROG lb/mile	exhaust CO lb/mile	exhaust NOx lb/mile	exhaust PM10 lb/mile	tire wear a PM10 lb/mile	exhaust PM2.5 lb/mile	tire wear a PM2.5 lb/mile	SOx lb/mile
Los Angele	2022 Annual	LDA		0	5.85E-04	0.012317847	131.3877	0	3.08E-04	2.39E-03	1.57E-04	7.27E-07	9.87E-05	6.75E-07	3.91E-05	8.58E-06
Los Angele	2022 Annual	LDA		0	0	0	0	0	0	0	0	0	0	0	0	0
Los Angele	2022 Annual	LDA		0	6.59E-04	0.014125163	150.6654	0	2.76E-04	2.16E-03	1.52E-04	7.54E-07	9.87E-05	7.00E-07	3.91E-05	8.57E-06
Los Angele	2022 Annual	LDA		0	0	1.59E-06	0	0.014949822	1.91E-05	1.80E-04	5.80E-04	1.15E-05	9.87E-05	1.06E-05	3.91E-05	6.68E-06
Los Angele	2022 Annual	LDA		0	6.19E-04	0.01352406	144.2537	0	2.52E-04	2.13E-03	1.59E-04	1.03E-06	9.87E-05	9.59E-07	3.91E-05	8.58E-06
Los Angele	2022 Annual	LDA		0	0	5.52E-05	0	0.5200129	1.87E-05	1.75E-04	5.67E-04	1.12E-05	9.87E-05	1.03E-05	3.91E-05	6.68E-06
Los Angele	2022 Annual	LDA		0	8.48E-04	0.018886864	201.4559	0	2.28E-04	2.06E-03	1.64E-04	1.07E-06	9.87E-05	9.97E-07	3.91E-05	8.58E-06
Los Angele	2022 Annual	LDA		0	0	1.04E-04	0	0.975751	1.82E-05	1.71E-04	5.54E-04	1.10E-05	9.87E-05	1.01E-05	3.91E-05	6.68E-06
Los Angele	2022 Annual	LDA		0	8.97E-04	0.020424837	217.8606	0	2.06E-04	2.02E-03	1.62E-04	1.69E-06	9.87E-05	1.56E-06	3.91E-05	8.57E-06
Los Angele	2022 Annual	LDA		0	0	9.95E-05	0	0.9381604	1.77E-05	1.66E-04	5.39E-04	1.07E-05	9.87E-05	9.83E-06	3.91E-05	6.68E-06
Los Angele	2022 Annual	LDA		0	9.90E-04	0.023024077	245.5852	0	1.85E-04	1.97E-03	1.61E-04	2.27E-06	9.87E-05	2.10E-06	3.91E-05	8.56E-06

Los Angele	2021	Annual	LDT1	3.23E-04
Los Angele	2021	Annual	LDT1	2.29E-04
Los Angele	2021	Annual	LDT1	3.16E-04
Los Angele	2021	Annual	LDT1	2.24E-04
Los Angele	2021	Annual	LDT1	3.03E-04
Los Angele	2021	Annual	LDT1	2.15E-04
Los Angele	2021	Annual	LDT1	2.91E-04
Los Angele	2021	Annual	LDT1	2.07E-04
Los Angele	2021	Annual	LDT1	2.91E-04
Los Angele	2021	Annual	LDT1	2.07E-04
Los Angele	2021	Annual	LDT1	2.91E-04
Los Angele	2021	Annual	LDT1	2.07E-04
Los Angele	2021	Annual	LDT1	2.90E-04
Los Angele	2021	Annual	LDT1	2.07E-04
Los Angele	2021	Annual	LDT1	2.90E-04
Los Angele	2021	Annual	LDT1	2.07E-04
Los Angele	2021	Annual	LDT1	2.89E-04
Los Angele	2021	Annual	LDT1	2.07E-04
Los Angele	2021	Annual	T6 instate heavy	1.17E-03
Los Angele	2021	Annual	T6 instate heavy	1.17E-03
Los Angele	2021	Annual	T6 instate heavy	1.17E-03
Los Angele	2021	Annual	T6 instate heavy	1.13E-03
Los Angele	2021	Annual	T6 instate heavy	1.13E-03
Los Angele	2021	Annual	T6 instate heavy	1.12E-03
Los Angele	2021	Annual	T6 instate heavy	1.12E-03
Los Angele	2021	Annual	T6 instate heavy	1.13E-03
Los Angele	2021	Annual	T6 instate heavy	1.12E-03
Los Angele	2021	Annual	T6 instate heavy	1.12E-03
Los Angele	2021	Annual	T6 instate heavy	1.12E-03
Los Angele	2021	Annual	T6 instate heavy	1.12E-03
Los Angele	2021	Annual	T6 instate heavy	1.12E-03
Los Angele	2021	Annual	T6 instate heavy	1.12E-03
Los Angele	2021	Annual	T6 instate heavy	1.12E-03
Los Angele	2021	Annual	T6 instate heavy	1.12E-03
Los Angele	2021	Annual	T6 instate heavy	1.13E-03
Los Angele	2021	Annual	LDA/LDT1	2.83E-04
Los Angele	2021	Annual	T6 instate heavy	1.13E-03

EMFAC 2011

2022 Estimated Annual Emissions

EMFAC 2011 Vehicle Categories

Los Angeles COUNTY

South Coast AIR BASIN

South Coast AQMD

Area	CalYr	Season	Veh	exhaust CO2 ton/mile
Los Angele	2022	Annual	LDA	3.85E-04
Los Angele	2022	Annual	LDA	
Los Angele	2022	Annual	LDA	3.85E-04
Los Angele	2022	Annual	LDA	3.15E-04
Los Angele	2022	Annual	LDA	3.85E-04
Los Angele	2022	Annual	LDA	3.15E-04
Los Angele	2022	Annual	LDA	3.72E-04
Los Angele	2022	Annual	LDA	3.04E-04
Los Angele	2022	Annual	LDA	3.29E-04
Los Angele	2022	Annual	LDA	2.70E-04
Los Angele	2022	Annual	LDA	2.87E-04

Los Angele	2022 Annual	LDA	DSL	2012 AllSpeeds	1001.578	28694.20129	6319.323	2.46E-04	0	0	2.46E-04
Los Angele	2022 Annual	LDA	GAS	2013 AllSpeeds	194449.3	5752344.373	1234630	0.073502022	0	0.070114143	0.143616165
Los Angele	2022 Annual	LDA	DSL	2013 AllSpeeds	953.8389	28217.23264	6056.271	2.34E-04	0	0	2.34E-04
Los Angele	2022 Annual	LDA	GAS	2014 AllSpeeds	204716.2	6267297.885	1308006	0.078258469	0	0.072641455	0.150899924
Los Angele	2022 Annual	LDA	DSL	2014 AllSpeeds	855.2057	26181.80718	5464.218	2.09E-04	0	0	2.09E-04
Los Angele	2022 Annual	LDA	GAS	2015 AllSpeeds	216857.6	6889638.03	1392086	0.083716749	0	0.075272955	0.158989704
Los Angele	2022 Annual	LDA	DSL	2015 AllSpeeds	857.937	27257.01651	5507.405	2.08E-04	0	0	2.08E-04
Los Angele	2022 Annual	LDA	GAS	2016 AllSpeeds	222940.5	7373326.097	1435594	0.086910153	0	0.075332612	0.162242765
Los Angele	2022 Annual	LDA	DSL	2016 AllSpeeds	758.2899	25079.03563	4882.898	1.83E-04	0	0	1.83E-04
Los Angele	2022 Annual	LDA	GAS	2017 AllSpeeds	232685.5	8047034.43	1505324	0.089932595	0	0.075455293	0.165387888
Los Angele	2022 Annual	LDA	DSL	2017 AllSpeeds	739.0627	25559.31024	4781.257	1.76E-04	0	0	1.76E-04
Los Angele	2022 Annual	LDA	GAS	2018 AllSpeeds	236504.6	8601053.404	1534761	0.086336401	0	0.070904307	0.157240708
Los Angele	2022 Annual	LDA	DSL	2018 AllSpeeds	684.072	24877.99451	4439.183	1.62E-04	0	0	1.62E-04
Los Angele	2022 Annual	LDA	GAS	2019 AllSpeeds	239486.2	9231993.078	1556504	0.086407376	0	0.067457847	0.153865223
Los Angele	2022 Annual	LDA	DSL	2019 AllSpeeds	653.5639	25194.43498	4247.741	1.53E-04	0	0	1.53E-04
Los Angele	2022 Annual	LDA	GAS	2020 AllSpeeds	242033.6	1.00E+07	1577901	0.08875332	0	0.064417273	0.153170593
Los Angele	2022 Annual	LDA	DSL	2020 AllSpeeds	594.3916	24587.14151	3875.046	1.38E-04	0	0	1.38E-04
Los Angele	2022 Annual	LDA	GAS	2021 AllSpeeds	233684.1	1.06E+07	1528142	0.088104321	0	0.057968374	0.146072695
Los Angele	2022 Annual	LDA	DSL	2021 AllSpeeds	527.5645	23916.60464	3449.926	1.23E-04	0	0	1.23E-04
Los Angele	2022 Annual	LDA	GAS	2022 AllSpeeds	236051.5	1.23E+07	1548343	0.093417277	0	0.052817658	0.146234935
Los Angele	2022 Annual	LDA	DSL	2022 AllSpeeds	506.1973	26383.79048	3320.322	1.22E-04	0	0	1.22E-04
Los Angele	2022 Annual	LDT1	GAS	2007 AllSpeeds	7807.61	232500.3069	47465.52	0.003419761	0	0.003242677	0.006662438
Los Angele	2022 Annual	LDT1	DSL	2007 AllSpeeds	0	0	0	0	0	0	0
Los Angele	2022 Annual	LDT1	GAS	2008 AllSpeeds	16341.84	494361.3879	100165.5	0.006730143	0	0.006091053	0.012821196
Los Angele	2022 Annual	LDT1	DSL	2008 AllSpeeds	0	0	0	0	0	0	0
Los Angele	2022 Annual	LDT1	GAS	2009 AllSpeeds	14923.73	459078.6291	92070.2	0.006302887	0	0.005617912	0.011920799
Los Angele	2022 Annual	LDT1	DSL	2009 AllSpeeds	0	0	0	0	0	0	0
Los Angele	2022 Annual	LDT1	GAS	2010 AllSpeeds	16791.44	525773.9248	104432.3	0.007267419	0	0.006376455	0.013643873
Los Angele	2022 Annual	LDT1	DSL	2010 AllSpeeds	26.33161	824.4981975	163.7662	9.02E-06	0	0	9.02E-06
Los Angele	2022 Annual	LDT1	GAS	2011 AllSpeeds	16135.91	514828.7779	101000.7	0.006989646	0	0.006065908	0.013055555
Los Angele	2022 Annual	LDT1	DSL	2011 AllSpeeds	37.48836	1196.098831	234.6536	1.27E-05	0	0	1.27E-05
Los Angele	2022 Annual	LDT1	GAS	2012 AllSpeeds	15855.1	516013.5378	100035.7	0.00686653	0	0.005896795	0.012763325
Los Angele	2022 Annual	LDT1	DSL	2012 AllSpeeds	27.74826	903.0869682	175.074	9.29E-06	0	0	9.29E-06
Los Angele	2022 Annual	LDT1	GAS	2013 AllSpeeds	16337.61	543253.4002	103733.5	0.007062725	0	0.005981851	0.013044576
Los Angele	2022 Annual	LDT1	DSL	2013 AllSpeeds	37.30425	1240.435116	236.8583	1.23E-05	0	0	1.23E-05
Los Angele	2022 Annual	LDT1	GAS	2014 AllSpeeds	16629.9	565961.3684	106254.4	0.007167433	0	0.005975511	0.013142944
Los Angele	2022 Annual	LDT1	DSL	2014 AllSpeeds	35.39782	1204.690857	226.1695	1.15E-05	0	0	1.15E-05
Los Angele	2022 Annual	LDT1	GAS	2015 AllSpeeds	17553.29	612716.3158	112680.9	0.007535368	0	0.00615689	0.013692258
Los Angele	2022 Annual	LDT1	DSL	2015 AllSpeeds	36.94816	1289.721344	237.1835	1.18E-05	0	0	1.18E-05
Los Angele	2022 Annual	LDT1	GAS	2016 AllSpeeds	17674.44	634366.2848	113812	0.007546916	0	0.00601948	0.013566395
Los Angele	2022 Annual	LDT1	DSL	2016 AllSpeeds	46.14689	1656.30019	297.1562	1.44E-05	0	0	1.44E-05
Los Angele	2022 Annual	LDT1	GAS	2017 AllSpeeds	18061.73	668881.8028	116847.7	0.007522295	0	0.005887159	0.013409454
Los Angele	2022 Annual	LDT1	DSL	2017 AllSpeeds	30.96684	1146.803814	200.3354	9.45E-06	0	0	9.45E-06
Los Angele	2022 Annual	LDT1	GAS	2018 AllSpeeds	18163.91	697113.5347	117872	0.006994456	0	0.005445193	0.012439649
Los Angele	2022 Annual	LDT1	DSL	2018 AllSpeeds	33.24561	1275.942202	215.7424	9.88E-06	0	0	9.88E-06
Los Angele	2022 Annual	LDT1	GAS	2019 AllSpeeds	18245.55	730326.4594	118584.2	0.006819066	0	0.005129122	0.011948188
Los Angele	2022 Annual	LDT1	DSL	2019 AllSpeeds	37.61664	1505.714634	244.4837	1.09E-05	0	0	1.09E-05
Los Angele	2022 Annual	LDT1	GAS	2020 AllSpeeds	18619.89	785022.9229	121389.6	0.006933938	0	0.004938824	0.011872762
Los Angele	2022 Annual	LDT1	DSL	2020 AllSpeeds	31.59509	1332.071099	205.9794	8.90E-06	0	0	8.90E-06
Los Angele	2022 Annual	LDT1	GAS	2021 AllSpeeds	19776.72	893189.6105	129326.8	0.007392924	0	0.004882425	0.012275349
Los Angele	2022 Annual	LDT1	DSL	2021 AllSpeeds	23.60095	1065.91224	154.3348	6.50E-06	0	0	6.50E-06
Los Angele	2022 Annual	LDT1	GAS	2022 AllSpeeds	19993.03	1005355.92	131141.2	0.007590001	0	0.004447184	0.012037185
Los Angele	2022 Annual	LDT1	DSL	2022 AllSpeeds	19.83228	997.2778776	130.0867	5.46E-06	0	0	5.46E-06
Los Angele	2022 Annual	T6 instate heavy	DSL	2007 AllSpeeds	748.2822263	27038.7271	0	0.007159793	1.73E-04	0	0.007332934
Los Angele	2022 Annual	T6 instate heavy	DSL	2008 AllSpeeds	641.662506	26481.90647	0	0.006842369	1.48E-04	0	0.006990839
Los Angele	2022 Annual	T6 instate heavy	DSL	2009 AllSpeeds	213.6689477	9835.394378	0	0.002468489	4.94E-05	0	0.002517928

Los Angele	2022 Annual	LDA	0	0	0	0	2.46E-04	2.80E-04	0	0	2.80E-04
Los Angele	2022 Annual	LDA	0.018759759	0.065063894	0.2351159	0.021131329	0.483687047	0.136796557	0	0.074860275	0.211656832
Los Angele	2022 Annual	LDA	0	0	0	0	2.34E-04	2.66E-04	0	0	2.66E-04
Los Angele	2022 Annual	LDA	0.017150322	0.057057563	0.231968	0.018734159	0.475809968	0.145648926	0	0.077558659	0.223207585
Los Angele	2022 Annual	LDA	0	0	0	0	2.09E-04	2.37E-04	0	0	2.37E-04
Los Angele	2022 Annual	LDA	0.014976736	0.046443559	0.2211443	0.01567539	0.457229689	0.155807467	0	0.080368318	0.236175785
Los Angele	2022 Annual	LDA	0	0	0	0	2.08E-04	2.37E-04	0	0	2.37E-04
Los Angele	2022 Annual	LDA	0.012447125	0.034642473	0.1897912	0.012432911	0.411556474	0.161750793	0	0.080431998	0.242182791
Los Angele	2022 Annual	LDA	0	0	0	0	1.83E-04	2.08E-04	0	0	2.08E-04
Los Angele	2022 Annual	LDA	0.010780992	0.026320459	0.1823815	0.009979532	0.394850372	0.167375938	0	0.080562986	0.247938924
Los Angele	2022 Annual	LDA	0	0	0	0	1.76E-04	2.01E-04	0	0	2.01E-04
Los Angele	2022 Annual	LDA	0.009202129	0.019079201	0.171795	0.007815851	0.365132889	0.160682972	0	0.075703919	0.236386891
Los Angele	2022 Annual	LDA	0	0	0	0	1.62E-04	1.84E-04	0	0	1.84E-04
Los Angele	2022 Annual	LDA	0.008260255	0.014484366	0.1634768	0.006480184	0.346566827	0.160815058	0	0.072024181	0.232839239
Los Angele	2022 Annual	LDA	0	0	0	0	1.53E-04	1.74E-04	0	0	1.74E-04
Los Angele	2022 Annual	LDA	0.007624502	0.011327391	0.15667	0.005567996	0.334360482	0.165181171	0	0.068777785	0.233958956
Los Angele	2022 Annual	LDA	0	0	0	0	1.38E-04	1.58E-04	0	0	1.58E-04
Los Angele	2022 Annual	LDA	0.006893207	0.008780396	0.144541	0.004740931	0.311028229	0.163973298	0	0.061892349	0.225865647
Los Angele	2022 Annual	LDA	0	0	0	0	1.23E-04	1.40E-04	0	0	1.40E-04
Los Angele	2022 Annual	LDA	0.006648	0.007411625	0.1401617	0.004361749	0.304818008	0.173861378	0	0.056392964	0.230254342
Los Angele	2022 Annual	LDA	0	0	0	0	1.22E-04	1.39E-04	0	0	1.39E-04
Los Angele	2022 Annual	LDT1	0.002170686	0.006470343	0.022124534	0.002698055	0.040126056	0.006364608	0	0.00346218	0.009826788
Los Angele	2022 Annual	LDT1	0	0	0	0	0	0	0	0	0
Los Angele	2022 Annual	LDT1	0.004050869	0.012020748	0.041778117	0.004987585	0.075658515	0.012525649	0	0.006503366	0.019029015
Los Angele	2022 Annual	LDT1	0	0	0	0	0	0	0	0	0
Los Angele	2022 Annual	LDT1	0.003256927	0.009574112	0.034011871	0.003962704	0.062726413	0.01173047	0	0.005998198	0.017728668
Los Angele	2022 Annual	LDT1	0	0	0	0	0	0	0	0	0
Los Angele	2022 Annual	LDT1	0.003215002	0.009350141	0.03420788	0.003857551	0.064274447	0.013525587	0	0.006808088	0.020333675
Los Angele	2022 Annual	LDT1	0	0	0	0	9.02E-06	1.03E-05	0	0	1.03E-05
Los Angele	2022 Annual	LDT1	0.002687069	0.007683775	0.029243875	0.003169099	0.055839373	0.013008616	0	0.006476521	0.019485136
Los Angele	2022 Annual	LDT1	0	0	0	0	1.27E-05	1.45E-05	0	0	1.45E-05
Los Angele	2022 Annual	LDT1	0.00224887	0.006284405	0.025286479	0.002592671	0.049175749	0.012779482	0	0.006295959	0.01907544
Los Angele	2022 Annual	LDT1	0	0	0	0	9.29E-06	1.06E-05	0	0	1.06E-05
Los Angele	2022 Annual	LDT1	0.002048067	0.00557611	0.023821624	0.002306982	0.046797359	0.013144625	0	0.006386774	0.019531399
Los Angele	2022 Annual	LDT1	0	0	0	0	1.23E-05	1.40E-05	0	0	1.40E-05
Los Angele	2022 Annual	LDT1	0.001810268	0.004746981	0.021863222	0.001977449	0.043540863	0.013339499	0	0.006380002	0.019719501
Los Angele	2022 Annual	LDT1	0	0	0	0	1.15E-05	1.31E-05	0	0	1.31E-05
Los Angele	2022 Annual	LDT1	0.001575065	0.003871685	0.019377846	0.001648541	0.040165394	0.014024273	0	0.006573659	0.020597933
Los Angele	2022 Annual	LDT1	0	0	0	0	1.18E-05	1.34E-05	0	0	1.34E-05
Los Angele	2022 Annual	LDT1	0.001282119	0.002844604	0.014687958	0.001280654	0.03366173	0.014045764	0	0.006426948	0.020472712
Los Angele	2022 Annual	LDT1	0	0	0	0	1.44E-05	1.64E-05	0	0	1.64E-05
Los Angele	2022 Annual	LDT1	0.001087335	0.002144416	0.013298258	0.001006503	0.030945966	0.013999943	0	0.00628567	0.020285613
Los Angele	2022 Annual	LDT1	0	0	0	0	9.45E-06	1.08E-05	0	0	1.08E-05
Los Angele	2022 Annual	LDT1	9.18E-04	0.001566591	0.012008251	7.80E-04	0.027712577	0.013017568	0	0.005813786	0.018831354
Los Angele	2022 Annual	LDT1	0	0	0	0	9.88E-06	1.13E-05	0	0	1.13E-05
Los Angele	2022 Annual	LDT1	8.18E-04	0.001205734	0.010860011	6.41E-04	0.025473094	0.012691145	0	0.005476321	0.018167465
Los Angele	2022 Annual	LDT1	0	0	0	0	1.09E-05	1.24E-05	0	0	1.24E-05
Los Angele	2022 Annual	LDT1	7.62E-04	9.76E-04	0.01010175183	5.57E-04	0.024342759	0.012904937	0	0.005273141	0.018178078
Los Angele	2022 Annual	LDT1	0	0	0	0	8.90E-06	1.01E-05	0	0	1.01E-05
Los Angele	2022 Annual	LDT1	7.58E-04	8.55E-04	0.009964739	5.21E-04	0.024374229	0.013759168	0	0.005212924	0.018972092
Los Angele	2022 Annual	LDT1	0	0	0	0	6.50E-06	7.40E-06	0	0	7.40E-06
Los Angele	2022 Annual	LDT1	7.32E-04	7.41E-04	0.009398608	4.80E-04	0.023388643	0.014125951	0	0.004748222	0.018874174
Los Angele	2022 Annual	LDT1	0	0	0	0	5.46E-06	6.21E-06	0	0	6.21E-06
Los Angele	2022 Annual	T6 instate heavy	0	0	0	0	0.007332934	0.008150879	1.97E-04	0	0.008347987
Los Angele	2022 Annual	T6 instate heavy	0	0	0	0	0.006990839	0.007789516	1.69E-04	0	0.007958539
Los Angele	2022 Annual	T6 instate heavy	0	0	0	0	0.002517928	0.002810187	5.63E-05	0	0.00286647

Los Angele	2022 Annual	LDA	0	0	0	0	2.80E-04	0.0023063	0	0	0.0023063
Los Angele	2022 Annual	LDA	0.018759759	0.065063894	0.2351159	0.021131329	0.551727714	4.287291023	0	1.244675	5.531966023
Los Angele	2022 Annual	LDA	0	0	0	0	2.66E-04	0.002188921	0	0	0.002188921
Los Angele	2022 Annual	LDA	0.017150322	0.057057563	0.231968	0.018734159	0.548117629	4.561539344	0	1.282285	5.843824344
Los Angele	2022 Annual	LDA	0	0	0	0	2.37E-04	0.001953814	0	0	0.001953814
Los Angele	2022 Annual	LDA	0.014976736	0.046443559	0.2211443	0.01567539	0.53441577	4.877322981	0	1.31935	6.196672981
Los Angele	2022 Annual	LDA	0	0	0	0	2.37E-04	0.00194872	0	0	0.00194872
Los Angele	2022 Annual	LDA	0.012447125	0.034642473	0.1897912	0.012432911	0.4914965	5.022967201	0	1.299244	6.322211201
Los Angele	2022 Annual	LDA	0	0	0	0	2.08E-04	0.001709674	0	0	0.001709674
Los Angele	2022 Annual	LDA	0.010780992	0.026320459	0.1823815	0.009979532	0.477401407	5.13406016	0	1.259832	6.39389216
Los Angele	2022 Annual	LDA	0	0	0	0	2.01E-04	0.001648425	0	0	0.001648425
Los Angele	2022 Annual	LDA	0.009202129	0.019079201	0.171795	0.007815851	0.444279072	4.889977579	0	1.11421	6.004187579
Los Angele	2022 Annual	LDA	0	0	0	0	1.84E-04	0.001508823	0	0	0.001508823
Los Angele	2022 Annual	LDA	0.008260255	0.014484366	0.1634768	0.006480184	0.425540843	4.81448387	0	1.015063	5.82954687
Los Angele	2022 Annual	LDA	0	0	0	0	1.74E-04	0.001426138	0	0	0.001426138
Los Angele	2022 Annual	LDA	0.007624502	0.011327391	0.15667	0.005567996	0.415148845	4.878052735	0	0.9481744	5.826227135
Los Angele	2022 Annual	LDA	0	0	0	0	1.58E-04	0.001286377	0	0	0.001286377
Los Angele	2022 Annual	LDA	0.006893207	0.008780396	0.144541	0.004740931	0.390821181	4.84228938	0	0.8536201	5.69590948
Los Angele	2022 Annual	LDA	0	0	0	0	1.40E-04	0.001141296	0	0	0.001141296
Los Angele	2022 Annual	LDA	0.006648	0.007411625	0.1401617	0.004361749	0.388837415	5.286878351	0	0.811218	6.098096351
Los Angele	2022 Annual	LDA	0	0	0	0	1.39E-04	0.00112514	0	0	0.00112514
Los Angele	2022 Annual	LDT1	0.002170686	0.006470343	0.022124534	0.002698055	0.043290405	0.21483827	0	0.063077047	0.277915317
Los Angele	2022 Annual	LDT1	0	0	0	0	0	0	0	0	0
Los Angele	2022 Annual	LDT1	0.004050869	0.012020748	0.041778117	0.004987585	0.081866335	0.416131701	0	0.1180059	0.534137601
Los Angele	2022 Annual	LDT1	0	0	0	0	0	0	0	0	0
Los Angele	2022 Annual	LDT1	0.003256927	0.009574112	0.034011871	0.003962704	0.068534282	0.378971276	0	0.1053367	0.484307976
Los Angele	2022 Annual	LDT1	0	0	0	0	0	0	0	0	0
Los Angele	2022 Annual	LDT1	0.003215002	0.009350141	0.03420788	0.003857551	0.070964249	0.42312777	0	0.1150632	0.53819097
Los Angele	2022 Annual	LDT1	0	0	0	0	1.03E-05	8.43E-05	0	0	8.43E-05
Los Angele	2022 Annual	LDT1	0.002687069	0.007683775	0.029243875	0.003169099	0.062268955	0.408187672	0	0.1094672	0.517654872
Los Angele	2022 Annual	LDT1	0	0	0	0	1.45E-05	1.19E-04	0	0	1.19E-04
Los Angele	2022 Annual	LDT1	0.00224887	0.006284405	0.025286479	0.002592671	0.055487864	0.401200155	0	0.1060548	0.507254955
Los Angele	2022 Annual	LDT1	0	0	0	0	1.06E-05	8.68E-05	0	0	8.68E-05
Los Angele	2022 Annual	LDT1	0.002048067	0.00557611	0.023821624	0.002306982	0.053284182	0.412669905	0	0.1070721	0.519742005
Los Angele	2022 Annual	LDT1	0	0	0	0	1.40E-05	1.15E-04	0	0	1.15E-04
Los Angele	2022 Annual	LDT1	0.001810268	0.004746981	0.021863222	0.001977449	0.050117421	0.418876598	0	0.1063977	0.525274298
Los Angele	2022 Annual	LDT1	0	0	0	0	1.31E-05	1.07E-04	0	0	1.07E-04
Los Angele	2022 Annual	LDT1	0.001575065	0.003871685	0.019377846	0.001648541	0.047071069	0.439342029	0	0.1085959	0.547937929
Los Angele	2022 Annual	LDT1	0	0	0	0	1.34E-05	1.10E-04	0	0	1.10E-04
Los Angele	2022 Annual	LDT1	0.001282119	0.002844604	0.014687958	0.001280654	0.040568047	0.436250157	0	0.1043423	0.540592457
Los Angele	2022 Annual	LDT1	0	0	0	0	1.64E-05	1.34E-04	0	0	1.34E-04
Los Angele	2022 Annual	LDT1	0.001087335	0.002144416	0.013298258	0.001006503	0.037822125	0.429259105	0	0.098655522	0.527914627
Los Angele	2022 Annual	LDT1	0	0	0	0	1.08E-05	8.77E-05	0	0	8.77E-05
Los Angele	2022 Annual	LDT1	9.18E-04	0.001566591	0.012008251	7.80E-04	0.034104282	0.39597886	0	0.085612297	0.481591157
Los Angele	2022 Annual	LDT1	0	0	0	0	1.13E-05	9.15E-05	0	0	9.15E-05
Los Angele	2022 Annual	LDT1	8.18E-04	0.001205734	0.010860011	6.41E-04	0.031692371	0.379610408	0	0.077139474	0.456749882
Los Angele	2022 Annual	LDT1	0	0	0	0	1.24E-05	1.01E-04	0	0	1.01E-04
Los Angele	2022 Annual	LDT1	7.62E-04	9.76E-04	0.0101075183	5.57E-04	0.030648074	0.380783146	0	0.07266926	0.453452406
Los Angele	2022 Annual	LDT1	0	0	0	0	1.01E-05	8.19E-05	0	0	8.19E-05
Los Angele	2022 Annual	LDT1	7.58E-04	8.55E-04	0.009964739	5.21E-04	0.031070972	0.406315142	0	0.071963266	0.478278408
Los Angele	2022 Annual	LDT1	0	0	0	0	7.40E-06	5.96E-05	0	0	5.96E-05
Los Angele	2022 Annual	LDT1	7.32E-04	7.41E-04	0.009398608	4.80E-04	0.030225632	0.430326148	0	0.068531282	0.49885743
Los Angele	2022 Annual	LDT1	0	0	0	0	6.21E-06	4.98E-05	0	0	4.98E-05
Los Angele	2022 Annual	T6 instate heavy	0	0	0	0	0.008347987	0.030127905	0.002047401	0	0.032175306
Los Angele	2022 Annual	T6 instate heavy	0	0	0	0	0.007958539	0.028792208	0.001755675	0	0.030547882
Los Angele	2022 Annual	T6 instate heavy	0	0	0	0	0.00286647	0.010387228	5.85E-04	0	0.010971855

Los Angele	2022 Annual	LDA	0.007512953	0	0	0.007512953	10.04577016	0	0	10.04577016	6.753771279
Los Angele	2022 Annual	LDA	0.378614001	0	0.076804928	0.455418929	2352.523726	0	101.1199	2453.643626	1541.373545
Los Angele	2022 Annual	LDA	0.007153878	0	0	0.007153878	9.87878577	0	0	9.87878577	6.472580437
Los Angele	2022 Annual	LDA	0.407664754	0	0.079912797	0.487577551	2563.021012	0	107.1253	2670.146312	1642.383864
Los Angele	2022 Annual	LDA	0.006409071	0	0	0.006409071	9.166188598	0	0	9.166188598	5.873693654
Los Angele	2022 Annual	LDA	0.441103704	0	0.082996033	0.524099737	2818.230819	0	114.0042	2932.235019	1732.366485
Los Angele	2022 Annual	LDA	0.006419449	0	0	0.006419449	9.542616719	0	0	9.542616719	5.865846497
Los Angele	2022 Annual	LDA	0.457458865	0	0.081780821	0.539239686	3016.824543	0	117.5593	3134.383843	1783.848352
Los Angele	2022 Annual	LDA	0.005659596	0	0	0.005659596	8.780110764	0	0	8.780110764	5.191679495
Los Angele	2022 Annual	LDA	0.468114261	0	0.078440189	0.54655445	3293.40087	0	123.2656	3416.66647	1947.387934
Los Angele	2022 Annual	LDA	0.005489501	0	0	0.005489501	8.948253569	0	0	8.948253569	5.291102335
Los Angele	2022 Annual	LDA	0.474925192	0	0.073729187	0.548654379	3521.020961	0	125.6681	3646.689061	2081.979694
Los Angele	2022 Annual	LDA	0.005059739	0	0	0.005059739	8.709725782	0	0	8.709725782	5.150060855
Los Angele	2022 Annual	LDA	0.473562229	0	0.066374801	0.53993703	3780.293144	0	127.4419	3907.735044	2235.287336
Los Angele	2022 Annual	LDA	0.004822252	0	0	0.004822252	8.820511542	0	0	8.820511542	5.215568475
Los Angele	2022 Annual	LDA	0.480605819	0	0.059822191	0.54042801	4100.791646	0	129.1916	4229.983246	2424.7981
Los Angele	2022 Annual	LDA	0.004393774	0	0	0.004393774	8.607899279	0	0	8.607899279	5.089850844
Los Angele	2022 Annual	LDA	0.473383852	0	0.050584611	0.523968463	4340.584457	0	125.1183	4465.702757	2566.587589
Los Angele	2022 Annual	LDA	0.003948035	0	0	0.003948035	8.373145371	0	0	8.373145371	4.951040858
Los Angele	2022 Annual	LDA	0.506984234	0	0.043452956	0.55043719	5042.632504	0	126.7731	5169.405604	2981.708599
Los Angele	2022 Annual	LDA	0.003958608	0	0	0.003958608	9.236902531	0	0	9.236902531	5.461780466
Los Angele	2022 Annual	LDT1	0.015178585	0	0.00292795	0.018106535	110.6046928	0	4.524604	115.1292968	99.54422355
Los Angele	2022 Annual	LDT1	0	0	0	0	0	0	0	0	0
Los Angele	2022 Annual	LDT1	0.031360008	0	0.005931811	0.037291819	234.9679263	0	9.539651	244.5075773	211.4711337
Los Angele	2022 Annual	LDT1	0	0	0	0	0	0	0	0	0
Los Angele	2022 Annual	LDT1	0.030219442	0	0.005746368	0.03596581	218.571258	0	8.783729	227.354987	196.7141322
Los Angele	2022 Annual	LDT1	0	0	0	0	0	0	0	0	0
Los Angele	2022 Annual	LDT1	0.035920067	0	0.006870331	0.042790398	250.1710794	0	9.956934	260.1280134	217.2735824
Los Angele	2022 Annual	LDT1	2.77E-04	0	0	2.77E-04	0.288654856	0	0	0.288654856	0.250696743
Los Angele	2022 Annual	LDT1	0.034956017	0	0.006583379	0.041539397	244.9374745	0	9.628737	254.5662115	188.6998304
Los Angele	2022 Annual	LDT1	3.92E-04	0	0	3.92E-04	0.418751352	0	0	0.418751352	0.322606042
Los Angele	2022 Annual	LDT1	0.034761504	0	0.006443438	0.041204942	245.4830205	0	9.536028	255.0190485	165.0382347
Los Angele	2022 Annual	LDT1	2.87E-04	0	0	2.87E-04	0.316168546	0	0	0.316168546	0.212560114
Los Angele	2022 Annual	LDT1	0.036222671	0	0.006578554	0.042801225	258.4098755	0	9.887295	268.2971705	169.3101504
Los Angele	2022 Annual	LDT1	3.82E-04	0	0	3.82E-04	0.434273412	0	0	0.434273412	0.28453594
Los Angele	2022 Annual	LDT1	0.037239113	0	0.006603701	0.043842814	269.1996132	0	10.12714	279.3267532	172.5031122
Los Angele	2022 Annual	LDT1	3.57E-04	0	0	3.57E-04	0.421759388	0	0	0.421759388	0.270263416
Los Angele	2022 Annual	LDT1	0.039581713	0	0.00680981	0.046391524	291.4843298	0	10.73806	302.2223898	179.1754175
Los Angele	2022 Annual	LDT1	3.67E-04	0	0	3.67E-04	0.451528385	0	0	0.451528385	0.277554498
Los Angele	2022 Annual	LDT1	0.039610695	0	0.006548519	0.046159214	301.8585083	0	10.84526	312.7037683	178.488936
Los Angele	2022 Annual	LDT1	4.51E-04	0	0	4.51E-04	0.579866784	0	0	0.579866784	0.34287523
Los Angele	2022 Annual	LDT1	0.038962223	0	0.006106699	0.045068923	318.3779541	0	11.1345	329.5124541	188.2568843
Los Angele	2022 Annual	LDT1	2.97E-04	0	0	2.97E-04	0.401493326	0	0	0.401493326	0.237403004
Los Angele	2022 Annual	LDT1	0.038477316	0	0.005664051	0.044141367	331.8703212	0	11.23054	343.1008612	196.2349209
Los Angele	2022 Annual	LDT1	3.12E-04	0	0	3.12E-04	0.446704315	0	0	0.446704315	0.264136262
Los Angele	2022 Annual	LDT1	0.037363056	0	0.005038856	0.042401912	347.7963952	0	11.2987	359.0950952	205.6520085
Los Angele	2022 Annual	LDT1	3.46E-04	0	0	3.46E-04	0.527147061	0	0	0.527147061	0.311702057
Los Angele	2022 Annual	LDT1	0.037532121	0	0.004573681	0.042105802	373.9343534	0	11.56529	385.4996434	221.1073831
Los Angele	2022 Annual	LDT1	2.85E-04	0	0	2.85E-04	0.466354935	0	0	0.466354935	0.275755673
Los Angele	2022 Annual	LDT1	0.039720099	0	0.004246361	0.04396646	425.6072117	0	12.3221	437.9293117	251.6615443
Los Angele	2022 Annual	LDT1	2.10E-04	0	0	2.10E-04	0.373173349	0	0	0.373173349	0.220657401
Los Angele	2022 Annual	LDT1	0.041247427	0	0.00365164	0.044899068	479.2265766	0	12.49567	491.7222466	283.3666747
Los Angele	2022 Annual	LDT1	1.78E-04	0	0	1.78E-04	0.349144632	0	0	0.349144632	0.206449221
Los Angele	2022 Annual	T6 instate heavy	0.151719655	0.003093203	0	0.154812858	34.56395896	0.615155762	0	35.17911472	31.10756306
Los Angele	2022 Annual	T6 instate heavy	0.137646774	0.002652465	0	0.140299239	33.85216785	0.527504696	0	34.37967255	30.46695107
Los Angele	2022 Annual	T6 instate heavy	0.045101851	8.83E-04	0	0.045985103	12.57271344	0.175655227	0	12.74836867	11.3154421

Los Angele	2022 Annual	LDA	0	0	6.753771279	1.49E-04	0	0	1.49E-04	2.53E-04	0.001162401
Los Angele	2022 Annual	LDA	0	66.25375848	1607.627304	0.007278098	0	0.003036008	0.010314106	0.050726991	0.2330272
Los Angele	2022 Annual	LDA	0	0	6.472580437	1.42E-04	0	0	1.42E-04	2.49E-04	0.001143079
Los Angele	2022 Annual	LDA	0	68.64589224	1711.029757	0.01057243	0	0.004550411	0.015122841	0.055268105	0.2538879
Los Angele	2022 Annual	LDA	0	0	5.873693654	1.27E-04	0	0	1.27E-04	2.31E-04	0.001060624
Los Angele	2022 Annual	LDA	0	70.07838174	1802.444866	0.014526919	0	0.006236698	0.020763617	0.060756214	0.2790989
Los Angele	2022 Annual	LDA	0	0	5.865846497	1.27E-04	0	0	1.27E-04	2.40E-04	0.00110418
Los Angele	2022 Annual	LDA	0	69.51281409	1853.361166	0.017877598	0	0.00750462	0.025382218	0.065021612	0.2986931
Los Angele	2022 Annual	LDA	0	0	5.191679495	1.12E-04	0	0	1.12E-04	2.21E-04	0.001015951
Los Angele	2022 Annual	LDA	0	72.88694928	2020.274884	0.021207052	0	0.008602732	0.029809784	0.07096269	0.3259849
Los Angele	2022 Annual	LDA	0	0	5.291102335	1.09E-04	0	0	1.09E-04	2.25E-04	0.001035406
Los Angele	2022 Annual	LDA	0	74.30754753	2156.287242	0.023572304	0	0.009147504	0.032719808	0.075848311	0.3484282
Los Angele	2022 Annual	LDA	0	0	5.150060855	1.00E-04	0	0	1.00E-04	2.19E-04	0.001007806
Los Angele	2022 Annual	LDA	0	75.35639547	2310.643732	0.025300164	0	0.009303274	0.034603438	0.081412256	0.3739876
Los Angele	2022 Annual	LDA	0	0	5.215568475	9.57E-05	0	0	9.57E-05	2.22E-04	0.001020625
Los Angele	2022 Annual	LDA	0	76.39099308	2501.189093	0.027436586	0	0.009431003	0.036867589	0.088288411	0.405575
Los Angele	2022 Annual	LDA	0	0	5.089850844	8.72E-05	0	0	8.72E-05	2.17E-04	9.96E-04
Los Angele	2022 Annual	LDA	0	73.98245079	2640.57004	0.029031877	0	0.009133654	0.038165531	0.093421318	0.4291542
Los Angele	2022 Annual	LDA	0	0	4.951040858	7.84E-05	0	0	7.84E-05	2.11E-04	9.69E-04
Los Angele	2022 Annual	LDA	0	74.96093403	3056.669533	0.03371699	0	0.009254455	0.042971444	0.1084968	0.4984073
Los Angele	2022 Annual	LDA	0	0	5.461780466	7.87E-05	0	0	7.87E-05	2.33E-04	0.001068806
Los Angele	2022 Annual	LDT1	0	4.0721436	103.6163671	7.35E-05	0	9.38E-06	8.29E-05	0.002050302	0.009418574
Los Angele	2022 Annual	LDT1	0	0	0	0	0	0	0	0	0
Los Angele	2022 Annual	LDT1	0	8.5856859	220.0568196	1.56E-04	0	2.57E-05	1.82E-04	0.004359521	0.020026555
Los Angele	2022 Annual	LDT1	0	0	0	0	0	0	0	0	0
Los Angele	2022 Annual	LDT1	0	7.9053561	204.6194883	1.94E-04	0	3.74E-05	2.31E-04	0.004048381	0.018597255
Los Angele	2022 Annual	LDT1	0	0	0	0	0	0	0	0	0
Los Angele	2022 Annual	LDT1	0	8.647597179	225.9211796	2.22E-04	0	5.23E-05	2.74E-04	0.004636533	0.021299075
Los Angele	2022 Annual	LDT1	0	0	0.250696743	4.58E-06	0	0	4.58E-06	7.27E-06	3.34E-05
Los Angele	2022 Annual	LDT1	0	7.417978985	196.1178094	3.26E-04	0	9.42E-05	4.20E-04	0.004540013	0.020855686
Los Angele	2022 Annual	LDT1	0	0	0.322606042	6.47E-06	0	0	6.47E-06	1.05E-05	4.85E-05
Los Angele	2022 Annual	LDT1	0	6.411071624	171.4493063	4.35E-04	0	1.31E-04	5.66E-04	0.00455046	0.020903679
Los Angele	2022 Annual	LDT1	0	0	0.212560114	4.74E-06	0	0	4.74E-06	7.96E-06	3.66E-05
Los Angele	2022 Annual	LDT1	0	6.478155684	175.7883061	6.87E-04	0	2.55E-04	9.42E-04	0.004790675	0.022007169
Los Angele	2022 Annual	LDT1	0	0	0.28453594	6.31E-06	0	0	6.31E-06	1.09E-05	5.02E-05
Los Angele	2022 Annual	LDT1	0	6.489471312	178.9925835	9.54E-04	0	3.69E-04	0.001323742	0.004990925	0.022927063
Los Angele	2022 Annual	LDT1	0	0	0.270263416	5.91E-06	0	0	5.91E-06	1.06E-05	4.88E-05
Los Angele	2022 Annual	LDT1	0	6.600685482	185.776103	0.001291194	0	5.05E-04	0.001795731	0.005403233	0.024821106
Los Angele	2022 Annual	LDT1	0	0	0.277554498	6.07E-06	0	0	6.07E-06	1.14E-05	5.22E-05
Los Angele	2022 Annual	LDT1	0	6.412802238	184.9017382	0.001537255	0	5.95E-04	0.002131882	0.005594153	0.025698142
Los Angele	2022 Annual	LDT1	0	0	0.34287523	7.46E-06	0	0	7.46E-06	1.46E-05	6.71E-05
Los Angele	2022 Annual	LDT1	0	6.58382985	194.8407141	0.001761839	0	6.67E-04	0.002429257	0.005898527	0.027096368
Los Angele	2022 Annual	LDT1	0	0	0.237403004	4.91E-06	0	0	4.91E-06	1.01E-05	4.65E-05
Los Angele	2022 Annual	LDT1	0	6.640618302	202.8755392	0.001909385	0	7.02E-04	0.002611504	0.006147489	0.028240032
Los Angele	2022 Annual	LDT1	0	0	0.264136262	5.16E-06	0	0	5.16E-06	1.13E-05	5.17E-05
Los Angele	2022 Annual	LDT1	0	6.68092131	212.3329298	0.002000408	0	7.08E-04	0.002708819	0.006440377	0.029585488
Los Angele	2022 Annual	LDT1	0	0	0.311702057	5.73E-06	0	0	5.73E-06	1.33E-05	6.10E-05
Los Angele	2022 Annual	LDT1	0	6.838555977	227.9459391	0.002150094	0	7.25E-04	0.002875219	0.006922717	0.031801239
Los Angele	2022 Annual	LDT1	0	0	0.275755673	4.72E-06	0	0	4.72E-06	1.17E-05	5.40E-05
Los Angele	2022 Annual	LDT1	0	7.28605773	258.947602	0.002446469	0	7.73E-04	0.003219045	0.007876584	0.036183067
Los Angele	2022 Annual	LDT1	0	0	0.220657401	3.48E-06	0	0	3.48E-06	9.40E-06	4.32E-05
Los Angele	2022 Annual	LDT1	0	7.388689671	290.7553644	0.00275385	0	7.83E-04	0.003537309	0.00886572	0.040726911
Los Angele	2022 Annual	LDT1	0	0	0.206449221	2.96E-06	0	0	2.96E-06	8.79E-06	4.04E-05
Los Angele	2022 Annual	T6 instate heavy	0.553640186	0	31.66120325	0.002107268	7.27E-06	0	0.002114538	3.58E-04	0.003884796
Los Angele	2022 Annual	T6 instate heavy	0.474754226	0	30.94170529	0.00201538	6.23E-06	0	0.002021615	3.50E-04	0.003804795
Los Angele	2022 Annual	T6 instate heavy	0.158089704	0	11.4735318	7.28E-04	2.08E-06	0	7.30E-04	1.30E-04	0.001413103



Los Angele	2022 Annual	LDA	0.001564285	1.37E-04	0	0	1.37E-04	6.33E-05	4.98E-04	6.98E-04	9.59E-05
Los Angele	2022 Annual	LDA	0.294068297	0.006752876	0	0.002816914	0.00956979	0.012681748	0.099868767	0.122120305	0.023553517
Los Angele	2022 Annual	LDA	0.001533662	1.30E-04	0	0	1.30E-04	6.22E-05	4.90E-04	6.83E-04	9.43E-05
Los Angele	2022 Annual	LDA	0.324278846	0.009809469	0	0.004222031	0.014031501	0.013817026	0.1088091	0.136657627	0.025659205
Los Angele	2022 Annual	LDA	0.001418519	1.17E-04	0	0	1.17E-04	5.77E-05	4.55E-04	6.69E-04	8.31E-05
Los Angele	2022 Annual	LDA	0.360618731	0.013478585	0	0.005786627	0.019265212	0.015189053	0.1196138	0.154068065	0.028211894
Los Angele	2022 Annual	LDA	0.001471785	1.17E-04	0	0	1.17E-04	6.01E-05	4.73E-04	6.50E-04	9.11E-05
Los Angele	2022 Annual	LDA	0.38909693	0.016587461	0	0.00696305	0.02355051	0.016255403	0.1280113	0.167817213	0.030196663
Los Angele	2022 Annual	LDA	0.00134931	1.03E-04	0	0	1.03E-04	5.53E-05	4.35E-04	5.94E-04	8.38E-05
Los Angele	2022 Annual	LDA	0.426757374	0.019676647	0	0.007981917	0.027658564	0.017740672	0.1397078	0.185107036	0.032959286
Los Angele	2022 Annual	LDA	0.001369655	1.00E-04	0	0	1.00E-04	5.63E-05	4.44E-04	6.00E-04	8.54E-05
Los Angele	2022 Annual	LDA	0.456996319	0.021871206	0	0.008487374	0.03035858	0.018962078	0.1493264	0.198647058	0.035227314
Los Angele	2022 Annual	LDA	0.001327553	9.23E-05	0	0	9.23E-05	5.48E-05	4.32E-04	5.79E-04	8.31E-05
Los Angele	2022 Annual	LDA	0.490003294	0.023474379	0	0.008631903	0.032106281	0.020353064	0.1602804	0.212739745	0.037814129
Los Angele	2022 Annual	LDA	0.001338483	8.80E-05	0	0	8.80E-05	5.55E-05	4.37E-04	5.81E-04	8.42E-05
Los Angele	2022 Annual	LDA	0.530731	0.025456624	0	0.008750415	0.034207039	0.022072103	0.1738178	0.230096942	0.041014396
Los Angele	2022 Annual	LDA	0.001300059	8.02E-05	0	0	8.02E-05	5.42E-05	4.27E-04	5.61E-04	8.28E-05
Los Angele	2022 Annual	LDA	0.560741049	0.026936795	0	0.008474522	0.035411317	0.023355329	0.1839232	0.242689846	0.043407347
Los Angele	2022 Annual	LDA	0.001258174	7.21E-05	0	0	7.21E-05	5.27E-05	4.15E-04	5.40E-04	7.99E-05
Los Angele	2022 Annual	LDA	0.649875544	0.031283804	0	0.008586606	0.03987041	0.027124198	0.2136031	0.280597708	0.050422277
Los Angele	2022 Annual	LDA	0.001380137	7.24E-05	0	0	7.24E-05	5.82E-05	4.58E-04	5.89E-04	8.82E-05
Los Angele	2022 Annual	LDT1	0.011551769	6.82E-05	0	8.70E-06	7.69E-05	5.13E-04	0.004036531	0.004626018	0.001107583
Los Angele	2022 Annual	LDT1	0	0	0	0	0	0	0	0	0
Los Angele	2022 Annual	LDT1	0.024567957	1.45E-04	0	2.39E-05	1.69E-04	0.00108988	0.008582809	0.009841445	0.002352281
Los Angele	2022 Annual	LDT1	0	0	0	0	0	0	0	0	0
Los Angele	2022 Annual	LDT1	0.022876723	1.80E-04	0	3.47E-05	2.14E-04	0.001012095	0.00797025	0.009196756	0.002188008
Los Angele	2022 Annual	LDT1	0	0	0	0	0	0	0	0	0
Los Angele	2022 Annual	LDT1	0.0262096	2.06E-04	0	4.85E-05	2.54E-04	0.001159133	0.009128174	0.010541527	0.002504174
Los Angele	2022 Annual	LDT1	4.53E-05	4.22E-06	0	0	4.22E-06	1.82E-06	1.43E-05	2.03E-05	2.76E-06
Los Angele	2022 Annual	LDT1	0.025815507	3.02E-04	0	8.74E-05	3.90E-04	0.001135003	0.008938151	0.010462667	0.002451684
Los Angele	2022 Annual	LDT1	6.55E-05	5.96E-06	0	0	5.96E-06	2.64E-06	2.08E-05	2.94E-05	4.00E-06
Los Angele	2022 Annual	LDT1	0.026020494	4.04E-04	0	1.22E-04	5.25E-04	0.001137615	0.008958721	0.01062182	0.002457014
Los Angele	2022 Annual	LDT1	4.93E-05	4.36E-06	0	0	4.36E-06	1.99E-06	1.57E-05	2.20E-05	3.02E-06
Los Angele	2022 Annual	LDT1	0.027739826	6.37E-04	0	2.37E-04	8.74E-04	0.001197669	0.009431643	0.011503315	0.002586237
Los Angele	2022 Annual	LDT1	6.75E-05	5.80E-06	0	0	5.80E-06	2.73E-06	2.15E-05	3.01E-05	4.15E-06
Los Angele	2022 Annual	LDT1	0.02924173	8.85E-04	0	3.43E-04	0.001228214	0.001247731	0.009825883	0.012301829	0.002694041
Los Angele	2022 Annual	LDT1	6.53E-05	5.44E-06	0	0	5.44E-06	2.66E-06	2.09E-05	2.90E-05	4.03E-06
Los Angele	2022 Annual	LDT1	0.03202007	0.001198015	0	4.68E-04	0.001666142	0.001350808	0.010637618	0.013654568	0.002916822
Los Angele	2022 Annual	LDT1	6.97E-05	5.59E-06	0	0	5.59E-06	2.84E-06	2.24E-05	3.08E-05	4.31E-06
Los Angele	2022 Annual	LDT1	0.033424177	0.001426319	0	5.52E-04	0.001978035	0.001398538	0.01101349	0.014390063	0.003020326
Los Angele	2022 Annual	LDT1	8.92E-05	6.86E-06	0	0	6.86E-06	3.65E-06	2.88E-05	3.93E-05	5.54E-06
Los Angele	2022 Annual	LDT1	0.035424152	0.001634696	0	6.19E-04	0.00225395	0.001474632	0.011612726	0.015341308	0.003185109
Los Angele	2022 Annual	LDT1	6.15E-05	4.52E-06	0	0	4.52E-06	2.53E-06	1.99E-05	2.70E-05	3.83E-06
Los Angele	2022 Annual	LDT1	0.036999025	0.001771594	0	6.51E-04	0.002423045	0.001536872	0.012102868	0.016062785	0.003319236
Los Angele	2022 Annual	LDT1	6.81E-05	4.75E-06	0	0	4.75E-06	2.81E-06	2.22E-05	2.97E-05	4.26E-06
Los Angele	2022 Annual	LDT1	0.038734684	0.001856049	0	6.57E-04	0.002513337	0.001610094	0.012679493	0.016802924	0.00347794
Los Angele	2022 Annual	LDT1	8.00E-05	5.27E-06	0	0	5.27E-06	3.32E-06	2.61E-05	3.47E-05	5.03E-06
Los Angele	2022 Annual	LDT1	0.041599175	0.001994933	0	6.73E-04	0.002667729	0.001730679	0.0136291	0.018027508	0.003738867
Los Angele	2022 Annual	LDT1	7.04E-05	4.34E-06	0	0	4.34E-06	2.94E-06	2.31E-05	3.04E-05	4.45E-06
Los Angele	2022 Annual	LDT1	0.047278696	0.00226992	0	7.17E-04	0.002986743	0.001969146	0.015507027	0.020462916	0.004255079
Los Angele	2022 Annual	LDT1	5.61E-05	3.20E-06	0	0	3.20E-06	2.35E-06	1.85E-05	2.41E-05	3.56E-06
Los Angele	2022 Annual	LDT1	0.053129939	0.002555118	0	7.27E-04	0.003282039	0.00221643	0.017454391	0.02295286	0.004790682
Los Angele	2022 Annual	LDT1	5.22E-05	2.72E-06	0	0	2.72E-06	2.20E-06	1.73E-05	2.22E-05	3.33E-06
Los Angele	2022 Annual	T6 instate heavy	0.006356996	0.001938687	6.69E-06	0	0.001945375	8.94E-05	0.001664913	0.003699703	3.30E-04
Los Angele	2022 Annual	T6 instate heavy	0.006176705	0.00185415	5.74E-06	0	0.001859885	8.76E-05	0.001630626	0.003578086	3.23E-04
Los Angele	2022 Annual	T6 instate heavy	0.002273032	6.70E-04	1.91E-06	0	6.71E-04	3.25E-05	6.06E-04	0.001309583	1.20E-04

Los Angele	2022 Annual	LDA	0	0	9.59E-05	0	0.9041194	1.71E-05	1.61E-04	5.24E-04	1.04E-05	9.87E-05	9.54E-06	3.91E-05	6.68E-06
Los Angele	2022 Annual	LDA	0	0.001031105	0.024584622	262.2307	0	1.68E-04	1.92E-03	1.58E-04	3.59E-06	9.87E-05	3.33E-06	3.91E-05	8.55E-06
Los Angele	2022 Annual	LDA	0	0	9.43E-05	0	0.8890908	1.66E-05	1.55E-04	5.07E-04	1.00E-05	9.87E-05	9.24E-06	3.91E-05	6.68E-06
Los Angele	2022 Annual	LDA	0	0.00109172	0.026750925	285.3375	0	1.52E-04	1.86E-03	1.56E-04	4.83E-06	9.87E-05	4.48E-06	3.91E-05	8.54E-06
Los Angele	2022 Annual	LDA	0	0	8.75E-05	0	0.8249569	1.59E-05	1.49E-04	4.90E-04	9.70E-06	9.87E-05	8.93E-06	3.91E-05	6.68E-06
Los Angele	2022 Annual	LDA	0	0.00116105	0.029372944	313.3051	0	1.33E-04	1.80E-03	1.52E-04	6.03E-06	9.87E-05	5.59E-06	3.91E-05	8.53E-06
Los Angele	2022 Annual	LDA	0	0	9.11E-05	0	0.8588356	1.53E-05	1.43E-04	4.71E-04	9.34E-06	9.87E-05	8.59E-06	3.91E-05	6.68E-06
Los Angele	2022 Annual	LDA	0	0.001196222	0.031392885	334.8507	0	1.12E-04	1.71E-03	1.46E-04	6.88E-06	9.87E-05	6.39E-06	3.91E-05	8.52E-06
Los Angele	2022 Annual	LDA	0	0	8.38E-05	0	0.7902101	1.46E-05	1.36E-04	4.51E-04	8.95E-06	9.87E-05	8.23E-06	3.91E-05	6.68E-06
Los Angele	2022 Annual	LDA	0	0.001252567	0.034211853	364.9191	0	9.81E-05	1.59E-03	1.36E-04	7.41E-06	9.87E-05	6.87E-06	3.91E-05	8.50E-06
Los Angele	2022 Annual	LDA	0	0	8.54E-05	0	0.8053428	1.38E-05	1.29E-04	4.30E-04	8.52E-06	9.87E-05	7.84E-06	3.91E-05	6.68E-06
Los Angele	2022 Annual	LDA	0	0.001274119	0.036501433	389.3408	0	8.49E-05	1.40E-03	1.28E-04	7.61E-06	9.87E-05	7.06E-06	3.91E-05	8.49E-06
Los Angele	2022 Annual	LDA	0	0	8.31E-05	0	0.7838753	1.30E-05	1.21E-04	4.07E-04	8.07E-06	9.87E-05	7.42E-06	3.91E-05	6.68E-06
Los Angele	2022 Annual	LDA	0	0.00129016	0.039104289	417.1041	0	7.51E-05	1.26E-03	1.17E-04	7.50E-06	9.87E-05	6.96E-06	3.91E-05	8.47E-06
Los Angele	2022 Annual	LDA	0	0	8.42E-05	0	0.793846	1.22E-05	1.13E-04	3.83E-04	7.60E-06	9.87E-05	6.99E-06	3.91E-05	6.68E-06
Los Angele	2022 Annual	LDA	0	0.001306479	0.042320875	451.4135	0	6.68E-05	1.16E-03	1.08E-04	7.36E-06	9.87E-05	6.83E-06	3.91E-05	8.45E-06
Los Angele	2022 Annual	LDA	0	0	8.22E-05	0	0.7747111	1.13E-05	1.05E-04	3.57E-04	7.09E-06	9.87E-05	6.53E-06	3.91E-05	6.68E-06
Los Angele	2022 Annual	LDA	0	0.001264133	0.04467148	476.4863	0	5.87E-05	1.08E-03	9.89E-05	7.21E-06	9.87E-05	6.69E-06	3.91E-05	8.43E-06
Los Angele	2022 Annual	LDA	0	0	7.99E-05	0	0.7535831	1.03E-05	9.54E-05	3.30E-04	6.56E-06	9.87E-05	6.03E-06	3.91E-05	6.68E-06
Los Angele	2022 Annual	LDA	0	0.001279822	0.051702099	551.478	0	4.96E-05	9.91E-04	8.95E-05	6.99E-06	9.87E-05	6.48E-06	3.91E-05	8.40E-06
Los Angele	2022 Annual	LDA	0	0	8.28E-05	0	0.8313212	9.23E-06	8.53E-05	3.00E-04	5.96E-06	9.87E-05	5.49E-06	3.91E-05	6.68E-06
Los Angele	2022 Annual	LDT1	0	4.63E-05	0.001153839	12.30737	0	3.45E-04	2.39E-03	1.56E-04	7.13E-07	9.87E-05	6.62E-07	3.91E-05	9.93E-06
Los Angele	2022 Annual	LDT1	0	0	0	0	0	0	0	0	0	0	0	0	0
Los Angele	2022 Annual	LDT1	0	9.73E-05	0.002449548	26.12799	0	3.06E-04	2.16E-03	1.51E-04	7.36E-07	9.87E-05	6.83E-07	3.91E-05	9.91E-06
Los Angele	2022 Annual	LDT1	0	0	0	0	0	0	0	0	0	0	0	0	0
Los Angele	2022 Annual	LDT1	0	8.95E-05	0.002277516	24.29301	0	2.73E-04	2.11E-03	1.57E-04	1.01E-06	9.87E-05	9.34E-07	3.91E-05	9.92E-06
Los Angele	2022 Annual	LDT1	0	0	0	0	0	0	0	0	0	0	0	0	0
Los Angele	2022 Annual	LDT1	0	1.01E-04	0.002605569	27.79218	0	2.44E-04	2.05E-03	1.63E-04	1.04E-06	9.87E-05	9.67E-07	3.91E-05	9.91E-06
Los Angele	2022 Annual	LDT1	0	0	2.76E-06	0	0.025978936	2.19E-05	2.05E-04	6.73E-04	1.11E-05	9.87E-05	1.02E-05	3.91E-05	6.68E-06
Los Angele	2022 Annual	LDT1	0	9.80E-05	0.002549706	27.19632	0	2.17E-04	2.01E-03	1.61E-04	1.63E-06	9.87E-05	1.51E-06	3.91E-05	9.91E-06
Los Angele	2022 Annual	LDT1	0	0	4.00E-06	0	0.037687618	2.13E-05	1.99E-04	6.55E-04	1.08E-05	9.87E-05	9.96E-06	3.91E-05	6.68E-06
Los Angele	2022 Annual	LDT1	0	9.70E-05	0.002554051	27.24267	0	1.91E-04	1.97E-03	1.60E-04	2.20E-06	9.87E-05	2.04E-06	3.91E-05	9.90E-06
Los Angele	2022 Annual	LDT1	0	0	3.02E-06	0	0.028455172	2.06E-05	1.92E-04	6.36E-04	1.05E-05	9.87E-05	9.67E-06	3.91E-05	6.68E-06
Los Angele	2022 Annual	LDT1	0	1.01E-04	0.002686799	28.65861	0	1.72E-04	1.91E-03	1.58E-04	3.47E-06	9.87E-05	3.22E-06	3.91E-05	9.89E-06
Los Angele	2022 Annual	LDT1	0	0	4.15E-06	0	0.03908461	1.99E-05	1.85E-04	6.15E-04	1.02E-05	9.87E-05	9.36E-06	3.91E-05	6.68E-06
Los Angele	2022 Annual	LDT1	0	1.03E-04	0.002796986	29.83391	0	1.54E-04	1.86E-03	1.55E-04	4.68E-06	9.87E-05	4.34E-06	3.91E-05	9.88E-06
Los Angele	2022 Annual	LDT1	0	0	4.03E-06	0	0.037958346	1.91E-05	1.78E-04	5.93E-04	9.81E-06	9.87E-05	9.02E-06	3.91E-05	6.68E-06
Los Angele	2022 Annual	LDT1	0	1.09E-04	0.003025906	32.27568	0	1.31E-04	1.79E-03	1.51E-04	5.86E-06	9.87E-05	5.44E-06	3.91E-05	9.88E-06
Los Angele	2022 Annual	LDT1	0	0	4.31E-06	0	0.04063756	1.83E-05	1.70E-04	5.70E-04	9.42E-06	9.87E-05	8.67E-06	3.91E-05	6.68E-06
Los Angele	2022 Annual	LDT1	0	1.10E-04	0.003130409	33.39036	0	1.06E-04	1.70E-03	1.46E-04	6.72E-06	9.87E-05	6.24E-06	3.91E-05	9.87E-06
Los Angele	2022 Annual	LDT1	0	0	5.54E-06	0	0.052188016	1.74E-05	1.62E-04	5.45E-04	9.01E-06	9.87E-05	8.29E-06	3.91E-05	6.68E-06
Los Angele	2022 Annual	LDT1	0	1.13E-04	0.003297985	35.1778	0	9.25E-05	1.58E-03	1.35E-04	7.26E-06	9.87E-05	6.74E-06	3.91E-05	9.86E-06
Los Angele	2022 Annual	LDT1	0	0	3.83E-06	0	0.036134399	1.65E-05	1.53E-04	5.17E-04	8.56E-06	9.87E-05	7.88E-06	3.91E-05	6.68E-06
Los Angele	2022 Annual	LDT1	0	1.14E-04	0.003432853	36.61636	0	7.95E-05	1.38E-03	1.27E-04	7.49E-06	9.87E-05	6.95E-06	3.91E-05	9.85E-06
Los Angele	2022 Annual	LDT1	0	0	4.26E-06	0	0.040203389	1.55E-05	1.43E-04	4.89E-04	8.09E-06	9.87E-05	7.45E-06	3.91E-05	6.68E-06
Los Angele	2022 Annual	LDT1	0	1.14E-04	0.003592094	38.3149	0	6.98E-05	1.25E-03	1.16E-04	7.42E-06	9.87E-05	6.88E-06	3.91E-05	9.84E-06
Los Angele	2022 Annual	LDT1	0	0	5.03E-06	0	0.047443237	1.45E-05	1.34E-04	4.59E-04	7.61E-06	9.87E-05	7.00E-06	3.91E-05	6.68E-06
Los Angele	2022 Annual	LDT1	0	1.17E-04	0.003855606	41.12564	0	6.20E-05	1.16E-03	1.07E-04	7.33E-06	9.87E-05	6.80E-06	3.91E-05	9.82E-06
Los Angele	2022 Annual	LDT1	0	0	4.45E-06	0	0.041971948	1.34E-05	1.23E-04	4.27E-04	7.08E-06	9.87E-05	6.52E-06	3.91E-05	6.68E-06
Los Angele	2022 Annual	LDT1	0	1.24E-04	0.004379359	46.71223	0	5.46E-05	1.07E-03	9.84E-05	7.21E-06	9.87E-05	6.69E-06	3.91E-05	9.81E-06
Los Angele	2022 Annual	LDT1	0	0	3.56E-06	0	0.033585604	1.22E-05	1.12E-04	3.94E-04	6.53E-06	9.87E-05	6.01E-06	3.91E-05	6.68E-06
Los Angele	2022 Annual	LDT1	0	1.26E-04	0.004916627	52.44297	0	4.65E-05	9.92E-04	8.93E-05	7.04E-06	9.87E-05	6.53E-06	3.91E-05	9.78E-06
Los Angele	2022 Annual	LDT1	0	0	3.33E-06	0	0.031423017	1.09E-05	9.99E-05	3.58E-04	5.94E-06	9.87E-05	5.46E-06	3.91E-05	6.68E-06
Los Angele	2022 Annual	T6 instate heavy	5.87E-06	0	3.36E-04	0	3.166120325	5.42E-04	2.38E-03	1.15E-02	1.56E-04	3.14E-04	1.44E-04	1.30E-04	2.48E-05
Los Angele	2022 Annual	T6 instate heavy	5.03E-06	0	3.28E-04	0	3.094170529	5.28E-04	2.31E-03	1.06E-02	1.53E-04	3.14E-04	1.40E-04	1.30E-04	2.48E-05
Los Angele	2022 Annual	T6 instate heavy	1.68E-06	0	1.22E-04	0	1.14735318	5.12E-04	2.23E-03	9.35E-03	1.48E-04	3.14E-04	1.37E-04	1.30E-04	2.47E-05

Los Angele	2022 Annual	LDA	2.35E-04
Los Angele	2022 Annual	LDA	2.79E-04
Los Angele	2022 Annual	LDA	2.29E-04
Los Angele	2022 Annual	LDA	2.73E-04
Los Angele	2022 Annual	LDA	2.24E-04
Los Angele	2022 Annual	LDA	2.62E-04
Los Angele	2022 Annual	LDA	2.15E-04
Los Angele	2022 Annual	LDA	2.51E-04
Los Angele	2022 Annual	LDA	2.07E-04
Los Angele	2022 Annual	LDA	2.51E-04
Los Angele	2022 Annual	LDA	2.07E-04
Los Angele	2022 Annual	LDA	2.51E-04
Los Angele	2022 Annual	LDA	2.07E-04
Los Angele	2022 Annual	LDA	2.50E-04
Los Angele	2022 Annual	LDA	2.07E-04
Los Angele	2022 Annual	LDA	2.50E-04
Los Angele	2022 Annual	LDA	2.07E-04
Los Angele	2022 Annual	LDA	2.49E-04
Los Angele	2022 Annual	LDA	2.07E-04
Los Angele	2022 Annual	LDA	2.48E-04
Los Angele	2022 Annual	LDA	2.07E-04
Los Angele	2022 Annual	LDT1	4.46E-04
Los Angele	2022 Annual	LDT1	
Los Angele	2022 Annual	LDT1	4.45E-04
Los Angele	2022 Annual	LDT1	
Los Angele	2022 Annual	LDT1	4.46E-04
Los Angele	2022 Annual	LDT1	
Los Angele	2022 Annual	LDT1	4.30E-04
Los Angele	2022 Annual	LDT1	3.04E-04
Los Angele	2022 Annual	LDT1	3.81E-04
Los Angele	2022 Annual	LDT1	2.70E-04
Los Angele	2022 Annual	LDT1	3.32E-04
Los Angele	2022 Annual	LDT1	2.35E-04
Los Angele	2022 Annual	LDT1	3.24E-04
Los Angele	2022 Annual	LDT1	2.29E-04
Los Angele	2022 Annual	LDT1	3.16E-04
Los Angele	2022 Annual	LDT1	2.24E-04
Los Angele	2022 Annual	LDT1	3.03E-04
Los Angele	2022 Annual	LDT1	2.15E-04
Los Angele	2022 Annual	LDT1	2.91E-04
Los Angele	2022 Annual	LDT1	2.07E-04
Los Angele	2022 Annual	LDT1	2.91E-04
Los Angele	2022 Annual	LDT1	2.07E-04
Los Angele	2022 Annual	LDT1	2.91E-04
Los Angele	2022 Annual	LDT1	2.07E-04
Los Angele	2022 Annual	LDT1	2.91E-04
Los Angele	2022 Annual	LDT1	2.07E-04
Los Angele	2022 Annual	LDT1	2.90E-04
Los Angele	2022 Annual	LDT1	2.07E-04
Los Angele	2022 Annual	LDT1	2.90E-04
Los Angele	2022 Annual	LDT1	2.07E-04
Los Angele	2022 Annual	LDT1	2.89E-04
Los Angele	2022 Annual	LDT1	2.07E-04
Los Angele	2022 Annual	T6 instate heavy	1.17E-03
Los Angele	2022 Annual	T6 instate heavy	1.17E-03
Los Angele	2022 Annual	T6 instate heavy	1.17E-03

Los Angele	2022 Annual	T6 instate heavy	DSL	2010 AllSpeeds	457.5300073	18330.20173	0	0.002691791	1.06E-04	0	0.002797656
Los Angele	2022 Annual	T6 instate heavy	DSL	2011 AllSpeeds	387.8467309	19443.02386	0	0.002769987	8.97E-05	0	0.002859729
Los Angele	2022 Annual	T6 instate heavy	DSL	2012 AllSpeeds	381.3672397	21575.58807	0	0.00297276	8.82E-05	0	0.003061003
Los Angele	2022 Annual	T6 instate heavy	DSL	2013 AllSpeeds	669.4335251	33328.17879	0	0.003652847	1.55E-04	0	0.003807743
Los Angele	2022 Annual	T6 instate heavy	DSL	2014 AllSpeeds	1086.605128	47523.40896	0	0.005044856	2.51E-04	0	0.005296279
Los Angele	2022 Annual	T6 instate heavy	DSL	2015 AllSpeeds	1384.729557	62002.80525	0	0.00635466	3.20E-04	0	0.006675065
Los Angele	2022 Annual	T6 instate heavy	DSL	2016 AllSpeeds	1045.882835	54353.16539	0	0.005358863	2.42E-04	0	0.005600864
Los Angele	2022 Annual	T6 instate heavy	DSL	2017 AllSpeeds	1143.016953	63294.9286	0	0.005978756	2.64E-04	0	0.006243232
Los Angele	2022 Annual	T6 instate heavy	DSL	2018 AllSpeeds	573.1865086	45809.42132	0	0.004127015	1.33E-04	0	0.004259641
Los Angele	2022 Annual	T6 instate heavy	DSL	2019 AllSpeeds	587.68834	48645.78148	0	0.004159848	1.36E-04	0	0.00429583
Los Angele	2022 Annual	T6 instate heavy	DSL	2020 AllSpeeds	613.2796281	51735.06637	0	0.0041787	1.42E-04	0	0.004320603
Los Angele	2022 Annual	T6 instate heavy	DSL	2021 AllSpeeds	657.6827118	55253.2554	0	0.004195947	1.52E-04	0	0.004348124
Los Angele	2022 Annual	T6 instate heavy	DSL	2022 AllSpeeds	579.8285227	48722.38258	0	0.003465633	1.34E-04	0	0.003599796
Los Angele	2022 Annual	T6 instate heavy	DSL	2023 AllSpeeds	144.4812375	5067.498005	0	3.36E-04	3.34E-05	0	3.70E-04
Los Angele	2022 Annual	LDA/LDT1	GAS&DSL >2007	AllSpeeds	3425461.267	119198539.7	21909734.8	1.288137638	0	1.100628289	2.388765927
Los Angele	2022 Annual	T6 instate heavy	DSL >2007	AllSpeeds	11316.1726	638440.7338	0	0.07175839	0.002618385	0	0.074376774

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Area	CalYr	Season	Veh	Fuel	MdlYr	Speed (Miles/hr)	Pop (Vehicles)	VMT (Miles/day)	Trips (Trips/day)	ROG_RUNEX (Tons/day)	ROG_IDLEX (Tons/day)	ROG_STREX (Tons/day)	ROG_TOTEX (Tons/day)
Los Angele	2023 Annual	LDA	GAS	2007 AllSpeeds			96555.84	2355159.255	583138.9	0.033885696	0	0.039051395	0.072937091
Los Angele	2023 Annual	LDA	DSL	2007 AllSpeeds			0	0	0	0	0	0	0
Los Angele	2023 Annual	LDA	GAS	2008 AllSpeeds			110302.4	2755636.051	670571.5	0.036920013	0	0.04021043	0.077130443
Los Angele	2023 Annual	LDA	DSL	2008 AllSpeeds			17.50154	437.2384688	106.3988	4.27E-06	0	0	4.27E-06
Los Angele	2023 Annual	LDA	GAS	2009 AllSpeeds			104808.4	2684864.475	642411.4	0.036647576	0	0.03911946	0.075767036
Los Angele	2023 Annual	LDA	DSL	2009 AllSpeeds			596.0089	15267.9078	3653.169	1.46E-04	0	0	1.46E-04
Los Angele	2023 Annual	LDA	GAS	2010 AllSpeeds			145232.2	3818344.014	895992.9	0.052252855	0	0.054234453	0.106487308
Los Angele	2023 Annual	LDA	DSL	2010 AllSpeeds			1104.149	29029.56308	6811.916	2.71E-04	0	0	2.71E-04
Los Angele	2023 Annual	LDA	GAS	2011 AllSpeeds			156032.8	4215188.056	970426.8	0.056849025	0	0.057973105	0.11482213
Los Angele	2023 Annual	LDA	DSL	2011 AllSpeeds			1032.875	27902.90755	6423.838	2.54E-04	0	0	2.54E-04
Los Angele	2023 Annual	LDA	GAS	2012 AllSpeeds			173881	4833661.313	1088386	0.064158549	0	0.064076774	0.128235323
Los Angele	2023 Annual	LDA	DSL	2012 AllSpeeds			982.3762	27308.80466	6149.061	2.42E-04	0	0	2.42E-04
Los Angele	2023 Annual	LDA	GAS	2013 AllSpeeds			182084.1	5216517.259	1148836	0.068056429	0	0.066541851	0.13459828
Los Angele	2023 Annual	LDA	DSL	2013 AllSpeeds			929.8704	26639.85503	5866.895	2.28E-04	0	0	2.28E-04
Los Angele	2023 Annual	LDA	GAS	2014 AllSpeeds			194460.5	5752675.088	1234701	0.073501748	0	0.070113637	0.143615385
Los Angele	2023 Annual	LDA	DSL	2014 AllSpeeds			836.147	24735.57505	5309.003	2.05E-04	0	0	2.05E-04
Los Angele	2023 Annual	LDA	GAS	2015 AllSpeeds			207041.7	6338488.892	1322864	0.079145451	0	0.073466159	0.15261161
Los Angele	2023 Annual	LDA	DSL	2015 AllSpeeds			807.0232	24706.71706	5156.362	1.97E-04	0	0	1.97E-04
Los Angele	2023 Annual	LDA	GAS	2016 AllSpeeds			215977.9	6861690.078	1386440	0.083371873	0	0.074963942	0.158335815
Los Angele	2023 Annual	LDA	DSL	2016 AllSpeeds			758.2899	24091.18785	4867.733	1.84E-04	0	0	1.84E-04
Los Angele	2023 Annual	LDA	GAS	2017 AllSpeeds			224910.1	7438464.078	1448276	0.087673068	0	0.07599362	0.163666688
Los Angele	2023 Annual	LDA	DSL	2017 AllSpeeds			739.0627	24443.13405	4759.088	1.78E-04	0	0	1.78E-04
Los Angele	2023 Annual	LDA	GAS	2018 AllSpeeds			233072.2	8060406.989	1507826	0.090076472	0	0.075576022	0.165652494
Los Angele	2023 Annual	LDA	DSL	2018 AllSpeeds			684.072	23657.54533	4425.503	1.63E-04	0	0	1.63E-04
Los Angele	2023 Annual	LDA	GAS	2019 AllSpeeds			238009.5	8655782.744	1544527	0.086881602	0	0.071352042	0.158233644
Los Angele	2023 Annual	LDA	DSL	2019 AllSpeeds			653.5639	23768.49018	4241.205	1.55E-04	0	0	1.55E-04
Los Angele	2023 Annual	LDA	GAS	2020 AllSpeeds			239997.4	9251698.656	1559827	0.086590839	0	0.067601085	0.154191924
Los Angele	2023 Annual	LDA	DSL	2020 AllSpeeds			590.3914	22759.17896	3837.16	1.38E-04	0	0	1.38E-04
Los Angele	2023 Annual	LDA	GAS	2021 AllSpeeds			229388	9488652.793	1495460	0.084117401	0	0.061052516	0.145169917
Los Angele	2023 Annual	LDA	DSL	2021 AllSpeeds			527.5645	21822.82222	3439.376	1.23E-04	0	0	1.23E-04
Los Angele	2023 Annual	LDA	GAS	2022 AllSpeeds			236051.5	1.07E+07	1543622	0.088997426	0	0.05855599	0.147553416

Los Angele	2022 Annual	T6 instate heavy	0	0	0	0	0.002797656	0.003064399	1.21E-04	0	0.003184918
Los Angele	2022 Annual	T6 instate heavy	0	0	0	0	0.002859729	0.003153419	1.02E-04	0	0.003255583
Los Angele	2022 Annual	T6 instate heavy	0	0	0	0	0.003061003	0.003384261	1.00E-04	0	0.003484718
Los Angele	2022 Annual	T6 instate heavy	0	0	0	0	0.003807743	0.004158488	1.76E-04	0	0.004334826
Los Angele	2022 Annual	T6 instate heavy	0	0	0	0	0.005296279	0.005743184	2.86E-04	0	0.006029411
Los Angele	2022 Annual	T6 instate heavy	0	0	0	0	0.006675065	0.007234297	3.65E-04	0	0.007599053
Los Angele	2022 Annual	T6 instate heavy	0	0	0	0	0.005600864	0.006100657	2.75E-04	0	0.006376157
Los Angele	2022 Annual	T6 instate heavy	0	0	0	0	0.006243232	0.006806359	3.01E-04	0	0.007107445
Los Angele	2022 Annual	T6 instate heavy	0	0	0	0	0.004259641	0.004698292	1.51E-04	0	0.004849277
Los Angele	2022 Annual	T6 instate heavy	0	0	0	0	0.00429583	0.00473567	1.55E-04	0	0.004890475
Los Angele	2022 Annual	T6 instate heavy	0	0	0	0	0.004320603	0.004757132	1.62E-04	0	0.004918678
Los Angele	2022 Annual	T6 instate heavy	0	0	0	0	0.004348124	0.004776766	1.73E-04	0	0.004950008
Los Angele	2022 Annual	T6 instate heavy	0	0	0	0	0.003599796	0.00394536	1.53E-04	0	0.004098094
Los Angele	2022 Annual	T6 instate heavy	0	0	0	0	3.70E-04	3.83E-04	3.81E-05	0	4.21E-04
Los Angele	2022 Annual	LDA/LDT1	0.277803077	0.87375181	3.498447956	0.302887768	7.341656537	2.395371261	0	1.175131566	3.570502827
Los Angele	2022 Annual	T6 instate heavy	0	0	0	0	0.074376774	0.081691464	0.002980832	0	0.084672296

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Area	CalYr	Season	Veh	ROG_DIURN (Tons/day)	ROG_HTSK (Tons/day)	ROG_RUNLS (Tons/day)	ROG_RESTL (Tons/day)	ROG_TOTAL (Tons/day)	TOG_RUNEX (Tons/day)	TOG_IDLEX (Tons/day)	TOG_STREX (Tons/day)	TOG_TOTEX (Tons/day)
Los Angele	2023 Annual	LDA		0.022153959	0.085327536	0.1805754	0.027711162	0.388705148	0.063065571	0	0.04169485	0.104760421
Los Angele	2023 Annual	LDA		0	0	0	0	0	0	0	0	0
Los Angele	2023 Annual	LDA		0.022712462	0.087016746	0.1940871	0.028176486	0.409123237	0.068712823	0	0.042932335	0.111645158
Los Angele	2023 Annual	LDA		0	0	0	0	4.27E-06	4.86E-06	0	0	4.86E-06
Los Angele	2023 Annual	LDA		0.019127687	0.072797477	0.1731799	0.023487093	0.364359193	0.06820578	0	0.041767519	0.109973299
Los Angele	2023 Annual	LDA		0	0	0	0	1.46E-04	1.66E-04	0	0	1.66E-04
Los Angele	2023 Annual	LDA		0.023435472	0.088242263	0.2248816	0.028437918	0.471484561	0.097249179	0	0.05790567	0.155154849
Los Angele	2023 Annual	LDA		0	0	0	0	2.71E-04	3.09E-04	0	0	3.09E-04
Los Angele	2023 Annual	LDA		0.022089554	0.082104675	0.2264515	0.026422041	0.4718899	0.105803237	0	0.061897397	0.167700634
Los Angele	2023 Annual	LDA		0	0	0	0	2.54E-04	2.89E-04	0	0	2.89E-04
Los Angele	2023 Annual	LDA		0.02117967	0.077079281	0.2348068	0.024864066	0.48616514	0.119407184	0	0.068414234	0.187821418
Los Angele	2023 Annual	LDA		0	0	0	0	2.42E-04	2.75E-04	0	0	2.75E-04
Los Angele	2023 Annual	LDA		0.019873476	0.070953116	0.2333311	0.02291167	0.481667642	0.126661626	0	0.071046181	0.197707807
Los Angele	2023 Annual	LDA		0	0	0	0	2.28E-04	2.60E-04	0	0	2.60E-04
Los Angele	2023 Annual	LDA		0.018759957	0.065064579	0.2351183	0.021131555	0.483689776	0.136796062	0	0.074859738	0.2116558
Los Angele	2023 Annual	LDA		0	0	0	0	2.05E-04	2.33E-04	0	0	2.33E-04
Los Angele	2023 Annual	LDA		0.01690227	0.055932503	0.2326442	0.018396879	0.476487462	0.147299696	0	0.078439198	0.225738894
Los Angele	2023 Annual	LDA		0	0	0	0	1.97E-04	2.24E-04	0	0	2.24E-04
Los Angele	2023 Annual	LDA		0.0149149	0.046251796	0.2202312	0.01561067	0.455344381	0.1551656	0	0.080038376	0.235203976
Los Angele	2023 Annual	LDA		0	0	0	0	1.84E-04	2.09E-04	0	0	2.09E-04
Los Angele	2023 Annual	LDA		0.012556567	0.034947071	0.19146	0.012542227	0.415172553	0.163170682	0	0.081137754	0.244308436
Los Angele	2023 Annual	LDA		0	0	0	0	1.78E-04	2.03E-04	0	0	2.03E-04
Los Angele	2023 Annual	LDA		0.010567234	0.025568567	0.1817256	0.009734528	0.393248423	0.167643727	0	0.080691881	0.248335608
Los Angele	2023 Annual	LDA		0	0	0	0	1.63E-04	1.86E-04	0	0	1.86E-04
Los Angele	2023 Annual	LDA		0.00926024	0.019199686	0.1728799	0.007865207	0.367438677	0.161697662	0	0.076181978	0.23787964
Los Angele	2023 Annual	LDA		0	0	0	0	1.55E-04	1.76E-04	0	0	1.76E-04
Los Angele	2023 Annual	LDA		0.008277793	0.014515118	0.1638239	0.006493942	0.347302677	0.161156509	0	0.072177097	0.233333606
Los Angele	2023 Annual	LDA		0	0	0	0	1.38E-04	1.57E-04	0	0	1.57E-04
Los Angele	2023 Annual	LDA		0.007226244	0.010735719	0.1484865	0.005277159	0.316895539	0.156553136	0	0.065185249	0.221738385
Los Angele	2023 Annual	LDA		0	0	0	0	1.23E-04	1.40E-04	0	0	1.40E-04
Los Angele	2023 Annual	LDA		0.006963084	0.008869399	0.1460062	0.004788989	0.314181088	0.165635485	0	0.062519751	0.228155236

Los Angele	2022 Annual	T6 instate heavy	0	0	0	0	0.003184918	0.011326866	0.001251864	0	0.012578729
Los Angele	2022 Annual	T6 instate heavy	0	0	0	0	0.003255583	0.011655911	0.001061201	0	0.012717111
Los Angele	2022 Annual	T6 instate heavy	0	0	0	0	0.003484718	0.012509166	0.001043472	0	0.013552638
Los Angele	2022 Annual	T6 instate heavy	0	0	0	0	0.004334826	0.015370923	0.00183166	0	0.017202583
Los Angele	2022 Annual	T6 instate heavy	0	0	0	0	0.006029411	0.0212284	0.002973098	0	0.024201497
Los Angele	2022 Annual	T6 instate heavy	0	0	0	0	0.007599053	0.026739964	0.003788806	0	0.030528771
Los Angele	2022 Annual	T6 instate heavy	0	0	0	0	0.006376157	0.022549718	0.002861676	0	0.025411394
Los Angele	2022 Annual	T6 instate heavy	0	0	0	0	0.007107445	0.025158187	0.003127448	0	0.028285635
Los Angele	2022 Annual	T6 instate heavy	0	0	0	0	0.004849277	0.017366188	0.001568315	0	0.018934503
Los Angele	2022 Annual	T6 instate heavy	0	0	0	0	0.004890475	0.017504348	0.001607994	0	0.019112343
Los Angele	2022 Annual	T6 instate heavy	0	0	0	0	0.004918678	0.017583676	0.001678016	0	0.019261692
Los Angele	2022 Annual	T6 instate heavy	0	0	0	0	0.004950008	0.01765625	0.001799508	0	0.019455758
Los Angele	2022 Annual	T6 instate heavy	0	0	0	0	0.004098094	0.014583141	0.001586489	0	0.01616963
Los Angele	2022 Annual	T6 instate heavy	0	0	0	0	4.21E-04	0.001414189	3.95E-04	0	0.00180951
Los Angele	2022 Annual	LDA/LDT1	0.277803077	0.87375181	3.498447956	0.302887768	8.523393437	73.94894164	0	18.69213545	92.64107709
Los Angele	2022 Annual	T6 instate heavy	0	0	0	0	0.084672296	0.301954267	0.030962571	0	0.332916838

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Los Angele	2023 Annual	LDA		0.022153959	0.085327536	0.1805754	0.027711162	0.420528478	2.094671002	0	0.743372	2.838043002
Los Angele	2023 Annual	LDA		0	0	0	0	0	0	0	0	0
Los Angele	2023 Annual	LDA		0.022712462	0.087016746	0.1940871	0.028176486	0.443637952	2.249719392	0	0.7636748	3.013394192
Los Angele	2023 Annual	LDA		0	0	0	0	4.86E-06	4.01E-05	0	0	4.01E-05
Los Angele	2023 Annual	LDA		0.019127687	0.072797477	0.1731799	0.023487093	0.398565456	2.171302311	0	0.7181493	2.889451611
Los Angele	2023 Annual	LDA		0	0	0	0	1.66E-04	0.001371124	0	0	0.001371124
Los Angele	2023 Annual	LDA		0.023435472	0.088242263	0.2248816	0.028437918	0.520152102	3.013454455	0	0.9646758	3.978130255
Los Angele	2023 Annual	LDA		0	0	0	0	3.09E-04	0.002546385	0	0	0.002546385
Los Angele	2023 Annual	LDA		0.022089554	0.082104675	0.2264515	0.026422041	0.524768404	3.297923641	0	1.034749	4.332672641
Los Angele	2023 Annual	LDA		0	0	0	0	2.89E-04	0.002384297	0	0	0.002384297
Los Angele	2023 Annual	LDA		0.02117967	0.077079281	0.2348068	0.024864066	0.545751235	3.731647644	0	1.142941	4.874588644
Los Angele	2023 Annual	LDA		0	0	0	0	2.75E-04	0.002266529	0	0	0.002266529
Los Angele	2023 Annual	LDA		0.019873476	0.070953116	0.2333311	0.02291167	0.544777169	3.961263122	0	1.183635	5.144898122
Los Angele	2023 Annual	LDA		0	0	0	0	2.60E-04	0.002141182	0	0	0.002141182
Los Angele	2023 Annual	LDA		0.018759957	0.065064579	0.2351183	0.021131555	0.551730191	4.287302139	0	1.244677	5.531979139
Los Angele	2023 Annual	LDA		0	0	0	0	2.33E-04	0.001918835	0	0	0.001918835
Los Angele	2023 Annual	LDA		0.01690227	0.055932503	0.2326442	0.018396879	0.549614746	4.61319965	0	1.296821	5.91002065
Los Angele	2023 Annual	LDA		0	0	0	0	2.24E-04	0.001843735	0	0	0.001843735
Los Angele	2023 Annual	LDA		0.0149149	0.046251796	0.2202312	0.01561067	0.532212542	4.857314476	0	1.313955	6.171269476
Los Angele	2023 Annual	LDA		0	0	0	0	2.09E-04	0.001722382	0	0	0.001722382
Los Angele	2023 Annual	LDA		0.012556567	0.034947071	0.19146	0.012542227	0.495814301	5.067091485	0	1.310656	6.377747485
Los Angele	2023 Annual	LDA		0	0	0	0	2.03E-04	0.001666324	0	0	0.001666324
Los Angele	2023 Annual	LDA		0.010567234	0.025568567	0.1817256	0.009734528	0.475931537	5.142275129	0	1.261848	6.404123129
Los Angele	2023 Annual	LDA		0	0	0	0	1.86E-04	0.001525773	0	0	0.001525773
Los Angele	2023 Annual	LDA		0.00926024	0.019199686	0.1728799	0.007865207	0.447084673	4.920855723	0	1.121246	6.042101723
Los Angele	2023 Annual	LDA		0	0	0	0	1.76E-04	0.001441532	0	0	0.001441532
Los Angele	2023 Annual	LDA		0.008277793	0.014515118	0.1638239	0.006493942	0.426444359	4.824706683	0	1.017218	5.841924683
Los Angele	2023 Annual	LDA		0	0	0	0	1.57E-04	0.00128829	0	0	0.00128829
Los Angele	2023 Annual	LDA		0.007226244	0.010735719	0.1484865	0.005277159	0.393464007	4.623252638	0	0.8986476	5.521900238
Los Angele	2023 Annual	LDA		0	0	0	0	1.40E-04	0.001141751	0	0	0.001141751
Los Angele	2023 Annual	LDA		0.006963084	0.008869399	0.1460062	0.004788989	0.394782908	4.891375372	0	0.8622732	5.753648572

Los Angele	2022 Annual	T6 instate heavy	0.037998394	0.001891309	0	0.039889703	22.64882689	0.376131105	0	23.024958	20.3839442
Los Angele	2022 Annual	T6 instate heavy	0.036599831	0.001603257	0	0.038203088	24.02383171	0.31884514	0	24.34267685	21.62144854
Los Angele	2022 Annual	T6 instate heavy	0.035299616	0.001576472	0	0.036876088	26.65883151	0.313518412	0	26.97234992	23.99294836
Los Angele	2022 Annual	T6 instate heavy	0.044275771	0.002767263	0	0.047043034	41.08557519	0.550334989	0	41.63591017	36.97701767
Los Angele	2022 Annual	T6 instate heavy	0.060164997	0.004491741	0	0.064656737	58.5848571	0.89328783	0	59.47814493	52.72637139
Los Angele	2022 Annual	T6 instate heavy	0.074377559	0.005724109	0	0.080101668	76.43444705	1.138373111	0	77.57282016	68.79100234
Los Angele	2022 Annual	T6 instate heavy	0.061363093	0.004323405	0	0.065686499	67.0042932	0.859810416	0	67.86410361	60.30386388
Los Angele	2022 Annual	T6 instate heavy	0.066715359	0.004724932	0	0.071440291	78.0273223	0.939663459	0	78.96698576	70.22459007
Los Angele	2022 Annual	T6 instate heavy	0.044658956	0.002369403	0	0.047028359	56.47192533	0.471211224	0	56.94313655	50.82473279
Los Angele	2022 Annual	T6 instate heavy	0.043388283	0.002429349	0	0.045817633	59.96847068	0.483133043	0	60.45160372	53.97162361
Los Angele	2022 Annual	T6 instate heavy	0.04169787	0.002535137	0	0.044233007	63.77681099	0.504171399	0	64.28098238	57.39912989
Los Angele	2022 Annual	T6 instate heavy	0.039696242	0.002718688	0	0.04241493	68.11388625	0.540674756	0	68.654561	61.30249762
Los Angele	2022 Annual	T6 instate heavy	0.030757078	0.002396859	0	0.033153937	60.06290129	0.476671561	0	60.53957285	54.05661116
Los Angele	2022 Annual	T6 instate heavy	0.002757238	5.97E-04	0	0.003354486	6.246998121	0.118776663	0	6.365774784	5.622298309
Los Angele	2022 Annual	LDA/LDT1	6.784120038	0	1.125501169	7.909621207	49421.44289	0	1811.010878	51232.45377	32120.38137
Los Angele	2022 Annual	T6 instate heavy	0.954218568	0.04677809	0	1.000996658	790.0978178	9.302918792	0	799.4007366	711.0880361

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Area	CalYr	Season	Veh	NOX_RUNEX (Tons/day)	NOX_IDLEX (Tons/day)	NOX_STREX (Tons/day)	NOX_TOTEX (Tons/day)	CO2_RUNEX (Tons/day)	CO2_IDLEX (Tons/day)	CO2_STREX (Tons/day)	CO2_TOTEX (Tons/day)	CO2_RUNEX(Pavh) (Tons/day)
Los Angele	2023 Annual	LDA		0.151119267	0	0.035111353	0.18623062	960.8605427	0	47.64507	1008.505613	864.7744884
Los Angele	2023 Annual	LDA		0	0	0	0	0	0	0	0	0
Los Angele	2023 Annual	LDA		0.17215983	0	0.038857862	0.211017692	1124.547668	0	54.80339	1179.351058	1012.092901
Los Angele	2023 Annual	LDA		1.29E-04	0	0	1.29E-04	0.153076155	0	0	0.153076155	0.137768539
Los Angele	2023 Annual	LDA		0.175541437	0	0.03970382	0.215245257	1098.140871	0	52.62107	1150.761941	988.3267841
Los Angele	2023 Annual	LDA		0.004424115	0	0	0.004424115	5.345258147	0	0	5.345258147	4.810732332
Los Angele	2023 Annual	LDA		0.25781689	0	0.057947986	0.315764876	1561.652405	0	73.38792	1635.040325	1356.295114
Los Angele	2023 Annual	LDA		0.008232236	0	0	0.008232236	10.16318074	0	0	10.16318074	8.826722469
Los Angele	2023 Annual	LDA		0.28343609	0	0.062368758	0.345804848	1723.988497	0	79.48606	1803.474557	1328.160738
Los Angele	2023 Annual	LDA		0.007725305	0	0	0.007725305	9.768740733	0	0	9.768740733	7.525837861
Los Angele	2023 Annual	LDA		0.323270783	0	0.069378853	0.392649636	1976.859243	0	89.14422	2066.003463	1329.042469
Los Angele	2023 Annual	LDA		0.007362301	0	0	0.007362301	9.560748106	0	0	9.560748106	6.427690952
Los Angele	2023 Annual	LDA		0.346451843	0	0.072459608	0.418911451	2133.36553	0	94.09209	2227.45762	1397.781095
Los Angele	2023 Annual	LDA		0.006975068	0	0	0.006975068	9.32655038	0	0	9.32655038	6.110755809
Los Angele	2023 Annual	LDA		0.378612586	0	0.076804213	0.455416799	2352.548786	0	101.1209	2453.669686	1507.513262
Los Angele	2023 Annual	LDA		0.006271177	0	0	0.006271177	8.659865828	0	0	8.659865828	5.549242023
Los Angele	2023 Annual	LDA		0.412281233	0	0.080818988	0.493100221	2591.945651	0	108.3342	2700.279851	1593.268992
Los Angele	2023 Annual	LDA		0.006047982	0	0	0.006047982	8.649763214	0	0	8.649763214	5.317009448
Los Angele	2023 Annual	LDA		0.439279406	0	0.082652554	0.52193196	2806.594581	0	113.5335	2920.128081	1659.539376
Los Angele	2023 Annual	LDA		0.005673847	0	0	0.005673847	8.43426735	0	0	8.43426735	4.987182284
Los Angele	2023 Annual	LDA		0.461474555	0	0.08249823	0.543972785	3043.350531	0	118.5929	3161.943431	1799.533169
Los Angele	2023 Annual	LDA		0.005516092	0	0	0.005516092	8.557482325	0	0	8.557482325	5.060039299
Los Angele	2023 Annual	LDA		0.468863207	0	0.078565694	0.547428901	3298.670117	0	123.4629	3422.133017	1950.50364
Los Angele	2023 Annual	LDA		0.005081049	0	0	0.005081049	8.282449343	0	0	8.282449343	4.897412296
Los Angele	2023 Annual	LDA		0.477924264	0	0.074194774	0.552119038	3543.255654	0	126.4617	3669.717354	2095.127068
Los Angele	2023 Annual	LDA		0.004834086	0	0	0.004834086	8.321291479	0	0	8.321291479	4.920379652
Los Angele	2023 Annual	LDA		0.474567736	0	0.066515736	0.541083472	3788.319466	0	127.7125	3916.031966	2240.0333
Los Angele	2023 Annual	LDA		0.004356141	0	0	0.004356141	7.967933392	0	0	7.967933392	4.711439015
Los Angele	2023 Annual	LDA		0.455501942	0	0.056697447	0.512199389	3886.591467	0	122.4434	4009.034867	2298.141534
Los Angele	2023 Annual	LDA		0.003899784	0	0	0.003899784	7.640117156	0	0	7.640117156	4.517601274
Los Angele	2023 Annual	LDA		0.478182511	0	0.051097374	0.529279885	4384.584588	0	126.3866	4510.971188	2592.604867

Los Angele	2022 Annual	T6 instate heavy	0.338517994	0	20.7224622	0.00131356	4.45E-06	0	0.001318005	2.42E-04	0.002633596
Los Angele	2022 Annual	T6 instate heavy	0.286960626	0	21.90840917	0.001344315	3.77E-06	0	0.001348084	2.57E-04	0.002793481
Los Angele	2022 Annual	T6 instate heavy	0.282166657	0	24.27511493	0.001433676	3.71E-06	0	0.001437381	2.85E-04	0.003099878
Los Angele	2022 Annual	T6 instate heavy	0.49530149	0	37.47231916	0.001701781	6.50E-06	0	0.001708285	4.41E-04	0.004788435
Los Angele	2022 Annual	T6 instate heavy	0.803959047	0	53.53033044	0.002329357	1.06E-05	0	0.002339914	6.29E-04	0.006827938
Los Angele	2022 Annual	T6 instate heavy	1.0245358	0	69.81553814	0.002904155	1.35E-05	0	0.002917608	8.20E-04	0.008908269
Los Angele	2022 Annual	T6 instate heavy	0.773829375	0	61.07769325	0.002420128	1.02E-05	0	0.002430289	7.19E-04	0.007809205
Los Angele	2022 Annual	T6 instate heavy	0.845697113	0	71.07028718	0.00266291	1.11E-05	0	0.002674016	8.37E-04	0.009093915
Los Angele	2022 Annual	T6 instate heavy	0.424090102	0	51.2488229	0.001808492	5.57E-06	0	0.001814061	6.06E-04	0.00658168
Los Angele	2022 Annual	T6 instate heavy	0.434819738	0	54.40644335	0.001788267	5.71E-06	0	0.001793976	6.43E-04	0.006989195
Los Angele	2022 Annual	T6 instate heavy	0.453754259	0	57.85288415	0.001756199	5.96E-06	0	0.001762158	6.84E-04	0.007433049
Los Angele	2022 Annual	T6 instate heavy	0.48660728	0	61.7891049	0.001717173	6.39E-06	0	0.001723563	7.31E-04	0.007938526
Los Angele	2022 Annual	T6 instate heavy	0.429004405	0	54.48561556	0.001375082	5.63E-06	0	0.001380715	6.44E-04	0.007000201
Los Angele	2022 Annual	T6 instate heavy	0.106898997	0	5.729197306	1.29E-04	1.40E-06	0	1.30E-04	6.70E-05	7.28E-04
Los Angele	2022 Annual	LDA/LDT1	0	1201.818462	33322.19983	0.24380459	0	0.08633837	0.33014296	1.05115122	4.828726836
Los Angele	2022 Annual	T6 instate heavy	8.372626913	0	719.460663	0.029534046	0.000109944	0	0.02964399	0.008445125	0.091728136

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Los Angele	2023 Annual	LDA		0	42.880563	907.6550514	7.43E-04	0	1.15E-04	8.58E-04	0.02076895	0.095407374
Los Angele	2023 Annual	LDA		0	0	0	0	0	0	0	0	0
Los Angele	2023 Annual	LDA		0	49.323051	1061.415952	8.70E-04	0	1.72E-04	0.001041713	0.024300553	0.1116307
Los Angele	2023 Annual	LDA		0	0	0.137768539	2.56E-06	0	0	2.56E-06	3.86E-06	1.77E-05
Los Angele	2023 Annual	LDA		0	47.358963	1035.685747	0.001132454	0	2.61E-04	0.001393229	0.023676455	0.1087637
Los Angele	2023 Annual	LDA		0	0	4.810732332	8.76E-05	0	0	8.76E-05	1.35E-04	6.19E-04
Los Angele	2023 Annual	LDA		0	63.73740852	1420.032522	0.001610449	0	4.49E-04	0.002059156	0.033672031	0.1546809
Los Angele	2023 Annual	LDA		0	0	8.826722469	1.63E-04	0	0	1.63E-04	2.56E-04	0.001175986
Los Angele	2023 Annual	LDA		0	61.23606062	1389.396798	0.002666786	0	9.05E-04	0.003572267	0.037171599	0.1707571
Los Angele	2023 Annual	LDA		0	0	7.525837861	1.53E-04	0	0	1.53E-04	2.46E-04	0.001130345
Los Angele	2023 Annual	LDA		0	59.93165911	1388.974128	0.00407726	0	0.001428589	0.005505849	0.042625599	0.1958114
Los Angele	2023 Annual	LDA		0	0	6.427690952	1.46E-04	0	0	1.46E-04	2.41E-04	0.001106278
Los Angele	2023 Annual	LDA		0	61.64913737	1459.430232	0.00660008	0	0.002825007	0.009425087	0.046001803	0.2113208
Los Angele	2023 Annual	LDA		0	0	6.110755809	1.38E-04	0	0	1.38E-04	2.35E-04	0.001079179
Los Angele	2023 Annual	LDA		0	64.79827272	1572.311535	0.009704234	0	0.004295361	0.013999595	0.050729915	0.2330406
Los Angele	2023 Annual	LDA		0	0	5.549242023	1.24E-04	0	0	1.24E-04	2.18E-04	0.001002037
Los Angele	2023 Annual	LDA		0	66.59303274	1659.862024	0.01336468	0	0.005926515	0.019291195	0.055895906	0.2567718
Los Angele	2023 Annual	LDA		0	0	5.317009448	1.20E-04	0	0	1.20E-04	2.18E-04	0.001000868
Los Angele	2023 Annual	LDA		0	67.13235855	1726.671734	0.01663698	0	0.007247627	0.023884606	0.060509745	0.2779667
Los Angele	2023 Annual	LDA		0	0	4.987182284	1.12E-04	0	0	1.12E-04	2.12E-04	9.76E-04
Los Angele	2023 Annual	LDA		0	70.12398177	1869.657151	0.019603032	0	0.008276624	0.027879656	0.065596029	0.3013318
Los Angele	2023 Annual	LDA		0	0	5.060039299	1.09E-04	0	0	1.09E-04	2.16E-04	9.90E-04
Los Angele	2023 Annual	LDA		0	73.00361277	2023.507253	0.022090618	0	0.00898698	0.031077598	0.071080618	0.3265266
Los Angele	2023 Annual	LDA		0	0	4.897412296	1.01E-04	0	0	1.01E-04	2.09E-04	9.58E-04
Los Angele	2023 Annual	LDA		0	74.77680321	2169.903872	0.023721157	0	0.009231721	0.032952878	0.076330937	0.3506453
Los Angele	2023 Annual	LDA		0	0	4.920379652	9.59E-05	0	0	9.59E-05	2.10E-04	9.63E-04
Los Angele	2023 Annual	LDA		0	75.51640125	2315.549702	0.025353882	0	0.009323025	0.034676907	0.081586033	0.3747859
Los Angele	2023 Annual	LDA		0	0	4.711439015	8.64E-05	0	0	8.64E-05	2.01E-04	9.22E-04
Los Angele	2023 Annual	LDA		0	72.40078242	2370.542317	0.026003469	0	0.008938385	0.034941854	0.083675615	0.3843849
Los Angele	2023 Annual	LDA		0	0	4.517601274	7.74E-05	0	0	7.74E-05	1.92E-04	8.84E-04
Los Angele	2023 Annual	LDA		0	74.73239658	2667.337263	0.029326172	0	0.009226239	0.038552411	0.094367735	0.4335019



Los Angele	2022 Annual	T6 instate heavy	0.004194069	0.001208475	4.09E-06	0	0.001212565	6.06E-05	0.001128684	0.002401866	2.16E-04
Los Angele	2022 Annual	T6 instate heavy	0.004398752	0.00123677	3.47E-06	0	0.001240237	6.43E-05	0.001197206	0.00250174	2.29E-04
Los Angele	2022 Annual	T6 instate heavy	0.004822655	0.001318982	3.41E-06	0	0.001322391	7.13E-05	0.001328519	0.002722259	2.54E-04
Los Angele	2022 Annual	T6 instate heavy	0.006937576	0.001565638	5.98E-06	0	0.001571622	1.10E-04	0.002052186	0.003734022	3.92E-04
Los Angele	2022 Annual	T6 instate heavy	0.009796479	0.002143008	9.71E-06	0	0.002152721	1.57E-04	0.002926259	0.005236137	5.59E-04
Los Angele	2022 Annual	T6 instate heavy	0.012646034	0.002671822	1.24E-05	0	0.002684199	2.05E-04	0.00381783	0.006707068	7.29E-04
Los Angele	2022 Annual	T6 instate heavy	0.010958463	0.002226517	9.35E-06	0	0.002235866	1.80E-04	0.003346802	0.00576241	6.39E-04
Los Angele	2022 Annual	T6 instate heavy	0.012605179	0.002449878	1.02E-05	0	0.002460094	2.09E-04	0.003897392	0.006566799	7.44E-04
Los Angele	2022 Annual	T6 instate heavy	0.009001697	0.001663813	5.12E-06	0	0.001668936	1.51E-04	0.00282072	0.004641145	5.39E-04
Los Angele	2022 Annual	T6 instate heavy	0.009426645	0.001645205	5.25E-06	0	0.001650458	1.61E-04	0.002995369	0.004806696	5.72E-04
Los Angele	2022 Annual	T6 instate heavy	0.009879544	0.001615703	5.48E-06	0	0.001621185	1.71E-04	0.003185592	0.004977862	6.08E-04
Los Angele	2022 Annual	T6 instate heavy	0.010392964	0.001579799	5.88E-06	0	0.001585678	1.83E-04	0.003402225	0.005170622	6.50E-04
Los Angele	2022 Annual	T6 instate heavy	0.009025403	0.001265075	5.18E-06	0	0.001270258	1.61E-04	0.003000086	0.004431466	5.73E-04
Los Angele	2022 Annual	T6 instate heavy	9.25E-04	1.18E-04	1.29E-06	0	1.20E-04	1.68E-05	3.12E-04	4.48E-04	5.96E-05
Los Angele	2022 Annual	LDA/LDT1	6.210021015	0.226197125	0	0.080107761	0.306304886	0.262787802	2.069454132	2.63854682	0.494483596
Los Angele	2022 Annual	T6 instate heavy	0.129817251	0.027171322	0.000101148	0	0.02727247	0.002111281	0.039312058	0.06869581	0.007537903

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Los Angele	2023 Annual	LDA		0.117034478	6.90E-04	0	1.07E-04	7.96E-04	0.005192237	0.040888872	0.046877335	0.00962575
Los Angele	2023 Annual	LDA		0	0	0	0	0	0	0	0	0
Los Angele	2023 Annual	LDA		0.136972966	8.07E-04	0	1.60E-04	9.67E-04	0.006075138	0.047841713	0.054883389	0.01126223
Los Angele	2023 Annual	LDA		2.41E-05	2.35E-06	0	0	2.35E-06	9.64E-07	7.59E-06	1.09E-05	1.46E-06
Los Angele	2023 Annual	LDA		0.133833384	0.001050731	0	2.42E-04	0.001292686	0.005919114	0.046613015	0.053824815	0.010997401
Los Angele	2023 Annual	LDA		8.41E-04	8.06E-05	0	0	8.06E-05	3.37E-05	2.65E-04	3.79E-04	5.10E-05
Los Angele	2023 Annual	LDA		0.190412087	0.001494231	0	4.16E-04	0.001910557	0.008418008	0.066291824	0.076620389	0.015638106
Los Angele	2023 Annual	LDA		0.001595027	1.50E-04	0	0	1.50E-04	6.40E-05	5.04E-04	7.18E-04	9.70E-05
Los Angele	2023 Annual	LDA		0.211500966	0.002474338	0	8.40E-04	0.003314474	0.0092929	0.073181577	0.085788951	0.017263215
Los Angele	2023 Annual	LDA		0.001529424	1.41E-04	0	0	1.41E-04	6.15E-05	4.84E-04	6.87E-04	9.33E-05
Los Angele	2023 Annual	LDA		0.243942848	0.003783024	0	0.001325495	0.005108519	0.0106564	0.08391916	0.099684079	0.019794505
Los Angele	2023 Annual	LDA		0.001492944	1.34E-04	0	0	1.34E-04	6.02E-05	4.74E-04	6.69E-04	9.13E-05
Los Angele	2023 Annual	LDA		0.26674769	0.006123785	0	0.00262114	0.008744926	0.011500451	0.090566054	0.110811431	0.021360524
Los Angele	2023 Annual	LDA		0.001452291	1.27E-04	0	0	1.27E-04	5.87E-05	4.63E-04	6.48E-04	8.90E-05
Los Angele	2023 Annual	LDA		0.29777011	0.009003927	0	0.003985386	0.012989313	0.012682479	0.099874541	0.125546333	0.023553766
Los Angele	2023 Annual	LDA		0.001344427	1.14E-04	0	0	1.14E-04	5.45E-05	4.29E-04	5.98E-04	8.27E-05
Los Angele	2023 Annual	LDA		0.331958901	0.012400219	0	0.005498829	0.017899047	0.013973976	0.1100451	0.141918123	0.025948782
Los Angele	2023 Annual	LDA		0.001338599	1.10E-04	0	0	1.10E-04	5.45E-05	4.29E-04	5.94E-04	8.26E-05
Los Angele	2023 Annual	LDA		0.362361051	0.015436373	0	0.006724602	0.022160975	0.015127436	0.1191286	0.156417011	0.028095409
Los Angele	2023 Annual	LDA		0.001300841	1.03E-04	0	0	1.03E-04	5.31E-05	4.18E-04	5.75E-04	8.05E-05
Los Angele	2023 Annual	LDA		0.394807485	0.018188381	0	0.007679341	0.025867722	0.016399007	0.1291422	0.171408929	0.03046217
Los Angele	2023 Annual	LDA		0.001315097	1.01E-04	0	0	1.01E-04	5.39E-05	4.24E-04	5.79E-04	8.17E-05
Los Angele	2023 Annual	LDA		0.428684816	0.020496451	0	0.008338434	0.028834884	0.017770154	0.13994	0.186545038	0.033012018
Los Angele	2023 Annual	LDA		0.001267744	9.27E-05	0	0	9.27E-05	5.22E-05	4.11E-04	5.56E-04	7.91E-05
Los Angele	2023 Annual	LDA		0.459929115	0.022009321	0	0.008565514	0.030574836	0.019082734	0.1502766	0.19993417	0.035449769
Los Angele	2023 Annual	LDA		0.001268347	8.82E-05	0	0	8.82E-05	5.24E-05	4.13E-04	5.53E-04	7.94E-05
Los Angele	2023 Annual	LDA		0.49104884	0.023524221	0	0.008650231	0.032174453	0.020396508	0.1606225	0.213193461	0.037894417
Los Angele	2023 Annual	LDA		0.001209107	7.95E-05	0	0	7.95E-05	5.02E-05	3.95E-04	5.25E-04	7.61E-05
Los Angele	2023 Annual	LDA		0.503002369	0.024126928	0	0.008293347	0.032420276	0.020918904	0.1647364	0.21807558	0.038872048
Los Angele	2023 Annual	LDA		0.001153894	7.12E-05	0	0	7.12E-05	4.81E-05	3.79E-04	4.98E-04	7.29E-05
Los Angele	2023 Annual	LDA		0.566422046	0.027209851	0	0.008560428	0.035770278	0.023591934	0.1857865	0.245148712	0.043847371

Los Angele	2022 Annual	T6 instate heavy	3.59E-06	0	2.20E-04	0	2.07224622	3.05E-04	1.37E-03	4.35E-03	1.44E-04	3.14E-04	1.32E-04	1.30E-04	2.40E-05
Los Angele	2022 Annual	T6 instate heavy	3.04E-06	0	2.32E-04	0	2.190840917	2.94E-04	1.31E-03	3.93E-03	1.39E-04	3.14E-04	1.28E-04	1.30E-04	2.39E-05
Los Angele	2022 Annual	T6 instate heavy	2.99E-06	0	2.57E-04	0	2.427511493	2.84E-04	1.26E-03	3.42E-03	1.33E-04	3.14E-04	1.23E-04	1.30E-04	2.39E-05
Los Angele	2022 Annual	T6 instate heavy	5.25E-06	0	3.97E-04	0	3.747231916	2.28E-04	1.03E-03	2.82E-03	1.03E-04	3.14E-04	9.43E-05	1.30E-04	2.38E-05
Los Angele	2022 Annual	T6 instate heavy	8.52E-06	0	5.67E-04	0	5.353033044	2.23E-04	1.02E-03	2.72E-03	9.85E-05	3.14E-04	9.06E-05	1.30E-04	2.39E-05
Los Angele	2022 Annual	T6 instate heavy	1.09E-05	0	7.40E-04	0	6.981553814	2.15E-04	9.85E-04	2.58E-03	9.41E-05	3.14E-04	8.66E-05	1.30E-04	2.39E-05
Los Angele	2022 Annual	T6 instate heavy	8.20E-06	0	6.47E-04	0	6.107769325	2.06E-04	9.35E-04	2.42E-03	8.94E-05	3.14E-04	8.23E-05	1.30E-04	2.38E-05
Los Angele	2022 Annual	T6 instate heavy	8.96E-06	0	7.53E-04	0	7.107028718	1.97E-04	8.94E-04	2.26E-03	8.45E-05	3.14E-04	7.77E-05	1.30E-04	2.38E-05
Los Angele	2022 Annual	T6 instate heavy	4.50E-06	0	5.43E-04	0	5.12488229	1.86E-04	8.27E-04	2.05E-03	7.92E-05	3.14E-04	7.29E-05	1.30E-04	2.37E-05
Los Angele	2022 Annual	T6 instate heavy	4.61E-06	0	5.77E-04	0	5.440644335	1.77E-04	7.86E-04	1.88E-03	7.38E-05	3.14E-04	6.79E-05	1.30E-04	2.37E-05
Los Angele	2022 Annual	T6 instate heavy	4.81E-06	0	6.13E-04	0	5.785288415	1.67E-04	7.45E-04	1.71E-03	6.81E-05	3.14E-04	6.27E-05	1.30E-04	2.37E-05
Los Angele	2022 Annual	T6 instate heavy	5.16E-06	0	6.55E-04	0	6.17891049	1.57E-04	7.04E-04	1.54E-03	6.24E-05	3.14E-04	5.74E-05	1.30E-04	2.37E-05
Los Angele	2022 Annual	T6 instate heavy	4.55E-06	0	5.78E-04	0	5.448561556	1.48E-04	6.64E-04	1.36E-03	5.67E-05	3.14E-04	5.21E-05	1.30E-04	2.37E-05
Los Angele	2022 Annual	T6 instate heavy	1.13E-06	0	6.07E-05	0	0.572919731	1.46E-04	7.14E-04	1.32E-03	5.13E-05	3.14E-04	4.72E-05	1.30E-04	2.40E-05
Los Angele	2022 Annual	LDA/LDT1	0	0.018405246	0.512888843	5457.1823	11.95151827	1.23E-04	1.55E-03	1.33E-04	5.54E-06	9.87E-05	5.14E-06	3.91E-05	8.61E-06
Los Angele	2022 Annual	T6 instate heavy	8.87542E-05	0	0.007626657	0	71.9460663	2.33E-04	1.04E-03	3.14E-03	9.29E-05	3.14E-04	8.54E-05	1.30E-04	2.39E-05

EMFAC 2011

2023 Estimated Annual Emissions

EMFAC 2011 Vehicle Categories

Los Angeles COUNTY

South Coast AIR BASIN

South Coast AQMD

Area	CalYr	Season	Veh	SOX_IDLEX (Tons/day)	SOX_STREX (Tons/day)	SOX_TOTEX (Tons/day)	FUEL_GAS (1000 Gallons)	FUEL_DSL (1000 Gallons)	exhaust ROG lb/mile	exhaust CO lb/mile	exhaust NOx lb/mile	exhaust PM10 lb/mile	tire wear a PM10 lb/mile	exhaust PM2.5 lb/mile	tire wear a PM2.5 lb/mile	SOx lb/mile
Los Angele	2023 Annual	LDA		0	4.88E-04	0.010114232	107.883	0	3.30E-04	2.41E-03	1.58E-04	7.29E-07	9.87E-05	6.76E-07	3.91E-05	8.59E-06
Los Angele	2023 Annual	LDA		0	0	0	0	0	0	0	0	0	0	0	0	0
Los Angele	2023 Annual	LDA		0	5.60E-04	0.011822521	126.1044	0	2.97E-04	2.19E-03	1.53E-04	7.56E-07	9.87E-05	7.01E-07	3.91E-05	8.58E-06
Los Angele	2023 Annual	LDA		0	0	1.46E-06	0	0.013776854	1.95E-05	1.83E-04	5.91E-04	1.17E-05	9.87E-05	1.08E-05	3.91E-05	6.68E-06
Los Angele	2023 Annual	LDA		0	5.38E-04	0.01153516	123.0392	0	2.71E-04	2.15E-03	1.60E-04	1.04E-06	9.87E-05	9.63E-07	3.91E-05	8.59E-06
Los Angele	2023 Annual	LDA		0	0	5.10E-05	0	0.4810732	1.91E-05	1.80E-04	5.80E-04	1.15E-05	9.87E-05	1.06E-05	3.91E-05	6.68E-06
Los Angele	2023 Annual	LDA		0	7.49E-04	0.016387501	174.7965	0	2.47E-04	2.08E-03	1.65E-04	1.08E-06	9.87E-05	1.00E-06	3.91E-05	8.58E-06
Los Angele	2023 Annual	LDA		0	0	9.70E-05	0	0.9146863	1.77E-05	1.66E-04	5.67E-04	1.12E-05	9.87E-05	1.03E-05	3.91E-05	6.68E-06
Los Angele	2023 Annual	LDA		0	8.11E-04	0.018074698	192.7929	0	2.24E-04	2.06E-03	1.64E-04	1.69E-06	9.87E-05	1.57E-06	3.91E-05	8.58E-06
Los Angele	2023 Annual	LDA		0	0	9.33E-05	0	0.8791867	1.82E-05	1.71E-04	5.54E-04	1.10E-05	9.87E-05	1.01E-05	3.91E-05	6.68E-06
Los Angele	2023 Annual	LDA		0	9.10E-04	0.020704285	220.8413	0	2.01E-04	2.02E-03	1.62E-04	2.28E-06	9.87E-05	2.11E-06	3.91E-05	8.57E-06
Los Angele	2023 Annual	LDA		0	0	9.13E-05	0	0.8604674	1.77E-05	1.66E-04	5.39E-04	1.07E-05	9.87E-05	9.83E-06	3.91E-05	6.68E-06
Los Angele	2023 Annual	LDA		0	9.60E-04	0.022320409	238.0796	0	1.85E-04	1.97E-03	1.61E-04	3.61E-06	9.87E-05	3.35E-06	3.91E-05	8.56E-06
Los Angele	2023 Annual	LDA		0	0	8.90E-05	0	0.8393895	1.71E-05	1.61E-04	5.24E-04	1.04E-05	9.87E-05	9.54E-06	3.91E-05	6.68E-06
Los Angele	2023 Annual	LDA		0	0.001031116	0.024584882	262.2335	0	1.68E-04	1.92E-03	1.58E-04	4.87E-06	9.87E-05	4.52E-06	3.91E-05	8.55E-06
Los Angele	2023 Annual	LDA		0	0	8.27E-05	0	0.7793879	1.66E-05	1.55E-04	5.07E-04	1.00E-05	9.87E-05	9.24E-06	3.91E-05	6.68E-06
Los Angele	2023 Annual	LDA		0	0.001104042	0.027052824	288.5577	0	1.50E-04	1.86E-03	1.56E-04	6.09E-06	9.87E-05	5.65E-06	3.91E-05	8.54E-06
Los Angele	2023 Annual	LDA		0	0	8.26E-05	0	0.7784787	1.59E-05	1.49E-04	4.90E-04	9.70E-06	9.87E-05	8.93E-06	3.91E-05	6.68E-06
Los Angele	2023 Annual	LDA		0	0.001156256	0.029251665	312.0115	0	1.33E-04	1.80E-03	1.52E-04	6.96E-06	9.87E-05	6.46E-06	3.91E-05	8.53E-06
Los Angele	2023 Annual	LDA		0	0	8.05E-05	0	0.759084	1.53E-05	1.43E-04	4.71E-04	9.34E-06	9.87E-05	8.59E-06	3.91E-05	6.68E-06
Los Angele	2023 Annual	LDA		0	0.001206739	0.031668909	337.7949	0	1.12E-04	1.71E-03	1.46E-04	7.50E-06	9.87E-05	6.96E-06	3.91E-05	8.51E-06
Los Angele	2023 Annual	LDA		0	0	8.17E-05	0	0.7701734	1.46E-05	1.36E-04	4.51E-04	8.95E-06	9.87E-05	8.23E-06	3.91E-05	6.68E-06
Los Angele	2023 Annual	LDA		0	0.001254571	0.034266589	365.503	0	9.76E-05	1.59E-03	1.36E-04	7.71E-06	9.87E-05	7.15E-06	3.91E-05	8.50E-06
Los Angele	2023 Annual	LDA		0	0	7.91E-05	0	0.7454205	1.38E-05	1.29E-04	4.30E-04	8.52E-06	9.87E-05	7.84E-06	3.91E-05	6.68E-06
Los Angele	2023 Annual	LDA		0	0.001282165	0.036731934	391.7995	0	8.49E-05	1.40E-03	1.28E-04	7.61E-06	9.87E-05	7.06E-06	3.91E-05	8.49E-06
Los Angele	2023 Annual	LDA		0	0	7.94E-05	0	0.7489162	1.30E-05	1.21E-04	4.07E-04	8.07E-06	9.87E-05	7.42E-06	3.91E-05	6.68E-06
Los Angele	2023 Annual	LDA		0	0.001292899	0.039187316	417.9897	0	7.51E-05	1.26E-03	1.17E-04	7.50E-06	9.87E-05	6.96E-06	3.91E-05	8.47E-06
Los Angele	2023 Annual	LDA		0	0	7.61E-05	0	0.717114	1.22E-05	1.13E-04	3.83E-04	7.60E-06	9.87E-05	6.99E-06	3.91E-05	6.68E-06
Los Angele	2023 Annual	LDA		0	0.001238237	0.040110285	427.8345	0	6.68E-05	1.16E-03	1.08E-04	7.36E-06	9.87E-05	6.83E-06	3.91E-05	8.45E-06
Los Angele	2023 Annual	LDA		0	0	7.29E-05	0	0.6876106	1.13E-05	1.05E-04	3.57E-04	7.09E-06	9.87E-05	6.53E-06	3.91E-05	6.68E-06
Los Angele	2023 Annual	LDA		0	0.001276947	0.045124318	481.3163	0	5.87E-05	1.08E-03	9.89E-05	7.21E-06	9.87E-05	6.69E-06	3.91E-05	8.43E-06

Los Angele	2022 Annual	T6 instate heavy	1.13E-03
Los Angele	2022 Annual	T6 instate heavy	1.13E-03
Los Angele	2022 Annual	T6 instate heavy	1.13E-03
Los Angele	2022 Annual	T6 instate heavy	1.12E-03
Los Angele	2022 Annual	T6 instate heavy	1.13E-03
Los Angele	2022 Annual	T6 instate heavy	1.13E-03
Los Angele	2022 Annual	T6 instate heavy	1.12E-03
Los Angele	2022 Annual	T6 instate heavy	1.12E-03
Los Angele	2022 Annual	T6 instate heavy	1.12E-03
Los Angele	2022 Annual	T6 instate heavy	1.12E-03
Los Angele	2022 Annual	T6 instate heavy	1.12E-03
Los Angele	2022 Annual	T6 instate heavy	1.12E-03
Los Angele	2022 Annual	T6 instate heavy	1.12E-03
Los Angele	2022 Annual	T6 instate heavy	1.12E-03
Los Angele	2022 Annual	T6 instate heavy	1.12E-03
Los Angele	2022 Annual	T6 instate heavy	1.13E-03
Los Angele	2022 Annual	LDA/LDT1	2.80E-04
Los Angele	2022 Annual	T6 instate heavy	1.13E-03

EMFAC 2011

2023 Estimated Annual Emissions

EMFAC 2011 Vehicle Categories

Los Angeles COUNTY

South Coast AIR BASIN

South Coast AQMD

Area	CalYr	Season	Veh	exhaust CO2 ton/mile
Los Angele	2023 Annual	LDA		3.85E-04
Los Angele	2023 Annual	LDA		
Los Angele	2023 Annual	LDA		3.85E-04
Los Angele	2023 Annual	LDA		3.15E-04
Los Angele	2023 Annual	LDA		3.86E-04
Los Angele	2023 Annual	LDA		3.15E-04
Los Angele	2023 Annual	LDA		3.72E-04
Los Angele	2023 Annual	LDA		3.04E-04
Los Angele	2023 Annual	LDA		3.30E-04
Los Angele	2023 Annual	LDA		2.70E-04
Los Angele	2023 Annual	LDA		2.87E-04
Los Angele	2023 Annual	LDA		2.35E-04
Los Angele	2023 Annual	LDA		2.80E-04
Los Angele	2023 Annual	LDA		2.29E-04
Los Angele	2023 Annual	LDA		2.73E-04
Los Angele	2023 Annual	LDA		2.24E-04
Los Angele	2023 Annual	LDA		2.62E-04
Los Angele	2023 Annual	LDA		2.15E-04
Los Angele	2023 Annual	LDA		2.52E-04
Los Angele	2023 Annual	LDA		2.07E-04
Los Angele	2023 Annual	LDA		2.51E-04
Los Angele	2023 Annual	LDA		2.07E-04
Los Angele	2023 Annual	LDA		2.51E-04
Los Angele	2023 Annual	LDA		2.07E-04
Los Angele	2023 Annual	LDA		2.51E-04
Los Angele	2023 Annual	LDA		2.07E-04
Los Angele	2023 Annual	LDA		2.50E-04
Los Angele	2023 Annual	LDA		2.07E-04
Los Angele	2023 Annual	LDA		2.50E-04
Los Angele	2023 Annual	LDA		2.07E-04
Los Angele	2023 Annual	LDA		2.49E-04

Los Angele	2023 Annual	LDA	DSL	2022 AllSpeeds	506.1973	22947.9434	3310.2	1.18E-04	0	0	1.18E-04
Los Angele	2023 Annual	LDA	GAS	2023 AllSpeeds	238254.5	1.24E+07	1562793	0.094289878	0	0.053311024	0.147600902
Los Angele	2023 Annual	LDA	DSL	2023 AllSpeeds	508.9287	26526.15906	3338.238	1.22E-04	0	0	1.22E-04
Los Angele	2023 Annual	LDT1	GAS	2007 AllSpeeds	7222.417	211827.049	43619.04	0.00315384	0	0.003011324	0.006165164
Los Angele	2023 Annual	LDT1	DSL	2007 AllSpeeds	0	0	0	0	0	0	0
Los Angele	2023 Annual	LDT1	GAS	2008 AllSpeeds	15409.16	458862.3884	93678.29	0.006331914	0	0.005764497	0.012096412
Los Angele	2023 Annual	LDT1	DSL	2008 AllSpeeds	0	0	0	0	0	0	0
Los Angele	2023 Annual	LDT1	GAS	2009 AllSpeeds	14064.76	425480.2306	86208.38	0.005928883	0	0.005330175	0.011259057
Los Angele	2023 Annual	LDT1	DSL	2009 AllSpeeds	0	0	0	0	0	0	0
Los Angele	2023 Annual	LDT1	GAS	2010 AllSpeeds	15824.58	486789.0514	97627.91	0.00683883	0	0.006049322	0.012888152
Los Angele	2023 Annual	LDT1	DSL	2010 AllSpeeds	24.6803	759.2070235	152.2622	8.52E-06	0	0	8.52E-06
Los Angele	2023 Annual	LDT1	GAS	2011 AllSpeeds	15450.71	483792.6766	96093.8	0.006686438	0	0.0058667	0.012553138
Los Angele	2023 Annual	LDT1	DSL	2011 AllSpeeds	35.90012	1124.10829	223.2764	1.23E-05	0	0	1.23E-05
Los Angele	2023 Annual	LDT1	GAS	2012 AllSpeeds	15198.8	484929.128	95134.93	0.006583402	0	0.005713694	0.012297096
Los Angele	2023 Annual	LDT1	DSL	2012 AllSpeeds	26.51246	845.9032204	165.9514	8.99E-06	0	0	8.99E-06
Los Angele	2023 Annual	LDT1	GAS	2013 AllSpeeds	15766.94	513144.1236	99479.44	0.006827407	0	0.005863176	0.012690584
Los Angele	2023 Annual	LDT1	DSL	2013 AllSpeeds	35.3662	1151.018285	223.1384	1.18E-05	0	0	1.18E-05
Los Angele	2023 Annual	LDT1	GAS	2014 AllSpeeds	16124.9	536180.433	102382.9	0.006970369	0	0.005903609	0.012873978
Los Angele	2023 Annual	LDT1	DSL	2014 AllSpeeds	34.26592	1139.405009	217.5668	1.13E-05	0	0	1.13E-05
Los Angele	2023 Annual	LDT1	GAS	2015 AllSpeeds	17109.18	582272.1441	109316.7	0.007372893	0	0.00614678	0.013519672
Los Angele	2023 Annual	LDT1	DSL	2015 AllSpeeds	35.30796	1201.632471	225.5952	1.15E-05	0	0	1.15E-05
Los Angele	2023 Annual	LDT1	GAS	2016 AllSpeeds	17321.35	604620.0838	111192	0.007435772	0	0.006075664	0.013511436
Los Angele	2023 Annual	LDT1	DSL	2016 AllSpeeds	45.18617	1577.279609	290.0662	1.44E-05	0	0	1.44E-05
Los Angele	2023 Annual	LDT1	GAS	2017 AllSpeeds	17717.34	635906.1042	114088.3	0.007565106	0	0.006033967	0.013599073
Los Angele	2023 Annual	LDT1	DSL	2017 AllSpeeds	30.80781	1105.75143	198.3824	9.63E-06	0	0	9.63E-06
Los Angele	2023 Annual	LDT1	GAS	2018 AllSpeeds	17856.98	661298.9153	115523.1	0.007435986	0	0.005819612	0.013255599
Los Angele	2023 Annual	LDT1	DSL	2018 AllSpeeds	32.27806	1195.362664	208.8181	9.85E-06	0	0	9.85E-06
Los Angele	2023 Annual	LDT1	GAS	2019 AllSpeeds	17952.74	689009.2476	116501.6	0.006913327	0	0.005382034	0.012295361
Los Angele	2023 Annual	LDT1	DSL	2019 AllSpeeds	37.61664	1443.699182	244.1076	1.12E-05	0	0	1.12E-05
Los Angele	2023 Annual	LDT1	GAS	2020 AllSpeeds	18347.96	734425.5021	119249.8	0.006856922	0	0.005157596	0.012014518
Los Angele	2023 Annual	LDT1	DSL	2020 AllSpeeds	31.59509	1264.6847	205.3475	9.14E-06	0	0	9.14E-06
Los Angele	2023 Annual	LDT1	GAS	2021 AllSpeeds	19364.46	816414.1186	126243.6	0.007211557	0	0.005136563	0.012348121
Los Angele	2023 Annual	LDT1	DSL	2021 AllSpeeds	23.60095	995.0326303	153.8628	6.64E-06	0	0	6.64E-06
Los Angele	2023 Annual	LDT1	GAS	2022 AllSpeeds	19993.03	902959.2176	130741.4	0.007474206	0	0.004936105	0.012410312
Los Angele	2023 Annual	LDT1	DSL	2022 AllSpeeds	19.83228	895.7040031	129.6901	5.46E-06	0	0	5.46E-06
Los Angele	2023 Annual	LDT1	GAS	2023 AllSpeeds	20065.72	1009011.212	131618	0.007617582	0	0.004463345	0.012080927
Los Angele	2023 Annual	LDT1	DSL	2023 AllSpeeds	26.52448	1333.799211	173.9832	7.30E-06	0	0	7.30E-06
Los Angele	2023 Annual	T6 instate heavy	DSL	2010 AllSpeeds	406.4229971	15725.57731	0	0.002373103	9.40E-05	0	0.002467143
Los Angele	2023 Annual	T6 instate heavy	DSL	2011 AllSpeeds	343.2419198	16327.62016	0	0.002397711	7.94E-05	0	0.002477132
Los Angele	2023 Annual	T6 instate heavy	DSL	2012 AllSpeeds	361.1779898	19240.68679	0	0.002741161	8.36E-05	0	0.002824732
Los Angele	2023 Annual	T6 instate heavy	DSL	2013 AllSpeeds	617.4060467	29840.01878	0	0.00336732	1.43E-04	0	0.003510178
Los Angele	2023 Annual	T6 instate heavy	DSL	2014 AllSpeeds	1066.402736	48647.72279	0	0.005331905	2.47E-04	0	0.005578654
Los Angele	2023 Annual	T6 instate heavy	DSL	2015 AllSpeeds	2049.380175	83931.08231	0	0.008909719	4.74E-04	0	0.009383913
Los Angele	2023 Annual	T6 instate heavy	DSL	2016 AllSpeeds	868.9939817	43616.16492	0	0.004470216	2.01E-04	0	0.004671287
Los Angele	2023 Annual	T6 instate heavy	DSL	2017 AllSpeeds	1682.434217	77846.75075	0	0.007675175	3.89E-04	0	0.008064464
Los Angele	2023 Annual	T6 instate heavy	DSL	2018 AllSpeeds	580.1650797	44372.45537	0	0.004191364	1.34E-04	0	0.004325605
Los Angele	2023 Annual	T6 instate heavy	DSL	2019 AllSpeeds	580.0903928	46508.86414	0	0.004190028	1.34E-04	0	0.004324252
Los Angele	2023 Annual	T6 instate heavy	DSL	2020 AllSpeeds	591.3788493	49102.55255	0	0.004198908	1.37E-04	0	0.004335744
Los Angele	2023 Annual	T6 instate heavy	DSL	2021 AllSpeeds	611.0999818	51728.75109	0	0.00417819	1.41E-04	0	0.004319589
Los Angele	2023 Annual	T6 instate heavy	DSL	2022 AllSpeeds	655.4903802	55269.05333	0	0.004197147	1.52E-04	0	0.004348817
Los Angele	2023 Annual	T6 instate heavy	DSL	2023 AllSpeeds	583.67781	49233.13915	0	0.003501963	1.35E-04	0	0.003637017
Los Angele	2023 Annual	T6 instate heavy	DSL	2024 AllSpeeds	146.8828824	5179.839544	0	3.44E-04	3.40E-05	0	3.78E-04
Los Angele	2023 Annual	LDA/LDT1	GAS&DSL	>2007 AllSpeeds	3518564.563	121465503.9	22469305.88	1.321486686	0	1.13584767	2.457334356
Los Angele	2023 Annual	T6 instate heavy	DSL	>2007 AllSpeeds	11144.24544	636570.279	0	0.062067437	0.002578603	0	0.06464604

Los Angele	2023 Annual	LDA	0	0	0	0	1.18E-04	1.34E-04	0	0	1.34E-04
Los Angele	2023 Annual	LDA	0.006710097	0.007480855	0.141471	0.004402493	0.307665347	0.17548541	0	0.056919727	0.232405137
Los Angele	2023 Annual	LDA	0	0	0	0	1.22E-04	1.39E-04	0	0	1.39E-04
Los Angele	2023 Annual	LDT1	0.002158674	0.00644696	0.021730384	0.002700173	0.039201355	0.005869695	0	0.003215166	0.009084861
Los Angele	2023 Annual	LDT1	0	0	0	0	0	0	0	0	0
Los Angele	2023 Annual	LDT1	0.004128446	0.012275534	0.041916806	0.005121641	0.075538838	0.011784494	0	0.006154704	0.017939198
Los Angele	2023 Annual	LDT1	0	0	0	0	0	0	0	0	0
Los Angele	2023 Annual	LDT1	0.003338022	0.009870634	0.034291927	0.004098784	0.062858424	0.011034401	0	0.005690983	0.016725383
Los Angele	2023 Annual	LDT1	0	0	0	0	0	0	0	0	0
Los Angele	2023 Annual	LDT1	0.003318878	0.009722313	0.034578498	0.004027301	0.064535141	0.012727927	0	0.00645881	0.019186737
Los Angele	2023 Annual	LDT1	0	0	0	0	8.52E-06	9.70E-06	0	0	9.70E-06
Los Angele	2023 Annual	LDT1	0.002842584	0.008233462	0.03021759	0.003400101	0.057246876	0.012444308	0	0.006263827	0.018708134
Los Angele	2023 Annual	LDT1	0	0	0	0	1.23E-05	1.40E-05	0	0	1.40E-05
Los Angele	2023 Annual	LDT1	0.002405777	0.006837807	0.026215119	0.002824282	0.050580081	0.012252545	0	0.006100462	0.018353006
Los Angele	2023 Annual	LDT1	0	0	0	0	8.99E-06	1.02E-05	0	0	1.02E-05
Los Angele	2023 Annual	LDT1	0.002236087	0.006248684	0.025142748	0.002577934	0.048896036	0.012706669	0	0.006260064	0.018966733
Los Angele	2023 Annual	LDT1	0	0	0	0	1.18E-05	1.35E-05	0	0	1.35E-05
Los Angele	2023 Annual	LDT1	0.002021314	0.005503271	0.02351045	0.002276847	0.04618586	0.01297274	0	0.006303234	0.019275973
Los Angele	2023 Annual	LDT1	0	0	0	0	1.13E-05	1.29E-05	0	0	1.29E-05
Los Angele	2023 Annual	LDT1	0.001814753	0.004735672	0.022070222	0.001975227	0.044115547	0.013721887	0	0.006562864	0.020284751
Los Angele	2023 Annual	LDT1	0	0	0	0	1.15E-05	1.31E-05	0	0	1.31E-05
Los Angele	2023 Annual	LDT1	0.001554166	0.003820315	0.019120736	0.001626667	0.03963332	0.013838912	0	0.006486936	0.020325848
Los Angele	2023 Annual	LDT1	0	0	0	0	1.44E-05	1.64E-05	0	0	1.64E-05
Los Angele	2023 Annual	LDT1	0.001285227	0.0028515	0.014723567	0.001283759	0.033743126	0.014079619	0	0.006442417	0.020522036
Los Angele	2023 Annual	LDT1	0	0	0	0	9.63E-06	1.10E-05	0	0	1.10E-05
Los Angele	2023 Annual	LDT1	0.001051865	0.002057867	0.013162519	9.69E-04	0.030496827	0.013839312	0	0.006213551	0.020052863
Los Angele	2023 Annual	LDT1	0	0	0	0	9.85E-06	1.12E-05	0	0	1.12E-05
Los Angele	2023 Annual	LDT1	9.08E-04	0.00154842	0.011868968	7.71E-04	0.027391139	0.012866578	0	0.005746352	0.01861293
Los Angele	2023 Annual	LDT1	0	0	0	0	1.12E-05	1.27E-05	0	0	1.27E-05
Los Angele	2023 Annual	LDT1	8.22E-04	0.001212428	0.0109203	6.45E-04	0.025614507	0.012761599	0	0.005506722	0.018268322
Los Angele	2023 Annual	LDT1	0	0	0	0	9.14E-06	1.04E-05	0	0	1.04E-05
Los Angele	2023 Annual	LDT1	7.93E-04	0.00101526	0.010582574	5.79E-04	0.025317387	0.013421621	0	0.005484265	0.018905885
Los Angele	2023 Annual	LDT1	0	0	0	0	6.64E-06	7.56E-06	0	0	7.56E-06
Los Angele	2023 Annual	LDT1	7.66E-04	8.64E-04	0.010074296	5.27E-04	0.024642212	0.013910445	0	0.005270238	0.019180683
Los Angele	2023 Annual	LDT1	0	0	0	0	5.46E-06	6.22E-06	0	0	6.22E-06
Los Angele	2023 Annual	LDT1	7.34E-04	7.44E-04	0.009432762	4.82E-04	0.023473636	0.014177284	0	0.004765476	0.01894276
Los Angele	2023 Annual	LDT1	0	0	0	0	7.30E-06	8.31E-06	0	0	8.31E-06
Los Angele	2023 Annual	T6 instate heavy	0	0	0	0	0.002467143	0.002701597	1.07E-04	0	0.002808654
Los Angele	2023 Annual	T6 instate heavy	0	0	0	0	0.002477132	0.002729612	9.04E-05	0	0.002820026
Los Angele	2023 Annual	T6 instate heavy	0	0	0	0	0.002824732	0.003120603	9.51E-05	0	0.003215742
Los Angele	2023 Annual	T6 instate heavy	0	0	0	0	0.003510178	0.003833438	1.63E-04	0	0.003996071
Los Angele	2023 Annual	T6 instate heavy	0	0	0	0	0.005578654	0.006069968	2.81E-04	0	0.006350873
Los Angele	2023 Annual	T6 instate heavy	0	0	0	0	0.009383913	0.010143037	5.40E-04	0	0.010682871
Los Angele	2023 Annual	T6 instate heavy	0	0	0	0	0.004671287	0.005089	2.29E-04	0	0.005317905
Los Angele	2023 Annual	T6 instate heavy	0	0	0	0	0.008064464	0.008737602	4.43E-04	0	0.009180778
Los Angele	2023 Annual	T6 instate heavy	0	0	0	0	0.004325605	0.004771549	1.53E-04	0	0.004924372
Los Angele	2023 Annual	T6 instate heavy	0	0	0	0	0.004324252	0.004770028	1.53E-04	0	0.004922832
Los Angele	2023 Annual	T6 instate heavy	0	0	0	0	0.004335744	0.004780137	1.56E-04	0	0.004935914
Los Angele	2023 Annual	T6 instate heavy	0	0	0	0	0.004319589	0.004756551	1.61E-04	0	0.004917523
Los Angele	2023 Annual	T6 instate heavy	0	0	0	0	0.004348817	0.004778132	1.73E-04	0	0.004950797
Los Angele	2023 Annual	T6 instate heavy	0	0	0	0	0.003637017	0.003986719	1.54E-04	0	0.004140467
Los Angele	2023 Annual	T6 instate heavy	0	0	0	0	3.78E-04	3.91E-04	3.87E-05	0	4.30E-04
Los Angele	2023 Annual	LDA/LDT1	0.294889469	0.936074617	3.660719666	0.324139298	7.673157406	2.457382552	0	1.212735004	3.670117555
Los Angele	2023 Annual	T6 instate heavy	0	0	0	0	0.06464604	0.070659052	0.002935544	0	0.073594596

Los Angele	2023 Annual	LDA	0	0	0	0	1.34E-04	0.001095072	0	0	0.001095072
Los Angele	2023 Annual	LDA	0.006710097	0.007480855	0.141471	0.004402493	0.392469582	5.336262008	0	0.8187956	6.155057608
Los Angele	2023 Annual	LDA	0	0	0	0	1.39E-04	0.001131211	0	0	0.001131211
Los Angele	2023 Annual	LDT1	0.002158674	0.00644696	0.021730384	0.002700173	0.042121052	0.197422305	0	0.058470327	0.255892632
Los Angele	2023 Annual	LDT1	0	0	0	0	0	0	0	0	0
Los Angele	2023 Annual	LDT1	0.004128446	0.012275534	0.041916806	0.005121641	0.081381625	0.389939805	0	0.1114492	0.501389005
Los Angele	2023 Annual	LDT1	0	0	0	0	0	0	0	0	0
Los Angele	2023 Annual	LDT1	0.003338022	0.009870634	0.034291927	0.004098784	0.06832475	0.355352604	0	0.099860258	0.455212862
Los Angele	2023 Annual	LDT1	0	0	0	0	0	0	0	0	0
Los Angele	2023 Annual	LDT1	0.003318878	0.009722313	0.034578498	0.004027301	0.070833726	0.396891558	0	0.1091089	0.506000458
Los Angele	2023 Annual	LDT1	0	0	0	0	9.70E-06	7.97E-05	0	0	7.97E-05
Los Angele	2023 Annual	LDT1	0.002842584	0.008233462	0.03021759	0.003400101	0.063401871	0.389301556	0	0.1058647	0.495166256
Los Angele	2023 Annual	LDT1	0	0	0	0	1.40E-05	1.15E-04	0	0	1.15E-04
Los Angele	2023 Annual	LDT1	0.002405777	0.006837807	0.026215119	0.002824282	0.056635991	0.384495689	0	0.1031191	0.487614789
Los Angele	2023 Annual	LDT1	0	0	0	0	1.02E-05	8.40E-05	0	0	8.40E-05
Los Angele	2023 Annual	LDT1	0.002236087	0.006248684	0.025142748	0.002577934	0.055172185	0.398916778	0	0.105451	0.504367778
Los Angele	2023 Annual	LDT1	0	0	0	0	1.35E-05	1.11E-04	0	0	1.11E-04
Los Angele	2023 Annual	LDT1	0.002021314	0.005503271	0.02351045	0.002276847	0.052587854	0.407276193	0	0.1056725	0.512948693
Los Angele	2023 Annual	LDT1	0	0	0	0	1.29E-05	1.06E-04	0	0	1.06E-04
Los Angele	2023 Annual	LDT1	0.001814753	0.004735672	0.022070222	0.001975227	0.050880625	0.430882099	0	0.1094468	0.540328899
Los Angele	2023 Annual	LDT1	0	0	0	0	1.31E-05	1.07E-04	0	0	1.07E-04
Los Angele	2023 Annual	LDT1	0.001554166	0.003820315	0.019120736	0.001626667	0.046447732	0.433534364	0	0.1071621	0.540696464
Los Angele	2023 Annual	LDT1	0	0	0	0	1.64E-05	1.34E-04	0	0	1.34E-04
Los Angele	2023 Annual	LDT1	0.001285227	0.0028515	0.014723567	0.001283759	0.040666089	0.437304443	0	0.1045944	0.541898843
Los Angele	2023 Annual	LDT1	0	0	0	0	1.10E-05	8.95E-05	0	0	8.95E-05
Los Angele	2023 Annual	LDT1	0.001051865	0.002057867	0.013162519	9.69E-04	0.037294091	0.424333919	0	0.097523585	0.521857504
Los Angele	2023 Annual	LDT1	0	0	0	0	1.12E-05	9.14E-05	0	0	9.14E-05
Los Angele	2023 Annual	LDT1	9.08E-04	0.00154842	0.011868968	7.71E-04	0.033708708	0.391385873	0	0.084619261	0.476005134
Los Angele	2023 Annual	LDT1	0	0	0	0	1.27E-05	1.04E-04	0	0	1.04E-04
Los Angele	2023 Annual	LDT1	8.22E-04	0.001212428	0.0109203	6.45E-04	0.03186831	0.381717829	0	0.077567704	0.459285533
Los Angele	2023 Annual	LDT1	0	0	0	0	1.04E-05	8.45E-05	0	0	8.45E-05
Los Angele	2023 Annual	LDT1	7.93E-04	0.00101526	0.010582574	5.79E-04	0.031875152	0.396028849	0	0.075578764	0.471607613
Los Angele	2023 Annual	LDT1	0	0	0	0	7.56E-06	6.12E-05	0	0	6.12E-05
Los Angele	2023 Annual	LDT1	7.66E-04	8.64E-04	0.010074296	5.27E-04	0.031412584	0.410782453	0	0.07275448	0.483536933
Los Angele	2023 Annual	LDT1	0	0	0	0	6.22E-06	5.01E-05	0	0	5.01E-05
Los Angele	2023 Annual	LDT1	7.34E-04	7.44E-04	0.009432762	4.82E-04	0.030335468	0.431889928	0	0.06878031	0.500670238
Los Angele	2023 Annual	LDT1	0	0	0	0	8.31E-06	6.66E-05	0	0	6.66E-05
Los Angele	2023 Annual	T6 instate heavy	0	0	0	0	0.002808654	0.009985849	0.001112028	0	0.011097877
Los Angele	2023 Annual	T6 instate heavy	0	0	0	0	0.002820026	0.010089401	9.39E-04	0	0.011028557
Los Angele	2023 Annual	T6 instate heavy	0	0	0	0	0.003215742	0.011534611	9.88E-04	0	0.012522843
Los Angele	2023 Annual	T6 instate heavy	0	0	0	0	0.003996071	0.014169446	0.001689306	0	0.015858752
Los Angele	2023 Annual	T6 instate heavy	0	0	0	0	0.006350873	0.022436281	0.002917821	0	0.025354103
Los Angele	2023 Annual	T6 instate heavy	0	0	0	0	0.010682871	0.037491472	0.00560738	0	0.043098852
Los Angele	2023 Annual	T6 instate heavy	0	0	0	0	0.005317905	0.018810354	0.002377684	0	0.021188038
Los Angele	2023 Annual	T6 instate heavy	0	0	0	0	0.009180778	0.032296597	0.004603366	0	0.036899963
Los Angele	2023 Annual	T6 instate heavy	0	0	0	0	0.004924372	0.017636966	0.00158741	0	0.019224376
Los Angele	2023 Annual	T6 instate heavy	0	0	0	0	0.004922832	0.017631344	0.001587205	0	0.01921855
Los Angele	2023 Annual	T6 instate heavy	0	0	0	0	0.004935914	0.017668709	0.001618092	0	0.019286802
Los Angele	2023 Annual	T6 instate heavy	0	0	0	0	0.004917523	0.01758153	0.001672052	0	0.019253582
Los Angele	2023 Annual	T6 instate heavy	0	0	0	0	0.004950797	0.017661298	0.00179351	0	0.019454808
Los Angele	2023 Annual	T6 instate heavy	0	0	0	0	0.004140467	0.014736016	0.001597021	0	0.016333037
Los Angele	2023 Annual	T6 instate heavy	0	0	0	0	4.30E-04	0.001445541	4.02E-04	0	0.001847432
Los Angele	2023 Annual	LDA/LDT1	0.294889469	0.936074617	3.660719666	0.324139298	8.885940605	75.7678806	0	19.29435769	95.06223829
Los Angele	2023 Annual	T6 instate heavy	0	0	0	0	0.073594596	0.261175417	0.030492155	0	0.291667572

Los Angele	2023 Annual	LDA	0.003788133	0	0	0.003788133	8.034021247	0	0	8.034021247	4.750516764
Los Angele	2023 Annual	LDA	0.511719892	0	0.043858852	0.555578744	5089.734383	0	127.9573	5217.691683	3009.559941
Los Angele	2023 Annual	LDA	0.003979969	0	0	0.003979969	9.286744291	0	0	9.286744291	5.491251899
Los Angele	2023 Annual	LDT1	0.01385857	0	0.002698062	0.016556632	100.7700494	0	4.157941	104.9279904	90.69304446
Los Angele	2023 Annual	LDT1	0	0	0	0	0	0	0	0	0
Los Angele	2023 Annual	LDT1	0.029189622	0	0.005570969	0.03476059	218.0954179	0	8.921821	227.0172389	196.2858761
Los Angele	2023 Annual	LDT1	0	0	0	0	0	0	0	0	0
Los Angele	2023 Annual	LDT1	0.028110224	0	0.005410093	0.033520317	202.5747838	0	8.224497	210.7992808	182.3173054
Los Angele	2023 Annual	LDT1	0	0	0	0	0	0	0	0	0
Los Angele	2023 Annual	LDT1	0.033412477	0	0.006467999	0.039880477	231.6215126	0	9.308178	240.9296906	201.1632837
Los Angele	2023 Annual	LDT1	2.62E-04	0	0	2.62E-04	0.265796558	0	0	0.265796558	0.230844311
Los Angele	2023 Annual	LDT1	0.033048497	0	0.006321094	0.03936959	230.1715961	0	9.160943	239.3325391	177.3241976
Los Angele	2023 Annual	LDT1	3.78E-04	0	0	3.78E-04	0.393547664	0	0	0.393547664	0.30318912
Los Angele	2023 Annual	LDT1	0.032921989	0	0.006200192	0.039122181	230.6952807	0	9.068864	239.7641447	155.0964372
Los Angele	2023 Annual	LDT1	2.77E-04	0	0	2.77E-04	0.296148729	0	0	0.296148729	0.19910079
Los Angele	2023 Annual	LDT1	0.034563439	0	0.006406686	0.040970125	244.0877577	0	9.481826	253.5695837	159.9262988
Los Angele	2023 Annual	LDT1	3.66E-04	0	0	3.66E-04	0.402968763	0	0	0.402968763	0.264025133
Los Angele	2023 Annual	LDT1	0.035749	0	0.006492492	0.042241492	255.0343124	0	9.758141	264.7924534	163.4259874
Los Angele	2023 Annual	LDT1	3.51E-04	0	0	3.51E-04	0.398902959	0	0	0.398902959	0.255617016
Los Angele	2023 Annual	LDT1	0.038306763	0	0.006793033	0.045099796	276.9172998	0	10.41747	287.3347698	170.2210642
Los Angele	2023 Annual	LDT1	3.57E-04	0	0	3.57E-04	0.42068866	0	0	0.42068866	0.258597319
Los Angele	2023 Annual	LDT1	0.039057924	0	0.006719792	0.045777715	287.6168745	0	10.59559	298.2124645	170.0678579
Los Angele	2023 Annual	LDT1	4.49E-04	0	0	4.49E-04	0.552201793	0	0	0.552201793	0.32651692
Los Angele	2023 Annual	LDT1	0.039706167	0	0.006564264	0.046270431	302.5903236	0	10.87155	313.4618736	178.9216584
Los Angele	2023 Annual	LDT1	3.01E-04	0	0	3.01E-04	0.387120881	0	0	0.387120881	0.248904577
Los Angele	2023 Annual	LDT1	0.038515182	0	0.006036633	0.044551814	314.7250095	0	11.00674	325.7317495	186.0968981
Los Angele	2023 Annual	LDT1	3.09E-04	0	0	3.09E-04	0.418493663	0	0	0.418493663	0.247455303
Los Angele	2023 Annual	LDT1	0.038031022	0	0.005598355	0.043629377	328.0209691	0	11.10027	339.1212391	193.958799
Los Angele	2023 Annual	LDT1	3.53E-04	0	0	3.53E-04	0.505435666	0	0	0.505435666	0.298864109
Los Angele	2023 Annual	LDT1	0.03757048	0	0.005066829	0.042637309	349.7271899	0	11.36142	361.0886099	206.7936874
Los Angele	2023 Annual	LDT1	2.90E-04	0	0	2.90E-04	0.442763118	0	0	0.442763118	0.261805832
Los Angele	2023 Annual	LDT1	0.03903482	0	0.0047568	0.043791621	388.9057762	0	12.02833	400.9341062	229.9599855
Los Angele	2023 Annual	LDT1	2.13E-04	0	0	2.13E-04	0.348358531	0	0	0.348358531	0.2059844
Los Angele	2023 Annual	LDT1	0.040156807	0	0.004293048	0.044449856	430.2866193	0	12.45758	442.7441993	254.428478
Los Angele	2023 Annual	LDT1	1.76E-04	0	0	1.76E-04	0.313583806	0	0	0.313583806	0.185422104
Los Angele	2023 Annual	LDT1	0.041397317	0	0.00366491	0.045062227	480.9679928	0	12.54108	493.5090728	284.3963741
Los Angele	2023 Annual	LDT1	2.39E-04	0	0	2.39E-04	0.466959919	0	0	0.466959919	0.2761134
Los Angele	2023 Annual	T6 instate heavy	0.033590456	0.001680046	0	0.035270502	19.43054874	0.334116514	0	19.76466526	17.48749387
Los Angele	2023 Annual	T6 instate heavy	0.031847446	0.001418872	0	0.033266318	20.17443387	0.282175946	0	20.45660981	18.15699048
Los Angele	2023 Annual	T6 instate heavy	0.032856441	0.001493015	0	0.034349456	23.77382371	0.29692102	0	24.07074473	21.39644134
Los Angele	2023 Annual	T6 instate heavy	0.041395778	0.002552195	0	0.043947973	36.78551843	0.507563689	0	37.29308212	33.10696659
Los Angele	2023 Annual	T6 instate heavy	0.064627457	0.004408229	0	0.069035687	59.97086385	0.876679634	0	60.84754348	53.97377746
Los Angele	2023 Annual	T6 instate heavy	0.106257388	0.0084716	0	0.114728988	103.4667035	1.684776118	0	105.1514796	93.12003314
Los Angele	2023 Annual	T6 instate heavy	0.052321244	0.003592193	0	0.055913437	53.7681712	0.714391758	0	54.48256296	48.39135408
Los Angele	2023 Annual	T6 instate heavy	0.087886647	0.006954742	0	0.094841389	95.96619579	1.383113306	0	97.34930909	86.36957621
Los Angele	2023 Annual	T6 instate heavy	0.046770323	0.00239825	0	0.049168574	54.70049421	0.476948241	0	55.17744246	49.23044479
Los Angele	2023 Annual	T6 instate heavy	0.045340833	0.002397942	0	0.047738775	57.33416898	0.476886842	0	57.81105582	51.60075208
Los Angele	2023 Annual	T6 instate heavy	0.043795688	0.002444605	0	0.046240293	60.53155882	0.486166976	0	61.0177258	54.47840294
Los Angele	2023 Annual	T6 instate heavy	0.04169278	0.002526127	0	0.044218907	63.76902577	0.502379533	0	64.2714053	57.39212319
Los Angele	2023 Annual	T6 instate heavy	0.039707592	0.002709625	0	0.042417217	68.13336127	0.538872461	0	68.67223373	61.32002514
Los Angele	2023 Annual	T6 instate heavy	0.031079504	0.002412771	0	0.033492275	60.69254048	0.479836024	0	61.1723765	54.62328643
Los Angele	2023 Annual	T6 instate heavy	0.002818363	6.07E-04	0	0.003425539	6.385488039	0.120751033	0	6.506239071	5.746939235
Los Angele	2023 Annual	LDA/LDT1	6.949451092	0	1.164593352	8.114044445	50371.58321	0	1857.647961	52229.23117	32310.95999
Los Angele	2023 Annual	T6 instate heavy	0.70198794	0.046067388	0	0.748055329	784.8828966	9.161579092	0	794.0444757	706.394607

Los Angele	2023 Annual	LDA	0	0	4.750516764	7.52E-05	0	0	7.52E-05	2.02E-04	9.30E-04
Los Angele	2023 Annual	LDA	0	75.66115149	3085.221092	0.034031936	0	0.0093409	0.043372836	0.1095094	0.5030587
Los Angele	2023 Annual	LDA	0	0	5.491251899	7.91E-05	0	0	7.91E-05	2.34E-04	0.001074573
Los Angele	2023 Annual	LDT1	0	3.7421469	94.43519136	6.70E-05	0	8.62E-06	7.56E-05	0.001867995	0.008581102
Los Angele	2023 Annual	LDT1	0	0	0	0	0	0	0	0	0
Los Angele	2023 Annual	LDT1	0	8.0296389	204.315515	1.45E-04	0	2.40E-05	1.69E-04	0.004046474	0.018588491
Los Angele	2023 Annual	LDT1	0	0	0	0	0	0	0	0	0
Los Angele	2023 Annual	LDT1	0	7.4020473	189.7193527	1.80E-04	0	3.50E-05	2.15E-04	0.003752094	0.017236181
Los Angele	2023 Annual	LDT1	0	0	0	0	0	0	0	0	0
Los Angele	2023 Annual	LDT1	0	8.084152593	209.2474363	2.05E-04	0	4.89E-05	2.54E-04	0.004292745	0.0197198
Los Angele	2023 Annual	LDT1	0	0	0.230844311	4.32E-06	0	0	4.32E-06	6.70E-06	3.08E-05
Los Angele	2023 Annual	LDT1	0	7.057590487	184.3817881	3.06E-04	0	8.96E-05	3.96E-04	0.004266321	0.019598417
Los Angele	2023 Annual	LDT1	0	0	0.30318912	6.25E-06	0	0	6.25E-06	9.91E-06	4.55E-05
Los Angele	2023 Annual	LDT1	0	6.096997267	161.1934345	4.09E-04	0	1.25E-04	5.34E-04	0.004276344	0.019644452
Los Angele	2023 Annual	LDT1	0	0	0.19910079	4.58E-06	0	0	4.58E-06	7.46E-06	3.43E-05
Los Angele	2023 Annual	LDT1	0	6.212492395	166.1387912	6.49E-04	0	2.45E-04	8.93E-04	0.004525157	0.020787442
Los Angele	2023 Annual	LDT1	0	0	0.264025133	6.05E-06	0	0	6.05E-06	1.02E-05	4.66E-05
Los Angele	2023 Annual	LDT1	0	6.253016753	169.6790042	9.04E-04	0	3.56E-04	0.001260066	0.004728301	0.02172064
Los Angele	2023 Annual	LDT1	0	0	0.255617016	5.79E-06	0	0	5.79E-06	1.00E-05	4.62E-05
Los Angele	2023 Annual	LDT1	0	6.403618809	176.624683	0.001227038	0	4.89E-04	0.001716511	0.005134762	0.023587814
Los Angele	2023 Annual	LDT1	0	0	0.228597319	5.89E-06	0	0	5.89E-06	1.06E-05	4.87E-05
Los Angele	2023 Annual	LDT1	0	6.265172367	176.3330302	0.001465172	0	5.81E-04	0.00204611	0.005331837	0.024493126
Los Angele	2023 Annual	LDT1	0	0	0.32651692	7.43E-06	0	0	7.43E-06	1.39E-05	6.39E-05
Los Angele	2023 Annual	LDT1	0	6.428347515	185.3500059	0.001674981	0	6.52E-04	0.002326637	0.005607732	0.02576052
Los Angele	2023 Annual	LDT1	0	0	0.228904577	4.98E-06	0	0	4.98E-06	9.75E-06	4.48E-05
Los Angele	2023 Annual	LDT1	0	6.508285362	192.6051835	0.001811289	0	6.88E-04	0.002499417	0.005831658	0.026789188
Los Angele	2023 Annual	LDT1	0	0	0.247455303	5.12E-06	0	0	5.12E-06	1.05E-05	4.84E-05
Los Angele	2023 Annual	LDT1	0	6.563589651	200.5223887	0.001887238	0	6.96E-04	0.002583207	0.006076022	0.027911728
Los Angele	2023 Annual	LDT1	0	0	0.298864109	5.84E-06	0	0	5.84E-06	1.27E-05	5.85E-05
Los Angele	2023 Annual	LDT1	0	6.718007646	213.511695	0.002011514	0	7.12E-04	0.002723857	0.006476525	0.029751543
Los Angele	2023 Annual	LDT1	0	0	0.261805832	4.81E-06	0	0	4.81E-06	1.12E-05	5.12E-05
Los Angele	2023 Annual	LDT1	0	7.112351529	237.072337	0.002236179	0	7.54E-04	0.002990336	0.00719954	0.0330729
Los Angele	2023 Annual	LDT1	0	0	0.2059844	3.52E-06	0	0	3.52E-06	8.77E-06	4.03E-05
Los Angele	2023 Annual	LDT1	0	7.366167054	261.7946451	0.002473367	0	7.81E-04	0.003254437	0.007962737	0.036578834
Los Angele	2023 Annual	LDT1	0	0	0.185422104	2.92E-06	0	0	2.92E-06	7.90E-06	3.63E-05
Los Angele	2023 Annual	LDT1	0	7.415540604	291.8119147	0.002763857	0	7.86E-04	0.003550163	0.008897955	0.040874992
Los Angele	2023 Annual	LDT1	0	0	0.2761134	3.96E-06	0	0	3.96E-06	1.18E-05	5.40E-05
Los Angele	2023 Annual	T6 instate heavy	0.300704862	0	17.78819873	0.001163587	3.95E-06	0	0.001167536	2.08E-04	0.002259376
Los Angele	2023 Annual	T6 instate heavy	0.253958351	0	18.41094883	0.001170053	3.33E-06	0	0.001173388	2.16E-04	0.002345875
Los Angele	2023 Annual	T6 instate heavy	0.267228918	0	21.66367026	0.001330326	3.51E-06	0	0.001333835	2.55E-04	0.002764411
Los Angele	2023 Annual	T6 instate heavy	0.45680732	0	33.56377391	0.001581125	6.00E-06	0	0.001587124	3.95E-04	0.004287272
Los Angele	2023 Annual	T6 instate heavy	0.78901167	0	54.76278913	0.002484017	1.04E-05	0	0.002494377	6.43E-04	0.006989474
Los Angele	2023 Annual	T6 instate heavy	1.516298506	0	94.63633165	0.004113877	1.99E-05	0	0.004133788	0.001110218	0.01205882
Los Angele	2023 Annual	T6 instate heavy	0.642952582	0	49.03430667	0.002042941	8.44E-06	0	0.002051384	5.77E-04	0.006266564
Los Angele	2023 Annual	T6 instate heavy	1.244801975	0	87.61437818	0.003466202	1.63E-05	0	0.003482548	0.001029736	0.011184652
Los Angele	2023 Annual	T6 instate heavy	0.429253417	0	49.65969821	0.001866814	5.64E-06	0	0.001872451	5.87E-04	0.006375224
Los Angele	2023 Annual	T6 instate heavy	0.429198158	0	52.02995024	0.001836105	5.64E-06	0	0.001841741	6.15E-04	0.006682173
Los Angele	2023 Annual	T6 instate heavy	0.437550278	0	54.91595322	0.001805058	5.75E-06	0	0.001810804	6.50E-04	0.007054822
Los Angele	2023 Annual	T6 instate heavy	0.452141579	0	57.84426477	0.001755985	5.94E-06	0	0.001761922	6.84E-04	0.007432142
Los Angele	2023 Annual	T6 instate heavy	0.484985215	0	61.80501036	0.001717664	6.37E-06	0	0.001724033	7.31E-04	0.007940795
Los Angele	2023 Annual	T6 instate heavy	0.431852421	0	55.05513885	0.001389497	5.67E-06	0	0.001395168	6.51E-04	0.007073584
Los Angele	2023 Annual	T6 instate heavy	0.108675929	0	5.855615164	1.31E-04	1.43E-06	0	1.33E-04	6.85E-05	7.44E-04
Los Angele	2023 Annual	LDA/LDT1	0	1214.514799	33525.47479	0.2596938	0	0.094020434	0.353714235	1.071142469	4.920561288
Los Angele	2023 Annual	T6 instate heavy	8.245421182	0	714.6400282	0.02785465	0.000108274	0	0.027962924	0.008420383	0.091459398



Los Angele	2023 Annual	LDA	0.001207216	6.92E-05	0	0	6.92E-05	5.06E-05	3.98E-04	5.18E-04	7.67E-05
Los Angele	2023 Annual	LDA	0.655940936	0.031576023	0	0.008666814	0.040242837	0.027377343	0.2155966	0.28321678	0.050893262
Los Angele	2023 Annual	LDA	0.001387585	7.28E-05	0	0	7.28E-05	5.85E-05	4.61E-04	5.92E-04	8.87E-05
Los Angele	2023 Annual	LDT1	0.010524693	6.21E-05	0	8.00E-06	7.01E-05	4.67E-04	0.003677615	0.004214755	0.001009128
Los Angele	2023 Annual	LDT1	0	0	0	0	0	0	0	0	0
Los Angele	2023 Annual	LDT1	0.022803967	1.34E-04	0	2.23E-05	1.57E-04	0.001011619	0.007966496	0.00913492	0.002183432
Los Angele	2023 Annual	LDT1	0	0	0	0	0	0	0	0	0
Los Angele	2023 Annual	LDT1	0.021202806	1.67E-04	0	3.25E-05	1.99E-04	9.38E-04	0.007386935	0.008524007	0.002027944
Los Angele	2023 Annual	LDT1	0	0	0	0	0	0	0	0	0
Los Angele	2023 Annual	LDT1	0.024266692	1.90E-04	0	4.54E-05	2.36E-04	0.001073186	0.008451343	0.009760335	0.002318583
Los Angele	2023 Annual	LDT1	4.18E-05	3.98E-06	0	0	3.98E-06	1.67E-06	1.32E-05	1.88E-05	2.54E-06
Los Angele	2023 Annual	LDT1	0.024260341	2.84E-04	0	8.32E-05	3.67E-04	0.00106658	0.008399321	0.009832956	0.002303982
Los Angele	2023 Annual	LDT1	6.17E-05	5.75E-06	0	0	5.75E-06	2.48E-06	1.95E-05	2.77E-05	3.76E-06
Los Angele	2023 Annual	LDT1	0.02445451	3.79E-04	0	1.16E-04	4.95E-04	0.001069086	0.008419051	0.009983336	0.002309129
Los Angele	2023 Annual	LDT1	4.63E-05	4.21E-06	0	0	4.21E-06	1.86E-06	1.47E-05	2.08E-05	2.83E-06
Los Angele	2023 Annual	LDT1	0.026206047	6.02E-04	0	2.27E-04	8.29E-04	0.001131289	0.008908903	0.010869165	0.002443049
Los Angele	2023 Annual	LDT1	6.28E-05	5.56E-06	0	0	5.56E-06	2.54E-06	2.00E-05	2.81E-05	3.85E-06
Los Angele	2023 Annual	LDT1	0.027709007	8.39E-04	0	3.30E-04	0.001169133	0.001182075	0.009308845	0.011660053	0.002552453
Los Angele	2023 Annual	LDT1	6.20E-05	5.33E-06	0	0	5.33E-06	2.51E-06	1.98E-05	2.76E-05	3.81E-06
Los Angele	2023 Annual	LDT1	0.030439087	0.001138489	0	4.54E-04	0.001592639	0.00128369	0.010109062	0.012985392	0.002771276
Los Angele	2023 Annual	LDT1	6.52E-05	5.42E-06	0	0	5.42E-06	2.65E-06	2.09E-05	2.89E-05	4.02E-06
Los Angele	2023 Annual	LDT1	0.031871073	0.001359438	0	5.39E-04	0.001898452	0.001332959	0.010497054	0.013728466	0.002878121
Los Angele	2023 Annual	LDT1	8.52E-05	6.83E-06	0	0	6.83E-06	3.48E-06	2.74E-05	3.77E-05	5.27E-06
Los Angele	2023 Annual	LDT1	0.033694889	0.001554106	0	6.05E-04	0.002158736	0.001401933	0.011040223	0.014600891	0.003027649
Los Angele	2023 Annual	LDT1	5.95E-05	4.58E-06	0	0	4.58E-06	2.44E-06	1.92E-05	2.62E-05	3.70E-06
Los Angele	2023 Annual	LDT1	0.035120263	0.001680578	0	6.38E-04	0.002319047	0.001457915	0.011481077	0.015258038	0.003148564
Los Angele	2023 Annual	LDT1	6.41E-05	4.71E-06	0	0	4.71E-06	2.64E-06	2.08E-05	2.81E-05	4.00E-06
Los Angele	2023 Annual	LDT1	0.036570957	0.001751045	0	6.46E-04	0.00239679	0.001519005	0.01196217	0.015877966	0.003280737
Los Angele	2023 Annual	LDT1	7.71E-05	5.38E-06	0	0	5.38E-06	3.18E-06	2.51E-05	3.36E-05	4.83E-06
Los Angele	2023 Annual	LDT1	0.038951925	0.001866353	0	6.61E-04	0.00252729	0.001619131	0.012750661	0.016897082	0.003497248
Los Angele	2023 Annual	LDT1	6.72E-05	4.42E-06	0	0	4.42E-06	2.79E-06	2.20E-05	2.92E-05	4.23E-06
Los Angele	2023 Annual	LDT1	0.043262777	0.002074805	0	7.00E-04	0.002774539	0.001799885	0.014174098	0.018748522	0.003888564
Los Angele	2023 Annual	LDT1	5.26E-05	3.24E-06	0	0	3.24E-06	2.19E-06	1.73E-05	2.27E-05	3.33E-06
Los Angele	2023 Annual	LDT1	0.047796008	0.002294877	0	7.25E-04	0.003019581	0.001990684	0.01567664	0.020686905	0.004301862
Los Angele	2023 Annual	LDT1	4.71E-05	2.69E-06	0	0	2.69E-06	1.97E-06	1.56E-05	2.02E-05	2.99E-06
Los Angele	2023 Annual	LDT1	0.053323109	0.002564404	0	7.30E-04	0.003293965	0.002224489	0.017517854	0.023036308	0.00480809
Los Angele	2023 Annual	LDT1	6.98E-05	3.64E-06	0	0	3.64E-06	2.94E-06	2.32E-05	2.97E-05	4.46E-06
Los Angele	2023 Annual	T6 instate heavy	0.003634926	0.0010705	3.63E-06	0	0.001074133	5.20E-05	9.68E-04	0.002094441	1.85E-04
Los Angele	2023 Annual	T6 instate heavy	0.003735241	0.001076449	3.07E-06	0	0.001079517	5.40E-05	0.001005375	0.002138886	1.92E-04
Los Angele	2023 Annual	T6 instate heavy	0.004352756	0.0012239	3.23E-06	0	0.001227128	6.36E-05	0.001184747	0.002475503	2.27E-04
Los Angele	2023 Annual	T6 instate heavy	0.006269112	0.001454635	5.52E-06	0	0.001460154	9.87E-05	0.001837402	0.003396235	3.51E-04
Los Angele	2023 Annual	T6 instate heavy	0.010127351	0.002285295	9.53E-06	0	0.002294827	1.61E-04	0.002995489	0.005451191	5.72E-04
Los Angele	2023 Annual	T6 instate heavy	0.017302826	0.003784767	1.83E-05	0	0.003803085	2.78E-04	0.005168066	0.009248705	9.87E-04
Los Angele	2023 Annual	T6 instate heavy	0.008894891	0.001879506	7.77E-06	0	0.001887273	1.44E-04	0.00268567	0.004717179	5.13E-04
Los Angele	2023 Annual	T6 instate heavy	0.015696937	0.003188906	1.50E-05	0	0.003203945	2.57E-04	0.004793422	0.008254801	9.16E-04
Los Angele	2023 Annual	T6 instate heavy	0.008834622	0.001717469	5.19E-06	0	0.001722655	1.47E-04	0.002732239	0.00460163	5.22E-04
Los Angele	2023 Annual	T6 instate heavy	0.009139121	0.001689217	5.19E-06	0	0.001694402	1.54E-04	0.002863788	0.004711992	5.47E-04
Los Angele	2023 Annual	T6 instate heavy	0.009515141	0.001660653	5.29E-06	0	0.001665939	1.62E-04	0.003023495	0.004851813	5.77E-04
Los Angele	2023 Annual	T6 instate heavy	0.009878318	0.001615506	5.46E-06	0	0.001620968	1.71E-04	0.003185204	0.004977235	6.08E-04
Los Angele	2023 Annual	T6 instate heavy	0.010395912	0.001580251	5.86E-06	0	0.00158611	1.83E-04	0.003403198	0.005172079	6.50E-04
Los Angele	2023 Annual	T6 instate heavy	0.009119994	0.001278337	5.22E-06	0	0.001283554	1.63E-04	0.003031536	0.004477901	5.79E-04
Los Angele	2023 Annual	T6 instate heavy	9.46E-04	1.21E-04	1.31E-06	0	1.22E-04	1.71E-05	3.19E-04	4.58E-04	6.09E-05
Los Angele	2023 Annual	LDA/LDT1	6.345417992	0.240939358	0	0.087235452	0.32817481	0.267785609	2.108812007	2.704772427	0.503997551
Los Angele	2023 Annual	T6 instate heavy	0.127842705	0.025626278	9.96117E-05	0	0.02572589	0.002105096	0.039196885	0.067027871	0.00748815

Los Angele	2023 Annual	LDA	0	0	7.67E-05	0	0.7230618	1.03E-05	9.54E-05	3.30E-04	6.56E-06	9.87E-05	6.03E-06	3.91E-05	6.68E-06
Los Angele	2023 Annual	LDA	0	0.001291776	0.052185038	556.6294	0	4.96E-05	9.91E-04	8.95E-05	6.99E-06	9.87E-05	6.48E-06	3.91E-05	8.40E-06
Los Angele	2023 Annual	LDA	0	0	8.87E-05	0	0.8358071	9.23E-06	8.53E-05	3.00E-04	5.96E-06	9.87E-05	5.49E-06	3.91E-05	6.68E-06
Los Angele	2023 Annual	LDT1	0	4.25E-05	0.001051645	11.21732	0	3.70E-04	2.42E-03	1.56E-04	7.14E-07	9.87E-05	6.62E-07	3.91E-05	9.93E-06
Los Angele	2023 Annual	LDT1	0	0	0	0	0	0	0	0	0	0	0	0	0
Los Angele	2023 Annual	LDT1	0	9.10E-05	0.002274419	24.25998	0	3.29E-04	2.19E-03	1.52E-04	7.37E-07	9.87E-05	6.83E-07	3.91E-05	9.91E-06
Los Angele	2023 Annual	LDT1	0	0	0	0	0	0	0	0	0	0	0	0	0
Los Angele	2023 Annual	LDT1	0	8.38E-05	0.002111775	22.52515	0	2.95E-04	2.14E-03	1.58E-04	1.01E-06	9.87E-05	9.36E-07	3.91E-05	9.93E-06
Los Angele	2023 Annual	LDT1	0	0	0	0	0	0	0	0	0	0	0	0	0
Los Angele	2023 Annual	LDT1	0	9.48E-05	0.002413398	25.74239	0	2.65E-04	2.08E-03	1.64E-04	1.04E-06	9.87E-05	9.69E-07	3.91E-05	9.92E-06
Los Angele	2023 Annual	LDT1	0	0	2.54E-06	0	0.023921695	2.24E-05	2.10E-04	6.89E-04	1.14E-05	9.87E-05	1.05E-05	3.91E-05	6.68E-06
Los Angele	2023 Annual	LDT1	0	9.33E-05	0.002397272	25.57039	0	2.37E-04	2.05E-03	1.63E-04	1.64E-06	9.87E-05	1.52E-06	3.91E-05	9.91E-06
Los Angele	2023 Annual	LDT1	0	0	3.76E-06	0	0.035419296	2.19E-05	2.05E-04	6.73E-04	1.11E-05	9.87E-05	1.02E-05	3.91E-05	6.68E-06
Los Angele	2023 Annual	LDT1	0	9.23E-05	0.002401451	25.61496	0	2.09E-04	2.01E-03	1.61E-04	2.20E-06	9.87E-05	2.04E-06	3.91E-05	9.90E-06
Los Angele	2023 Annual	LDT1	0	0	2.83E-06	0	0.026653385	2.13E-05	1.99E-04	6.55E-04	1.08E-05	9.87E-05	9.96E-06	3.91E-05	6.68E-06
Los Angele	2023 Annual	LDT1	0	9.65E-05	0.002539534	27.08782	0	1.91E-04	1.97E-03	1.60E-04	3.48E-06	9.87E-05	3.23E-06	3.91E-05	9.90E-06
Los Angele	2023 Annual	LDT1	0	0	3.76E-06	0	0.036267191	2.06E-05	1.92E-04	6.36E-04	1.05E-05	9.87E-05	9.67E-06	3.91E-05	6.68E-06
Los Angele	2023 Annual	LDT1	0	9.92E-05	0.002651702	28.28425	0	1.72E-04	1.91E-03	1.58E-04	4.70E-06	9.87E-05	4.36E-06	3.91E-05	9.89E-06
Los Angele	2023 Annual	LDT1	0	0	3.81E-06	0	0.035901267	1.99E-05	1.85E-04	6.15E-04	1.02E-05	9.87E-05	9.36E-06	3.91E-05	6.68E-06
Los Angele	2023 Annual	LDT1	0	1.06E-04	0.002877173	30.68923	0	1.52E-04	1.86E-03	1.55E-04	5.90E-06	9.87E-05	5.47E-06	3.91E-05	9.88E-06
Los Angele	2023 Annual	LDT1	0	0	4.70E-06	0	0.037861977	1.91E-05	1.78E-04	5.93E-04	9.81E-06	9.87E-05	9.02E-06	3.91E-05	6.68E-06
Los Angele	2023 Annual	LDT1	0	1.08E-04	0.002985758	31.84744	0	1.31E-04	1.79E-03	1.51E-04	6.77E-06	9.87E-05	6.28E-06	3.91E-05	9.88E-06
Los Angele	2023 Annual	LDT1	0	0	5.27E-06	0	0.049698167	1.83E-05	1.70E-04	5.70E-04	9.42E-06	9.87E-05	8.67E-06	3.91E-05	6.68E-06
Los Angele	2023 Annual	LDT1	0	1.10E-04	0.003137999	33.47131	0	1.06E-04	1.70E-03	1.46E-04	7.32E-06	9.87E-05	6.79E-06	3.91E-05	9.87E-06
Los Angele	2023 Annual	LDT1	0	0	3.70E-06	0	0.034840878	1.74E-05	1.62E-04	5.45E-04	9.01E-06	9.87E-05	8.29E-06	3.91E-05	6.68E-06
Los Angele	2023 Annual	LDT1	0	1.12E-04	0.003260145	34.77419	0	9.22E-05	1.58E-03	1.35E-04	7.56E-06	9.87E-05	7.01E-06	3.91E-05	9.86E-06
Los Angele	2023 Annual	LDT1	0	0	4.00E-06	0	0.037664432	1.65E-05	1.53E-04	5.17E-04	8.56E-06	9.87E-05	7.88E-06	3.91E-05	6.68E-06
Los Angele	2023 Annual	LDT1	0	1.12E-04	0.003393035	36.19165	0	7.95E-05	1.38E-03	1.27E-04	7.50E-06	9.87E-05	6.96E-06	3.91E-05	9.85E-06
Los Angele	2023 Annual	LDT1	0	0	4.83E-06	0	0.045489218	1.55E-05	1.43E-04	4.89E-04	8.09E-06	9.87E-05	7.45E-06	3.91E-05	6.68E-06
Los Angele	2023 Annual	LDT1	0	1.15E-04	0.003612035	38.52761	0	6.98E-05	1.25E-03	1.16E-04	7.42E-06	9.87E-05	6.88E-06	3.91E-05	9.84E-06
Los Angele	2023 Annual	LDT1	0	0	4.23E-06	0	0.039848685	1.45E-05	1.34E-04	4.59E-04	7.61E-06	9.87E-05	7.00E-06	3.91E-05	6.68E-06
Los Angele	2023 Annual	LDT1	0	1.21E-04	0.004009976	42.77222	0	6.20E-05	1.16E-03	1.07E-04	7.33E-06	9.87E-05	6.80E-06	3.91E-05	9.82E-06
Los Angele	2023 Annual	LDT1	0	0	3.33E-06	0	0.031352267	1.34E-05	1.23E-04	4.27E-04	7.08E-06	9.87E-05	6.52E-06	3.91E-05	6.68E-06
Los Angele	2023 Annual	LDT1	0	1.26E-04	0.004427508	47.2258	0	5.46E-05	1.07E-03	9.85E-05	7.21E-06	9.87E-05	6.69E-06	3.91E-05	9.81E-06
Los Angele	2023 Annual	LDT1	0	0	2.99E-06	0	0.028222542	1.22E-05	1.12E-04	3.94E-04	6.53E-06	9.87E-05	6.01E-06	3.91E-05	6.68E-06
Los Angele	2023 Annual	LDT1	0	1.26E-04	0.004934493	52.63354	0	4.65E-05	9.92E-04	8.93E-05	7.04E-06	9.87E-05	6.53E-06	3.91E-05	9.78E-06
Los Angele	2023 Annual	LDT1	0	0	4.46E-06	0	0.042026393	1.09E-05	9.99E-05	3.58E-04	5.94E-06	9.87E-05	5.46E-06	3.91E-05	6.68E-06
Los Angele	2023 Annual	T6 instate heavy	3.19E-06	0	1.89E-04	0	1.778819873	3.14E-04	1.41E-03	4.49E-03	1.48E-04	3.14E-04	1.37E-04	1.30E-04	2.40E-05
Los Angele	2023 Annual	T6 instate heavy	2.69E-06	0	1.95E-04	0	1.841094883	3.03E-04	1.35E-03	4.07E-03	1.44E-04	3.14E-04	1.32E-04	1.30E-04	2.39E-05
Los Angele	2023 Annual	T6 instate heavy	2.83E-06	0	2.30E-04	0	2.166367026	2.94E-04	1.30E-03	3.57E-03	1.39E-04	3.14E-04	1.28E-04	1.30E-04	2.39E-05
Los Angele	2023 Annual	T6 instate heavy	4.84E-06	0	3.56E-04	0	3.356377391	2.35E-04	1.06E-03	2.95E-03	1.06E-04	3.14E-04	9.79E-05	1.30E-04	2.38E-05
Los Angele	2023 Annual	T6 instate heavy	8.36E-06	0	5.81E-04	0	5.476278913	2.29E-04	1.04E-03	2.84E-03	1.03E-04	3.14E-04	9.43E-05	1.30E-04	2.39E-05
Los Angele	2023 Annual	T6 instate heavy	1.61E-05	0	0.001003194	0	9.463633165	2.24E-04	1.03E-03	2.73E-03	9.85E-05	3.14E-04	9.06E-05	1.30E-04	2.39E-05
Los Angele	2023 Annual	T6 instate heavy	6.82E-06	0	5.20E-04	0	4.903430667	2.14E-04	9.72E-04	2.56E-03	9.41E-05	3.14E-04	8.65E-05	1.30E-04	2.38E-05
Los Angele	2023 Annual	T6 instate heavy	1.32E-05	0	9.29E-04	0	8.761437818	2.07E-04	9.48E-04	2.44E-03	8.95E-05	3.14E-04	8.23E-05	1.30E-04	2.39E-05
Los Angele	2023 Annual	T6 instate heavy	4.55E-06	0	5.26E-04	0	4.965969821	1.95E-04	8.67E-04	2.22E-03	8.44E-05	3.14E-04	7.76E-05	1.30E-04	2.37E-05
Los Angele	2023 Annual	T6 instate heavy	4.55E-06	0	5.52E-04	0	5.202995024	1.86E-04	8.26E-04	2.05E-03	7.92E-05	3.14E-04	7.29E-05	1.30E-04	2.37E-05
Los Angele	2023 Annual	T6 instate heavy	4.64E-06	0	5.82E-04	0	5.491595322	1.77E-04	7.86E-04	1.88E-03	7.38E-05	3.14E-04	6.79E-05	1.30E-04	2.37E-05
Los Angele	2023 Annual	T6 instate heavy	4.79E-06	0	6.13E-04	0	5.784426477	1.70E-04	7.44E-04	1.71E-03	6.81E-05	3.14E-04	6.27E-05	1.30E-04	2.37E-05
Los Angele	2023 Annual	T6 instate heavy	5.14E-06	0	6.55E-04	0	6.180501036	1.57E-04	7.04E-04	1.53E-03	6.24E-05	3.14E-04	5.74E-05	1.30E-04	2.37E-05
Los Angele	2023 Annual	T6 instate heavy	4.58E-06	0	5.84E-04	0	5.505513885	1.48E-04	6.63E-04	1.36E-03	5.67E-05	3.14E-04	5.21E-05	1.30E-04	2.37E-05
Los Angele	2023 Annual	T6 instate heavy	1.15E-06	0	6.21E-05	0	0.585561516	1.46E-04	7.13E-04	1.32E-03	5.13E-05	3.14E-04	4.72E-05	1.30E-04	2.40E-05
Los Angele	2023 Annual	LDA/LDT1	0	0.018881332	0.522878882	5563.64215	12.03880155	1.26E-04	1.57E-03	1.34E-04	5.82E-06	9.87E-05	5.40E-06	3.91E-05	8.61E-06
Los Angele	2023 Annual	T6 instate heavy	8.74057E-05	0	0.007575556	0	71.46400282	2.03E-04	9.16E-04	2.35E-03	8.79E-05	3.14E-04	8.08E-05	1.30E-04	2.38E-05

Los Angele	2023 Annual	LDA	2.07E-04
Los Angele	2023 Annual	LDA	2.48E-04
Los Angele	2023 Annual	LDA	2.07E-04
Los Angele	2023 Annual	LDT1	4.46E-04
Los Angele	2023 Annual	LDT1	
Los Angele	2023 Annual	LDT1	4.45E-04
Los Angele	2023 Annual	LDT1	
Los Angele	2023 Annual	LDT1	4.46E-04
Los Angele	2023 Annual	LDT1	
Los Angele	2023 Annual	LDT1	4.30E-04
Los Angele	2023 Annual	LDT1	3.04E-04
Los Angele	2023 Annual	LDT1	3.81E-04
Los Angele	2023 Annual	LDT1	2.70E-04
Los Angele	2023 Annual	LDT1	3.32E-04
Los Angele	2023 Annual	LDT1	2.35E-04
Los Angele	2023 Annual	LDT1	3.24E-04
Los Angele	2023 Annual	LDT1	2.29E-04
Los Angele	2023 Annual	LDT1	3.16E-04
Los Angele	2023 Annual	LDT1	2.24E-04
Los Angele	2023 Annual	LDT1	3.03E-04
Los Angele	2023 Annual	LDT1	2.15E-04
Los Angele	2023 Annual	LDT1	2.92E-04
Los Angele	2023 Annual	LDT1	2.07E-04
Los Angele	2023 Annual	LDT1	2.91E-04
Los Angele	2023 Annual	LDT1	2.07E-04
Los Angele	2023 Annual	LDT1	2.91E-04
Los Angele	2023 Annual	LDT1	2.07E-04
Los Angele	2023 Annual	LDT1	2.91E-04
Los Angele	2023 Annual	LDT1	2.07E-04
Los Angele	2023 Annual	LDT1	2.91E-04
Los Angele	2023 Annual	LDT1	2.07E-04
Los Angele	2023 Annual	LDT1	2.90E-04
Los Angele	2023 Annual	LDT1	2.07E-04
Los Angele	2023 Annual	LDT1	2.90E-04
Los Angele	2023 Annual	LDT1	2.07E-04
Los Angele	2023 Annual	LDT1	2.89E-04
Los Angele	2023 Annual	LDT1	2.07E-04
Los Angele	2023 Annual	T6 instate heavy	1.13E-03
Los Angele	2023 Annual	T6 instate heavy	1.13E-03
Los Angele	2023 Annual	T6 instate heavy	1.13E-03
Los Angele	2023 Annual	T6 instate heavy	1.12E-03
Los Angele	2023 Annual	T6 instate heavy	1.13E-03
Los Angele	2023 Annual	T6 instate heavy	1.13E-03
Los Angele	2023 Annual	T6 instate heavy	1.12E-03
Los Angele	2023 Annual	T6 instate heavy	1.13E-03
Los Angele	2023 Annual	T6 instate heavy	1.12E-03
Los Angele	2023 Annual	T6 instate heavy	1.12E-03
Los Angele	2023 Annual	T6 instate heavy	1.12E-03
Los Angele	2023 Annual	T6 instate heavy	1.12E-03
Los Angele	2023 Annual	T6 instate heavy	1.12E-03
Los Angele	2023 Annual	T6 instate heavy	1.12E-03
Los Angele	2023 Annual	T6 instate heavy	1.12E-03
Los Angele	2023 Annual	T6 instate heavy	1.12E-03
Los Angele	2023 Annual	T6 instate heavy	1.13E-03
Los Angele	2023 Annual	LDA/LDT1	2.76E-04
Los Angele	2023 Annual	T6 instate heavy	1.12E-03

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Area	CalYr	Season	Veh	Fuel	MdlYr	Speed (Miles/hr)	Pop (Vehicles)	VMT (Miles/day)	Trips (Trips/day)	ROG_RUNEX (Tons/day)	ROG_IDLEX (Tons/day)	ROG_STREX (Tons/day)	ROG_TOTEX (Tons/day)
Los Angele	2024	Annual	LDA	GAS	2007	AllSpeeds	79189.6	1886831.757	475090.1	0.027774145	0	0.03205213	0.059826275
Los Angele	2024	Annual	LDA	DSL	2007	AllSpeeds	0	0	0	0	0	0	0
Los Angele	2024	Annual	LDA	GAS	2008	AllSpeeds	92699.94	2261108.17	559851.6	0.031009574	0	0.03384386	0.064853434
Los Angele	2024	Annual	LDA	DSL	2008	AllSpeeds	16.17772	394.6068636	97.70365	3.93E-06	0	0	3.93E-06
Los Angele	2024	Annual	LDA	GAS	2009	AllSpeeds	89877.29	2245387.284	546399.2	0.031470047	0	0.03362897	0.065099017
Los Angele	2024	Annual	LDA	DSL	2009	AllSpeeds	563.1857	14069.9835	3423.827	1.38E-04	0	0	1.38E-04
Los Angele	2024	Annual	LDA	GAS	2010	AllSpeeds	127018.9	3253826.464	778548.2	0.045773294	0	0.04768613	0.093459424
Los Angele	2024	Annual	LDA	DSL	2010	AllSpeeds	1048.361	26855.77348	6425.811	2.57E-04	0	0	2.57E-04
Los Angele	2024	Annual	LDA	GAS	2011	AllSpeeds	138987	3654150.488	857464.2	0.050724131	0	0.051902268	0.102626399
Los Angele	2024	Annual	LDA	DSL	2011	AllSpeeds	994.8777	26156.68065	6137.781	2.45E-04	0	0	2.45E-04
Los Angele	2024	Annual	LDA	GAS	2012	AllSpeeds	158176.6	4273102.452	983760.2	0.058457896	0	0.05877167	0.117229566
Los Angele	2024	Annual	LDA	DSL	2012	AllSpeeds	947.338	25592.14959	5891.853	2.34E-04	0	0	2.34E-04
Los Angele	2024	Annual	LDA	GAS	2013	AllSpeeds	168574.6	4686150.47	1055172	0.063089297	0	0.062116224	0.125205521
Los Angele	2024	Annual	LDA	DSL	2013	AllSpeeds	912.0435	25353.64772	5708.821	2.25E-04	0	0	2.25E-04
Los Angele	2024	Annual	LDA	GAS	2014	AllSpeeds	182094.9	5216823.377	1148904	0.069033696	0	0.066541374	0.135575707
Los Angele	2024	Annual	LDA	DSL	2014	AllSpeeds	815.1358	23352.82677	5142.993	2.01E-04	0	0	2.01E-04
Los Angele	2024	Annual	LDA	GAS	2015	AllSpeeds	196669.7	5818027.824	1248728	0.075402504	0	0.070909649	0.146312153
Los Angele	2024	Annual	LDA	DSL	2015	AllSpeeds	789.0382	23341.9633	5009.892	1.94E-04	0	0	1.94E-04
Los Angele	2024	Annual	LDA	GAS	2016	AllSpeeds	206202.1	6312783.973	1317500	0.079951514	0	0.073164552	0.153116066
Los Angele	2024	Annual	LDA	DSL	2016	AllSpeeds	713.2896	21837.09946	4557.464	1.74E-04	0	0	1.74E-04
Los Angele	2024	Annual	LDA	GAS	2017	AllSpeeds	217886	6922310.58	1398689	0.08531177	0	0.075621732	0.160933502
Los Angele	2024	Annual	LDA	DSL	2017	AllSpeeds	739.0627	23480.3307	4744.308	1.80E-04	0	0	1.80E-04
Los Angele	2024	Annual	LDA	GAS	2018	AllSpeeds	225284.2	7450833.566	1450685	0.089074678	0	0.076115213	0.165189891
Los Angele	2024	Annual	LDA	DSL	2018	AllSpeeds	684.072	22624.41759	4404.983	1.65E-04	0	0	1.65E-04
Los Angele	2024	Annual	LDA	GAS	2019	AllSpeeds	234555.3	8111696.055	1517421	0.091947341	0	0.076053269	0.16800061
Los Angele	2024	Annual	LDA	DSL	2019	AllSpeeds	653.5639	22602.47079	4228.136	1.56E-04	0	0	1.56E-04
Los Angele	2024	Annual	LDA	GAS	2020	AllSpeeds	238517.5	8674257.533	1547824	0.08831673	0	0.071503542	0.159820272
Los Angele	2024	Annual	LDA	DSL	2020	AllSpeeds	590.3914	21471.06108	3831.257	1.40E-04	0	0	1.40E-04
Los Angele	2024	Annual	LDA	GAS	2021	AllSpeeds	227458.2	8768328.043	1478331	0.083246753	0	0.064070016	0.147316769
Los Angele	2024	Annual	LDA	DSL	2021	AllSpeeds	524.0139	20200.37241	3405.75	1.23E-04	0	0	1.23E-04
Los Angele	2024	Annual	LDA	GAS	2022	AllSpeeds	231711.9	9584781.229	1510610	0.086190687	0	0.061671402	0.147862089
Los Angele	2024	Annual	LDA	DSL	2022	AllSpeeds	506.1973	20938.96298	3300.076	1.18E-04	0	0	1.18E-04
Los Angele	2024	Annual	LDA	GAS	2023	AllSpeeds	238254.5	1.08E+07	1558029	0.091119154	0	0.059102956	0.15022211
Los Angele	2024	Annual	LDA	DSL	2023	AllSpeeds	508.9287	23071.77136	3328.061	1.19E-04	0	0	1.19E-04
Los Angele	2024	Annual	LDA	GAS	2024	AllSpeeds	240396.2	1.25E+07	1576842	0.096503624	0	0.053789943	0.150293567
Los Angele	2024	Annual	LDA	DSL	2024	AllSpeeds	537.333	28006.63369	3524.552	1.30E-04	0	0	1.30E-04
Los Angele	2024	Annual	LDT1	GAS	2007	AllSpeeds	6708.052	193898.742	40244.29	0.002960208	0	0.002804089	0.005764297
Los Angele	2024	Annual	LDT1	DSL	2007	AllSpeeds	0	0	0	0	0	0	0
Los Angele	2024	Annual	LDT1	GAS	2008	AllSpeeds	14254.21	418061.6635	86086.84	0.005923408	0	0.005353313	0.01127672
Los Angele	2024	Annual	LDT1	DSL	2008	AllSpeeds	0	0	0	0	0	0	0
Los Angele	2024	Annual	LDT1	GAS	2009	AllSpeeds	13262.04	394927.4953	80625.14	0.00565818	0	0.005044449	0.010702629
Los Angele	2024	Annual	LDT1	DSL	2009	AllSpeeds	0	0	0	0	0	0	0
Los Angele	2024	Annual	LDT1	GAS	2010	AllSpeeds	14913.77	451162.6078	91412.25	0.006525415	0	0.005739536	0.012264951
Los Angele	2024	Annual	LDT1	DSL	2010	AllSpeeds	23.33039	705.7792387	143.001	8.13E-06	0	0	8.13E-06
Los Angele	2024	Annual	LDT1	GAS	2011	AllSpeeds	14561.05	447920.611	89832.7	0.006382486	0	0.005565721	0.011948207
Los Angele	2024	Annual	LDT1	DSL	2011	AllSpeeds	33.64875	1035.091252	207.592	1.16E-05	0	0	1.16E-05
Los Angele	2024	Annual	LDT1	GAS	2012	AllSpeeds	14553.39	455695.5053	90513.01	0.006388273	0	0.005526052	0.011914325
Los Angele	2024	Annual	LDT1	DSL	2012	AllSpeeds	25.38923	794.9903347	157.9052	8.72E-06	0	0	8.72E-06
Los Angele	2024	Annual	LDT1	GAS	2013	AllSpeeds	15114.29	482232.5887	94606	0.00663991	0	0.005681119	0.012321029

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Area	CalYr	Season	Veh	ROG_DIURN (Tons/day)	ROG_HTSK (Tons/day)	ROG_RUNLS (Tons/day)	ROG_RESTL (Tons/day)	ROG_TOTAL (Tons/day)	TOG_RUNEX (Tons/day)	TOG_IDLEX (Tons/day)	TOG_STREX (Tons/day)	TOG_TOTEX (Tons/day)
Los Angele	2024	Annual	LDA	0.01943404	0.074948594	0.1541973	0.024442334	0.332848543	0.051691201	0	0.034221794	0.085912995
Los Angele	2024	Annual	LDA	0	0	0	0	0	0	0	0	0
Los Angele	2024	Annual	LDA	0.020512141	0.078806356	0.17015	0.02561162	0.359933551	0.057712741	0	0.036134806	0.093847547
Los Angele	2024	Annual	LDA	0	0	0	0	3.93E-06	4.47E-06	0	0	4.47E-06
Los Angele	2024	Annual	LDA	0.017721996	0.067657195	0.1549658	0.021930071	0.327374079	0.05856974	0	0.035905365	0.094475105
Los Angele	2024	Annual	LDA	0	0	0	0	1.38E-04	1.57E-04	0	0	1.57E-04
Los Angele	2024	Annual	LDA	0.022280781	0.084502302	0.2059899	0.027291123	0.43352353	0.085189893	0	0.05091409	0.136103983
Los Angele	2024	Annual	LDA	0	0	0	0	2.57E-04	2.93E-04	0	0	2.93E-04
Los Angele	2024	Annual	LDA	0.021542195	0.080784634	0.211376	0.026065605	0.442394833	0.094404025	0	0.055415612	0.149819637
Los Angele	2024	Annual	LDA	0	0	0	0	2.45E-04	2.79E-04	0	0	2.79E-04
Los Angele	2024	Annual	LDA	0.021268355	0.078577586	0.2246546	0.025332386	0.467062493	0.10879753	0	0.062750019	0.171547549
Los Angele	2024	Annual	LDA	0	0	0	0	2.34E-04	2.66E-04	0	0	2.66E-04
Los Angele	2024	Annual	LDA	0.020532375	0.074723586	0.2276307	0.024104163	0.472196345	0.11741717	0	0.066320971	0.183738141
Los Angele	2024	Annual	LDA	0	0	0	0	2.25E-04	2.56E-04	0	0	2.56E-04
Los Angele	2024	Annual	LDA	0.019873684	0.070953891	0.2333336	0.022911908	0.482648153	0.128480443	0	0.071045667	0.19952611
Los Angele	2024	Annual	LDA	0	0	0	0	2.01E-04	2.28E-04	0	0	2.28E-04
Los Angele	2024	Annual	LDA	0.018471582	0.063762702	0.2355718	0.020739608	0.484857845	0.140333606	0	0.075709634	0.21604324
Los Angele	2024	Annual	LDA	0	0	0	0	1.94E-04	2.21E-04	0	0	2.21E-04
Los Angele	2024	Annual	LDA	0.016832484	0.055701565	0.2316837	0.018320922	0.475654737	0.14879988	0	0.078117177	0.226917057
Los Angele	2024	Annual	LDA	0	0	0	0	1.74E-04	1.99E-04	0	0	1.99E-04
Los Angele	2024	Annual	LDA	0.015046041	0.046658471	0.2221676	0.015747929	0.460553543	0.15877601	0	0.080740683	0.239516693
Los Angele	2024	Annual	LDA	0	0	0	0	1.80E-04	2.05E-04	0	0	2.05E-04
Los Angele	2024	Annual	LDA	0.012281018	0.033912893	0.1904742	0.012211913	0.414069915	0.165779246	0	0.081267565	0.247046811
Los Angele	2024	Annual	LDA	0	0	0	0	1.65E-04	1.88E-04	0	0	1.88E-04
Los Angele	2024	Annual	LDA	0.010633965	0.025730025	0.1828731	0.009796001	0.397033701	0.171125649	0	0.081201434	0.252327083
Los Angele	2024	Annual	LDA	0	0	0	0	1.56E-04	1.78E-04	0	0	1.78E-04
Los Angele	2024	Annual	LDA	0.009279901	0.019240446	0.1732469	0.007881907	0.369469426	0.164368615	0	0.07634373	0.240712345
Los Angele	2024	Annual	LDA	0	0	0	0	1.40E-04	1.59E-04	0	0	1.59E-04
Los Angele	2024	Annual	LDA	0.007845414	0.013756939	0.1552667	0.006154739	0.330340561	0.15493275	0	0.068407021	0.223339771
Los Angele	2024	Annual	LDA	0	0	0	0	1.23E-04	1.40E-04	0	0	1.40E-04
Los Angele	2024	Annual	LDA	0.007299496	0.010844543	0.1499917	0.005330653	0.321328481	0.160411771	0	0.065846033	0.226257804
Los Angele	2024	Annual	LDA	0	0	0	0	1.18E-04	1.35E-04	0	0	1.35E-04
Los Angele	2024	Annual	LDA	0.007028126	0.00895225	0.1473701	0.004833723	0.318406308	0.169584282	0	0.063103735	0.232688017
Los Angele	2024	Annual	LDA	0	0	0	0	1.19E-04	1.36E-04	0	0	1.36E-04
Los Angele	2024	Annual	LDA	0.006770379	0.007548061	0.1427419	0.004442043	0.311795951	0.179605467	0	0.057431065	0.237036532
Los Angele	2024	Annual	LDA	0	0	0	0	1.30E-04	1.47E-04	0	0	1.47E-04
Los Angele	2024	Annual	LDT1	0.002144894	0.006410371	0.021338185	0.00269766	0.038355407	0.005509322	0	0.002993902	0.008503224
Los Angele	2024	Annual	LDT1	0	0	0	0	0	0	0	0	0
Los Angele	2024	Annual	LDT1	0.00410464	0.012230314	0.041128408	0.005125097	0.073865178	0.011024211	0	0.005715686	0.016739897
Los Angele	2024	Annual	LDT1	0	0	0	0	0	0	0	0	0
Los Angele	2024	Annual	LDT1	0.003400731	0.010078746	0.034352709	0.00420823	0.062743045	0.010530589	0	0.005385916	0.015916505
Los Angele	2024	Annual	LDT1	0	0	0	0	0	0	0	0	0
Los Angele	2024	Annual	LDT1	0.003400211	0.010022216	0.034806006	0.004164817	0.064658201	0.012144624	0	0.006128055	0.018272679
Los Angele	2024	Annual	LDT1	0	0	0	0	8.13E-06	9.25E-06	0	0	9.25E-06
Los Angele	2024	Annual	LDT1	0.002932994	0.008559819	0.030482084	0.00354885	0.057471954	0.011878614	0	0.005942474	0.017821087
Los Angele	2024	Annual	LDT1	0	0	0	0	1.16E-05	1.33E-05	0	0	1.33E-05
Los Angele	2024	Annual	LDT1	0.002542977	0.007324977	0.026999073	0.003028891	0.051810242	0.011889384	0	0.005900119	0.017789503
Los Angele	2024	Annual	LDT1	0	0	0	0	8.72E-06	9.92E-06	0	0	9.92E-06
Los Angele	2024	Annual	LDT1	0.002392103	0.006798942	0.026066113	0.002808229	0.050386415	0.012357714	0	0.006065682	0.018423396

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Area	CalYr	Season	Veh	TOG_DIURN (Tons/day)	TOG_HTSK (Tons/day)	TOG_RUNLS (Tons/day)	TOG_RESTL (Tons/day)	TOG_TOTAL (Tons/day)	CO_RUNEX (Tons/day)	CO_IDLEX (Tons/day)	CO_STREX (Tons/day)	CO_TOTEX (Tons/day)
Los Angele	2024	Annual	LDA	0.01943404	0.074948594	0.1541973	0.024442334	0.358935263	1.694361341	0	0.6083623	2.302723641
Los Angele	2024	Annual	LDA	0	0	0	0	0	0	0	0	0
Los Angele	2024	Annual	LDA	0.020512141	0.078806356	0.17015	0.02561162	0.388927664	1.864530734	0	0.6406579	2.505188634
Los Angele	2024	Annual	LDA	0	0	0	0	4.47E-06	3.70E-05	0	0	3.70E-05
Los Angele	2024	Annual	LDA	0.017721996	0.067657195	0.1549658	0.021930071	0.356750167	1.838041979	0	0.6152974	2.453339379
Los Angele	2024	Annual	LDA	0	0	0	0	1.57E-04	0.001296658	0	0	0.001296658
Los Angele	2024	Annual	LDA	0.022280781	0.084502302	0.2059899	0.027291123	0.476168089	2.601774508	0	0.8454072	3.447181708
Los Angele	2024	Annual	LDA	0	0	0	0	2.93E-04	0.002424173	0	0	0.002424173
Los Angele	2024	Annual	LDA	0.021542195	0.080784634	0.211376	0.026065605	0.489588071	2.900041595	0	0.9231927	3.823234295
Los Angele	2024	Annual	LDA	0	0	0	0	2.79E-04	0.00230619	0	0	0.00230619
Los Angele	2024	Annual	LDA	0.021268355	0.078577586	0.2246546	0.025332386	0.521380476	3.362017711	0	1.049002	4.411019711
Los Angele	2024	Annual	LDA	0	0	0	0	2.66E-04	0.002198096	0	0	0.002198096
Los Angele	2024	Annual	LDA	0.020532375	0.074723586	0.2276307	0.024104163	0.530728965	3.637828327	0	1.10799	4.745818327
Los Angele	2024	Annual	LDA	0	0	0	0	2.56E-04	0.002115085	0	0	0.002115085
Los Angele	2024	Annual	LDA	0.019873684	0.070953891	0.2333336	0.022911908	0.546599193	3.983486471	0	1.183637	5.167123471
Los Angele	2024	Annual	LDA	0	0	0	0	2.28E-04	0.001886644	0	0	0.001886644
Los Angele	2024	Annual	LDA	0.018471582	0.063762702	0.2355718	0.020739608	0.554588932	4.360170049	0	1.258787	5.618957049
Los Angele	2024	Annual	LDA	0	0	0	0	2.21E-04	0.001820044	0	0	0.001820044
Los Angele	2024	Annual	LDA	0.016832484	0.055701565	0.2316837	0.018320922	0.549455728	4.620036981	0	1.291517	5.911553981
Los Angele	2024	Annual	LDA	0	0	0	0	1.99E-04	0.001637975	0	0	0.001637975
Los Angele	2024	Annual	LDA	0.015046041	0.046658471	0.2221676	0.015747929	0.539136734	4.927462028	0	1.325495	6.252957028
Los Angele	2024	Annual	LDA	0	0	0	0	2.05E-04	0.001687346	0	0	0.001687346
Los Angele	2024	Annual	LDA	0.012281018	0.033912893	0.1904742	0.012211913	0.495926835	5.10366073	0	1.312753	6.41641373
Los Angele	2024	Annual	LDA	0	0	0	0	1.88E-04	0.001550275	0	0	0.001550275
Los Angele	2024	Annual	LDA	0.010633965	0.025730025	0.1828731	0.009796001	0.481360174	5.203770403	0	1.269816	6.473586403
Los Angele	2024	Annual	LDA	0	0	0	0	1.78E-04	0.001465227	0	0	0.001465227
Los Angele	2024	Annual	LDA	0.009279901	0.019240446	0.1732469	0.007881907	0.450361499	4.958962656	0	1.123626	6.082588656
Los Angele	2024	Annual	LDA	0	0	0	0	1.59E-04	0.001308896	0	0	0.001308896
Los Angele	2024	Annual	LDA	0.007845414	0.013756939	0.1552667	0.006154739	0.406363563	4.598342802	0	0.9640848	5.562427602
Los Angele	2024	Annual	LDA	0	0	0	0	1.40E-04	0.001149331	0	0	0.001149331
Los Angele	2024	Annual	LDA	0.007299496	0.010844543	0.1499917	0.005330653	0.399724196	4.696315088	0	0.907757	5.604072088
Los Angele	2024	Annual	LDA	0	0	0	0	1.35E-04	0.001101144	0	0	0.001101144
Los Angele	2024	Annual	LDA	0.007028126	0.00895225	0.1473701	0.004833723	0.400872215	4.964761048	0	0.8703275	5.835088548
Los Angele	2024	Annual	LDA	0	0	0	0	1.36E-04	0.001106646	0	0	0.001106646
Los Angele	2024	Annual	LDA	0.006770379	0.007548061	0.1427419	0.004442043	0.398538915	5.414406685	0	0.8261512	6.240557885
Los Angele	2024	Annual	LDA	0	0	0	0	1.47E-04	0.001200491	0	0	0.001200491
Los Angele	2024	Annual	LDT1	0.002144894	0.006410371	0.021338185	0.00269766	0.041094334	0.183099903	0	0.054351918	0.237451821
Los Angele	2024	Annual	LDT1	0	0	0	0	0	0	0	0	0
Los Angele	2024	Annual	LDT1	0.00410464	0.012230314	0.041128408	0.005125097	0.079328356	0.360275331	0	0.1033013	0.463576631
Los Angele	2024	Annual	LDT1	0	0	0	0	0	0	0	0	0
Los Angele	2024	Annual	LDT1	0.003400731	0.010078746	0.034352709	0.00420823	0.06795692	0.334784551	0	0.094292693	0.429077244
Los Angele	2024	Annual	LDT1	0	0	0	0	0	0	0	0	0
Los Angele	2024	Annual	LDT1	0.003400211	0.010022216	0.034806006	0.004164817	0.070665929	0.374292127	0	0.1034626	0.477754727
Los Angele	2024	Annual	LDT1	0	0	0	0	9.25E-06	7.63E-05	0	0	7.63E-05
Los Angele	2024	Annual	LDT1	0.002932994	0.008559819	0.030482084	0.00354885	0.063344834	0.367210257	0	0.1003864	0.467596657
Los Angele	2024	Annual	LDT1	0	0	0	0	1.33E-05	1.09E-04	0	0	1.09E-04
Los Angele	2024	Annual	LDT1	0.002542977	0.007324977	0.026999073	0.003028891	0.057685421	0.368761993	0	0.099725492	0.468487485
Los Angele	2024	Annual	LDT1	0	0	0	0	9.92E-06	8.17E-05	0	0	8.17E-05
Los Angele	2024	Annual	LDT1	0.002392103	0.006798942	0.026066113	0.002808229	0.056488782	0.384450932	0	0.1025321	0.486983032

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Area	CalYr	Season	Veh	NOX_RUNEX (Tons/day)	NOX_IDLEX (Tons/day)	NOX_STREX (Tons/day)	NOX_TOTEX (Tons/day)	CO2_RUNEX (Tons/day)	CO2_IDLEX (Tons/day)	CO2_STREX (Tons/day)	CO2_TOTEX (Tons/day)	CO2_RUNEX(Pav) (Tons/day)
Los Angele	2024	Annual	LDA	0.12168173	0	0.028666705	0.150348435	775.2084664	0	38.80952	814.0179864	697.6876198
Los Angele	2024	Annual	LDA	0	0	0	0	0	0	0	0	0
Los Angele	2024	Annual	LDA	0.142043871	0	0.032533392	0.174577263	929.2521012	0	45.74701	974.9991112	836.3268911
Los Angele	2024	Annual	LDA	1.19E-04	0	0	1.19E-04	0.138117982	0	0	0.138117982	0.124306183
Los Angele	2024	Annual	LDA	0.147718713	0	0.033897575	0.181616288	925.0090336	0	44.75557	969.7646036	832.5081302
Los Angele	2024	Annual	LDA	0.004159178	0	0.004159178	0.004159178	4.924692852	0	0	4.924692852	4.43223566
Los Angele	2024	Annual	LDA	0.2212301	0	0.05060041	0.27183051	1340.366454	0	63.76711	1404.133564	1164.108265
Los Angele	2024	Annual	LDA	0.007788878	0	0	0.007788878	9.399901212	0	0	9.399901212	8.163814202
Los Angele	2024	Annual	LDA	0.247643716	0	0.055456109	0.303099825	1505.303088	0	70.23212	1575.535208	1159.685499
Los Angele	2024	Annual	LDA	0.007424211	0	0.007424211	0.007424211	9.155208084	0	0	9.155208084	7.053172308
Los Angele	2024	Annual	LDA	0.288386419	0	0.063224778	0.351611197	1760.209668	0	80.57353	1840.783198	1183.38896
Los Angele	2024	Annual	LDA	0.007091912	0	0	0.007091912	8.957614587	0	0	8.957614587	6.022204287
Los Angele	2024	Annual	LDA	0.314542181	0	0.067255788	0.381797969	1930.297216	0	86.41978	2016.716996	1264.730736
Los Angele	2024	Annual	LDA	0.006841347	0	0.006841347	0.006841347	8.874135171	0	0	8.874135171	5.814333364
Los Angele	2024	Annual	LDA	0.347733176	0	0.072458923	0.420192099	2148.811728	0	94.09309	2242.904818	1376.958555
Los Angele	2024	Annual	LDA	0.006119929	0	0.006119929	0.006119929	8.173818746	0	0	8.173818746	5.237783053
Los Angele	2024	Annual	LDA	0.384317681	0	0.077675149	0.46199283	2396.29853	0	102.2621	2498.56063	1473.004706
Los Angele	2024	Annual	LDA	0.005923179	0	0.005923179	0.005923179	8.170016942	0	0	8.170016942	5.022109414
Los Angele	2024	Annual	LDA	0.412096183	0	0.080484524	0.492580707	2599.905495	0	107.8869	2707.792395	1537.324119
Los Angele	2024	Annual	LDA	0.005350332	0	0.005350332	0.005350332	7.64329166	0	0	7.64329166	4.519478358
Los Angele	2024	Annual	LDA	0.444776159	0	0.083377622	0.528153781	2851.74237	0	114.5318	2966.27417	1686.235263
Los Angele	2024	Annual	LDA	0.005534954	0	0.005534954	0.005534954	8.218447554	0	0	8.218447554	4.859568039
Los Angele	2024	Annual	LDA	0.463924163	0	0.082630232	0.546554395	3070.258799	0	118.7827	3189.041499	1815.444028
Los Angele	2024	Annual	LDA	0.005110253	0	0.005110253	0.005110253	7.918865518	0	0	7.918865518	4.682425181
Los Angele	2024	Annual	LDA	0.473570912	0	0.079061829	0.552632741	3343.502111	0	124.2425	3467.744611	1977.012798
Los Angele	2024	Annual	LDA	0.004858811	0	0.004858811	0.004858811	7.911183896	0	0	7.911183896	4.677883038
Los Angele	2024	Annual	LDA	0.480712281	0	0.074352302	0.555064583	3576.453057	0	126.7302	3703.183257	2114.756692
Los Angele	2024	Annual	LDA	0.004370757	0	0.004370757	0.004370757	7.515174083	0	0	7.515174083	4.443722435
Los Angele	2024	Annual	LDA	0.451444657	0	0.063041359	0.514486016	3616.403633	0	121.0416	3737.445233	2138.379468
Los Angele	2024	Annual	LDA	0.003869858	0	0.003869858	0.003869858	7.070416513	0	0	7.070416513	4.180737284
Los Angele	2024	Annual	LDA	0.461823039	0	0.057272181	0.51909522	3954.379097	0	123.6846	4078.063697	2338.22436
Los Angele	2024	Annual	LDA	0.003745202	0	0.003745202	0.003745202	7.328933122	0	0	7.328933122	4.333598155
Los Angele	2024	Annual	LDA	0.48443638	0	0.051574677	0.536011057	4457.543233	0	127.5672	4585.110433	2635.745314
Los Angele	2024	Annual	LDA	0.003811999	0	0.003811999	0.003811999	8.075445834	0	0	8.075445834	4.775011122
Los Angele	2024	Annual	LDA	0.51822887	0	0.044252861	0.562481731	5172.596624	0	129.1068	5301.703424	3058.556384
Los Angele	2024	Annual	LDA	0.004205877	0	0.004205877	0.004205877	9.802717435	0	0	9.802717435	5.79634682
Los Angele	2024	Annual	LDT1	0.012748653	0	0.002493481	0.015242133	92.90805418	0	3.836247	96.74430118	83.61724876
Los Angele	2024	Annual	LDT1	0	0	0	0	0	0	0	0	0
Los Angele	2024	Annual	LDT1	0.026749797	0	0.005133564	0.031883361	200.1394671	0	8.198819	208.3382861	180.1255204
Los Angele	2024	Annual	LDT1	0	0	0	0	0	0	0	0	0
Los Angele	2024	Annual	LDT1	0.026261619	0	0.005080988	0.031342607	189.387658	0	7.691842	197.0795	170.4488922
Los Angele	2024	Annual	LDT1	0	0	0	0	0	0	0	0	0
Los Angele	2024	Annual	LDT1	0.031195462	0	0.006089496	0.037284958	216.2218227	0	8.715558	224.9373807	187.788653
Los Angele	2024	Annual	LDT1	2.49E-04	0	0	2.49E-04	0.247032709	0	0	0.247032709	0.214547908
Los Angele	2024	Annual	LDT1	0.030855181	0	0.005950927	0.036806108	214.6455138	0	8.564054	223.2095678	165.3629038
Los Angele	2024	Annual	LDT1	3.57E-04	0	0	3.57E-04	0.362296552	0	0	0.362296552	0.279113263
Los Angele	2024	Annual	LDT1	0.031240696	0	0.005953174	0.037193869	218.3551956	0	8.628269	226.9834646	146.800198
Los Angele	2024	Annual	LDT1	2.68E-04	0	0	2.68E-04	0.278257844	0	0	0.278257844	0.187072748
Los Angele	2024	Annual	LDT1	0.032855591	0	0.006164829	0.03902042	231.0423059	0	9.017316	240.0596219	151.3789188

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Area	CalYr	Season	Veh	CO2_IDLEX(Pav)	CO2_STREX(Pav)	CO2_TOTEX(Pav)	PM10_RUNEX	PM10_IDLEX	PM10_STREX	PM10_TOTEX	PM10_PMTW	PM10_PMBW
				(Tons/day)	(Tons/day)	(Tons/day)	(Tons/day)	(Tons/day)	(Tons/day)	(Tons/day)	(Tons/day)	(Tons/day)
Los Angele	2024	Annual	LDA	0	34.928568	732.6161878	6.04E-04	0	9.37E-05	6.97E-04	0.016639005	0.076435469
Los Angele	2024	Annual	LDA	0	0	0	0	0	0	0	0	0
Los Angele	2024	Annual	LDA	0	41.172309	877.4992001	7.24E-04	0	1.44E-04	8.67E-04	0.019939562	0.091597363
Los Angele	2024	Annual	LDA	0	0	0.124306183	2.35E-06	0	0	2.35E-06	3.48E-06	1.60E-05
Los Angele	2024	Annual	LDA	0	40.280013	872.7881432	9.61E-04	0	2.22E-04	0.00118243	0.019800926	0.090960518
Los Angele	2024	Annual	LDA	0	0	4.432223566	8.25E-05	0	0	8.25E-05	1.24E-04	5.70E-04
Los Angele	2024	Annual	LDA	0	55.38173504	1219.49	0.00139199	0	3.90E-04	0.001781873	0.028693838	0.1318123
Los Angele	2024	Annual	LDA	0	0	8.163814202	1.55E-04	0	0	1.55E-04	2.37E-04	0.001087926
Los Angele	2024	Annual	LDA	0	54.10682525	1213.792324	0.002344918	0	8.00E-04	0.00314498	0.032224093	0.1480294
Los Angele	2024	Annual	LDA	0	0	7.053172308	1.47E-04	0	0	1.47E-04	2.31E-04	0.001059606
Los Angele	2024	Annual	LDA	0	54.16958422	1237.558544	0.003656005	0	0.001291239	0.004947244	0.037682313	0.1731032
Los Angele	2024	Annual	LDA	0	0	6.022204287	1.41E-04	0	0	1.41E-04	2.26E-04	0.001036737
Los Angele	2024	Annual	LDA	0	56.62223986	1321.352976	0.006013923	0	0.002594655	0.008608578	0.041324772	0.1898357
Los Angele	2024	Annual	LDA	0	0	5.814333364	1.36E-04	0	0	1.36E-04	2.24E-04	0.001027075
Los Angele	2024	Annual	LDA	0	60.29485207	1437.253407	0.008926285	0	0.003996838	0.012923123	0.046004511	0.2113332
Los Angele	2024	Annual	LDA	0	0	5.237783053	1.21E-04	0	0	1.21E-04	2.06E-04	9.46E-04
Los Angele	2024	Annual	LDA	0	62.86051287	1535.865219	0.01244295	0	0.005594335	0.018037285	0.051306229	0.235688
Los Angele	2024	Annual	LDA	0	0	5.022109414	1.18E-04	0	0	1.18E-04	2.06E-04	9.46E-04
Los Angele	2024	Annual	LDA	0	63.79352397	1601.117643	0.015525222	0	0.006887165	0.022412388	0.055669233	0.2557306
Los Angele	2024	Annual	LDA	0	0	4.519478358	1.06E-04	0	0	1.06E-04	1.93E-04	8.85E-04
Los Angele	2024	Annual	LDA	0	67.72265334	1753.957917	0.018504052	0	0.007993193	0.026497246	0.061044332	0.2804224
Los Angele	2024	Annual	LDA	0	0	4.859568039	1.10E-04	0	0	1.10E-04	2.07E-04	9.51E-04
Los Angele	2024	Annual	LDA	0	70.23621051	1885.680239	0.020712337	0	0.008646305	0.029358642	0.065705098	0.3018329
Los Angele	2024	Annual	LDA	0	0	4.682425181	1.01E-04	0	0	1.01E-04	2.00E-04	9.17E-04
Los Angele	2024	Annual	LDA	0	73.46459025	2050.477389	0.022548622	0	0.009069718	0.031618339	0.07153292	0.3286044
Los Angele	2024	Annual	LDA	0	0	4.677883038	9.65E-05	0	0	9.65E-05	1.99E-04	9.16E-04
Los Angele	2024	Annual	LDA	0	74.93556726	2189.69226	0.024112114	0	0.009251321	0.033363435	0.076493859	0.3513938
Los Angele	2024	Annual	LDA	0	0	4.443722435	8.69E-05	0	0	8.69E-05	1.89E-04	8.70E-04
Los Angele	2024	Annual	LDA	0	71.57189808	2209.951366	0.024373841	0	0.008836048	0.033209889	0.077323422	0.3552045
Los Angele	2024	Annual	LDA	0	0	4.180737284	7.69E-05	0	0	7.69E-05	1.78E-04	8.18E-04
Los Angele	2024	Annual	LDA	0	73.13470398	2411.359064	0.026643409	0	0.009028994	0.035672402	0.084523298	0.388279
Los Angele	2024	Annual	LDA	0	0	4.333598155	7.45E-05	0	0	7.45E-05	1.85E-04	8.48E-04
Los Angele	2024	Annual	LDA	0	75.43048536	2711.175799	0.030024208	0	0.009312422	0.03933663	0.095248453	0.4375476
Los Angele	2024	Annual	LDA	0	0	4.775011122	7.58E-05	0	0	7.58E-05	2.03E-04	9.35E-04
Los Angele	2024	Annual	LDA	0	76.34085084	3134.897235	0.034829643	0	0.009424815	0.044254458	0.1104938	0.5075809
Los Angele	2024	Annual	LDA	0	0	5.79634682	8.37E-05	0	0	8.37E-05	2.47E-04	0.001134547
Los Angele	2024	Annual	LDT1	0	3.4526223	87.06987106	6.22E-05	0	7.95E-06	7.01E-05	0.001709894	0.007854829
Los Angele	2024	Annual	LDT1	0	0	0	0	0	0	0	0	0
Los Angele	2024	Annual	LDT1	0	7.3789371	187.5044575	1.34E-04	0	2.21E-05	1.56E-04	0.003686673	0.016935658
Los Angele	2024	Annual	LDT1	0	0	0	0	0	0	0	0	0
Los Angele	2024	Annual	LDT1	0	6.9226578	177.37155	1.69E-04	0	3.27E-05	2.02E-04	0.003482664	0.015998492
Los Angele	2024	Annual	LDT1	0	0	0	0	0	0	0	0	0
Los Angele	2024	Annual	LDT1	0	7.569462123	195.3581151	1.93E-04	0	4.58E-05	2.39E-04	0.003978574	0.018276576
Los Angele	2024	Annual	LDT1	0	0	0.214547908	4.12E-06	0	0	4.12E-06	6.22E-06	2.86E-05
Los Angele	2024	Annual	LDT1	0	6.597747202	171.960651	2.87E-04	0	8.38E-05	3.71E-04	0.003949984	0.018145241
Los Angele	2024	Annual	LDT1	0	0	0.279113263	5.91E-06	0	0	5.91E-06	9.13E-06	4.19E-05
Los Angele	2024	Annual	LDT1	0	5.800785249	152.6009833	3.90E-04	0	1.19E-04	5.09E-04	0.004018546	0.018460199
Los Angele	2024	Annual	LDT1	0	0	0.187072748	4.43E-06	0	0	4.43E-06	7.01E-06	3.22E-05
Los Angele	2024	Annual	LDT1	0	5.908145443	157.2870642	6.19E-04	0	2.33E-04	8.51E-04	0.004252563	0.019535219



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Los Angele	2024	Annual	LDA	0.093771939	5.60E-04	0	8.69E-05	6.47E-04	0.004159751	0.032758046	0.03756493	0.00776601
Los Angele	2024	Annual	LDA	0	0	0	0	0	0	0	0	0
Los Angele	2024	Annual	LDA	0.112404239	6.72E-04	0	1.33E-04	8.05E-04	0.004984891	0.039256014	0.045045629	0.009306478
Los Angele	2024	Annual	LDA	2.18E-05	2.16E-06	0	0	2.16E-06	8.70E-07	6.85E-06	9.89E-06	1.32E-06
Los Angele	2024	Annual	LDA	0.111943874	8.91E-04	0	2.06E-04	0.0010971	0.004950231	0.038983077	0.045030409	0.009263734
Los Angele	2024	Annual	LDA	7.77E-04	7.59E-05	0	0	7.59E-05	3.10E-05	2.44E-04	3.51E-04	4.70E-05
Los Angele	2024	Annual	LDA	0.162288011	0.001291537	0	3.62E-04	0.001653284	0.00717346	0.056491002	0.065317746	0.01342248
Los Angele	2024	Annual	LDA	0.001479283	1.42E-04	0	0	1.42E-04	5.92E-05	4.66E-04	6.68E-04	8.97E-05
Los Angele	2024	Annual	LDA	0.183398473	0.002175697	0	7.42E-04	0.002918023	0.008056023	0.063441187	0.074415233	0.015073781
Los Angele	2024	Annual	LDA	0.001437575	1.36E-04	0	0	1.36E-04	5.77E-05	4.54E-04	6.47E-04	8.74E-05
Los Angele	2024	Annual	LDA	0.215732757	0.003392169	0	0.001198057	0.004590226	0.009420578	0.074187055	0.088197859	0.017625859
Los Angele	2024	Annual	LDA	0.001403147	1.29E-04	0	0	1.29E-04	5.64E-05	4.44E-04	6.30E-04	8.55E-05
Los Angele	2024	Annual	LDA	0.23976905	0.005579929	0	0.002407412	0.00798734	0.010331193	0.08135815	0.099676683	0.019328205
Los Angele	2024	Annual	LDA	0.001386424	1.25E-04	0	0	1.25E-04	5.59E-05	4.40E-04	6.21E-04	8.70E-05
Los Angele	2024	Annual	LDA	0.270260834	0.00828212	0	0.003708405	0.011990525	0.011501128	0.090571381	0.114063034	0.021515107
Los Angele	2024	Annual	LDA	0.001273424	1.12E-04	0	0	1.12E-04	5.15E-05	4.05E-04	5.69E-04	7.80E-05
Los Angele	2024	Annual	LDA	0.305031514	0.011545005	0	0.00519062	0.016735625	0.012826557	0.1010091	0.130571282	0.023991706
Los Angele	2024	Annual	LDA	0.001268999	1.08E-04	0	0	1.08E-04	5.15E-05	4.05E-04	5.65E-04	7.80E-05
Los Angele	2024	Annual	LDA	0.333812221	0.014404844	0	0.006390153	0.020794998	0.013917308	0.1095988	0.144311106	0.026202838
Los Angele	2024	Annual	LDA	0.001183412	9.77E-05	0	0	9.77E-05	4.81E-05	3.79E-04	5.25E-04	7.30E-05
Los Angele	2024	Annual	LDA	0.367963978	0.017168708	0	0.007416364	0.024585072	0.015261083	0.120181	0.160027155	0.028547268
Los Angele	2024	Annual	LDA	0.001268154	1.01E-04	0	0	1.01E-04	5.18E-05	4.08E-04	5.61E-04	7.85E-05
Los Angele	2024	Annual	LDA	0.39689664	0.019217634	0	0.008022344	0.027239977	0.016426275	0.129357	0.173023252	0.03073141
Los Angele	2024	Annual	LDA	0.00121752	9.34E-05	0	0	9.34E-05	4.99E-05	3.93E-04	5.36E-04	7.56E-05
Los Angele	2024	Annual	LDA	0.431755659	0.020921402	0	0.008415202	0.029336604	0.01788323	0.1408304	0.188050234	0.033460587
Los Angele	2024	Annual	LDA	0.001211467	8.88E-05	0	0	8.88E-05	4.98E-05	3.92E-04	5.31E-04	7.55E-05
Los Angele	2024	Annual	LDA	0.461251094	0.022372064	0	0.008583699	0.030955763	0.019123465	0.1505973	0.200676528	0.035781819
Los Angele	2024	Annual	LDA	0.001145985	7.99E-05	0	0	7.99E-05	4.73E-05	3.73E-04	5.00E-04	7.17E-05
Los Angele	2024	Annual	LDA	0.465737811	0.022614904	0	0.008198395	0.0308133	0.019330855	0.1522305	0.202374655	0.036174662
Los Angele	2024	Annual	LDA	0.001073376	7.08E-05	0	0	7.08E-05	4.45E-05	3.51E-04	4.66E-04	6.75E-05
Los Angele	2024	Annual	LDA	0.5084747	0.02472069	0	0.008377415	0.033098105	0.021130824	0.1664053	0.220634229	0.039549947
Los Angele	2024	Annual	LDA	0.001107361	6.85E-05	0	0	6.85E-05	4.62E-05	3.64E-04	4.78E-04	7.00E-05
Los Angele	2024	Annual	LDA	0.572132683	0.027857512	0	0.008640391	0.036497903	0.023812113	0.1875204	0.247830416	0.044576894
Los Angele	2024	Annual	LDA	0.001213935	6.98E-05	0	0	6.98E-05	5.09E-05	4.01E-04	5.21E-04	7.71E-05
Los Angele	2024	Annual	LDA	0.662329158	0.032316165	0	0.008744673	0.041060838	0.027623447	0.2175346	0.286218885	0.051721718
Los Angele	2024	Annual	LDA	0.001465255	7.70E-05	0	0	7.70E-05	6.17E-05	4.86E-04	6.25E-04	9.36E-05
Los Angele	2024	Annual	LDT1	0.009634862	5.77E-05	0	7.38E-06	6.51E-05	4.27E-04	0.003366355	0.003858906	9.30E-04
Los Angele	2024	Annual	LDT1	0	0	0	0	0	0	0	0	0
Los Angele	2024	Annual	LDT1	0.020778387	1.24E-04	0	2.05E-05	1.45E-04	9.22E-04	0.007258139	0.008324601	0.002003712
Los Angele	2024	Annual	LDT1	0	0	0	0	0	0	0	0	0
Los Angele	2024	Annual	LDT1	0.019682916	1.57E-04	0	3.04E-05	1.87E-04	8.71E-04	0.006856496	0.007914361	0.001895977
Los Angele	2024	Annual	LDT1	0	0	0	0	0	0	0	0	0
Los Angele	2024	Annual	LDT1	0.022493887	1.79E-04	0	4.25E-05	2.22E-04	9.95E-04	0.007832818	0.00904897	0.002164495
Los Angele	2024	Annual	LDT1	3.89E-05	3.79E-06	0	0	3.79E-06	1.56E-06	1.23E-05	1.76E-05	2.36E-06
Los Angele	2024	Annual	LDT1	0.022466359	2.67E-04	0	7.77E-05	3.44E-04	9.87E-04	0.007776531	0.009108379	0.002148642
Los Angele	2024	Annual	LDT1	5.70E-05	5.44E-06	0	0	5.44E-06	2.28E-06	1.80E-05	2.57E-05	3.46E-06
Los Angele	2024	Annual	LDT1	0.022987251	3.62E-04	0	1.10E-04	4.72E-04	0.001004637	0.007911515	0.009387961	0.002185695
Los Angele	2024	Annual	LDT1	4.36E-05	4.08E-06	0	0	4.08E-06	1.75E-06	1.38E-05	1.96E-05	2.66E-06
Los Angele	2024	Annual	LDT1	0.024638898	5.74E-04	0	2.16E-04	7.90E-04	0.001063141	0.008372237	0.010225073	0.002312595

2024 Estimated Annual Emissions  
 EMFAC 2011 Vehicle Categories  
 Los Angeles COUNTY  
 South Coast AIR BASIN  
 South Coast AQMD

Area	CalYr	Season	Veh	SOX_IDLEX (Tons/day)	SOX_STREX (Tons/day)	SOX_TOTEX (Tons/day)	FUEL_GAS (1000 Gallons)	FUEL_DSL (1000 Gallons)	exhaust ROG lb/mile	exhaust CO lb/mile	exhaust NOx lb/mile	exhaust PM10 lb/mile	tire wear a PM10 lb/mile	exhaust PM2.5 lb/mile	tire wear a PM2.5 lb/mile	exhaust SOx lb/mile
Los Angele	2024	Annual	LDA	0	3.98E-04	0.008163959	87.08048	0	3.53E-04	2.44E-03	1.59E-04	7.39E-07	9.87E-05	6.86E-07	3.91E-05	8.65E-06
Los Angele	2024	Annual	LDA	0	0	0	0	0	0	0	0	0	0	0	0	0
Los Angele	2024	Annual	LDA	0	4.68E-04	0.009774238	104.2564	0	3.18E-04	2.22E-03	1.54E-04	7.67E-07	9.87E-05	7.12E-07	3.91E-05	8.65E-06
Los Angele	2024	Annual	LDA	0	0	1.32E-06	0	0.012430619	1.99E-05	1.88E-04	6.01E-04	1.19E-05	9.87E-05	1.10E-05	3.91E-05	6.68E-06
Los Angele	2024	Annual	LDA	0	4.57E-04	0.009721193	103.6907	0	2.92E-04	2.19E-03	1.62E-04	1.05E-06	9.87E-05	9.77E-07	3.91E-05	8.66E-06
Los Angele	2024	Annual	LDA	0	0	4.70E-05	0	0.4432224	1.96E-05	1.84E-04	5.91E-04	1.17E-05	9.87E-05	1.08E-05	3.91E-05	6.68E-06
Los Angele	2024	Annual	LDA	0	6.51E-04	0.014073764	150.1171	0	2.66E-04	2.12E-03	1.67E-04	1.10E-06	9.87E-05	1.02E-06	3.91E-05	8.65E-06
Los Angele	2024	Annual	LDA	0	0	8.97E-05	0	0.8459912	1.92E-05	1.81E-04	5.80E-04	1.15E-05	9.87E-05	1.06E-05	3.91E-05	6.68E-06
Los Angele	2024	Annual	LDA	0	7.17E-04	0.015790951	168.4334	0	2.42E-04	2.09E-03	1.66E-04	1.72E-06	9.87E-05	1.60E-06	3.91E-05	8.64E-06
Los Angele	2024	Annual	LDA	0	0	8.74E-05	0	0.8239688	1.87E-05	1.76E-04	5.68E-04	1.13E-05	9.87E-05	1.04E-05	3.91E-05	6.68E-06
Los Angele	2024	Annual	LDA	0	8.23E-04	0.018448446	196.7794	0	2.19E-04	2.06E-03	1.65E-04	2.32E-06	9.87E-05	2.15E-06	3.91E-05	8.63E-06
Los Angele	2024	Annual	LDA	0	0	8.55E-05	0	0.8061852	1.83E-05	1.72E-04	5.54E-04	1.10E-05	9.87E-05	1.01E-05	3.91E-05	6.68E-06
Los Angele	2024	Annual	LDA	0	8.82E-04	0.02021018	215.5709	0	2.02E-04	2.03E-03	1.63E-04	3.67E-06	9.87E-05	3.41E-06	3.91E-05	8.63E-06
Los Angele	2024	Annual	LDA	0	0	8.47E-05	0	0.7986722	1.77E-05	1.67E-04	5.40E-04	1.07E-05	9.87E-05	9.85E-06	3.91E-05	6.68E-06
Los Angele	2024	Annual	LDA	0	9.60E-04	0.022475002	239.7285	0	1.85E-04	1.98E-03	1.61E-04	4.95E-06	9.87E-05	4.60E-06	3.91E-05	8.62E-06
Los Angele	2024	Annual	LDA	0	0	7.80E-05	0	0.7356437	1.72E-05	1.62E-04	5.24E-04	1.04E-05	9.87E-05	9.57E-06	3.91E-05	6.68E-06
Los Angele	2024	Annual	LDA	0	0.001042754	0.02503446	267.0289	0	1.67E-04	1.93E-03	1.59E-04	6.20E-06	9.87E-05	5.75E-06	3.91E-05	8.61E-06
Los Angele	2024	Annual	LDA	0	0	7.80E-05	0	0.7353016	1.66E-05	1.56E-04	5.08E-04	1.01E-05	9.87E-05	9.27E-06	3.91E-05	6.68E-06
Los Angele	2024	Annual	LDA	0	0.001099484	0.027127864	289.3581	0	1.51E-04	1.87E-03	1.56E-04	7.10E-06	9.87E-05	6.59E-06	3.91E-05	8.59E-06
Los Angele	2024	Annual	LDA	0	0	7.30E-05	0	0.6878964	1.60E-05	1.50E-04	4.90E-04	9.73E-06	9.87E-05	8.95E-06	3.91E-05	6.68E-06
Los Angele	2024	Annual	LDA	0	0.001166423	0.029713691	316.9396	0	1.33E-04	1.81E-03	1.53E-04	7.66E-06	9.87E-05	7.10E-06	3.91E-05	8.58E-06
Los Angele	2024	Annual	LDA	0	0	7.85E-05	0	0.7396604	1.53E-05	1.44E-04	4.71E-04	9.36E-06	9.87E-05	8.61E-06	3.91E-05	6.68E-06
Los Angele	2024	Annual	LDA	0	0.00120867	0.03194008	340.6873	0	1.11E-04	1.72E-03	1.47E-04	7.88E-06	9.87E-05	7.31E-06	3.91E-05	8.57E-06
Los Angele	2024	Annual	LDA	0	0	7.56E-05	0	0.712698	1.46E-05	1.37E-04	4.52E-04	8.97E-06	9.87E-05	8.25E-06	3.91E-05	6.68E-06
Los Angele	2024	Annual	LDA	0	0.001262493	0.03472308	370.3721	0	9.79E-05	1.60E-03	1.36E-04	7.80E-06	9.87E-05	7.23E-06	3.91E-05	8.56E-06
Los Angele	2024	Annual	LDA	0	0	7.55E-05	0	0.7120064	1.38E-05	1.30E-04	4.30E-04	8.54E-06	9.87E-05	7.86E-06	3.91E-05	6.68E-06
Los Angele	2024	Annual	LDA	0	0.001284887	0.037066706	395.3702	0	8.52E-05	1.40E-03	1.28E-04	7.69E-06	9.87E-05	7.14E-06	3.91E-05	8.55E-06
Los Angele	2024	Annual	LDA	0	0	7.17E-05	0	0.6763657	1.30E-05	1.22E-04	4.07E-04	8.09E-06	9.87E-05	7.44E-06	3.91E-05	6.68E-06
Los Angele	2024	Annual	LDA	0	0.001225366	0.037400028	398.9256	0	7.53E-05	1.27E-03	1.17E-04	7.57E-06	9.87E-05	7.03E-06	3.91E-05	8.53E-06
Los Angele	2024	Annual	LDA	0	0	6.75E-05	0	0.6363375	1.22E-05	1.14E-04	3.83E-04	7.62E-06	9.87E-05	7.01E-06	3.91E-05	6.68E-06
Los Angele	2024	Annual	LDA	0	0.001250789	0.040800736	435.1991	0	6.70E-05	1.17E-03	1.08E-04	7.44E-06	9.87E-05	6.91E-06	3.91E-05	8.51E-06
Los Angele	2024	Annual	LDA	0	0	7.00E-05	0	0.659604	1.13E-05	1.05E-04	3.58E-04	7.11E-06	9.87E-05	6.54E-06	3.91E-05	6.68E-06
Los Angele	2024	Annual	LDA	0	0.001288875	0.045865769	489.225	0	5.90E-05	1.08E-03	9.93E-05	7.28E-06	9.87E-05	6.76E-06	3.91E-05	8.49E-06
Los Angele	2024	Annual	LDA	0	0	7.71E-05	0	0.7267902	1.03E-05	9.59E-05	3.30E-04	6.57E-06	9.87E-05	6.05E-06	3.91E-05	6.68E-06
Los Angele	2024	Annual	LDA	0	0.001303381	0.053025099	565.5897	0	4.98E-05	9.96E-04	8.98E-05	7.06E-06	9.87E-05	6.55E-06	3.91E-05	8.46E-06
Los Angele	2024	Annual	LDA	0	0	9.36E-05	0	0.8822446	9.25E-06	8.57E-05	3.00E-04	5.98E-06	9.87E-05	5.50E-06	3.91E-05	6.68E-06
Los Angele	2024	Annual	LDT1	0	3.92E-05	9.70E-04	10.34273	0	3.96E-04	2.45E-03	1.57E-04	7.23E-07	9.87E-05	6.71E-07	3.91E-05	1.00E-05
Los Angele	2024	Annual	LDT1	0	0	0	0	0	0	0	0	0	0	0	0	0
Los Angele	2024	Annual	LDT1	0	8.36E-05	0.002087341	22.26453	0	3.53E-04	2.22E-03	1.53E-04	7.47E-07	9.87E-05	6.93E-07	3.91E-05	9.99E-06
Los Angele	2024	Annual	LDT1	0	0	0	0	0	0	0	0	0	0	0	0	0
Los Angele	2024	Annual	LDT1	0	7.84E-05	0.001974394	21.05978	0	3.18E-04	2.17E-03	1.59E-04	1.02E-06	9.87E-05	9.48E-07	3.91E-05	1.00E-05
Los Angele	2024	Annual	LDT1	0	0	0	0	0	0	0	0	0	0	0	0	0
Los Angele	2024	Annual	LDT1	0	8.88E-05	0.002253297	24.03468	0	2.87E-04	2.12E-03	1.65E-04	1.06E-06	9.87E-05	9.82E-07	3.91E-05	9.99E-06
Los Angele	2024	Annual	LDT1	0	0	2.36E-06	0	0.022232944	2.30E-05	2.16E-04	7.05E-04	1.17E-05	9.87E-05	1.07E-05	3.91E-05	6.68E-06
Los Angele	2024	Annual	LDT1	0	8.72E-05	0.002235878	23.84888	0	2.57E-04	2.09E-03	1.64E-04	1.66E-06	9.87E-05	1.54E-06	3.91E-05	9.98E-06
Los Angele	2024	Annual	LDT1	0	0	3.46E-06	0	0.032606691	2.25E-05	2.11E-04	6.90E-04	1.14E-05	9.87E-05	1.05E-05	3.91E-05	6.68E-06
Los Angele	2024	Annual	LDT1	0	8.79E-05	0.00227356	24.25083	0	2.27E-04	2.06E-03	1.63E-04	2.23E-06	9.87E-05	2.07E-06	3.91E-05	9.98E-06
Los Angele	2024	Annual	LDT1	0	0	2.66E-06	0	0.025043204	2.19E-05	2.06E-04	6.74E-04	1.11E-05	9.87E-05	1.03E-05	3.91E-05	6.68E-06
Los Angele	2024	Annual	LDT1	0	9.18E-05	0.002404392	25.64634	0	2.09E-04	2.02E-03	1.62E-04	3.53E-06	9.87E-05	3.28E-06	3.91E-05	9.97E-06

2024 Estimated Annual Emissions  
 EMFAC 2011 Vehicle Categories  
 Los Angeles COUNTY  
 South Coast AIR BASIN  
 South Coast AQMD

Area	CalYr	Season	Veh	exhaust CO2 ton/mile
Los Angele	2024	Annual	LDA	3.88E-04
Los Angele	2024	Annual	LDA	
Los Angele	2024	Annual	LDA	3.88E-04
Los Angele	2024	Annual	LDA	3.15E-04
Los Angele	2024	Annual	LDA	3.89E-04
Los Angele	2024	Annual	LDA	3.15E-04
Los Angele	2024	Annual	LDA	3.75E-04
Los Angele	2024	Annual	LDA	3.04E-04
Los Angele	2024	Annual	LDA	3.32E-04
Los Angele	2024	Annual	LDA	2.70E-04
Los Angele	2024	Annual	LDA	2.90E-04
Los Angele	2024	Annual	LDA	2.35E-04
Los Angele	2024	Annual	LDA	2.82E-04
Los Angele	2024	Annual	LDA	2.29E-04
Los Angele	2024	Annual	LDA	2.76E-04
Los Angele	2024	Annual	LDA	2.24E-04
Los Angele	2024	Annual	LDA	2.64E-04
Los Angele	2024	Annual	LDA	2.15E-04
Los Angele	2024	Annual	LDA	2.54E-04
Los Angele	2024	Annual	LDA	2.07E-04
Los Angele	2024	Annual	LDA	2.53E-04
Los Angele	2024	Annual	LDA	2.07E-04
Los Angele	2024	Annual	LDA	2.53E-04
Los Angele	2024	Annual	LDA	2.07E-04
Los Angele	2024	Annual	LDA	2.53E-04
Los Angele	2024	Annual	LDA	2.07E-04
Los Angele	2024	Annual	LDA	2.52E-04
Los Angele	2024	Annual	LDA	2.07E-04
Los Angele	2024	Annual	LDA	2.52E-04
Los Angele	2024	Annual	LDA	2.07E-04
Los Angele	2024	Annual	LDA	2.52E-04
Los Angele	2024	Annual	LDA	2.07E-04
Los Angele	2024	Annual	LDA	2.51E-04
Los Angele	2024	Annual	LDA	2.07E-04
Los Angele	2024	Annual	LDA	2.50E-04
Los Angele	2024	Annual	LDA	2.07E-04
Los Angele	2024	Annual	LDT1	4.49E-04
Los Angele	2024	Annual	LDT1	
Los Angele	2024	Annual	LDT1	4.49E-04
Los Angele	2024	Annual	LDT1	
Los Angele	2024	Annual	LDT1	4.49E-04
Los Angele	2024	Annual	LDT1	
Los Angele	2024	Annual	LDT1	4.33E-04
Los Angele	2024	Annual	LDT1	3.04E-04
Los Angele	2024	Annual	LDT1	3.84E-04
Los Angele	2024	Annual	LDT1	2.70E-04
Los Angele	2024	Annual	LDT1	3.35E-04
Los Angele	2024	Annual	LDT1	2.35E-04
Los Angele	2024	Annual	LDT1	3.26E-04

Los Angele	2024 Annual	LDT1	DSL	2013 AllSpeeds	33.79113	1078.135533	211.5113	1.15E-05	0	0	1.15E-05
Los Angele	2024 Annual	LDT1	GAS	2014 AllSpeeds	15561.66	506463.1578	98184.27	0.006834908	0	0.005786486	0.012621393
Los Angele	2024 Annual	LDT1	DSL	2014 AllSpeeds	32.48572	1057.270817	204.9644	1.09E-05	0	0	1.09E-05
Los Angele	2024 Annual	LDT1	GAS	2015 AllSpeeds	16589.63	551632.9155	105333.6	0.007273164	0	0.006072816	0.013345981
Los Angele	2024 Annual	LDT1	DSL	2015 AllSpeeds	34.17893	1136.51243	217.0145	1.13E-05	0	0	1.13E-05
Los Angele	2024 Annual	LDT1	GAS	2016 AllSpeeds	16883.11	574578.142	107872.3	0.00737994	0	0.006065685	0.013445625
Los Angele	2024 Annual	LDT1	DSL	2016 AllSpeeds	43.18027	1469.55008	275.8943	1.41E-05	0	0	1.41E-05
Los Angele	2024 Annual	LDT1	GAS	2017 AllSpeeds	17363.4	606087.7483	111461.9	0.007560754	0	0.006090287	0.01365104
Los Angele	2024 Annual	LDT1	DSL	2017 AllSpeeds	30.16643	1052.996693	193.6491	9.65E-06	0	0	9.65E-06
Los Angele	2024 Annual	LDT1	GAS	2018 AllSpeeds	17516.5	628697.029	112795	0.00758572	0	0.005964734	0.013550454
Los Angele	2024 Annual	LDT1	DSL	2018 AllSpeeds	32.1123	1152.57194	206.7825	1.01E-05	0	0	1.01E-05
Los Angele	2024 Annual	LDT1	GAS	2019 AllSpeeds	17649.38	653611.038	114180.1	0.007455306	0	0.005752109	0.013207415
Los Angele	2024 Annual	LDT1	DSL	2019 AllSpeeds	36.52188	1352.525428	236.2729	1.12E-05	0	0	1.12E-05
Los Angele	2024 Annual	LDT1	GAS	2020 AllSpeeds	18053.51	692876.4683	117155.6	0.00705156	0	0.005411912	0.012463471
Los Angele	2024 Annual	LDT1	DSL	2020 AllSpeeds	31.59509	1212.596676	205.0316	9.42E-06	0	0	9.42E-06
Los Angele	2024 Annual	LDT1	GAS	2021 AllSpeeds	19081.65	763793.52	124018.3	0.007233895	0	0.005364095	0.01259799
Los Angele	2024 Annual	LDT1	DSL	2021 AllSpeeds	23.60095	944.6962308	153.3909	6.85E-06	0	0	6.85E-06
Los Angele	2024 Annual	LDT1	GAS	2022 AllSpeeds	19576.26	825343.9603	127624.4	0.007395575	0	0.005193038	0.012588613
Los Angele	2024 Annual	LDT1	DSL	2022 AllSpeeds	19.83228	836.1425093	129.2935	5.60E-06	0	0	5.60E-06
Los Angele	2024 Annual	LDT1	GAS	2023 AllSpeeds	20065.72	906242.2092	131216.7	0.007609122	0	0.004954042	0.012563164
Los Angele	2024 Annual	LDT1	DSL	2023 AllSpeeds	26.52448	1197.950151	173.4527	7.32E-06	0	0	7.32E-06
Los Angele	2024 Annual	LDT1	GAS	2024 AllSpeeds	20415.7	1026610.17	133913.6	0.007862076	0	0.004541364	0.01240344
Los Angele	2024 Annual	LDT1	DSL	2024 AllSpeeds	31.56067	1587.047141	207.0173	8.71E-06	0	0	8.71E-06
Los Angele	2024 Annual	T6 instate heavy	DSL	2010 AllSpeeds	588.4690822	22517.85229	0	0.003524305	1.36E-04	0	0.003660468
Los Angele	2024 Annual	T6 instate heavy	DSL	2011 AllSpeeds	328.3288378	14633.01802	0	0.002235836	7.60E-05	0	0.002311807
Los Angele	2024 Annual	T6 instate heavy	DSL	2012 AllSpeeds	327.5869705	16305.3241	0	0.002424374	7.58E-05	0	0.002500173
Los Angele	2024 Annual	T6 instate heavy	DSL	2013 AllSpeeds	550.8845303	25681.58796	0	0.003013576	1.27E-04	0	0.003141042
Los Angele	2024 Annual	T6 instate heavy	DSL	2014 AllSpeeds	960.8180338	42941.70989	0	0.004906376	2.22E-04	0	0.005128694
Los Angele	2024 Annual	T6 instate heavy	DSL	2015 AllSpeeds	1900.790265	79234.88716	0	0.008792907	4.40E-04	0	0.009232721
Los Angele	2024 Annual	T6 instate heavy	DSL	2016 AllSpeeds	714.9402858	34774.03667	0	0.003737597	1.65E-04	0	0.003903023
Los Angele	2024 Annual	T6 instate heavy	DSL	2017 AllSpeeds	1398.817062	62457.32404	0	0.006481277	3.24E-04	0	0.006804941
Los Angele	2024 Annual	T6 instate heavy	DSL	2018 AllSpeeds	528.7738007	38196.50191	0	0.003813007	1.22E-04	0	0.003935357
Los Angele	2024 Annual	T6 instate heavy	DSL	2019 AllSpeeds	587.836552	44875.00684	0	0.004291831	1.36E-04	0	0.004427848
Los Angele	2024 Annual	T6 instate heavy	DSL	2020 AllSpeeds	584.4127411	46765.51969	0	0.004265826	1.35E-04	0	0.00440105
Los Angele	2024 Annual	T6 instate heavy	DSL	2021 AllSpeeds	589.9630459	48893.81063	0	0.004233332	1.37E-04	0	0.00436984
Los Angele	2024 Annual	T6 instate heavy	DSL	2022 AllSpeeds	609.7719693	51509.29514	0	0.004212481	1.41E-04	0	0.004353573
Los Angele	2024 Annual	T6 instate heavy	DSL	2023 AllSpeeds	660.610115	55578.96769	0	0.004273451	1.53E-04	0	0.004426306
Los Angele	2024 Annual	T6 instate heavy	DSL	2024 AllSpeeds	594.0707986	49994.60606	0	0.003600588	1.37E-04	0	0.003738047
Los Angele	2024 Annual	T6 instate heavy	DSL	2025 AllSpeeds	150.3700076	5285.428721	0	3.55E-04	3.48E-05	0	3.90E-04
Los Angele	2024 Annual	LDA/LDT1	GAS&DSL >2007	AllSpeeds	3597678.681	123416974.2	22943010.54	1.369064427	0	1.165455746	2.534520173
Los Angele	2024 Annual	T6 instate heavy	DSL >2007	AllSpeeds	11076.4441	639644.8768	0	0.064161679	0.002562915	0	0.066724594

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EMFAC 2011 Vehicle Categories

Los Angeles COUNTY

South Coast AIR BASIN

South Coast AQMD

Area	CalYr	Season	Veh	Fuel	MdIYr	Speed (Miles/hr)	Pop (Vehicles)	VMT (Miles/day)	Trips (Trips/day)	ROG_RUNEX (Tons/day)	ROG_IDLEX (Tons/day)	ROG_STREX (Tons/day)	ROG_TOTEX (Tons/day)
Los Angele	2025 Annual	LDA	GAS	2007 AllSpeeds	63532.25	1480439.634	377979.1	0.021968225	0	0.02567436	0.047642585		
Los Angele	2025 Annual	LDA	DSL	2007 AllSpeeds	0	0	0	0	0	0	0		
Los Angele	2025 Annual	LDA	GAS	2008 AllSpeeds	76026.69	1811470.774	456114.5	0.025056828	0	0.027778342	0.05283517		
Los Angele	2025 Annual	LDA	DSL	2008 AllSpeeds	14.74702	351.37861	88.4733	3.56E-06	0	0	3.56E-06		
Los Angele	2025 Annual	LDA	GAS	2009 AllSpeeds	75523.45	1842164.238	456116	0.026057797	0	0.028304609	0.054362406		
Los Angele	2025 Annual	LDA	DSL	2009 AllSpeeds	520.5861	12698.13183	3144.026	1.26E-04	0	0	1.26E-04		

Los Angele	2024 Annual	LDT1	0	0	0	0	1.15E-05	1.31E-05	0	0	1.31E-05
Los Angele	2024 Annual	LDT1	0.002206878	0.006167059	0.024814323	0.002544259	0.048353912	0.012720629	0	0.006178182	0.018898811
Los Angele	2024 Annual	LDT1	0	0	0	0	1.09E-05	1.24E-05	0	0	1.24E-05
Los Angele	2024 Annual	LDT1	0.002024454	0.005488128	0.023651483	0.002273028	0.046783072	0.01353628	0	0.006483894	0.020020174
Los Angele	2024 Annual	LDT1	0	0	0	0	1.13E-05	1.29E-05	0	0	1.29E-05
Los Angele	2024 Annual	LDT1	0.001790675	0.004672839	0.021777388	0.001949019	0.043635547	0.013735002	0	0.006476281	0.020211283
Los Angele	2024 Annual	LDT1	0	0	0	0	1.41E-05	1.60E-05	0	0	1.60E-05
Los Angele	2024 Annual	LDT1	0.001557935	0.003829577	0.019167097	0.001630611	0.03983626	0.014071519	0	0.006502548	0.020574067
Los Angele	2024 Annual	LDT1	0	0	0	0	9.65E-06	1.10E-05	0	0	1.10E-05
Los Angele	2024 Annual	LDT1	0.001240615	0.002732957	0.014496687	0.001233634	0.033254347	0.014117985	0	0.006368498	0.020486483
Los Angele	2024 Annual	LDT1	0	0	0	0	1.01E-05	1.15E-05	0	0	1.15E-05
Los Angele	2024 Annual	LDT1	0.001039665	0.002033998	0.013009845	9.58E-04	0.030248662	0.013875268	0	0.00614148	0.020016748
Los Angele	2024 Annual	LDT1	0	0	0	0	1.12E-05	1.27E-05	0	0	1.27E-05
Los Angele	2024 Annual	LDT1	9.13E-04	0.001557016	0.011934858	7.75E-04	0.027643053	0.013123845	0	0.005778252	0.018902097
Los Angele	2024 Annual	LDT1	0	0	0	0	9.42E-06	1.07E-05	0	0	1.07E-05
Los Angele	2024 Annual	LDT1	8.55E-04	0.001260971	0.011357525	6.71E-04	0.026742493	0.013463195	0	0.005727198	0.019190393
Los Angele	2024 Annual	LDT1	0	0	0	0	6.85E-06	7.80E-06	0	0	7.80E-06
Los Angele	2024 Annual	LDT1	8.01E-04	0.001026422	0.010698926	5.85E-04	0.025700472	0.013764102	0	0.005544562	0.019308664
Los Angele	2024 Annual	LDT1	0	0	0	0	5.60E-06	6.37E-06	0	0	6.37E-06
Los Angele	2024 Annual	LDT1	7.69E-04	8.67E-04	0.010110908	5.29E-04	0.024839518	0.01416154	0	0.00528939	0.01945093
Los Angele	2024 Annual	LDT1	0	0	0	0	7.32E-06	8.34E-06	0	0	8.34E-06
Los Angele	2024 Annual	LDT1	7.47E-04	7.57E-04	0.009597646	4.90E-04	0.023995293	0.01463232	0	0.004848776	0.019481096
Los Angele	2024 Annual	LDT1	0	0	0	0	8.71E-06	9.91E-06	0	0	9.91E-06
Los Angele	2024 Annual	T6 instate heavy	0	0	0	0	0.003660468	0.004012153	1.55E-04	0	0.004167164
Los Angele	2024 Annual	T6 instate heavy	0	0	0	0	0.002311807	0.00254533	8.65E-05	0	0.002631816
Los Angele	2024 Annual	T6 instate heavy	0	0	0	0	0.002500173	0.002759965	8.63E-05	0	0.002846256
Los Angele	2024 Annual	T6 instate heavy	0	0	0	0	0.003141042	0.003430727	1.45E-04	0	0.003575837
Los Angele	2024 Annual	T6 instate heavy	0	0	0	0	0.005128694	0.005585536	2.53E-04	0	0.005838628
Los Angele	2024 Annual	T6 instate heavy	0	0	0	0	0.009232721	0.010010056	5.01E-04	0	0.010510749
Los Angele	2024 Annual	T6 instate heavy	0	0	0	0	0.003903023	0.00425497	1.88E-04	0	0.004443295
Los Angele	2024 Annual	T6 instate heavy	0	0	0	0	0.006804941	0.00737844	3.68E-04	0	0.007746907
Los Angele	2024 Annual	T6 instate heavy	0	0	0	0	0.003935357	0.004340818	1.39E-04	0	0.004480104
Los Angele	2024 Annual	T6 instate heavy	0	0	0	0	0.004427848	0.004885923	1.55E-04	0	0.005040767
Los Angele	2024 Annual	T6 instate heavy	0	0	0	0	0.00440105	0.004856318	1.54E-04	0	0.005010261
Los Angele	2024 Annual	T6 instate heavy	0	0	0	0	0.00436984	0.004819326	1.55E-04	0	0.004974731
Los Angele	2024 Annual	T6 instate heavy	0	0	0	0	0.004353573	0.004795589	1.61E-04	0	0.004956211
Los Angele	2024 Annual	T6 instate heavy	0	0	0	0	0.004426306	0.004864999	1.74E-04	0	0.005039013
Los Angele	2024 Annual	T6 instate heavy	0	0	0	0	0.003738047	0.004098995	1.56E-04	0	0.004255481
Los Angele	2024 Annual	T6 instate heavy	0	0	0	0	3.90E-04	4.04E-04	3.96E-05	0	4.44E-04
Los Angele	2024 Annual	LDA/LDT1	0.309518048	0.988880637	3.799474864	0.342369037	7.974762759	2.545871911	0	1.244347297	3.790219208
Los Angele	2024 Annual	T6 instate heavy	0	0	0	0	0.066724594	0.073043188	0.002917684	0	0.075960872

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Area	CalYr	Season	Veh	ROG_DIURN (Tons/day)	ROG_HTSK (Tons/day)	ROG_RUNLS (Tons/day)	ROG_RESTL (Tons/day)	ROG_TOTAL (Tons/day)	TOG_RUNEX (Tons/day)	TOG_IDLEX (Tons/day)	TOG_STREX (Tons/day)	TOG_TOTEX (Tons/day)
Los Angele	2025 Annual	LDA		0.016605049	0.063945435	0.1283003	0.02098427	0.277477639	0.040885649	0	0.027412295	0.068297944
Los Angele	2025 Annual	LDA		0	0	0	0	0	0	0	0	0
Los Angele	2025 Annual	LDA		0.017990129	0.069217421	0.1452205	0.022588318	0.307851538	0.046633926	0	0.029658703	0.076292629
Los Angele	2025 Annual	LDA		0	0	0	0	3.56E-06	4.05E-06	0	0	4.05E-06
Los Angele	2025 Annual	LDA		0.016000206	0.061269045	0.1357569	0.01993091	0.287319467	0.04849686	0	0.030220594	0.078717454
Los Angele	2025 Annual	LDA		0	0	0	0	1.26E-04	1.44E-04	0	0	1.44E-04

Los Angele	2024 Annual	LDT1	0	0	0	0	1.31E-05	1.08E-04	0	0	1.08E-04
Los Angele	2024 Annual	LDT1	0.002206878	0.006167059	0.024814323	0.002544259	0.05463133	0.395910292	0	0.1040726	0.499982892
Los Angele	2024 Annual	LDT1	0	0	0	0	1.24E-05	1.02E-04	0	0	1.02E-04
Los Angele	2024 Annual	LDT1	0.002024454	0.005488128	0.023651483	0.002273028	0.053457266	0.421298312	0	0.1087008	0.529999112
Los Angele	2024 Annual	LDT1	0	0	0	0	1.29E-05	1.06E-04	0	0	1.06E-04
Los Angele	2024 Annual	LDT1	0.001790675	0.004672839	0.021777388	0.001949019	0.050401205	0.427570306	0	0.1080018	0.535572106
Los Angele	2024 Annual	LDT1	0	0	0	0	1.60E-05	1.32E-04	0	0	1.32E-04
Los Angele	2024 Annual	LDT1	0.001557935	0.003829577	0.019167097	0.001630611	0.046759287	0.437018889	0	0.1074209	0.544439789
Los Angele	2024 Annual	LDT1	0	0	0	0	1.10E-05	9.01E-05	0	0	9.01E-05
Los Angele	2024 Annual	LDT1	0.001240615	0.002732957	0.014496687	0.001233634	0.040190376	0.434711013	0	0.1033943	0.538105313
Los Angele	2024 Annual	LDT1	0	0	0	0	1.15E-05	9.38E-05	0	0	9.38E-05
Los Angele	2024 Annual	LDT1	0.001039665	0.002033998	0.013009845	9.58E-04	0.037057994	0.421764124	0	0.096392401	0.518156525
Los Angele	2024 Annual	LDT1	0	0	0	0	1.27E-05	1.04E-04	0	0	1.04E-04
Los Angele	2024 Annual	LDT1	9.13E-04	0.001557016	0.011934858	7.75E-04	0.034081678	0.395765806	0	0.085089028	0.480854834
Los Angele	2024 Annual	LDT1	0	0	0	0	1.07E-05	8.74E-05	0	0	8.74E-05
Los Angele	2024 Annual	LDT1	8.55E-04	0.001260971	0.011357525	6.71E-04	0.033334895	0.399227515	0	0.080673337	0.479900852
Los Angele	2024 Annual	LDT1	0	0	0	0	7.80E-06	6.34E-05	0	0	6.34E-05
Los Angele	2024 Annual	LDT1	8.01E-04	0.001026422	0.010698926	5.85E-04	0.032420523	0.402628711	0	0.07640972	0.479038431
Los Angele	2024 Annual	LDT1	0	0	0	0	6.37E-06	5.17E-05	0	0	5.17E-05
Los Angele	2024 Annual	LDT1	7.69E-04	8.67E-04	0.010110908	5.29E-04	0.031727283	0.414587704	0	0.073018864	0.487606568
Los Angele	2024 Annual	LDT1	0	0	0	0	8.34E-06	6.73E-05	0	0	6.73E-05
Los Angele	2024 Annual	LDT1	7.47E-04	7.57E-04	0.009597646	4.90E-04	0.031072949	0.441904421	0	0.069982596	0.511887017
Los Angele	2024 Annual	LDT1	0	0	0	0	9.91E-06	7.97E-05	0	0	7.97E-05
Los Angele	2024 Annual	T6 instate heavy	0	0	0	0	0.004167164	0.014671736	0.001610131	0	0.016281867
Los Angele	2024 Annual	T6 instate heavy	0	0	0	0	0.002631816	0.009307821	8.98E-04	0	0.010206173
Los Angele	2024 Annual	T6 instate heavy	0	0	0	0	0.002846256	0.010092706	8.96E-04	0	0.010989028
Los Angele	2024 Annual	T6 instate heavy	0	0	0	0	0.003575837	0.012545563	0.001507294	0	0.014052857
Los Angele	2024 Annual	T6 instate heavy	0	0	0	0	0.005838628	0.020425317	0.002628927	0	0.023054245
Los Angele	2024 Annual	T6 instate heavy	0	0	0	0	0.010510749	0.036605007	0.005200818	0	0.041805825
Los Angele	2024 Annual	T6 instate heavy	0	0	0	0	0.004443295	0.015559673	0.001956173	0	0.017515846
Los Angele	2024 Annual	T6 instate heavy	0	0	0	0	0.007746907	0.026981653	0.003827352	0	0.030809004
Los Angele	2024 Annual	T6 instate heavy	0	0	0	0	0.004480104	0.015873604	0.001446796	0	0.017320401
Los Angele	2024 Annual	T6 instate heavy	0	0	0	0	0.005040767	0.017866959	0.0016084	0	0.019475359
Los Angele	2024 Annual	T6 instate heavy	0	0	0	0	0.005010261	0.017758699	0.001599032	0	0.019357731
Los Angele	2024 Annual	T6 instate heavy	0	0	0	0	0.004974731	0.017623426	0.001614218	0	0.019237644
Los Angele	2024 Annual	T6 instate heavy	0	0	0	0	0.004956211	0.017536623	0.001668418	0	0.019205041
Los Angele	2024 Annual	T6 instate heavy	0	0	0	0	0.005039013	0.017790443	0.001807518	0	0.019597961
Los Angele	2024 Annual	T6 instate heavy	0	0	0	0	0.004255481	0.014989302	0.001625458	0	0.016614759
Los Angele	2024 Annual	T6 instate heavy	0	0	0	0	4.44E-04	0.001477508	4.11E-04	0	0.001888941
Los Angele	2024 Annual	LDA/LDT1	0.309518048	0.988880637	3.799474864	0.342369037	9.230461794	77.7228763	0	19.79506985	97.51794615
Los Angele	2024 Annual	T6 instate heavy	0	0	0	0	0.075960872	0.267106039	0.030306641	0	0.29741268

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Area	CalYr	Season	Veh	TOG_DIURN (Tons/day)	TOG_HTSK (Tons/day)	TOG_RUNLS (Tons/day)	TOG_RESTL (Tons/day)	TOG_TOTAL (Tons/day)	CO_RUNEX (Tons/day)	CO_IDLEX (Tons/day)	CO_STREX (Tons/day)	CO_TOTEX (Tons/day)
Los Angele	2025 Annual	LDA		0.016605049	0.063945435	0.1283003	0.02098427	0.298132998	1.333275925	0	0.4856412	1.818917125
Los Angele	2025 Annual	LDA		0	0	0	0	0	0	0	0	0
Los Angele	2025 Annual	LDA		0.017990129	0.069217421	0.1452205	0.022588318	0.331308997	1.49975653	0	0.5242975	2.02405403
Los Angele	2025 Annual	LDA		0	0	0	0	4.05E-06	3.35E-05	0	0	3.35E-05
Los Angele	2025 Annual	LDA		0.016000206	0.061269045	0.1357569	0.01993091	0.311674515	1.514488612	0	0.5160389	2.030527512
Los Angele	2025 Annual	LDA		0	0	0	0	1.44E-04	0.001191607	0	0	0.001191607

Los Angele	2024 Annual	LDT1	3.54E-04	0	0	3.54E-04	0.377362688	0	0	0.377362688	0.247248033
Los Angele	2024 Annual	LDT1	0.034237752	0	0.006322873	0.040560625	242.6408103	0	9.357966	251.9987763	155.4842312
Los Angele	2024 Annual	LDT1	3.36E-04	0	0	3.36E-04	0.370059723	0	0	0.370059723	0.237134271
Los Angele	2024 Annual	LDT1	0.036910071	0	0.006678636	0.043588707	264.2424759	0	10.0379	274.2803759	162.42985
Los Angele	2024 Annual	LDT1	3.50E-04	0	0	3.50E-04	0.397795386	0	0	0.397795386	0.244524824
Los Angele	2024 Annual	LDT1	0.037939783	0	0.006703237	0.04464302	275.2184683	0	10.27925	285.4977183	162.7366803
Los Angele	2024 Annual	LDT1	4.36E-04	0	0	4.36E-04	0.514363312	0	0	0.514363312	0.304143026
Los Angele	2024 Annual	LDT1	0.039297012	0	0.006735949	0.046032961	290.3985557	0	10.62128	301.0198357	171.712666
Los Angele	2024 Annual	LDT1	3.00E-04	0	0	3.00E-04	0.368563725	0	0	0.368563725	0.217931731
Los Angele	2024 Annual	LDT1	0.039395903	0	0.006488948	0.045884851	301.2810466	0	10.74681	312.0278566	178.1474829
Los Angele	2024 Annual	LDT1	3.14E-04	0	0	3.14E-04	0.403416446	0	0	0.403416446	0.238540145
Los Angele	2024 Annual	LDT1	0.038209385	0	0.005966613	0.044175998	313.3235693	0	10.87908	324.2026493	185.2682265
Los Angele	2024 Annual	LDT1	3.50E-04	0	0	3.50E-04	0.473402984	0	0	0.473402984	0.219523185
Los Angele	2024 Annual	LDT1	0.038383734	0	0.005629432	0.044013165	332.2267854	0	11.1619	343.3886854	196.4456982
Los Angele	2024 Annual	LDT1	2.97E-04	0	0	2.97E-04	0.424426014	0	0	0.424426014	0.250963102
Los Angele	2024 Annual	LDT1	0.039219385	0	0.005269694	0.044489079	366.3593453	0	11.81631	378.1756553	216.6282808
Los Angele	2024 Annual	LDT1	2.17E-04	0	0	2.17E-04	0.330657022	0	0	0.330657022	0.195517497
Los Angele	2024 Annual	LDT1	0.03961011	0	0.0048091	0.04441921	396.0246081	0	12.16058	408.1851881	234.1693508
Los Angele	2024 Annual	LDT1	1.79E-04	0	0	1.79E-04	0.292661727	0	0	0.292661727	0.173050879
Los Angele	2024 Annual	LDT1	0.040451964	0	0.004308649	0.044760613	434.9728583	0	12.50284	447.4756983	257.1994511
Los Angele	2024 Annual	LDT1	2.36E-04	0	0	2.36E-04	0.419299459	0	0	0.419299459	0.24793177
Los Angele	2024 Annual	LDT1	0.042276907	0	0.003728973	0.046005879	492.9140614	0	12.7603	505.6743614	291.4600845
Los Angele	2024 Annual	LDT1	2.84E-04	0	0	2.84E-04	0.55548894	0	0	0.55548894	0.32846061
Los Angele	2024 Annual	T6 instate heavy	0.049579089	0.002432577	0	0.052011666	27.89214122	0.483774884	0	28.37591611	25.1029271
Los Angele	2024 Annual	T6 instate heavy	0.029581135	0.001357225	0	0.030938361	18.12544997	0.269916042	0	18.39536601	16.31290497
Los Angele	2024 Annual	T6 instate heavy	0.029050337	0.001354159	0	0.030404496	20.19688186	0.269306159	0	20.46618802	18.17719367
Los Angele	2024 Annual	T6 instate heavy	0.037192517	0.002277212	0	0.039469729	31.7377463	0.452876978	0	32.19062328	28.56397167
Los Angele	2024 Annual	T6 instate heavy	0.059806737	0.00397177	0	0.063778507	53.06810062	0.789879446	0	53.85798007	47.76129056
Los Angele	2024 Annual	T6 instate heavy	0.105678056	0.007857369	0	0.113535424	97.91983077	1.562621753	0	99.48245252	88.12784769
Los Angele	2024 Annual	T6 instate heavy	0.044198266	0.002955376	0	0.047153642	42.97435016	0.587745667	0	43.56209583	38.67691515
Los Angele	2024 Annual	T6 instate heavy	0.075219038	0.005782343	0	0.081001381	77.18583088	1.149954317	0	78.33578519	69.46724779
Los Angele	2024 Annual	T6 instate heavy	0.043293212	0.002185812	0	0.045479025	47.20389133	0.434699956	0	47.63859128	42.4835022
Los Angele	2024 Annual	T6 instate heavy	0.047487057	0.002429962	0	0.049917019	55.45730212	0.483254886	0	55.94055701	49.91157191
Los Angele	2024 Annual	T6 instate heavy	0.04577131	0.002415809	0	0.048187119	57.79363028	0.480440204	0	58.27407049	52.01426725
Los Angele	2024 Annual	T6 instate heavy	0.043781939	0.002438753	0	0.046220691	60.42380867	0.485003057	0	60.90881173	54.3814278
Los Angele	2024 Annual	T6 instate heavy	0.041680055	0.002520637	0	0.044200692	63.65606923	0.501287786	0	64.15735702	57.29046231
Los Angele	2024 Annual	T6 instate heavy	0.040088132	0.002730789	0	0.042818921	68.68544028	0.543081346	0	69.22852162	61.81689625
Los Angele	2024 Annual	T6 instate heavy	0.031684986	0.002455733	0	0.034140719	61.78419052	0.488380002	0	62.27257052	55.60577147
Los Angele	2024 Annual	T6 instate heavy	0.002887186	6.22E-04	0	0.003508776	6.531823348	0.123617765	0	6.655441113	5.878641013
Los Angele	2024 Annual	LDA/LDT1	7.1150023	0	1.197324977	8.312327277	51560.93637	0	1897.210451	53458.14682	32675.06695
Los Angele	2024 Annual	T6 instate heavy	0.726979052	0.045787116	0	0.772766167	790.6364876	9.105840247	0	799.7423278	711.5728388

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Area	CalYr	Season	Veh	NOX_RUNEX (Tons/day)	NOX_IDLEX (Tons/day)	NOX_STREX (Tons/day)	NOX_TOTEX (Tons/day)	CO2_RUNEX (Tons/day)	CO2_IDLEX (Tons/day)	CO2_STREX (Tons/day)	CO2_TOTEX (Tons/day)	CO2_RUNEX(Pavt) (Tons/day)
Los Angele	2025 Annual	LDA		0.095568596	0	0.022843828	0.118412424	608.09989	0	30.86941	638.9693	547.289901
Los Angele	2025 Annual	LDA		0	0	0	0	0	0	0	0	0
Los Angele	2025 Annual	LDA		0.11395238	0	0.026561936	0.140514316	744.3260272	0	37.26344	781.5894672	669.8934244
Los Angele	2025 Annual	LDA		1.07E-04	0	0	1.07E-04	0.122987477	0	0	0.122987477	0.110688729
Los Angele	2025 Annual	LDA		0.121428751	0	0.028380444	0.149809195	758.8800794	0	37.3596	796.2396794	682.9920715
Los Angele	2025 Annual	LDA		0.003816714	0	0	0.003816714	4.444525434	0	0	4.444525434	4.00007289

Los Angele	2024 Annual	LDT1	0	0	0.247248033	5.85E-06	0	0	5.85E-06	9.51E-06	4.37E-05
Los Angele	2024 Annual	LDT1	0	5.996584613	161.4808158	8.66E-04	0	3.41E-04	0.001207595	0.00446624	0.020516796
Los Angele	2024 Annual	LDT1	0	0	0.237134271	5.57E-06	0	0	5.57E-06	9.32E-06	4.28E-05
Los Angele	2024 Annual	LDT1	0	6.17029713	168.6001471	0.001179127	0	4.72E-04	0.001650766	0.00486457	0.022346623
Los Angele	2024 Annual	LDT1	0	0	0.244524824	5.79E-06	0	0	5.79E-06	1.00E-05	4.60E-05
Los Angele	2024 Annual	LDT1	0	6.078120525	168.8148008	0.001412321	0	5.64E-04	0.001975915	0.005066913	0.023276132
Los Angele	2024 Annual	LDT1	0	0	0.304143026	7.23E-06	0	0	7.23E-06	1.30E-05	5.95E-05
Los Angele	2024 Annual	LDT1	0	6.280362864	177.9930289	0.001619312	0	6.37E-04	0.002255967	0.005344779	0.024552586
Los Angele	2024 Annual	LDT1	0	0	0.217931731	4.97E-06	0	0	4.97E-06	9.29E-06	4.27E-05
Los Angele	2024 Annual	LDT1	0	6.354588753	184.5020716	0.001746665	0	6.72E-04	0.002418542	0.005544159	0.025468487
Los Angele	2024 Annual	LDT1	0	0	0.238540145	5.20E-06	0	0	5.20E-06	1.02E-05	4.67E-05
Los Angele	2024 Annual	LDT1	0	6.432800004	191.7010265	0.001815931	0	6.82E-04	0.002498031	0.005763862	0.026477747
Los Angele	2024 Annual	LDT1	0	0	0.279923185	5.81E-06	0	0	5.81E-06	1.19E-05	5.48E-05
Los Angele	2024 Annual	LDT1	0	6.60003147	203.0457297	0.001924905	0	7.00E-04	0.002624738	0.006110124	0.02806839
Los Angele	2024 Annual	LDT1	0	0	0.250963102	4.92E-06	0	0	4.92E-06	1.07E-05	4.91E-05
Los Angele	2024 Annual	LDT1	0	6.986984103	223.615265	0.002122024	0	7.41E-04	0.002862888	0.006735507	0.030941237
Los Angele	2024 Annual	LDT1	0	0	0.195517497	3.60E-06	0	0	3.60E-06	8.33E-06	3.83E-05
Los Angele	2024 Annual	LDT1	0	7.190550954	241.3599017	0.002293157	0	7.62E-04	0.003055606	0.007278288	0.033434637
Los Angele	2024 Annual	LDT1	0	0	0.173050879	2.97E-06	0	0	2.97E-06	7.37E-06	3.39E-05
Los Angele	2024 Annual	LDT1	0	7.392929292	264.5923804	0.002517921	0	7.84E-04	0.00330183	0.007991688	0.036711819
Los Angele	2024 Annual	LDT1	0	0	0.24793177	3.92E-06	0	0	3.92E-06	1.06E-05	4.85E-05
Los Angele	2024 Annual	LDT1	0	7.54516539	299.0052499	0.002852461	0	8.00E-04	0.003652511	0.009053155	0.041587926
Los Angele	2024 Annual	LDT1	0	0	0.32846061	4.73E-06	0	0	4.73E-06	1.40E-05	6.43E-05
Los Angele	2024 Annual	T6 instate heavy	0.435397395	0	25.5383245	0.001703963	5.72E-06	0	0.001709681	2.98E-04	0.003235258
Los Angele	2024 Annual	T6 instate heavy	0.242924437	0	16.55582941	0.001076593	3.19E-06	0	0.001079783	1.94E-04	0.002102403
Los Angele	2024 Annual	T6 instate heavy	0.242375544	0	18.41956921	0.001161817	3.18E-06	0	0.001164999	2.16E-04	0.002342672
Los Angele	2024 Annual	T6 instate heavy	0.40758928	0	28.97156095	0.001399273	5.35E-06	0	0.001404625	3.40E-04	0.003689809
Los Angele	2024 Annual	T6 instate heavy	0.710891501	0	48.47218206	0.002262413	9.33E-06	0	0.002271748	5.68E-04	0.006169661
Los Angele	2024 Annual	T6 instate heavy	1.406359578	0	89.53420727	0.00402285	1.85E-05	0	0.004041318	0.001048098	0.011384093
Los Angele	2024 Annual	T6 instate heavy	0.528971101	0	39.20588625	0.001694763	6.95E-06	0	0.001701709	4.60E-04	0.004996169
Los Angele	2024 Annual	T6 instate heavy	1.034958885	0	70.50220667	0.002908822	1.36E-05	0	0.002922413	8.26E-04	0.008973572
Los Angele	2024 Annual	T6 instate heavy	0.39122996	0	42.87473216	0.001691073	5.14E-06	0	0.001696211	5.05E-04	0.005487892
Los Angele	2024 Annual	T6 instate heavy	0.434929398	0	50.34650131	0.001877231	5.71E-06	0	0.001882942	5.94E-04	0.006447428
Los Angele	2024 Annual	T6 instate heavy	0.432396183	0	52.44666344	0.001835748	5.68E-06	0	0.001841426	6.19E-04	0.006719048
Los Angele	2024 Annual	T6 instate heavy	0.436502751	0	54.81793056	0.001787172	5.73E-06	0	0.001792904	6.47E-04	0.007024831
Los Angele	2024 Annual	T6 instate heavy	0.451159008	0	57.74162132	0.001738601	5.92E-06	0	0.001744525	6.81E-04	0.007400611
Los Angele	2024 Annual	T6 instate heavy	0.488773212	0	62.30566946	0.001717482	6.42E-06	0	0.0017239	7.35E-04	0.007985322
Los Angele	2024 Annual	T6 instate heavy	0.439542002	0	56.04531347	0.001402971	5.77E-06	0	0.001408742	6.61E-04	0.007182988
Los Angele	2024 Annual	T6 instate heavy	0.111255989	0	5.989897002	1.33E-04	1.46E-06	0	1.35E-04	6.99E-05	7.59E-04
Los Angele	2024 Annual	LDA/LDT1	0	1223.105895	33898.17284	0.278330782	0	0.101273999	0.379604781	1.088351471	4.99961525
Los Angele	2024 Annual	T6 instate heavy	8.195256223	0	719.768095	0.028414088	0.000107615	0	0.028521703	0.008461053	0.091901142

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Los Angele	2025 Annual	LDA		0	27.782469	575.07237	4.74E-04	0	7.45E-05	5.48E-04	0.013055244	0.059972536
Los Angele	2025 Annual	LDA		0	0	0	0	0	0	0	0	0
Los Angele	2025 Annual	LDA		0	33.537096	703.4305204	5.80E-04	0	1.17E-04	6.97E-04	0.015974438	0.073382594
Los Angele	2025 Annual	LDA		0	0	0.110688729	2.13E-06	0	0	2.13E-06	3.10E-06	1.42E-05
Los Angele	2025 Annual	LDA		0	33.62364	716.6157115	7.88E-04	0	1.85E-04	9.73E-04	0.01624511	0.074625984
Los Angele	2025 Annual	LDA		0	0	4.00007289	7.57E-05	0	0	7.57E-05	1.12E-04	5.14E-04



Los Angele	2024 Annual	LDT1	5.90E-05	5.38E-06	0	0	5.38E-06	2.38E-06	1.87E-05	2.65E-05	3.60E-06
Los Angele	2024 Annual	LDT1	0.02619063	8.04E-04	0	3.17E-04	0.001120449	0.00111656	0.008792912	0.01102992	0.002428559
Los Angele	2024 Annual	LDT1	5.77E-05	5.12E-06	0	0	5.12E-06	2.33E-06	1.84E-05	2.58E-05	3.53E-06
Los Angele	2024 Annual	LDT1	0.028861958	0.001094035	0	4.38E-04	0.001531638	0.001216142	0.009577123	0.012324903	0.002644603
Los Angele	2024 Annual	LDT1	6.19E-05	5.33E-06	0	0	5.33E-06	2.51E-06	1.97E-05	2.76E-05	3.80E-06
Los Angele	2024 Annual	LDT1	0.030318959	0.001310401	0	5.23E-04	0.001833323	0.001266728	0.009975484	0.013075534	0.002754266
Los Angele	2024 Annual	LDT1	7.97E-05	6.65E-06	0	0	6.65E-06	3.24E-06	2.55E-05	3.54E-05	4.91E-06
Los Angele	2024 Annual	LDT1	0.032153332	0.001502455	0	5.91E-04	0.002093165	0.001336195	0.010522534	0.013951894	0.002905949
Los Angele	2024 Annual	LDT1	5.69E-05	4.57E-06	0	0	4.57E-06	2.32E-06	1.83E-05	2.52E-05	3.52E-06
Los Angele	2024 Annual	LDT1	0.033431189	0.001620617	0	6.23E-04	0.002244009	0.00138604	0.010915064	0.014545113	0.00301454
Los Angele	2024 Annual	LDT1	6.21E-05	4.79E-06	0	0	4.79E-06	2.54E-06	2.00E-05	2.73E-05	3.85E-06
Los Angele	2024 Annual	LDT1	0.03473964	0.001684884	0	6.33E-04	0.002317761	0.001440966	0.011347605	0.015106332	0.003134536
Los Angele	2024 Annual	LDT1	7.25E-05	5.34E-06	0	0	5.34E-06	2.98E-06	2.35E-05	3.18E-05	4.52E-06
Los Angele	2024 Annual	LDT1	0.036803252	0.001785994	0	6.49E-04	0.002435324	0.001527531	0.012029309	0.015992164	0.003322794
Los Angele	2024 Annual	LDT1	6.47E-05	4.53E-06	0	0	4.53E-06	2.67E-06	2.11E-05	2.83E-05	4.05E-06
Los Angele	2024 Annual	LDT1	0.040539632	0.001968888	0	6.87E-04	0.002656288	0.001683877	0.013260529	0.017600693	0.003663561
Los Angele	2024 Annual	LDT1	5.02E-05	3.31E-06	0	0	3.31E-06	2.08E-06	1.64E-05	2.18E-05	3.16E-06
Los Angele	2024 Annual	LDT1	0.04376853	0.002127671	0	7.07E-04	0.002835098	0.001819572	0.014329133	0.018983803	0.003959735
Los Angele	2024 Annual	LDT1	4.42E-05	2.73E-06	0	0	2.73E-06	1.84E-06	1.45E-05	1.91E-05	2.79E-06
Los Angele	2024 Annual	LDT1	0.048005337	0.002336216	0	7.27E-04	0.003063553	0.001997922	0.015733637	0.020795112	0.004348706
Los Angele	2024 Annual	LDT1	6.30E-05	3.61E-06	0	0	3.61E-06	2.64E-06	2.08E-05	2.70E-05	4.00E-06
Los Angele	2024 Annual	LDT1	0.054293592	0.002646614	0	7.42E-04	0.003388928	0.002263289	0.017823394	0.023475611	0.004927503
Los Angele	2024 Annual	LDT1	8.30E-05	4.35E-06	0	0	4.35E-06	3.50E-06	2.76E-05	3.54E-05	5.30E-06
Los Angele	2024 Annual	T6 instate heavy	0.005242799	0.001567646	5.26E-06	0	0.001572906	7.45E-05	0.001386539	0.00303391	2.66E-04
Los Angele	2024 Annual	T6 instate heavy	0.003375748	9.90E-04	2.93E-06	0	9.93E-04	4.84E-05	9.01E-04	0.001942821	1.73E-04
Los Angele	2024 Annual	T6 instate heavy	0.003723354	0.001068871	2.93E-06	0	0.001071799	5.39E-05	0.001004002	0.002129722	1.93E-04
Los Angele	2024 Annual	T6 instate heavy	0.005434143	0.001287331	4.92E-06	0	0.001292255	8.49E-05	0.001581347	0.002958529	3.03E-04
Los Angele	2024 Annual	T6 instate heavy	0.009009431	0.00208142	8.59E-06	0	0.002090008	1.42E-04	0.002644141	0.004876154	5.06E-04
Los Angele	2024 Annual	T6 instate heavy	0.016473509	0.003701022	1.70E-05	0	0.003718012	2.62E-04	0.004878897	0.008858934	9.34E-04
Los Angele	2024 Annual	T6 instate heavy	0.00715786	0.001559182	6.39E-06	0	0.001565573	1.15E-04	0.002141215	0.003821783	4.10E-04
Los Angele	2024 Annual	T6 instate heavy	0.012722154	0.002676117	1.25E-05	0	0.00268862	2.07E-04	0.003845817	0.006740979	7.36E-04
Los Angele	2024 Annual	T6 instate heavy	0.007689356	0.001555788	4.73E-06	0	0.001560514	1.26E-04	0.002351954	0.004038781	4.50E-04
Los Angele	2024 Annual	T6 instate heavy	0.008923965	0.001727052	5.25E-06	0	0.001732306	1.48E-04	0.002763183	0.004643889	5.29E-04
Los Angele	2024 Annual	T6 instate heavy	0.009179076	0.001688888	5.22E-06	0	0.001694112	1.55E-04	0.002879592	0.004728354	5.51E-04
Los Angele	2024 Annual	T6 instate heavy	0.009464489	0.001644198	5.27E-06	0	0.001649472	1.62E-04	0.003010642	0.004821802	5.76E-04
Los Angele	2024 Annual	T6 instate heavy	0.009826487	0.001599513	5.45E-06	0	0.001604963	1.70E-04	0.003171691	0.004946991	6.07E-04
Los Angele	2024 Annual	T6 instate heavy	0.010444406	0.001580083	5.90E-06	0	0.001585988	1.84E-04	0.003422281	0.005192065	6.55E-04
Los Angele	2024 Annual	T6 instate heavy	0.009253046	0.001290733	5.31E-06	0	0.001296043	1.65E-04	0.003078423	0.004539795	5.89E-04
Los Angele	2024 Annual	T6 instate heavy	9.64E-04	1.23E-04	1.34E-06	0	1.24E-04	1.75E-05	3.25E-04	4.67E-04	6.23E-05
Los Angele	2024 Annual	LDA/LDT1	6.467571502	0.258231037	0	0.09396556	0.352196598	0.272087864	2.142692012	2.766976474	0.51590201
Los Angele	2024 Annual	T6 instate heavy	0.128883898	0.026140961	9.90056E-05	0	0.026239967	0.002115263	0.039386204	0.067741433	0.007543042

EMFAC 2011

2025 Estimated Annual Emissions

EMFAC 2011 Vehicle Categories

Los Angeles COUNTY

South Coast AIR BASIN

South Coast AQMD

Area	CalYr	Season	Veh	PM10_TOTAL (Tons/day)	PM2_5_RUNEX (Tons/day)	PM2_5_IDLEX (Tons/day)	PM2_5_STREX (Tons/day)	PM2_5_TOTEX (Tons/day)	PM2_5_PMTW (Tons/day)	PM2_5_PMBW (Tons/day)	PM2_5_TOTAL (Tons/day)	SOX_RUNEX (Tons/day)
Los Angele	2025 Annual	LDA		0.073575923	4.39E-04	0	6.91E-05	5.09E-04	0.003263811	0.025702516	0.029474914	0.006091997
Los Angele	2025 Annual	LDA		0	0	0	0	0	0	0	0	0
Los Angele	2025 Annual	LDA		0.090053692	5.38E-04	0	1.08E-04	6.46E-04	0.00399361	0.031449679	0.036089674	0.007454552
Los Angele	2025 Annual	LDA		1.95E-05	1.96E-06	0	0	1.96E-06	7.75E-07	6.10E-06	8.83E-06	1.17E-06
Los Angele	2025 Annual	LDA		0.091844345	7.31E-04	0	1.72E-04	9.03E-04	0.004061278	0.03198256	0.036946854	0.007600111
Los Angele	2025 Annual	LDA		7.02E-04	6.97E-05	0	0	6.97E-05	2.80E-05	2.20E-04	3.18E-04	4.24E-05

Los Angele	2024 Annual	LDT1	0	0	3.60E-06	0	0.033962645	2.13E-05	2.00E-04	6.56E-04	1.09E-05	9.87E-05	9.99E-06	3.91E-05	6.68E-06
Los Angele	2024 Annual	LDT1	0	9.52E-05	0.002523784	26.91982	0	1.91E-04	1.97E-03	1.60E-04	4.77E-06	9.87E-05	4.42E-06	3.91E-05	9.97E-06
Los Angele	2024 Annual	LDT1	0	0	3.53E-06	0	0.033305377	2.06E-05	1.93E-04	6.36E-04	1.05E-05	9.87E-05	9.69E-06	3.91E-05	6.68E-06
Los Angele	2024 Annual	LDT1	0	1.02E-04	0.002746697	29.29751	0	1.70E-04	1.92E-03	1.58E-04	5.99E-06	9.87E-05	5.55E-06	3.91E-05	9.96E-06
Los Angele	2024 Annual	LDT1	0	0	3.80E-06	0	0.035801586	1.99E-05	1.86E-04	6.16E-04	1.02E-05	9.87E-05	9.38E-06	3.91E-05	6.68E-06
Los Angele	2024 Annual	LDT1	0	1.04E-04	0.002858758	30.49282	0	1.52E-04	1.86E-03	1.55E-04	6.88E-06	9.87E-05	6.38E-06	3.91E-05	9.95E-06
Los Angele	2024 Annual	LDT1	0	0	4.91E-06	0	0.046292704	1.92E-05	1.79E-04	5.94E-04	9.84E-06	9.87E-05	9.05E-06	3.91E-05	6.68E-06
Los Angele	2024 Annual	LDT1	0	1.08E-04	0.003013846	32.14705	0	1.31E-04	1.80E-03	1.52E-04	7.44E-06	9.87E-05	6.91E-06	3.91E-05	9.95E-06
Los Angele	2024 Annual	LDT1	0	0	3.52E-06	0	0.033170741	1.83E-05	1.71E-04	5.70E-04	9.44E-06	9.87E-05	8.69E-06	3.91E-05	6.68E-06
Los Angele	2024 Annual	LDT1	0	1.09E-04	0.003123624	33.31799	0	1.06E-04	1.71E-03	1.46E-04	7.69E-06	9.87E-05	7.14E-06	3.91E-05	9.94E-06
Los Angele	2024 Annual	LDT1	0	0	3.85E-06	0	0.03630748	1.75E-05	1.63E-04	5.45E-04	9.03E-06	9.87E-05	8.31E-06	3.91E-05	6.68E-06
Los Angele	2024 Annual	LDT1	0	1.10E-04	0.003244823	34.61076	0	9.26E-05	1.59E-03	1.35E-04	7.64E-06	9.87E-05	7.09E-06	3.91E-05	9.93E-06
Los Angele	2024 Annual	LDT1	0	0	4.52E-06	0	0.042606272	1.65E-05	1.54E-04	5.18E-04	8.59E-06	9.87E-05	7.90E-06	3.91E-05	6.68E-06
Los Angele	2024 Annual	LDT1	0	1.13E-04	0.003435716	36.6469	0	7.98E-05	1.39E-03	1.27E-04	7.58E-06	9.87E-05	7.03E-06	3.91E-05	9.92E-06
Los Angele	2024 Annual	LDT1	0	0	4.05E-06	0	0.038198341	1.55E-05	1.44E-04	4.89E-04	8.12E-06	9.87E-05	7.47E-06	3.91E-05	6.68E-06
Los Angele	2024 Annual	LDT1	0	1.19E-04	0.003782944	40.3506	0	7.00E-05	1.26E-03	1.16E-04	7.50E-06	9.87E-05	6.96E-06	3.91E-05	9.91E-06
Los Angele	2024 Annual	LDT1	0	0	3.16E-06	0	0.029759131	1.45E-05	1.34E-04	4.60E-04	7.63E-06	9.87E-05	7.02E-06	3.91E-05	6.68E-06
Los Angele	2024 Annual	LDT1	0	1.23E-04	0.004082482	43.5456	0	6.23E-05	1.16E-03	1.08E-04	7.40E-06	9.87E-05	6.87E-06	3.91E-05	9.89E-06
Los Angele	2024 Annual	LDT1	0	0	2.79E-06	0	0.026339557	1.34E-05	1.24E-04	4.28E-04	7.10E-06	9.87E-05	6.53E-06	3.91E-05	6.68E-06
Los Angele	2024 Annual	LDT1	0	1.26E-04	0.004474809	47.73034	0	5.48E-05	1.08E-03	9.88E-05	7.29E-06	9.87E-05	6.76E-06	3.91E-05	9.88E-06
Los Angele	2024 Annual	LDT1	0	0	4.00E-06	0	0.03773696	1.22E-05	1.12E-04	3.94E-04	6.55E-06	9.87E-05	6.02E-06	3.91E-05	6.68E-06
Los Angele	2024 Annual	LDT1	0	1.29E-04	0.005056115	53.93082	0	4.67E-05	9.97E-04	8.96E-05	7.12E-06	9.87E-05	6.60E-06	3.91E-05	9.85E-06
Los Angele	2024 Annual	LDT1	0	0	5.30E-06	0	0.049994007	1.10E-05	1.00E-04	3.58E-04	5.96E-06	9.87E-05	5.48E-06	3.91E-05	6.68E-06
Los Angele	2024 Annual	T6 instate heavy	4.62E-06	0	2.71E-04	0	2.55383245	3.25E-04	1.45E-03	4.62E-03	1.52E-04	3.14E-04	1.40E-04	1.30E-04	2.40E-05
Los Angele	2024 Annual	T6 instate heavy	2.58E-06	0	1.76E-04	0	1.655582941	3.16E-04	1.39E-03	4.23E-03	1.48E-04	3.14E-04	1.36E-04	1.30E-04	2.40E-05
Los Angele	2024 Annual	T6 instate heavy	2.57E-06	0	1.95E-04	0	1.841956921	3.07E-04	1.35E-03	3.73E-03	1.43E-04	3.14E-04	1.31E-04	1.30E-04	2.40E-05
Los Angele	2024 Annual	T6 instate heavy	4.32E-06	0	3.07E-04	0	2.897156095	2.45E-04	1.09E-03	3.07E-03	1.09E-04	3.14E-04	1.01E-04	1.30E-04	2.39E-05
Los Angele	2024 Annual	T6 instate heavy	7.54E-06	0	5.14E-04	0	4.847218206	2.39E-04	1.07E-03	2.97E-03	1.06E-04	3.14E-04	9.73E-05	1.30E-04	2.39E-05
Los Angele	2024 Annual	T6 instate heavy	1.49E-05	0	9.49E-04	0	8.953420727	2.33E-04	1.06E-03	2.87E-03	1.02E-04	3.14E-04	9.38E-05	1.30E-04	2.40E-05
Los Angele	2024 Annual	T6 instate heavy	5.61E-06	0	4.16E-04	0	3.920588625	2.24E-04	1.01E-03	2.71E-03	9.79E-05	3.14E-04	9.00E-05	1.30E-04	2.39E-05
Los Angele	2024 Annual	T6 instate heavy	1.10E-05	0	7.47E-04	0	7.050220667	2.18E-04	9.87E-04	2.59E-03	9.36E-05	3.14E-04	8.61E-05	1.30E-04	2.39E-05
Los Angele	2024 Annual	T6 instate heavy	4.15E-06	0	4.54E-04	0	4.287473216	2.06E-04	9.07E-04	2.38E-03	8.88E-05	3.14E-04	8.17E-05	1.30E-04	2.38E-05
Los Angele	2024 Annual	T6 instate heavy	4.61E-06	0	5.34E-04	0	5.034650131	1.97E-04	8.68E-04	2.22E-03	8.39E-05	3.14E-04	7.72E-05	1.30E-04	2.38E-05
Los Angele	2024 Annual	T6 instate heavy	4.58E-06	0	5.56E-04	0	5.244666344	1.88E-04	8.28E-04	2.06E-03	7.88E-05	3.14E-04	7.25E-05	1.30E-04	2.38E-05
Los Angele	2024 Annual	T6 instate heavy	4.63E-06	0	5.81E-04	0	5.481793056	1.79E-04	7.87E-04	1.89E-03	7.33E-05	3.14E-04	6.75E-05	1.30E-04	2.38E-05
Los Angele	2024 Annual	T6 instate heavy	4.78E-06	0	6.12E-04	0	5.774162132	1.69E-04	7.46E-04	1.72E-03	6.77E-05	3.14E-04	6.23E-05	1.30E-04	2.38E-05
Los Angele	2024 Annual	T6 instate heavy	5.18E-06	0	6.60E-04	0	6.230566946	1.59E-04	7.05E-04	1.54E-03	6.20E-05	3.14E-04	5.71E-05	1.30E-04	2.38E-05
Los Angele	2024 Annual	T6 instate heavy	4.66E-06	0	5.94E-04	0	5.604531347	1.50E-04	6.65E-04	1.37E-03	5.64E-05	3.14E-04	5.18E-05	1.30E-04	2.38E-05
Los Angele	2024 Annual	T6 instate heavy	1.18E-06	0	6.35E-05	0	0.5989897	1.47E-04	7.15E-04	1.33E-03	5.10E-05	3.14E-04	4.69E-05	1.30E-04	2.40E-05
Los Angele	2024 Annual	LDA/LDT1	0	0.019285029	0.53518704	5694.79046	12.15837656	1.29E-04	1.58E-03	1.35E-04	6.15E-06	9.87E-05	5.71E-06	3.91E-05	8.67E-06
Los Angele	2024 Annual	T6 instate heavy	8.6874E-05	0	0.007629916	0	71.9768095	2.09E-04	9.30E-04	2.42E-03	8.92E-05	3.14E-04	8.20E-05	1.30E-04	2.39E-05

EMFAC 2011

2025 Estimated Annual Emissions

EMFAC 2011 Vehicle Categories

Los Angeles COUNTY

South Coast AIR BASIN

South Coast AQMD

Area	CalYr	Season	Veh	SOX_IDLEX (Tons/day)	SOX_STREX (Tons/day)	SOX_TOTEX (Tons/day)	FUEL_GAS (1000 Gallons)	FUEL_DSL (1000 Gallons)	exhaust ROG lb/mile	exhaust CO lb/mile	exhaust NOx lb/mile	exhaust PM10 lb/mile	tire wear a PM10 lb/mile	exhaust PM2.5 lb/mile	tire wear a PM2.5 lb/mile	SOx lb/mile
Los Angele	2025 Annual	LDA		0	3.17E-04	0.006408561	68.35662	0	3.75E-04	2.46E-03	1.60E-04	7.41E-07	9.87E-05	6.87E-07	3.91E-05	8.66E-06
Los Angele	2025 Annual	LDA		0	0	0	0	0	0	0	0	0	0	0	0	0
Los Angele	2025 Annual	LDA		0	3.81E-04	0.007835613	83.57818	0	3.40E-04	2.23E-03	1.55E-04	7.69E-07	9.87E-05	7.14E-07	3.91E-05	8.65E-06
Los Angele	2025 Annual	LDA		0	0	1.17E-06	0	0.011068872	2.02E-05	1.91E-04	6.10E-04	1.21E-05	9.87E-05	1.11E-05	3.91E-05	6.68E-06
Los Angele	2025 Annual	LDA		0	3.82E-04	0.007982019	85.13982	0	3.12E-04	2.20E-03	1.63E-04	1.06E-06	9.87E-05	9.80E-07	3.91E-05	8.67E-06
Los Angele	2025 Annual	LDA		0	0	4.24E-05	0	0.4000073	1.99E-05	1.88E-04	6.01E-04	1.19E-05	9.87E-05	1.10E-05	3.91E-05	6.68E-06

Los Angele	2024 Annual	LDT1	2.29E-04
Los Angele	2024 Annual	LDT1	3.19E-04
Los Angele	2024 Annual	LDT1	2.24E-04
Los Angele	2024 Annual	LDT1	3.06E-04
Los Angele	2024 Annual	LDT1	2.15E-04
Los Angele	2024 Annual	LDT1	2.94E-04
Los Angele	2024 Annual	LDT1	2.07E-04
Los Angele	2024 Annual	LDT1	2.94E-04
Los Angele	2024 Annual	LDT1	2.07E-04
Los Angele	2024 Annual	LDT1	2.93E-04
Los Angele	2024 Annual	LDT1	2.07E-04
Los Angele	2024 Annual	LDT1	2.93E-04
Los Angele	2024 Annual	LDT1	2.07E-04
Los Angele	2024 Annual	LDT1	2.93E-04
Los Angele	2024 Annual	LDT1	2.07E-04
Los Angele	2024 Annual	LDT1	2.92E-04
Los Angele	2024 Annual	LDT1	2.07E-04
Los Angele	2024 Annual	LDT1	2.92E-04
Los Angele	2024 Annual	LDT1	2.07E-04
Los Angele	2024 Annual	LDT1	2.91E-04
Los Angele	2024 Annual	LDT1	2.07E-04
Los Angele	2024 Annual	T6 instate heavy	1.13E-03
Los Angele	2024 Annual	T6 instate heavy	1.13E-03
Los Angele	2024 Annual	T6 instate heavy	1.13E-03
Los Angele	2024 Annual	T6 instate heavy	1.13E-03
Los Angele	2024 Annual	T6 instate heavy	1.13E-03
Los Angele	2024 Annual	T6 instate heavy	1.13E-03
Los Angele	2024 Annual	T6 instate heavy	1.13E-03
Los Angele	2024 Annual	T6 instate heavy	1.13E-03
Los Angele	2024 Annual	T6 instate heavy	1.12E-03
Los Angele	2024 Annual	T6 instate heavy	1.12E-03
Los Angele	2024 Annual	T6 instate heavy	1.12E-03
Los Angele	2024 Annual	T6 instate heavy	1.12E-03
Los Angele	2024 Annual	T6 instate heavy	1.12E-03
Los Angele	2024 Annual	T6 instate heavy	1.12E-03
Los Angele	2024 Annual	T6 instate heavy	1.12E-03
Los Angele	2024 Annual	T6 instate heavy	1.12E-03
Los Angele	2024 Annual	T6 instate heavy	1.12E-03
Los Angele	2024 Annual	T6 instate heavy	1.12E-03
Los Angele	2024 Annual	T6 instate heavy	1.12E-03
Los Angele	2024 Annual	T6 instate heavy	1.12E-03
Los Angele	2024 Annual	LDA/LDT1	2.75E-04
Los Angele	2024 Annual	T6 instate heavy	1.13E-03

EMFAC 2011

2025 Estimated Annual Emissions

EMFAC 2011 Vehicle Categories

Los Angeles COUNTY

South Coast AIR BASIN

South Coast AQMD

Area	CalYr	Season	Veh	exhaust CO2 ton/mile
Los Angele	2025 Annual	LDA		3.88E-04
Los Angele	2025 Annual	LDA		
Los Angele	2025 Annual	LDA		3.88E-04
Los Angele	2025 Annual	LDA		3.15E-04
Los Angele	2025 Annual	LDA		3.89E-04
Los Angele	2025 Annual	LDA		3.15E-04

Los Angele	2025 Annual	LDA	GAS	2010 AllSpeeds	108924.2	2721231.812	662192.9	0.038749898	0	0.040993631	0.079743529
Los Angele	2025 Annual	LDA	DSL	2010 AllSpeeds	990.6261	24748.66003	6022.404	2.42E-04	0	0	2.42E-04
Los Angele	2025 Annual	LDA	GAS	2011 AllSpeeds	121557	3113907.993	745069.8	0.043804968	0	0.045635551	0.089440519
Los Angele	2025 Annual	LDA	DSL	2011 AllSpeeds	944.611	24198.01986	5789.886	2.32E-04	0	0	2.32E-04
Los Angele	2025 Annual	LDA	GAS	2012 AllSpeeds	140897.1	3704367.434	869248	0.05142109	0	0.052617211	0.104038301
Los Angele	2025 Annual	LDA	DSL	2012 AllSpeeds	912.4877	23990.53627	5629.486	2.25E-04	0	0	2.25E-04
Los Angele	2025 Annual	LDA	GAS	2013 AllSpeeds	153349.8	4142705.817	953740.4	0.056669688	0	0.056973457	0.113643145
Los Angele	2025 Annual	LDA	DSL	2013 AllSpeeds	879.5139	23759.89547	5470.029	2.17E-04	0	0	2.17E-04
Los Angele	2025 Annual	LDA	GAS	2014 AllSpeeds	168584.8	4686431.704	1055235	0.063089075	0	0.062115781	0.125204856
Los Angele	2025 Annual	LDA	DSL	2014 AllSpeeds	799.5086	22225.3199	5004.424	1.97E-04	0	0	1.97E-04
Los Angele	2025 Annual	LDA	GAS	2015 AllSpeeds	184163.9	5276096.864	1161958	0.069816123	0	0.06729684	0.137112963
Los Angele	2025 Annual	LDA	DSL	2015 AllSpeeds	769.2108	22037.1211	4853.234	1.89E-04	0	0	1.89E-04
Los Angele	2025 Annual	LDA	GAS	2016 AllSpeeds	195872.5	5794440.363	1243666	0.075091888	0	0.070618547	0.145710435
Los Angele	2025 Annual	LDA	DSL	2016 AllSpeeds	697.3936	20630.85747	4428.006	1.71E-04	0	0	1.71E-04
Los Angele	2025 Annual	LDA	GAS	2017 AllSpeeds	208024.1	6368560.759	1329141	0.080653348	0	0.073806554	0.154459902
Los Angele	2025 Annual	LDA	DSL	2017 AllSpeeds	695.2034	21283.39449	4441.906	1.70E-04	0	0	1.70E-04
Los Angele	2025 Annual	LDA	GAS	2018 AllSpeeds	218248.5	6933824.546	1401016	0.085448257	0	0.075742714	0.161190971
Los Angele	2025 Annual	LDA	DSL	2018 AllSpeeds	684.072	21733.25459	4391.303	1.66E-04	0	0	1.66E-04
Los Angele	2025 Annual	LDA	GAS	2019 AllSpeeds	226717.9	7498250.071	1459917	0.08963717	0	0.076595858	0.166233028
Los Angele	2025 Annual	LDA	DSL	2019 AllSpeeds	653.5639	21615.41859	4208.531	1.58E-04	0	0	1.58E-04
Los Angele	2025 Annual	LDA	GAS	2020 AllSpeeds	235056	8129009.535	1520660	0.092142568	0	0.076214738	0.168357306
Los Angele	2025 Annual	LDA	DSL	2020 AllSpeeds	590.3914	20417.74784	3819.45	1.41E-04	0	0	1.41E-04
Los Angele	2025 Annual	LDA	GAS	2021 AllSpeeds	226055.8	8221055.795	1466955	0.083703611	0	0.067768641	0.151472252
Los Angele	2025 Annual	LDA	DSL	2021 AllSpeeds	524.0139	19057.08071	3400.51	1.24E-04	0	0	1.24E-04
Los Angele	2025 Annual	LDA	GAS	2022 AllSpeeds	229762.5	8857156.686	1493307	0.084090615	0	0.064719491	0.148810106
Los Angele	2025 Annual	LDA	DSL	2022 AllSpeeds	502.7906	19382.22624	3267.812	1.18E-04	0	0	1.18E-04
Los Angele	2025 Annual	LDA	GAS	2023 AllSpeeds	233874.4	9674232.792	1524708	0.086995779	0	0.062247463	0.149243242
Los Angele	2025 Annual	LDA	DSL	2023 AllSpeeds	508.9287	21051.95058	3317.883	1.19E-04	0	0	1.19E-04
Los Angele	2025 Annual	LDA	GAS	2024 AllSpeeds	240396.2	1.09E+07	1572034	0.091937738	0	0.059633922	0.151571166
Los Angele	2025 Annual	LDA	DSL	2024 AllSpeeds	537.333	24359.45098	3513.806	1.26E-04	0	0	1.26E-04
Los Angele	2025 Annual	LDA	GAS	2025 AllSpeeds	240387.1	1.25E+07	1576782	0.096500619	0	0.053788263	0.150288882
Los Angele	2025 Annual	LDA	DSL	2025 AllSpeeds	550.0977	28671.94841	3608.28	1.33E-04	0	0	1.33E-04
Los Angele	2025 Annual	LDT1	GAS	2007 AllSpeeds	6112.893	174246.6543	36368.07	0.002685911	0	0.002554703	0.005240614
Los Angele	2025 Annual	LDT1	DSL	2007 AllSpeeds	0	0	0	0	0	0	0
Los Angele	2025 Annual	LDT1	GAS	2008 AllSpeeds	13239.06	382678.4073	79426.41	0.005481002	0	0.004984986	0.010465988
Los Angele	2025 Annual	LDT1	DSL	2008 AllSpeeds	0	0	0	0	0	0	0
Los Angele	2025 Annual	LDT1	GAS	2009 AllSpeeds	12268.03	359811.6449	74091.48	0.005218185	0	0.004684655	0.00990284
Los Angele	2025 Annual	LDT1	DSL	2009 AllSpeeds	0	0	0	0	0	0	0
Los Angele	2025 Annual	LDT1	GAS	2010 AllSpeeds	14062.59	418765.6757	85491.99	0.00613929	0	0.005431909	0.011571199
Los Angele	2025 Annual	LDT1	DSL	2010 AllSpeeds	21.70839	646.4495705	131.9738	7.59E-06	0	0	7.59E-06
Los Angele	2025 Annual	LDT1	GAS	2011 AllSpeeds	13722.96	415138.8573	84113.32	0.006003751	0	0.005280699	0.01128445
Los Angele	2025 Annual	LDT1	DSL	2011 AllSpeeds	31.80829	962.2486474	194.9654	1.11E-05	0	0	1.11E-05
Los Angele	2025 Annual	LDT1	GAS	2012 AllSpeeds	13715.4	421906.7931	84615.54	0.006011529	0	0.005242546	0.011254075
Los Angele	2025 Annual	LDT1	DSL	2012 AllSpeeds	23.79702	732.0357891	146.8129	8.24E-06	0	0	8.24E-06
Los Angele	2025 Annual	LDT1	GAS	2013 AllSpeeds	14472.47	453161.5837	90009.73	0.006351873	0	0.005494545	0.011846418
Los Angele	2025 Annual	LDT1	DSL	2013 AllSpeeds	32.35953	1013.245127	201.2562	1.11E-05	0	0	1.11E-05
Los Angele	2025 Annual	LDT1	GAS	2014 AllSpeeds	14917.51	475954.057	93374.28	0.006553082	0	0.005606809	0.012159891
Los Angele	2025 Annual	LDT1	DSL	2014 AllSpeeds	31.03893	990.3241001	194.2843	1.06E-05	0	0	1.06E-05
Los Angele	2025 Annual	LDT1	GAS	2015 AllSpeeds	16010.15	521059.2687	101014	0.007030835	0	0.005952335	0.012983171
Los Angele	2025 Annual	LDT1	DSL	2015 AllSpeeds	32.40325	1054.586783	204.444	1.09E-05	0	0	1.09E-05
Los Angele	2025 Annual	LDT1	GAS	2016 AllSpeeds	16370.42	544343.8012	103941.8	0.007177033	0	0.005992698	0.01316973
Los Angele	2025 Annual	LDT1	DSL	2016 AllSpeeds	41.79951	1389.91079	265.4003	1.38E-05	0	0	1.38E-05
Los Angele	2025 Annual	LDT1	GAS	2017 AllSpeeds	16924.09	575972.8952	108134.1	0.007397728	0	0.006080283	0.013478011
Los Angele	2025 Annual	LDT1	DSL	2017 AllSpeeds	28.82728	981.0761945	184.1879	9.40E-06	0	0	9.40E-06
Los Angele	2025 Annual	LDT1	GAS	2018 AllSpeeds	17166.56	599216.728	110198.3	0.007474003	0	0.006020408	0.013494411
Los Angele	2025 Annual	LDT1	DSL	2018 AllSpeeds	31.44376	1097.58364	201.8488	1.01E-05	0	0	1.01E-05

Los Angele	2025 Annual	LDA	0.020636627	0.078529365	0.1841982	0.025477914	0.388585635	0.072118468	0	0.043768559	0.115887027
Los Angele	2025 Annual	LDA	0	0	0	0	2.42E-04	2.76E-04	0	0	2.76E-04
Los Angele	2025 Annual	LDA	0.020472374	0.077352874	0.1934671	0.025009418	0.405742285	0.081526585	0	0.048724696	0.130251281
Los Angele	2025 Annual	LDA	0	0	0	0	2.32E-04	2.64E-04	0	0	2.64E-04
Los Angele	2025 Annual	LDA	0.020727612	0.077301025	0.2094633	0.024982277	0.436512515	0.095701162	0	0.056178968	0.15188013
Los Angele	2025 Annual	LDA	0	0	0	0	2.25E-04	2.56E-04	0	0	2.56E-04
Los Angele	2025 Annual	LDA	0.020618347	0.076176077	0.2177887	0.024558172	0.452784441	0.10546946	0	0.06083009	0.16629955
Los Angele	2025 Annual	LDA	0	0	0	0	2.17E-04	2.47E-04	0	0	2.47E-04
Los Angele	2025 Annual	LDA	0.020532591	0.074724361	0.2276331	0.02410442	0.472199328	0.11741675	0	0.066320501	0.183737251
Los Angele	2025 Annual	LDA	0	0	0	0	1.97E-04	2.24E-04	0	0	2.24E-04
Los Angele	2025 Annual	LDA	0.01955425	0.069519252	0.2335785	0.02247788	0.482242845	0.129936649	0	0.071852274	0.201788923
Los Angele	2025 Annual	LDA	0	0	0	0	1.89E-04	2.16E-04	0	0	2.16E-04
Los Angele	2025 Annual	LDA	0.018395314	0.063499428	0.2345992	0.020653971	0.482858348	0.139755509	0	0.07539884	0.215154349
Los Angele	2025 Annual	LDA	0	0	0	0	1.71E-04	1.95E-04	0	0	1.95E-04
Los Angele	2025 Annual	LDA	0.016980486	0.056191325	0.2337208	0.018482011	0.479834524	0.150106089	0	0.078802638	0.228908727
Los Angele	2025 Annual	LDA	0	0	0	0	1.70E-04	1.94E-04	0	0	1.94E-04
Los Angele	2025 Annual	LDA	0.014691005	0.045258094	0.2208614	0.015311301	0.457312771	0.159030033	0	0.080869853	0.239899886
Los Angele	2025 Annual	LDA	0	0	0	0	1.66E-04	1.89E-04	0	0	1.89E-04
Los Angele	2025 Annual	LDA	0.012358571	0.034127049	0.191677	0.012289029	0.416684677	0.166826125	0	0.081780769	0.248606894
Los Angele	2025 Annual	LDA	0	0	0	0	1.58E-04	1.80E-04	0	0	1.80E-04
Los Angele	2025 Annual	LDA	0.010656541	0.025784658	0.1832614	0.009816798	0.397876703	0.171488979	0	0.081373841	0.25286282
Los Angele	2025 Annual	LDA	0	0	0	0	1.41E-04	1.61E-04	0	0	1.61E-04
Los Angele	2025 Annual	LDA	0.008795177	0.018235447	0.1641976	0.007470205	0.350170681	0.155783011	0	0.072356023	0.228139034
Los Angele	2025 Annual	LDA	0	0	0	0	1.24E-04	1.41E-04	0	0	1.41E-04
Los Angele	2025 Annual	LDA	0.00792494	0.01389639	0.1568406	0.006217129	0.333689165	0.15650327	0	0.069100454	0.225603724
Los Angele	2025 Annual	LDA	0	0	0	0	1.18E-04	1.34E-04	0	0	1.34E-04
Los Angele	2025 Annual	LDA	0.00736768	0.010945842	0.1513928	0.005380446	0.32433001	0.161910161	0	0.066461086	0.228371247
Los Angele	2025 Annual	LDA	0	0	0	0	1.19E-04	1.35E-04	0	0	1.35E-04
Los Angele	2025 Annual	LDA	0.007091262	0.009032672	0.148694	0.004877147	0.321266742	0.1711107761	0	0.063670635	0.234778396
Los Angele	2025 Annual	LDA	0	0	0	0	1.26E-04	1.43E-04	0	0	1.43E-04
Los Angele	2025 Annual	LDA	0.006770167	0.007547824	0.1427374	0.004441903	0.311786176	0.17959987	0	0.057429269	0.237029139
Los Angele	2025 Annual	LDA	0	0	0	0	1.33E-04	1.51E-04	0	0	1.51E-04
Los Angele	2025 Annual	LDT1	0.002082133	0.006210632	0.020446189	0.002631265	0.036610833	0.00499882	0	0.002727635	0.007726456
Los Angele	2025 Annual	LDT1	0	0	0	0	0	0	0	0	0
Los Angele	2025 Annual	LDT1	0.004077607	0.012160176	0.040350247	0.005119843	0.072173861	0.010200839	0	0.005322427	0.015523265
Los Angele	2025 Annual	LDT1	0	0	0	0	0	0	0	0	0
Los Angele	2025 Annual	LDT1	0.003380078	0.010040688	0.033661313	0.004210457	0.061195376	0.009711703	0	0.005001766	0.014713469
Los Angele	2025 Annual	LDT1	0	0	0	0	0	0	0	0	0
Los Angele	2025 Annual	LDT1	0.003462957	0.010232495	0.034818184	0.004275355	0.064360189	0.011425994	0	0.005799604	0.017225598
Los Angele	2025 Annual	LDT1	0	0	0	0	7.59E-06	8.65E-06	0	0	8.65E-06
Los Angele	2025 Annual	LDT1	0.003003636	0.008822715	0.030628351	0.003669287	0.057408438	0.011173741	0	0.005638157	0.016811898
Los Angele	2025 Annual	LDT1	0	0	0	0	1.11E-05	1.26E-05	0	0	1.26E-05
Los Angele	2025 Annual	LDT1	0.002622119	0.007613665	0.027159132	0.00316034	0.051809332	0.011188217	0	0.005597423	0.01678564
Los Angele	2025 Annual	LDT1	0	0	0	0	8.24E-06	9.38E-06	0	0	9.38E-06
Los Angele	2025 Annual	LDT1	0.002528522	0.007283341	0.026845613	0.003011675	0.051515569	0.01182164	0	0.00586648	0.01768812
Los Angele	2025 Annual	LDT1	0	0	0	0	1.11E-05	1.26E-05	0	0	1.26E-05
Los Angele	2025 Annual	LDT1	0.002360856	0.006710129	0.025725616	0.002771545	0.049728037	0.012196117	0	0.005986341	0.018182458
Los Angele	2025 Annual	LDT1	0	0	0	0	1.06E-05	1.20E-05	0	0	1.20E-05
Los Angele	2025 Annual	LDT1	0.002208732	0.006148433	0.024894517	0.002538968	0.04877382	0.013085274	0	0.006355258	0.019440533
Los Angele	2025 Annual	LDT1	0	0	0	0	1.09E-05	1.24E-05	0	0	1.24E-05
Los Angele	2025 Annual	LDT1	0.001997593	0.005415309	0.023337668	0.002242869	0.046163169	0.013357367	0	0.006398353	0.01975572
Los Angele	2025 Annual	LDT1	0	0	0	0	1.38E-05	1.58E-05	0	0	1.58E-05
Los Angele	2025 Annual	LDT1	0.001795017	0.004684168	0.021830188	0.001953745	0.043741129	0.013768109	0	0.006491868	0.020259977
Los Angele	2025 Annual	LDT1	0	0	0	0	9.40E-06	1.07E-05	0	0	1.07E-05
Los Angele	2025 Annual	LDT1	0.001501317	0.00366842	0.01868757	0.001564707	0.038916425	0.013910066	0	0.00642794	0.020338006
Los Angele	2025 Annual	LDT1	0	0	0	0	1.01E-05	1.15E-05	0	0	1.15E-05

Los Angele	2025 Annual	LDA	0.020636627	0.078529365	0.1841982	0.025477914	0.424729133	2.190623824	0	0.7245759	2.915199724
Los Angele	2025 Annual	LDA	0	0	0	0	2.76E-04	0.002280781	0	0	0.002280781
Los Angele	2025 Annual	LDA	0.020472374	0.077352874	0.1934671	0.025009418	0.446553047	2.489894006	0	0.8090534	3.298947406
Los Angele	2025 Annual	LDA	0	0	0	0	2.64E-04	0.002184267	0	0	0.002184267
Los Angele	2025 Annual	LDA	0.020727612	0.077301025	0.2094633	0.024982277	0.484354344	2.939918657	0	0.9359096	3.875828257
Los Angele	2025 Annual	LDA	0	0	0	0	2.56E-04	0.002115204	0	0	0.002115204
Los Angele	2025 Annual	LDA	0.020618347	0.076176077	0.2177887	0.024558172	0.505440846	3.259216248	0	1.016924	4.276140248
Los Angele	2025 Annual	LDA	0	0	0	0	2.47E-04	0.002040724	0	0	0.002040724
Los Angele	2025 Annual	LDA	0.020532591	0.074724361	0.2276331	0.02410442	0.530731723	3.637838166	0	1.107991	4.745829166
Los Angele	2025 Annual	LDA	0	0	0	0	2.24E-04	0.00185411	0	0	0.00185411
Los Angele	2025 Annual	LDA	0.01955425	0.069519252	0.2335785	0.02247788	0.546918805	4.028601138	0	1.197055	5.225656138
Los Angele	2025 Annual	LDA	0	0	0	0	2.16E-04	0.00178035	0	0	0.00178035
Los Angele	2025 Annual	LDA	0.018395314	0.063499428	0.2345992	0.020653971	0.552302262	4.34228311	0	1.253638	5.59592111
Los Angele	2025 Annual	LDA	0	0	0	0	1.95E-04	0.001608651	0	0	0.001608651
Los Angele	2025 Annual	LDA	0.016980486	0.056191325	0.2337208	0.018482011	0.554283349	4.66062343	0	1.302862	5.96348543
Los Angele	2025 Annual	LDA	0	0	0	0	1.94E-04	0.001596442	0	0	0.001596442
Los Angele	2025 Annual	LDA	0.014691005	0.045258094	0.2208614	0.015311301	0.536021686	4.93534499	0	1.327616	6.26296099
Los Angele	2025 Annual	LDA	0	0	0	0	1.89E-04	0.001561798	0	0	0.001561798
Los Angele	2025 Annual	LDA	0.012358571	0.034127049	0.191677	0.012289029	0.499058543	5.135890098	0	1.321043	6.456933098
Los Angele	2025 Annual	LDA	0	0	0	0	1.80E-04	0.001481136	0	0	0.001481136
Los Angele	2025 Annual	LDA	0.010656541	0.025784658	0.1832614	0.009816798	0.482382216	5.214818552	0	1.272512	6.487330552
Los Angele	2025 Annual	LDA	0	0	0	0	1.61E-04	0.0013236	0	0	0.0013236
Los Angele	2025 Annual	LDA	0.008795177	0.018235447	0.1641976	0.007470205	0.426837462	4.699937636	0	1.064935	5.764872636
Los Angele	2025 Annual	LDA	0	0	0	0	1.41E-04	0.001161737	0	0	0.001161737
Los Angele	2025 Annual	LDA	0.00792494	0.01389639	0.1568406	0.006217129	0.410482783	4.644955599	0	0.9738577	5.618813299
Los Angele	2025 Annual	LDA	0	0	0	0	1.34E-04	0.001102782	0	0	0.001102782
Los Angele	2025 Annual	LDA	0.00736768	0.010945842	0.1513928	0.005380446	0.403458015	4.740181614	0	0.9162363	5.656417914
Los Angele	2025 Annual	LDA	0	0	0	0	1.35E-04	0.001107086	0	0	0.001107086
Los Angele	2025 Annual	LDA	0.007091262	0.009032672	0.148694	0.004877147	0.404473478	5.009361538	0	0.8781464	5.887507938
Los Angele	2025 Annual	LDA	0	0	0	0	1.43E-04	0.00116841	0	0	0.00116841
Los Angele	2025 Annual	LDA	0.006770167	0.007547824	0.1427374	0.004441903	0.398526433	5.414237189	0	0.8261254	6.240362589
Los Angele	2025 Annual	LDA	0	0	0	0	1.51E-04	0.00122901	0	0	0.00122901
Los Angele	2025 Annual	LDT1	0.002082133	0.006210632	0.020446189	0.002631265	0.039096674	0.16561703	0	0.049430907	0.215047937
Los Angele	2025 Annual	LDT1	0	0	0	0	0	0	0	0	0
Los Angele	2025 Annual	LDT1	0.004077607	0.012160176	0.040350247	0.005119843	0.077231139	0.332232801	0	0.096020967	0.428253768
Los Angele	2025 Annual	LDT1	0	0	0	0	0	0	0	0	0
Los Angele	2025 Annual	LDT1	0.003380078	0.010040688	0.033661313	0.004210457	0.066006005	0.307585416	0	0.08739955	0.394984966
Los Angele	2025 Annual	LDT1	0	0	0	0	0	0	0	0	0
Los Angele	2025 Annual	LDT1	0.003462957	0.010232495	0.034818184	0.004275355	0.070014588	0.350577001	0	0.097670503	0.448247504
Los Angele	2025 Annual	LDT1	0	0	0	0	8.65E-06	7.13E-05	0	0	7.13E-05
Los Angele	2025 Annual	LDT1	0.003003636	0.008822715	0.030628351	0.003669287	0.062935886	0.344369995	0	0.095191427	0.439561422
Los Angele	2025 Annual	LDT1	0	0	0	0	1.26E-05	1.04E-04	0	0	1.04E-04
Los Angele	2025 Annual	LDT1	0.002622119	0.007613665	0.027159132	0.00316034	0.057340896	0.345896854	0	0.09456484	0.440461694
Los Angele	2025 Annual	LDT1	0	0	0	0	9.38E-06	7.73E-05	0	0	7.73E-05
Los Angele	2025 Annual	LDT1	0.002528522	0.007283341	0.026845613	0.003011675	0.057357271	0.366663192	0	0.099157788	0.46582098
Los Angele	2025 Annual	LDT1	0	0	0	0	1.26E-05	1.04E-04	0	0	1.04E-04
Los Angele	2025 Annual	LDT1	0.002360856	0.006710129	0.025725616	0.002771545	0.055750604	0.379426009	0	0.1011918	0.480617809
Los Angele	2025 Annual	LDT1	0	0	0	0	1.20E-05	9.89E-05	0	0	9.89E-05
Los Angele	2025 Annual	LDT1	0.002208732	0.006148433	0.024894517	0.002538968	0.055231182	0.407257554	0	0.1070551	0.514312654
Los Angele	2025 Annual	LDT1	0	0	0	0	1.24E-05	1.02E-04	0	0	1.02E-04
Los Angele	2025 Annual	LDT1	0.001997593	0.005415309	0.023337668	0.002242869	0.052749159	0.415729197	0	0.1072656	0.522994797
Los Angele	2025 Annual	LDT1	0	0	0	0	1.58E-05	1.30E-04	0	0	1.30E-04
Los Angele	2025 Annual	LDT1	0.001795017	0.004684168	0.021830188	0.001953745	0.050523095	0.428603597	0	0.1082626	0.536866197
Los Angele	2025 Annual	LDT1	0	0	0	0	1.07E-05	8.78E-05	0	0	8.78E-05
Los Angele	2025 Annual	LDT1	0.001501317	0.00366842	0.01868757	0.001564707	0.04576002	0.432004684	0	0.1061884	0.538193084
Los Angele	2025 Annual	LDT1	0	0	0	0	1.15E-05	9.39E-05	0	0	9.39E-05

Los Angele	2025 Annual	LDA	0.185479316	0	0.043200675	0.228679991	1120.941769	0	54.23555	1175.177319	973.5379267
Los Angele	2025 Annual	LDA	0.007315865	0	0	0.007315865	8.662382276	0	0	8.662382276	7.523279006
Los Angele	2025 Annual	LDA	0.211716844	0	0.048424505	0.260141349	1282.728338	0	61.02501	1343.753348	988.2139112
Los Angele	2025 Annual	LDA	0.007018059	0	0	0.007018059	8.469648341	0	0	8.469648341	6.525017082
Los Angele	2025 Annual	LDA	0.251039603	0	0.056217261	0.307256864	1525.897907	0	71.19299	1597.090897	1025.861163
Los Angele	2025 Annual	LDA	0.006809381	0	0	0.006809381	8.397026407	0	0	8.397026407	5.645320853
Los Angele	2025 Annual	LDA	0.279564817	0	0.06129007	0.340854887	1706.413677	0	78.11102	1784.524697	1118.042241
Los Angele	2025 Annual	LDA	0.00658417	0	0	0.00658417	8.316299269	0	0	8.316299269	5.448839281
Los Angele	2025 Annual	LDA	0.314541073	0	0.067255169	0.381796242	1930.317507	0	86.42068	2016.738187	1236.947458
Los Angele	2025 Annual	LDA	0.005997209	0	0	0.005997209	7.77917577	0	0	7.77917577	4.984895833
Los Angele	2025 Annual	LDA	0.351671029	0	0.073280603	0.424951632	2173.06211	0	95.15498	2268.21709	1335.781279
Los Angele	2025 Annual	LDA	0.00577513	0	0	0.00577513	7.713304638	0	0	7.713304638	4.741368361
Los Angele	2025 Annual	LDA	0.38272828	0	0.077353694	0.460081974	2386.404126	0	101.8399	2488.244026	1411.08076
Los Angele	2025 Annual	LDA	0.005235217	0	0	0.005235217	7.221091395	0	0	7.221091395	4.269831342
Los Angele	2025 Annual	LDA	0.415713718	0	0.081190571	0.496904289	2622.765707	0	108.8355	2731.601207	1550.841362
Los Angele	2025 Annual	LDA	0.005214669	0	0	0.005214669	7.449489514	0	0	7.449489514	4.40488315
Los Angele	2025 Annual	LDA	0.445487734	0	0.08351101	0.528998744	2856.304536	0	114.715	2971.019536	1688.932872
Los Angele	2025 Annual	LDA	0.00512312	0	0	0.00512312	7.606946957	0	0	7.606946957	4.497987736
Los Angele	2025 Annual	LDA	0.466853774	0	0.083152004	0.550005778	3089.646721	0	119.5328	3209.179521	1826.908106
Los Angele	2025 Annual	LDA	0.004882347	0	0	0.004882347	7.565701499	0	0	7.565701499	4.473599297
Los Angele	2025 Annual	LDA	0.474576346	0	0.079229675	0.553806021	3350.600904	0	124.5063	3475.107204	1981.210315
Los Angele	2025 Annual	LDA	0.004389165	0	0	0.004389165	7.146499803	0	0	7.146499803	4.225725334
Los Angele	2025 Annual	LDA	0.455602857	0	0.070468597	0.526071454	3389.641668	0	120.1106	3509.752268	2004.295118
Los Angele	2025 Annual	LDA	0.003879354	0	0	0.003879354	6.670247548	0	0	6.670247548	3.944117375
Los Angele	2025 Annual	LDA	0.456020876	0	0.063680388	0.519701264	3653.062324	0	122.2685	3775.330824	2160.055752
Los Angele	2025 Annual	LDA	0.003713123	0	0	0.003713123	6.784053426	0	0	6.784053426	4.011410791
Los Angele	2025 Annual	LDA	0.466136874	0	0.057807159	0.523944033	3991.316323	0	124.84	4116.156323	2360.065342
Los Angele	2025 Annual	LDA	0.003765411	0	0	0.003765411	7.36848052	0	0	7.36848052	4.356982531
Los Angele	2025 Annual	LDA	0.488788305	0	0.052038006	0.540826311	4497.588133	0	128.7132	4626.301333	2659.423863
Los Angele	2025 Annual	LDA	0.004024754	0	0	0.004024754	8.526151576	0	0	8.526151576	5.041513427
Los Angele	2025 Annual	LDA	0.518212664	0	0.044251468	0.562464132	5172.435092	0	129.1028	5301.537892	3058.46087
Los Angele	2025 Annual	LDA	0.00430579	0	0	0.00430579	10.03558671	0	0	10.03558671	5.93404242
Los Angele	2025 Annual	LDT1	0.011463447	0	0.002255328	0.013718775	83.49162384	0	3.466751	86.95837484	75.14246146
Los Angele	2025 Annual	LDT1	0	0	0	0	0	0	0	0	0
Los Angele	2025 Annual	LDT1	0.024516674	0	0.004744311	0.029260985	183.2003542	0	7.564487	190.7648412	164.8803188
Los Angele	2025 Annual	LDT1	0	0	0	0	0	0	0	0	0
Los Angele	2025 Annual	LDT1	0.023977766	0	0.004682055	0.02865982	172.5478415	0	7.068514	179.6163555	155.2930573
Los Angele	2025 Annual	LDT1	0	0	0	0	0	0	0	0	0
Los Angele	2025 Annual	LDT1	0.029036471	0	0.005719063	0.034755534	200.6954342	0	8.151097	208.8465312	174.3039846
Los Angele	2025 Annual	LDT1	2.32E-04	0	0	2.32E-04	0.22626649	0	0	0.22626649	0.196512446
Los Angele	2025 Annual	LDT1	0.0287016	0	0.005602682	0.034304282	198.9363587	0	8.018806	206.9551647	153.2605707
Los Angele	2025 Annual	LDT1	3.39E-04	0	0	3.39E-04	0.336800625	0	0	0.336800625	0.259471201
Los Angele	2025 Annual	LDT1	0.029059778	0	0.005604554	0.034664332	202.1646765	0	8.066085	210.2307615	135.915312
Los Angele	2025 Annual	LDT1	2.53E-04	0	0	2.53E-04	0.25622284	0	0	0.25622284	0.172258615
Los Angele	2025 Annual	LDT1	0.031062696	0	0.005919221	0.036981917	217.1140906	0	8.579228	225.6933186	142.2531522
Los Angele	2025 Annual	LDT1	3.41E-04	0	0	3.41E-04	0.354650114	0	0	0.354650114	0.232366754
Los Angele	2025 Annual	LDT1	0.032425953	0	0.00608418	0.038510133	228.024265	0	8.899525	236.92379	146.117949
Los Angele	2025 Annual	LDT1	3.25E-04	0	0	3.25E-04	0.346627454	0	0	0.346627454	0.222118873
Los Angele	2025 Annual	LDT1	0.035219359	0	0.006504154	0.041723513	249.5970783	0	9.62625	259.2233283	153.427324
Los Angele	2025 Annual	LDT1	3.36E-04	0	0	3.36E-04	0.369120262	0	0	0.369120262	0.226898225
Los Angele	2025 Annual	LDT1	0.036421639	0	0.006590352	0.043011992	260.736479	0	9.904712	270.641191	154.1734801
Los Angele	2025 Annual	LDT1	4.28E-04	0	0	4.28E-04	0.486488419	0	0	0.486488419	0.287660602
Los Angele	2025 Annual	LDT1	0.038031234	0	0.006719356	0.04475059	275.885725	0	10.30417	286.189895	163.1312292
Los Angele	2025 Annual	LDT1	2.91E-04	0	0	2.91E-04	0.343390567	0	0	0.343390567	0.203046842
Los Angele	2025 Annual	LDT1	0.038846133	0	0.006658663	0.045504796	287.0665803	0	10.49941	297.5659903	169.742469
Los Angele	2025 Annual	LDT1	3.13E-04	0	0	3.13E-04	0.384169772	0	0	0.384169772	0.227159586

Los Angele	2025 Annual	LDA	0	47.10357518	1020.641502	0.001164114	0	3.32E-04	0.00149572	0.023997158	0.110237
Los Angele	2025 Annual	LDA	0	0	7.523279006	1.45E-04	0	0	1.45E-04	2.18E-04	0.001002567
Los Angele	2025 Annual	LDA	0	47.0136677	1035.227579	0.001998197	0	6.95E-04	0.002693375	0.027459968	0.1261442
Los Angele	2025 Annual	LDA	0	0	6.525017082	1.39E-04	0	0	1.39E-04	2.13E-04	9.80E-04
Los Angele	2025 Annual	LDA	0	47.86304718	1073.72421	0.003169333	0	0.00114091	0.004310243	0.032666929	0.1500637
Los Angele	2025 Annual	LDA	0	0	5.645320853	1.35E-04	0	0	1.35E-04	2.12E-04	9.72E-04
Los Angele	2025 Annual	LDA	0	51.1783403	1169.220581	0.005316404	0	0.002345194	0.007661599	0.036532417	0.1678208
Los Angele	2025 Annual	LDA	0	0	5.448839281	1.31E-04	0	0	1.31E-04	2.10E-04	9.63E-04
Los Angele	2025 Annual	LDA	0	55.37837174	1292.32583	0.008018648	0	0.003670933	0.011689581	0.041327253	0.1898471
Los Angele	2025 Annual	LDA	0	0	4.984895833	1.19E-04	0	0	1.19E-04	1.96E-04	9.00E-04
Los Angele	2025 Annual	LDA	0	58.49176621	1394.273045	0.011283778	0	0.005205534	0.016489312	0.046527211	0.2137344
Los Angele	2025 Annual	LDA	0	0	4.741368361	1.15E-04	0	0	1.15E-04	1.94E-04	8.93E-04
Los Angele	2025 Annual	LDA	0	60.21793287	1471.298693	0.014250309	0	0.006501141	0.02075145	0.051098224	0.2347325
Los Angele	2025 Annual	LDA	0	0	4.269831342	1.04E-04	0	0	1.04E-04	1.82E-04	8.36E-04
Los Angele	2025 Annual	LDA	0	64.35443115	1615.195794	0.017023618	0	0.007595652	0.024619271	0.056161091	0.25799
Los Angele	2025 Annual	LDA	0	0	4.40488315	1.04E-04	0	0	1.04E-04	1.88E-04	8.62E-04
Los Angele	2025 Annual	LDA	0	67.8309795	1756.763852	0.019275002	0	0.008350215	0.027625217	0.061145872	0.2808889
Los Angele	2025 Annual	LDA	0	0	4.497987736	1.02E-04	0	0	1.02E-04	1.92E-04	8.80E-04
Los Angele	2025 Annual	LDA	0	70.67974464	1897.587851	0.020843133	0	0.008725907	0.029569039	0.06612324	0.3037537
Los Angele	2025 Annual	LDA	0	0	4.473599297	9.70E-05	0	0	9.70E-05	1.91E-04	8.76E-04
Los Angele	2025 Annual	LDA	0	73.62057519	2054.83089	0.022596496	0	0.009088974	0.03168547	0.071685597	0.3293058
Los Angele	2025 Annual	LDA	0	0	4.225725334	8.72E-05	0	0	8.72E-05	1.80E-04	8.27E-04
Los Angele	2025 Annual	LDA	0	71.02139778	2075.316516	0.022852646	0	0.008768089	0.031620735	0.072497301	0.3330345
Los Angele	2025 Annual	LDA	0	0	3.944117375	7.71E-05	0	0	7.71E-05	1.68E-04	7.72E-04
Los Angele	2025 Annual	LDA	0	72.29736405	2232.353116	0.024620915	0	0.008925619	0.033546534	0.078106754	0.3588029
Los Angele	2025 Annual	LDA	0	0	4.011410791	7.38E-05	0	0	7.38E-05	1.71E-04	7.85E-04
Los Angele	2025 Annual	LDA	0	73.817892	2433.883234	0.02689228	0	0.009113331	0.036005612	0.085312136	0.3919026
Los Angele	2025 Annual	LDA	0	0	4.356982531	7.49E-05	0	0	7.49E-05	1.86E-04	8.53E-04
Los Angele	2025 Annual	LDA	0	76.10811516	2735.531978	0.03029393	0	0.00939608	0.03969001	0.096104659	0.4414809
Los Angele	2025 Annual	LDA	0	0	5.041513427	8.01E-05	0	0	8.01E-05	2.15E-04	9.87E-04
Los Angele	2025 Annual	LDA	0	76.33848564	3134.799356	0.034828557	0	0.00942452	0.044253077	0.1104896	0.5075615
Los Angele	2025 Annual	LDA	0	0	5.93404242	8.57E-05	0	0	8.57E-05	2.53E-04	0.001161499
Los Angele	2025 Annual	LDT1	0	3.1200759	78.26253736	5.59E-05	0	7.19E-06	6.31E-05	0.001536593	0.007058724
Los Angele	2025 Annual	LDT1	0	0	0	0	0	0	0	0	0
Los Angele	2025 Annual	LDT1	0	6.8080383	171.6883571	1.23E-04	0	2.04E-05	1.43E-04	0.003374646	0.015502281
Los Angele	2025 Annual	LDT1	0	0	0	0	0	0	0	0	0
Los Angele	2025 Annual	LDT1	0	6.3616626	161.6547199	1.54E-04	0	3.01E-05	1.84E-04	0.003172996	0.014575951
Los Angele	2025 Annual	LDT1	0	0	0	0	0	0	0	0	0
Los Angele	2025 Annual	LDT1	0	7.079227745	181.3832124	1.79E-04	0	4.28E-05	2.22E-04	0.003692881	0.016964179
Los Angele	2025 Annual	LDT1	0	0	0.196512446	3.84E-06	0	0	3.84E-06	5.70E-06	2.62E-05
Los Angele	2025 Annual	LDT1	0	6.177688142	159.4382589	2.66E-04	0	7.85E-05	3.45E-04	0.003660898	0.016817253
Los Angele	2025 Annual	LDT1	0	0	0.259471201	5.61E-06	0	0	5.61E-06	8.49E-06	3.90E-05
Los Angele	2025 Annual	LDT1	0	5.422828945	141.338141	3.61E-04	0	1.11E-04	4.72E-04	0.003720581	0.017091421
Los Angele	2025 Annual	LDT1	0	0	0.172258615	4.18E-06	0	0	4.18E-06	6.46E-06	2.97E-05
Los Angele	2025 Annual	LDT1	0	5.621110186	147.8742624	5.81E-04	0	2.21E-04	8.03E-04	0.003996201	0.018357554
Los Angele	2025 Annual	LDT1	0	0	0.232366754	5.65E-06	0	0	5.65E-06	8.94E-06	4.10E-05
Los Angele	2025 Annual	LDT1	0	5.70281562	151.8207647	8.14E-04	0	3.25E-04	0.001138691	0.004197197	0.019280873
Los Angele	2025 Annual	LDT1	0	0	0.222118873	5.37E-06	0	0	5.37E-06	8.73E-06	4.01E-05
Los Angele	2025 Annual	LDT1	0	5.917255875	159.3445799	0.001113775	0	4.52E-04	0.001566072	0.004594956	0.02110808
Los Angele	2025 Annual	LDT1	0	0	0.226898225	5.56E-06	0	0	5.56E-06	9.30E-06	4.27E-05
Los Angele	2025 Annual	LDT1	0	5.856656206	160.0301363	0.001338004	0	5.43E-04	0.001881063	0.004800291	0.02205134
Los Angele	2025 Annual	LDT1	0	0	0.287660602	7.09E-06	0	0	7.09E-06	1.23E-05	5.63E-05
Los Angele	2025 Annual	LDT1	0	6.092855721	169.2240849	0.001538853	0	6.18E-04	0.0021565	0.005079212	0.023332631
Los Angele	2025 Annual	LDT1	0	0	0.203046842	4.82E-06	0	0	4.82E-06	8.65E-06	3.97E-05
Los Angele	2025 Annual	LDT1	0	6.208301133	175.9507701	0.001664762	0	6.56E-04	0.002321172	0.005284187	0.024274239
Los Angele	2025 Annual	LDT1	0	0	0.227159586	5.18E-06	0	0	5.18E-06	9.68E-06	4.45E-05



Los Angele	2025 Annual	LDA	0.135729878	0.001080106	0	3.08E-04	0.001387781	0.00599929	0.047244404	0.054631475	0.011225407
Los Angele	2025 Annual	LDA	0.001365948	1.34E-04	0	0	1.34E-04	5.46E-05	4.30E-04	6.18E-04	8.27E-05
Los Angele	2025 Annual	LDA	0.156297543	0.001853998	0	6.45E-04	0.002499008	0.006864992	0.054061811	0.063425811	0.012845287
Los Angele	2025 Annual	LDA	0.001332887	1.28E-04	0	0	1.28E-04	5.33E-05	4.20E-04	6.02E-04	8.09E-05
Los Angele	2025 Annual	LDA	0.187040872	0.002940618	0	0.001058576	0.003999194	0.008166732	0.064313024	0.076478951	0.015280015
Los Angele	2025 Annual	LDA	0.001318523	1.24E-04	0	0	1.24E-04	5.29E-05	4.17E-04	5.94E-04	8.02E-05
Los Angele	2025 Annual	LDA	0.212014816	0.004932746	0	0.002175953	0.007108699	0.009133104	0.071923189	0.088164992	0.017087171
Los Angele	2025 Annual	LDA	0.001302689	1.20E-04	0	0	1.20E-04	5.24E-05	4.13E-04	5.85E-04	7.94E-05
Los Angele	2025 Annual	LDA	0.242863934	0.007439982	0	0.00340602	0.010846002	0.010331813	0.081363037	0.102540852	0.01932841
Los Angele	2025 Annual	LDA	0.001215357	1.09E-04	0	0	1.09E-04	4.90E-05	3.86E-04	5.44E-04	7.43E-05
Los Angele	2025 Annual	LDA	0.276750923	0.010469485	0	0.004829875	0.01529936	0.011631803	0.091600455	0.118531618	0.021757916
Los Angele	2025 Annual	LDA	0.001201679	1.05E-04	0	0	1.05E-04	4.86E-05	3.83E-04	5.37E-04	7.36E-05
Los Angele	2025 Annual	LDA	0.306582174	0.013221936	0	0.006031986	0.019253922	0.012774556	0.1005996	0.132628078	0.02392649
Los Angele	2025 Annual	LDA	0.001121609	9.56E-05	0	0	9.56E-05	4.55E-05	3.58E-04	4.99E-04	6.89E-05
Los Angele	2025 Annual	LDA	0.338770362	0.01579511	0	0.007047514	0.022842624	0.014040273	0.1105671	0.147449997	0.026257243
Los Angele	2025 Annual	LDA	0.001153405	9.52E-05	0	0	9.52E-05	4.69E-05	3.70E-04	5.12E-04	7.11E-05
Los Angele	2025 Annual	LDA	0.369659989	0.017884022	0	0.007747621	0.025631643	0.015286468	0.1203809	0.161299011	0.02859294
Los Angele	2025 Annual	LDA	0.001173796	9.36E-05	0	0	9.36E-05	4.79E-05	3.77E-04	5.19E-04	7.26E-05
Los Angele	2025 Annual	LDA	0.399445979	0.019338989	0	0.008096202	0.027435191	0.01653081	0.1301801	0.174146101	0.030925479
Los Angele	2025 Annual	LDA	0.001163221	8.92E-05	0	0	8.92E-05	4.77E-05	3.75E-04	5.12E-04	7.22E-05
Los Angele	2025 Annual	LDA	0.432676867	0.020965822	0	0.008433068	0.02939889	0.017921399	0.141131	0.188451289	0.033531632
Los Angele	2025 Annual	LDA	0.001094368	8.02E-05	0	0	8.02E-05	4.50E-05	3.54E-04	4.80E-04	6.82E-05
Los Angele	2025 Annual	LDA	0.437152536	0.021203486	0	0.008135339	0.029338825	0.018124325	0.1427291	0.19019225	0.033912797
Los Angele	2025 Annual	LDA	0.001017143	7.09E-05	0	0	7.09E-05	4.20E-05	3.31E-04	4.44E-04	6.37E-05
Los Angele	2025 Annual	LDA	0.470456188	0.02284415	0	0.008281502	0.031125651	0.019526688	0.1537727	0.204425039	0.03654135
Los Angele	2025 Annual	LDA	0.001029903	6.79E-05	0	0	6.79E-05	4.27E-05	3.37E-04	4.47E-04	6.48E-05
Los Angele	2025 Annual	LDA	0.513220348	0.0249516	0	0.008455668	0.033407268	0.021328034	0.1679583	0.222693602	0.039919376
Los Angele	2025 Annual	LDA	0.001113337	6.89E-05	0	0	6.89E-05	4.64E-05	3.65E-04	4.81E-04	7.03E-05
Los Angele	2025 Annual	LDA	0.577275569	0.02810777	0	0.008718012	0.036825782	0.024026165	0.1892061	0.250058047	0.044977352
Los Angele	2025 Annual	LDA	0.001281687	7.37E-05	0	0	7.37E-05	5.37E-05	4.23E-04	5.50E-04	8.14E-05
Los Angele	2025 Annual	LDA	0.662304177	0.032315157	0	0.008744399	0.041059556	0.027622398	0.2175264	0.286208354	0.051720105
Los Angele	2025 Annual	LDA	0.001500063	7.89E-05	0	0	7.89E-05	6.32E-05	4.98E-04	6.40E-04	9.58E-05
Los Angele	2025 Annual	LDT1	0.008658387	5.19E-05	0	6.67E-06	5.85E-05	3.84E-04	0.003025167	0.003467834	8.36E-04
Los Angele	2025 Annual	LDT1	0	0	0	0	0	0	0	0	0
Los Angele	2025 Annual	LDT1	0.019019936	1.14E-04	0	1.89E-05	1.33E-04	8.44E-04	0.006643835	0.007620184	0.001834167
Los Angele	2025 Annual	LDT1	0	0	0	0	0	0	0	0	0
Los Angele	2025 Annual	LDT1	0.017933025	1.43E-04	0	2.79E-05	1.71E-04	7.93E-04	0.006246836	0.007210878	0.001727435
Los Angele	2025 Annual	LDT1	0	0	0	0	0	0	0	0	0
Los Angele	2025 Annual	LDT1	0.020878977	1.66E-04	0	3.97E-05	2.06E-04	9.23E-04	0.00727036	0.008399482	0.002009122
Los Angele	2025 Annual	LDT1	3.57E-05	3.54E-06	0	0	3.54E-06	1.43E-06	1.12E-05	1.62E-05	2.16E-06
Los Angele	2025 Annual	LDT1	0.020822921	2.47E-04	0	7.28E-05	3.20E-04	9.15E-04	0.007207393	0.008442508	0.001991458
Los Angele	2025 Annual	LDT1	5.31E-05	5.16E-06	0	0	5.16E-06	2.12E-06	1.67E-05	2.40E-05	3.22E-06
Los Angele	2025 Annual	LDT1	0.021283871	3.35E-04	0	1.03E-04	4.38E-04	9.30E-04	0.007324895	0.008692857	0.002023707
Los Angele	2025 Annual	LDT1	4.03E-05	3.84E-06	0	0	3.84E-06	1.61E-06	1.27E-05	1.82E-05	2.45E-06
Los Angele	2025 Annual	LDT1	0.023156283	5.39E-04	0	2.05E-04	7.45E-04	9.99E-04	0.007867522	0.009611185	0.002173272
Los Angele	2025 Annual	LDT1	5.56E-05	5.20E-06	0	0	5.20E-06	2.23E-06	1.76E-05	2.50E-05	3.39E-06
Los Angele	2025 Annual	LDT1	0.02461676	7.55E-04	0	3.01E-04	0.001056517	0.001049299	0.008263231	0.010369048	0.002282386
Los Angele	2025 Annual	LDT1	5.42E-05	4.94E-06	0	0	4.94E-06	2.18E-06	1.72E-05	2.43E-05	3.31E-06
Los Angele	2025 Annual	LDT1	0.027269108	0.0010334	0	4.20E-04	0.001453057	0.001148739	0.009046321	0.011648116	0.002498183
Los Angele	2025 Annual	LDT1	5.76E-05	5.11E-06	0	0	5.11E-06	2.32E-06	1.83E-05	2.57E-05	3.52E-06
Los Angele	2025 Annual	LDT1	0.028732694	0.001241447	0	5.04E-04	0.001745316	0.001200073	0.009450574	0.012395962	0.002609515
Los Angele	2025 Annual	LDT1	7.56E-05	6.52E-06	0	0	6.52E-06	3.06E-06	2.41E-05	3.37E-05	4.64E-06
Los Angele	2025 Annual	LDT1	0.030568343	0.001427802	0	5.73E-04	0.002000876	0.001269803	0.009999698	0.013270377	0.002760944
Los Angele	2025 Annual	LDT1	5.32E-05	4.44E-06	0	0	4.44E-06	2.16E-06	1.70E-05	2.36E-05	3.28E-06
Los Angele	2025 Annual	LDT1	0.031879599	0.001544625	0	6.09E-04	0.002153665	0.001321047	0.010403245	0.013877957	0.002872607
Los Angele	2025 Annual	LDT1	5.93E-05	4.77E-06	0	0	4.77E-06	2.42E-06	1.91E-05	2.62E-05	3.67E-06

Los Angele	2025 Annual	LDA	0	5.54E-04	0.011779441	125.6449	0	2.86E-04	2.14E-03	1.68E-04	1.10E-06	9.87E-05	1.02E-06	3.91E-05	8.66E-06
Los Angele	2025 Annual	LDA	0	0	8.27E-05	0	0.7796144	1.96E-05	1.84E-04	5.91E-04	1.17E-05	9.87E-05	1.08E-05	3.91E-05	6.68E-06
Los Angele	2025 Annual	LDA	0	6.23E-04	0.013468565	143.6618	0	2.61E-04	2.12E-03	1.67E-04	1.73E-06	9.87E-05	1.61E-06	3.91E-05	8.65E-06
Los Angele	2025 Annual	LDA	0	0	8.09E-05	0	0.7622684	1.92E-05	1.81E-04	5.80E-04	1.15E-05	9.87E-05	1.06E-05	3.91E-05	6.68E-06
Los Angele	2025 Annual	LDA	0	7.27E-04	0.016006998	170.7379	0	2.36E-04	2.09E-03	1.66E-04	2.33E-06	9.87E-05	2.16E-06	3.91E-05	8.64E-06
Los Angele	2025 Annual	LDA	0	0	8.02E-05	0	0.7557324	1.87E-05	1.76E-04	5.68E-04	1.13E-05	9.87E-05	1.04E-05	3.91E-05	6.68E-06
Los Angele	2025 Annual	LDA	0	7.97E-04	0.017884618	190.7654	0	2.19E-04	2.06E-03	1.65E-04	3.70E-06	9.87E-05	3.43E-06	3.91E-05	8.63E-06
Los Angele	2025 Annual	LDA	0	0	7.94E-05	0	0.7484669	1.83E-05	1.72E-04	5.54E-04	1.10E-05	9.87E-05	1.01E-05	3.91E-05	6.68E-06
Los Angele	2025 Annual	LDA	0	8.82E-04	0.020210394	215.5732	0	2.02E-04	2.03E-03	1.63E-04	4.99E-06	9.87E-05	4.63E-06	3.91E-05	8.63E-06
Los Angele	2025 Annual	LDA	0	0	7.43E-05	0	0.7001259	1.77E-05	1.67E-04	5.40E-04	1.07E-05	9.87E-05	9.85E-06	3.91E-05	6.68E-06
Los Angele	2025 Annual	LDA	0	9.71E-04	0.022728645	242.434	0	1.83E-04	1.98E-03	1.61E-04	6.25E-06	9.87E-05	5.80E-06	3.91E-05	8.62E-06
Los Angele	2025 Annual	LDA	0	0	7.36E-05	0	0.6941974	1.72E-05	1.62E-04	5.24E-04	1.04E-05	9.87E-05	9.57E-06	3.91E-05	6.68E-06
Los Angele	2025 Annual	LDA	0	0.001038449	0.024931098	265.9264	0	1.67E-04	1.93E-03	1.59E-04	7.16E-06	9.87E-05	6.65E-06	3.91E-05	8.61E-06
Los Angele	2025 Annual	LDA	0	0	6.89E-05	0	0.6498984	1.66E-05	1.56E-04	5.08E-04	1.01E-05	9.87E-05	9.27E-06	3.91E-05	6.68E-06
Los Angele	2025 Annual	LDA	0	0.001109152	0.027366395	291.9023	0	1.51E-04	1.87E-03	1.56E-04	7.73E-06	9.87E-05	7.17E-06	3.91E-05	8.59E-06
Los Angele	2025 Annual	LDA	0	0	7.11E-05	0	0.6704541	1.60E-05	1.50E-04	4.90E-04	9.73E-06	9.87E-05	8.95E-06	3.91E-05	6.68E-06
Los Angele	2025 Annual	LDA	0	0.001168289	0.029761229	317.4467	0	1.32E-04	1.81E-03	1.53E-04	7.97E-06	9.87E-05	7.39E-06	3.91E-05	8.58E-06
Los Angele	2025 Annual	LDA	0	0	7.26E-05	0	0.6846251	1.53E-05	1.44E-04	4.71E-04	9.36E-06	9.87E-05	8.61E-06	3.91E-05	6.68E-06
Los Angele	2025 Annual	LDA	0	0.001216303	0.032141782	342.8387	0	1.11E-04	1.72E-03	1.47E-04	7.89E-06	9.87E-05	7.32E-06	3.91E-05	8.57E-06
Los Angele	2025 Annual	LDA	0	0	7.22E-05	0	0.6809132	1.46E-05	1.37E-04	4.52E-04	8.97E-06	9.87E-05	8.25E-06	3.91E-05	6.68E-06
Los Angele	2025 Annual	LDA	0	0.001265174	0.034796806	371.1584	0	9.79E-05	1.08E-03	1.36E-04	7.80E-06	9.87E-05	7.23E-06	3.91E-05	8.56E-06
Los Angele	2025 Annual	LDA	0	0	6.82E-05	0	0.6431851	1.38E-05	1.30E-04	4.30E-04	8.54E-06	9.87E-05	7.86E-06	3.91E-05	6.68E-06
Los Angele	2025 Annual	LDA	0	0.001217773	0.03513057	374.7185	0	8.52E-05	1.40E-03	1.28E-04	7.69E-06	9.87E-05	7.14E-06	3.91E-05	8.55E-06
Los Angele	2025 Annual	LDA	0	0	6.37E-05	0	0.6003224	1.30E-05	1.22E-04	4.07E-04	8.09E-06	9.87E-05	7.44E-06	3.91E-05	6.68E-06
Los Angele	2025 Annual	LDA	0	0.001237787	0.037779137	402.9695	0	7.53E-05	1.27E-03	1.17E-04	7.58E-06	9.87E-05	7.03E-06	3.91E-05	8.53E-06
Los Angele	2025 Annual	LDA	0	0	6.48E-05	0	0.6105648	1.22E-05	1.14E-04	3.83E-04	7.62E-06	9.87E-05	7.01E-06	3.91E-05	6.68E-06
Los Angele	2025 Annual	LDA	0	0.001262472	0.041181848	439.2642	0	6.71E-05	1.17E-03	1.08E-04	7.44E-06	9.87E-05	6.91E-06	3.91E-05	8.51E-06
Los Angele	2025 Annual	LDA	0	0	7.03E-05	0	0.6631633	1.13E-05	1.05E-04	3.58E-04	7.11E-06	9.87E-05	6.54E-06	3.91E-05	6.68E-06
Los Angele	2025 Annual	LDA	0	0.001300454	0.04627806	493.6199	0	5.90E-05	1.08E-03	9.93E-05	7.28E-06	9.87E-05	6.76E-06	3.91E-05	8.49E-06
Los Angele	2025 Annual	LDA	0	0	8.14E-05	0	0.7673537	1.03E-05	9.59E-05	3.30E-04	6.57E-06	9.87E-05	6.05E-06	3.91E-05	6.68E-06
Los Angele	2025 Annual	LDA	0	0.001303341	0.053023446	565.572	0	4.98E-05	9.96E-04	8.98E-05	7.06E-06	9.87E-05	6.55E-06	3.91E-05	8.46E-06
Los Angele	2025 Annual	LDA	0	0	9.58E-05	0	0.9032029	9.25E-06	8.57E-05	3.00E-04	5.98E-06	9.87E-05	5.50E-06	3.91E-05	6.68E-06
Los Angele	2025 Annual	LDT1	0	3.55E-05	8.72E-04	9.296836	0	4.20E-04	2.47E-03	1.57E-04	7.24E-07	9.87E-05	6.72E-07	3.91E-05	1.00E-05
Los Angele	2025 Annual	LDT1	0	0	0	0	0	0	0	0	0	0	0	0	0
Los Angele	2025 Annual	LDT1	0	7.72E-05	0.001911338	20.3872	0	3.77E-04	2.24E-03	1.53E-04	7.47E-07	9.87E-05	6.93E-07	3.91E-05	9.99E-06
Los Angele	2025 Annual	LDT1	0	0	0	0	0	0	0	0	0	0	0	0	0
Los Angele	2025 Annual	LDT1	0	7.21E-05	0.001799511	19.1944	0	3.40E-04	2.20E-03	1.59E-04	1.02E-06	9.87E-05	9.49E-07	3.91E-05	1.00E-05
Los Angele	2025 Annual	LDT1	0	0	0	0	0	0	0	0	0	0	0	0	0
Los Angele	2025 Annual	LDT1	0	8.31E-05	0.002092188	22.31623	0	3.07E-04	2.14E-03	1.66E-04	1.06E-06	9.87E-05	9.83E-07	3.91E-05	9.99E-06
Los Angele	2025 Annual	LDT1	0	0	2.16E-06	0	0.020363985	2.35E-05	2.21E-04	7.19E-04	1.19E-05	9.87E-05	1.09E-05	3.91E-05	6.68E-06
Los Angele	2025 Annual	LDT1	0	8.17E-05	0.002073161	22.11327	0	2.77E-04	2.12E-03	1.65E-04	1.66E-06	9.87E-05	1.54E-06	3.91E-05	9.99E-06
Los Angele	2025 Annual	LDT1	0	0	3.22E-06	0	0.030312059	2.30E-05	2.16E-04	7.05E-04	1.17E-05	9.87E-05	1.07E-05	3.91E-05	6.68E-06
Los Angele	2025 Annual	LDT1	0	8.22E-05	0.00210587	22.46217	0	2.46E-04	2.09E-03	1.64E-04	2.24E-06	9.87E-05	2.08E-06	3.91E-05	9.98E-06
Los Angele	2025 Annual	LDT1	0	0	2.45E-06	0	0.023060057	2.25E-05	2.11E-04	6.90E-04	1.14E-05	9.87E-05	1.05E-05	3.91E-05	6.68E-06
Los Angele	2025 Annual	LDT1	0	8.74E-05	0.002260638	24.11299	0	2.27E-04	2.06E-03	1.63E-04	3.54E-06	9.87E-05	3.29E-06	3.91E-05	9.98E-06
Los Angele	2025 Annual	LDT1	0	0	3.39E-06	0	0.031918511	2.19E-05	2.06E-04	6.74E-04	1.11E-05	9.87E-05	1.03E-05	3.91E-05	6.68E-06
Los Angele	2025 Annual	LDT1	0	9.06E-05	0.002372984	25.31133	0	2.09E-04	2.02E-03	1.62E-04	4.78E-06	9.87E-05	4.44E-06	3.91E-05	9.97E-06
Los Angele	2025 Annual	LDT1	0	0	3.31E-06	0	0.031196468	2.13E-05	2.00E-04	6.56E-04	1.09E-05	9.87E-05	9.99E-06	3.91E-05	6.68E-06
Los Angele	2025 Annual	LDT1	0	9.80E-05	0.002596138	27.69159	0	1.87E-04	1.97E-03	1.60E-04	6.01E-06	9.87E-05	5.58E-06	3.91E-05	9.98E-06
Los Angele	2025 Annual	LDT1	0	0	3.52E-06	0	0.033220828	2.06E-05	1.93E-04	6.36E-04	1.05E-05	9.87E-05	9.69E-06	3.91E-05	6.68E-06
Los Angele	2025 Annual	LDT1	0	1.01E-04	0.002710254	28.90879	0	1.70E-04	1.92E-03	1.58E-04	6.91E-06	9.87E-05	6.41E-06	3.91E-05	9.96E-06
Los Angele	2025 Annual	LDT1	0	0	4.64E-06	0	0.043783963	1.99E-05	1.86E-04	6.16E-04	1.02E-05	9.87E-05	9.38E-06	3.91E-05	6.68E-06
Los Angele	2025 Annual	LDT1	0	1.05E-04	0.00286569	30.56674	0	1.52E-04	1.86E-03	1.55E-04	7.49E-06	9.87E-05	6.95E-06	3.91E-05	9.95E-06
Los Angele	2025 Annual	LDT1	0	0	3.28E-06	0	0.030905154	1.92E-05	1.79E-04	5.94E-04	9.84E-06	9.87E-05	9.05E-06	3.91E-05	6.68E-06
Los Angele	2025 Annual	LDT1	0	1.07E-04	0.002979266	31.7782	0	1.30E-04	1.80E-03	1.52E-04	7.75E-06	9.87E-05	7.19E-06	3.91E-05	9.94E-06
Los Angele	2025 Annual	LDT1	0	0	3.67E-06	0	0.034575284	1.83E-05	1.71E-04	5.70E-04	9.44E-06	9.87E-05	8.69E-06	3.91E-05	6.68E-06

Los Angele	2025 Annual	LDA	3.75E-04
Los Angele	2025 Annual	LDA	3.04E-04
Los Angele	2025 Annual	LDA	3.32E-04
Los Angele	2025 Annual	LDA	2.70E-04
Los Angele	2025 Annual	LDA	2.90E-04
Los Angele	2025 Annual	LDA	2.35E-04
Los Angele	2025 Annual	LDA	2.82E-04
Los Angele	2025 Annual	LDA	2.29E-04
Los Angele	2025 Annual	LDA	2.76E-04
Los Angele	2025 Annual	LDA	2.24E-04
Los Angele	2025 Annual	LDA	2.64E-04
Los Angele	2025 Annual	LDA	2.15E-04
Los Angele	2025 Annual	LDA	2.54E-04
Los Angele	2025 Annual	LDA	2.07E-04
Los Angele	2025 Annual	LDA	2.54E-04
Los Angele	2025 Annual	LDA	2.07E-04
Los Angele	2025 Annual	LDA	2.53E-04
Los Angele	2025 Annual	LDA	2.07E-04
Los Angele	2025 Annual	LDA	2.53E-04
Los Angele	2025 Annual	LDA	2.07E-04
Los Angele	2025 Annual	LDA	2.52E-04
Los Angele	2025 Annual	LDA	2.07E-04
Los Angele	2025 Annual	LDA	2.52E-04
Los Angele	2025 Annual	LDA	2.07E-04
Los Angele	2025 Annual	LDA	2.52E-04
Los Angele	2025 Annual	LDA	2.07E-04
Los Angele	2025 Annual	LDA	2.51E-04
Los Angele	2025 Annual	LDA	2.07E-04
Los Angele	2025 Annual	LDA	2.50E-04
Los Angele	2025 Annual	LDA	2.07E-04
Los Angele	2025 Annual	LDT1	4.49E-04
Los Angele	2025 Annual	LDT1	
Los Angele	2025 Annual	LDT1	4.49E-04
Los Angele	2025 Annual	LDT1	
Los Angele	2025 Annual	LDT1	4.49E-04
Los Angele	2025 Annual	LDT1	
Los Angele	2025 Annual	LDT1	4.33E-04
Los Angele	2025 Annual	LDT1	3.04E-04
Los Angele	2025 Annual	LDT1	3.84E-04
Los Angele	2025 Annual	LDT1	2.70E-04
Los Angele	2025 Annual	LDT1	3.35E-04
Los Angele	2025 Annual	LDT1	2.35E-04
Los Angele	2025 Annual	LDT1	3.26E-04
Los Angele	2025 Annual	LDT1	2.29E-04
Los Angele	2025 Annual	LDT1	3.19E-04
Los Angele	2025 Annual	LDT1	2.24E-04
Los Angele	2025 Annual	LDT1	3.06E-04
Los Angele	2025 Annual	LDT1	2.15E-04
Los Angele	2025 Annual	LDT1	2.94E-04
Los Angele	2025 Annual	LDT1	2.07E-04
Los Angele	2025 Annual	LDT1	2.94E-04
Los Angele	2025 Annual	LDT1	2.07E-04
Los Angele	2025 Annual	LDT1	2.94E-04
Los Angele	2025 Annual	LDT1	2.07E-04

Los Angele	2025 Annual	LDT1	GAS	2019 AllSpeeds	17312.86	621388.1954	111483.7	0.007497735	0	0.005895551	0.013393287
Los Angele	2025 Annual	LDT1	DSL	2019 AllSpeeds	36.33432	1304.108375	233.9697	1.14E-05	0	0	1.14E-05
Los Angele	2025 Annual	LDT1	GAS	2020 AllSpeeds	17748.45	657279.481	114821	0.007496694	0	0.005784043	0.013280736
Los Angele	2025 Annual	LDT1	DSL	2020 AllSpeeds	30.67558	1136.017717	198.4511	9.39E-06	0	0	9.39E-06
Los Angele	2025 Annual	LDT1	GAS	2021 AllSpeeds	18775.43	720583.0046	121840.3	0.007333889	0	0.005628592	0.012962481
Los Angele	2025 Annual	LDT1	DSL	2021 AllSpeeds	23.60095	905.7873856	153.1549	7.03E-06	0	0	7.03E-06
Los Angele	2025 Annual	LDT1	GAS	2022 AllSpeeds	19290.36	772147.8247	125374.8	0.007313429	0	0.005423071	0.012736499
Los Angele	2025 Annual	LDT1	DSL	2022 AllSpeeds	19.83228	793.8440182	128.8969	5.76E-06	0	0	5.76E-06
Los Angele	2025 Annual	LDT1	GAS	2023 AllSpeeds	19647.43	828344.8197	128088.4	0.00742245	0	0.005211908	0.012634358
Los Angele	2025 Annual	LDT1	DSL	2023 AllSpeeds	26.52448	1118.290314	172.9223	7.49E-06	0	0	7.49E-06
Los Angele	2025 Annual	LDT1	GAS	2024 AllSpeeds	20415.7	922048.7796	133505.3	0.007742129	0	0.005040639	0.012782768
Los Angele	2025 Annual	LDT1	DSL	2024 AllSpeeds	31.56067	1425.404502	206.3861	8.71E-06	0	0	8.71E-06
Los Angele	2025 Annual	LDT1	GAS	2025 AllSpeeds	20454.34	1028553.353	134167.1	0.007877173	0	0.004550085	0.012427258
Los Angele	2025 Annual	LDT1	DSL	2025 AllSpeeds	36.4809	1834.463814	239.2908	1.01E-05	0	0	1.01E-05
Los Angele	2025 Annual	T6 instate heavy	DSL	2010 AllSpeeds	538.7373589	18242.31018	0	0.002913968	1.25E-04	0	0.003038623
Los Angele	2025 Annual	T6 instate heavy	DSL	2011 AllSpeeds	559.6949275	23026.62829	0	0.003603935	1.30E-04	0	0.003733439
Los Angele	2025 Annual	T6 instate heavy	DSL	2012 AllSpeeds	321.7142506	14809.57398	0	0.002262813	7.44E-05	0	0.002337253
Los Angele	2025 Annual	T6 instate heavy	DSL	2013 AllSpeeds	477.1208333	21238.80249	0	0.002553608	1.10E-04	0	0.002664006
Los Angele	2025 Annual	T6 instate heavy	DSL	2014 AllSpeeds	855.4523413	37140.35661	0	0.004358192	1.98E-04	0	0.00455613
Los Angele	2025 Annual	T6 instate heavy	DSL	2015 AllSpeeds	1636.179308	67725.80318	0	0.007738124	3.79E-04	0	0.00811671
Los Angele	2025 Annual	T6 instate heavy	DSL	2016 AllSpeeds	792.7983996	39693.35537	0	0.004404878	1.83E-04	0	0.004588319
Los Angele	2025 Annual	T6 instate heavy	DSL	2017 AllSpeeds	1121.88742	49188.95195	0	0.005286947	2.60E-04	0	0.005546534
Los Angele	2025 Annual	T6 instate heavy	DSL	2018 AllSpeeds	446.4531742	30352.6649	0	0.003149735	1.03E-04	0	0.003253037
Los Angele	2025 Annual	T6 instate heavy	DSL	2019 AllSpeeds	535.0236519	38608.37689	0	0.003854123	1.24E-04	0	0.003977919
Los Angele	2025 Annual	T6 instate heavy	DSL	2020 AllSpeeds	591.3963505	45095.84699	0	0.004312952	1.37E-04	0	0.004449792
Los Angele	2025 Annual	T6 instate heavy	DSL	2021 AllSpeeds	582.2060942	46535.10765	0	0.004244809	1.35E-04	0	0.004379522
Los Angele	2025 Annual	T6 instate heavy	DSL	2022 AllSpeeds	587.8655966	48665.36019	0	0.004213552	1.36E-04	0	0.004349575
Los Angele	2025 Annual	T6 instate heavy	DSL	2023 AllSpeeds	613.6834386	51774.94806	0	0.004234207	1.42E-04	0	0.004376203
Los Angele	2025 Annual	T6 instate heavy	DSL	2024 AllSpeeds	671.4416723	56415.85639	0	0.0043378	1.55E-04	0	0.004493161
Los Angele	2025 Annual	T6 instate heavy	DSL	2025 AllSpeeds	607.3321767	51039.84403	0	0.003675865	1.41E-04	0	0.003816393
Los Angele	2025 Annual	T6 instate heavy	DSL	2026 AllSpeeds	152.3545483	5344.595606	0	3.59E-04	3.53E-05	0	3.94E-04
Los Angele	2025 Annual	LDA/LDT1	GAS&DSL >2007	AllSpeeds	3661836.168	124964937.8	23323357.01	1.392054064	0	1.189386438	2.581440501
Los Angele	2025 Annual	T6 instate heavy	DSL >2007	AllSpeeds	11091.34154	644898.3828	0	0.065504392	0.002566362	0	0.068070755

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Los Angeles COUNTY

South Coast AIR BASIN

South Coast AQMD

Area	CalYr	Season	Veh	Fuel	MdIYr	Speed (Miles/hr)	Pop (Vehicles)	VMT (Miles/day)	Trips (Trips/day)	ROG_RUNEX (Tons/day)	ROG_IDLEX (Tons/day)	ROG_STREX (Tons/day)	ROG_TOTEX (Tons/day)
Los Angele	2026 Annual	LDA	GAS	2007 AllSpeeds			50240.71	1145520.067	296892.9	0.017095765	0	0.020266017	0.037361782
Los Angele	2026 Annual	LDA	DSL	2007 AllSpeeds			0	0	0	0	0	0	0
Los Angele	2026 Annual	LDA	GAS	2008 AllSpeeds			60994.2	1421298.572	362879.2	0.019818902	0	0.022251258	0.04207016
Los Angele	2026 Annual	LDA	DSL	2008 AllSpeeds			13.73636	320.091972	81.72318	3.28E-06	0	0	3.28E-06
Los Angele	2026 Annual	LDA	GAS	2009 AllSpeeds			61929.7	1475601.523	371541	0.021055598	0	0.02323195	0.044287548
Los Angele	2026 Annual	LDA	DSL	2009 AllSpeeds			474.5474	11307.08058	2847	1.14E-04	0	0	1.14E-04
Los Angele	2026 Annual	LDA	GAS	2010 AllSpeeds			91528.99	2232569.927	552779.8	0.03208562	0	0.034503475	0.066589095
Los Angele	2026 Annual	LDA	DSL	2010 AllSpeeds			915.6946	22335.61759	5530.242	2.22E-04	0	0	2.22E-04
Los Angele	2026 Annual	LDA	GAS	2011 AllSpeeds			104240.3	2604215.667	633717.9	0.037083572	0	0.03923082	0.076314392
Los Angele	2026 Annual	LDA	DSL	2011 AllSpeeds			892.5897	22299.43327	5426.403	2.18E-04	0	0	2.18E-04
Los Angele	2026 Annual	LDA	GAS	2012 AllSpeeds			123227.9	3156710.131	755311.2	0.044406842	0	0.046264175	0.090671017
Los Angele	2026 Annual	LDA	DSL	2012 AllSpeeds			866.3838	22194.07821	5310.401	2.13E-04	0	0	2.13E-04
Los Angele	2026 Annual	LDA	GAS	2013 AllSpeeds			136597.9	3591335.011	842724.7	0.049848127	0	0.051007312	0.100855439
Los Angele	2026 Annual	LDA	DSL	2013 AllSpeeds			847.1586	22272.94818	5226.446	2.09E-04	0	0	2.09E-04

Los Angele	2025 Annual	LDT1	0.001226226	0.002701258	0.014328541	0.001219326	0.032868637	0.013954234	0	0.006294631	0.020248865
Los Angele	2025 Annual	LDT1	0	0	0	0	1.14E-05	1.30E-05	0	0	1.30E-05
Los Angele	2025 Annual	LDT1	0.001045436	0.002045289	0.013082067	9.63E-04	0.030416584	0.013952295	0	0.006175573	0.020127868
Los Angele	2025 Annual	LDT1	0	0	0	0	9.39E-06	1.07E-05	0	0	1.07E-05
Los Angele	2025 Annual	LDT1	9.49E-04	0.001619355	0.012412703	8.06E-04	0.028749818	0.013649294	0	0.006009601	0.019658895
Los Angele	2025 Annual	LDT1	0	0	0	0	7.03E-06	8.01E-06	0	0	8.01E-06
Los Angele	2025 Annual	LDT1	8.65E-04	0.001274835	0.011482395	6.78E-04	0.027036513	0.013611216	0	0.005790168	0.019401384
Los Angele	2025 Annual	LDT1	0	0	0	0	5.76E-06	6.55E-06	0	0	6.55E-06
Los Angele	2025 Annual	LDT1	8.04E-04	0.001030152	0.010737805	5.87E-04	0.025793865	0.013814119	0	0.005564711	0.01937883
Los Angele	2025 Annual	LDT1	0	0	0	0	7.49E-06	8.52E-06	0	0	8.52E-06
Los Angele	2025 Annual	LDT1	7.83E-04	8.83E-04	0.010287644	5.38E-04	0.025273709	0.014409084	0	0.005381849	0.019790933
Los Angele	2025 Annual	LDT1	0	0	0	0	8.71E-06	9.92E-06	0	0	9.92E-06
Los Angele	2025 Annual	LDT1	7.49E-04	7.58E-04	0.009616076	4.91E-04	0.024041371	0.014660417	0	0.004858087	0.019518504
Los Angele	2025 Annual	LDT1	0	0	0	0	1.01E-05	1.15E-05	0	0	1.15E-05
Los Angele	2025 Annual	T6 instate heavy	0	0	0	0	0.003038623	0.003317331	1.42E-04	0	0.003459241
Los Angele	2025 Annual	T6 instate heavy	0	0	0	0	0.003733439	0.004102805	1.47E-04	0	0.004250236
Los Angele	2025 Annual	T6 instate heavy	0	0	0	0	0.002337253	0.00257604	8.47E-05	0	0.002660784
Los Angele	2025 Annual	T6 instate heavy	0	0	0	0	0.002664006	0.002907088	1.26E-04	0	0.003032768
Los Angele	2025 Annual	T6 instate heavy	0	0	0	0	0.00455613	0.00496147	2.25E-04	0	0.005186808
Los Angele	2025 Annual	T6 instate heavy	0	0	0	0	0.00811671	0.008809265	4.31E-04	0	0.009240256
Los Angele	2025 Annual	T6 instate heavy	0	0	0	0	0.004588319	0.005014618	2.09E-04	0	0.005223452
Los Angele	2025 Annual	T6 instate heavy	0	0	0	0	0.005546534	0.006018786	2.96E-04	0	0.006314307
Los Angele	2025 Annual	T6 instate heavy	0	0	0	0	0.003253037	0.003585734	1.18E-04	0	0.003703335
Los Angele	2025 Annual	T6 instate heavy	0	0	0	0	0.003977919	0.004387625	1.41E-04	0	0.004528558
Los Angele	2025 Annual	T6 instate heavy	0	0	0	0	0.004449792	0.004909968	1.56E-04	0	0.00506575
Los Angele	2025 Annual	T6 instate heavy	0	0	0	0	0.004379522	0.004832392	1.53E-04	0	0.004985752
Los Angele	2025 Annual	T6 instate heavy	0	0	0	0	0.004349575	0.004796809	1.55E-04	0	0.00495166
Los Angele	2025 Annual	T6 instate heavy	0	0	0	0	0.004376203	0.004820322	1.62E-04	0	0.004981974
Los Angele	2025 Annual	T6 instate heavy	0	0	0	0	0.004493161	0.004938255	1.77E-04	0	0.005115121
Los Angele	2025 Annual	T6 instate heavy	0	0	0	0	0.003816393	0.004184693	1.60E-04	0	0.004344672
Los Angele	2025 Annual	T6 instate heavy	0	0	0	0	3.94E-04	4.09E-04	4.01E-05	0	4.49E-04
Los Angele	2025 Annual	LDA/LDT1	0.321609592	1.031855507	3.913720619	0.357487003	8.206113222	2.588612749	0	1.26989796	3.858510709
Los Angele	2025 Annual	T6 instate heavy	0	0	0	0	0.068070755	0.074571764	0.002921608	0	0.077493372

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Los Angeles COUNTY

South Coast AIR BASIN

South Coast AQMD

Area	CalYr	Season	Veh	ROG_DIURN (Tons/day)	ROG_HTSK (Tons/day)	ROG_RUNLS (Tons/day)	ROG_RESTL (Tons/day)	ROG_TOTAL (Tons/day)	TOG_RUNEX (Tons/day)	TOG_IDLEX (Tons/day)	TOG_STREX (Tons/day)	TOG_TOTEX (Tons/day)
Los Angele	2026 Annual	LDA		0.013930858	0.053611409	0.105177	0.017679011	0.22776006	0.031817383	0	0.021637855	0.053455238
Los Angele	2026 Annual	LDA		0	0	0	0	0	0	0	0	0
Los Angele	2026 Annual	LDA		0.015368578	0.059053279	0.1207749	0.019390965	0.256657882	0.036885484	0	0.02375748	0.060642964
Los Angele	2026 Annual	LDA		0	0	0	0	3.28E-06	3.74E-06	0	0	3.74E-06
Los Angele	2026 Annual	LDA		0.014029184	0.053810682	0.1157916	0.017575979	0.245494993	0.03918713	0	0.024804557	0.063991687
Los Angele	2026 Annual	LDA		0	0	0	0	1.14E-04	1.30E-04	0	0	1.30E-04
Los Angele	2026 Annual	LDA		0.018626425	0.071109965	0.1612653	0.023152245	0.34074303	0.059715401	0	0.036839064	0.096554465
Los Angele	2026 Annual	LDA		0	0	0	0	2.22E-04	2.53E-04	0	0	2.53E-04
Los Angele	2026 Annual	LDA		0.018955035	0.071879186	0.172878	0.023343856	0.363370469	0.069017228	0	0.041886427	0.110903655
Los Angele	2026 Annual	LDA		0	0	0	0	2.18E-04	2.48E-04	0	0	2.48E-04
Los Angele	2026 Annual	LDA		0.019687276	0.0740069	0.191523	0.023963375	0.399851568	0.082646751	0	0.049395867	0.132042618
Los Angele	2026 Annual	LDA		0	0	0	0	2.13E-04	2.42E-04	0	0	2.42E-04
Los Angele	2026 Annual	LDA		0.02009413	0.074938543	0.2030616	0.024218766	0.423168478	0.092773673	0	0.054460075	0.147233748
Los Angele	2026 Annual	LDA		0	0	0	0	2.09E-04	2.37E-04	0	0	2.37E-04

Los Angele	2025 Annual	LDT1	0.001226226	0.002701258	0.014328541	0.001219326	0.039724215	0.429668883	0	0.102195	0.531863883
Los Angele	2025 Annual	LDT1	0	0	0	0	1.30E-05	1.06E-04	0	0	1.06E-04
Los Angele	2025 Annual	LDT1	0.001045436	0.002045289	0.013082067	9.63E-04	0.037263716	0.42410555	0	0.096927531	0.521033081
Los Angele	2025 Annual	LDT1	0	0	0	0	1.07E-05	8.73E-05	0	0	8.73E-05
Los Angele	2025 Annual	LDT1	9.49E-04	0.001619355	0.012412703	8.06E-04	0.035446233	0.411611376	0	0.088495798	0.500107174
Los Angele	2025 Annual	LDT1	0	0	0	0	8.01E-06	6.53E-05	0	0	6.53E-05
Los Angele	2025 Annual	LDT1	8.65E-04	0.001274835	0.011482395	6.78E-04	0.033701398	0.403616884	0	0.081560299	0.485177183
Los Angele	2025 Annual	LDT1	0	0	0	0	6.55E-06	5.33E-05	0	0	5.33E-05
Los Angele	2025 Annual	LDT1	8.04E-04	0.001030152	0.010737805	5.87E-04	0.032538337	0.404091855	0	0.076687396	0.480779251
Los Angele	2025 Annual	LDT1	0	0	0	0	8.52E-06	6.91E-05	0	0	6.91E-05
Los Angele	2025 Annual	LDT1	7.83E-04	8.83E-04	0.010287644	5.38E-04	0.032281874	0.421834694	0	0.07429523	0.496129924
Los Angele	2025 Annual	LDT1	0	0	0	0	9.92E-06	8.01E-05	0	0	8.01E-05
Los Angele	2025 Annual	LDT1	7.49E-04	7.58E-04	0.009616076	4.91E-04	0.031132616	0.442752971	0	0.070116989	0.51286996
Los Angele	2025 Annual	LDT1	0	0	0	0	1.15E-05	9.21E-05	0	0	9.21E-05
Los Angele	2025 Annual	T6 instate heavy	0	0	0	0	0.003459241	0.012130892	0.001474058	0	0.01360495
Los Angele	2025 Annual	T6 instate heavy	0	0	0	0	0.004250236	0.015003234	0.001531401	0	0.016534635
Los Angele	2025 Annual	T6 instate heavy	0	0	0	0	0.002660784	0.009420125	8.80E-04	0	0.010300379
Los Angele	2025 Annual	T6 instate heavy	0	0	0	0	0.003032768	0.010630707	0.001305467	0	0.011936174
Los Angele	2025 Annual	T6 instate heavy	0	0	0	0	0.005186808	0.01814322	0.002340633	0	0.020483852
Los Angele	2025 Annual	T6 instate heavy	0	0	0	0	0.009240256	0.032213925	0.004476807	0	0.036690732
Los Angele	2025 Annual	T6 instate heavy	0	0	0	0	0.005223452	0.018337573	0.002169203	0	0.020506776
Los Angele	2025 Annual	T6 instate heavy	0	0	0	0	0.006314307	0.022009639	0.003069635	0	0.025079274
Los Angele	2025 Annual	T6 instate heavy	0	0	0	0	0.003703335	0.013112394	0.001221556	0	0.01433395
Los Angele	2025 Annual	T6 instate heavy	0	0	0	0	0.004528558	0.01604477	0.001463897	0	0.017508667
Los Angele	2025 Annual	T6 instate heavy	0	0	0	0	0.00506575	0.017954886	0.00161814	0	0.019573026
Los Angele	2025 Annual	T6 instate heavy	0	0	0	0	0.004985752	0.017671203	0.001592994	0	0.019264197
Los Angele	2025 Annual	T6 instate heavy	0	0	0	0	0.00495166	0.017541082	0.001608479	0	0.019149562
Los Angele	2025 Annual	T6 instate heavy	0	0	0	0	0.004981974	0.017627066	0.00167912	0	0.019306186
Los Angele	2025 Annual	T6 instate heavy	0	0	0	0	0.005115121	0.018058325	0.001837155	0	0.01989548
Los Angele	2025 Annual	T6 instate heavy	0	0	0	0	0.004344672	0.015302683	0.001661743	0	0.016964426
Los Angele	2025 Annual	T6 instate heavy	0	0	0	0	4.49E-04	0.001494048	4.17E-04	0	0.001910911
Los Angele	2025 Annual	LDA/LDT1	0.321609592	1.031855507	3.913720619	0.357487003	9.483183429	78.93313558	0	20.19413603	99.12727161
Los Angele	2025 Annual	T6 instate heavy	0	0	0	0	0.077493372	0.272695774	0.030347403	0	0.303043177

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Area	CalYr	Season	Veh	TOG_DIURN (Tons/day)	TOG_HTSK (Tons/day)	TOG_RUNLS (Tons/day)	TOG_RESTL (Tons/day)	TOG_TOTAL (Tons/day)	CO_RUNEX (Tons/day)	CO_IDLEX (Tons/day)	CO_STREX (Tons/day)	CO_TOTEX (Tons/day)
Los Angele	2026 Annual	LDA		0.013930858	0.053611409	0.105177	0.017679011	0.243853516	1.0340435	0	0.3825061	1.4165496
Los Angele	2026 Annual	LDA		0	0	0	0	0	0	0	0	0
Los Angele	2026 Annual	LDA		0.015368578	0.059053279	0.1207749	0.019390965	0.275230686	1.180015862	0	0.4184892	1.598505062
Los Angele	2026 Annual	LDA		0	0	0	0	3.74E-06	3.10E-05	0	0	3.10E-05
Los Angele	2026 Annual	LDA		0.014029184	0.053810682	0.1157916	0.017575979	0.265199132	1.218131879	0	0.4222875	1.640419379
Los Angele	2026 Annual	LDA		0	0	0	0	1.30E-04	0.001078388	0	0	0.001078388
Los Angele	2026 Annual	LDA		0.018626425	0.071109965	0.1612653	0.023152245	0.3707084	1.804559948	0	0.6075092	2.412069148
Los Angele	2026 Annual	LDA		0	0	0	0	2.53E-04	0.002095999	0	0	0.002095999
Los Angele	2026 Annual	LDA		0.018955035	0.071879186	0.172878	0.023343856	0.397959732	2.096422383	0	0.6934177	2.789840083
Los Angele	2026 Annual	LDA		0	0	0	0	2.48E-04	0.002055066	0	0	0.002055066
Los Angele	2026 Annual	LDA		0.019687276	0.0740069	0.191523	0.023963375	0.441223169	2.524130678	0	0.8201977	3.344328378
Los Angele	2026 Annual	LDA		0	0	0	0	2.42E-04	0.002003379	0	0	0.002003379
Los Angele	2026 Annual	LDA		0.02009413	0.074938543	0.2030616	0.024218766	0.469546787	2.850022902	0	0.9072896	3.757312502
Los Angele	2026 Annual	LDA		0	0	0	0	2.37E-04	0.001963767	0	0	0.001963767

Los Angele	2025 Annual	LDT1	0.038938955	0	0.006413682	0.045352637	297.7865209	0	10.62216	308.4086809	176.0811698
Los Angele	2025 Annual	LDT1	3.55E-04	0	0	3.55E-04	0.456456408	0	0	0.456456408	0.269902674
Los Angele	2025 Annual	LDT1	0.0384215	0	0.005999736	0.044421236	315.0629535	0	10.93947	326.0024235	186.2967244
Los Angele	2025 Annual	LDT1	2.94E-04	0	0	2.94E-04	0.397622233	0	0	0.397622233	0.235114026
Los Angele	2025 Annual	LDT1	0.039920533	0	0.005854821	0.045775354	345.5283914	0	11.6088	357.1371914	204.3109378
Los Angele	2025 Annual	LDT1	2.22E-04	0	0	2.22E-04	0.317038366	0	0	0.317038366	0.187464786
Los Angele	2025 Annual	LDT1	0.039650587	0	0.005327631	0.044978219	370.3873677	0	11.94623	382.3335977	219.0100505
Los Angele	2025 Annual	LDT1	1.82E-04	0	0	1.82E-04	0.277856638	0	0	0.277856638	0.16429663
Los Angele	2025 Annual	LDT1	0.039754056	0	0.004826576	0.044580631	397.463764	0	12.20477	409.668534	235.0203236
Los Angele	2025 Annual	LDT1	2.39E-04	0	0	2.39E-04	0.39141743	0	0	0.39141743	0.231445126
Los Angele	2025 Annual	LDT1	0.041159065	0	0.004383964	0.045543029	442.5761655	0	12.72139	455.2975555	261.6952867
Los Angele	2025 Annual	LDT1	2.81E-04	0	0	2.81E-04	0.498911741	0	0	0.498911741	0.295006513
Los Angele	2025 Annual	LDT1	0.04235809	0	0.003736134	0.046094223	493.8606092	0	12.7848	506.6454092	292.0197782
Los Angele	2025 Annual	LDT1	3.29E-04	0	0	3.29E-04	0.642088257	0	0	0.642088257	0.379666786
Los Angele	2025 Annual	T6 instate heavy	0.041071871	0.002226999	0	0.04329887	22.59616437	0.442890903	0	23.0390528	20.33654794
Los Angele	2025 Annual	T6 instate heavy	0.047868124	0.002313632	0	0.050181756	28.52234572	0.460119922	0	28.98246565	25.67011115
Los Angele	2025 Annual	T6 instate heavy	0.027307189	0.001329882	0	0.028637071	18.34414417	0.264478252	0	16.60862243	16.50972976
Los Angele	2025 Annual	T6 instate heavy	0.031861088	0.001972292	0	0.033833381	26.24727591	0.392236538	0	26.63951245	23.62254832
Los Angele	2025 Annual	T6 instate heavy	0.053787303	0.003536216	0	0.057323518	45.89868887	0.703259303	0	46.60194818	41.30881998
Los Angele	2025 Annual	T6 instate heavy	0.094324593	0.006763536	0	0.101088129	83.69670764	1.345087581	0	85.04179522	75.32703687
Los Angele	2025 Annual	T6 instate heavy	0.052940274	0.003277221	0	0.056217494	49.05372847	0.651752089	0	49.70548056	44.14835563
Los Angele	2025 Annual	T6 instate heavy	0.062519817	0.004637588	0	0.067157405	60.78854938	0.922293069	0	61.71084245	54.70969444
Los Angele	2025 Annual	T6 instate heavy	0.036554532	0.00184552	0	0.038400052	37.5103432	0.367024945	0	37.87736814	33.75930888
Los Angele	2025 Annual	T6 instate heavy	0.043760046	0.002211647	0	0.045971693	47.71289348	0.439837899	0	48.15273138	42.94160413
Los Angele	2025 Annual	T6 instate heavy	0.047720752	0.002444677	0	0.050165429	55.73022015	0.486181363	0	56.21640151	50.15719813
Los Angele	2025 Annual	T6 instate heavy	0.045545797	0.002406687	0	0.047952484	57.50888314	0.47862614	0	57.98750928	51.75799482
Los Angele	2025 Annual	T6 instate heavy	0.043577373	0.002430082	0	0.046007455	60.14148572	0.483278764	0	60.62476448	54.12733714
Los Angele	2025 Annual	T6 instate heavy	0.041895015	0.002536806	0	0.044431821	63.98436766	0.504503368	0	64.48887103	57.5859309
Los Angele	2025 Annual	T6 instate heavy	0.040691765	0.002775564	0	0.043467329	69.71968167	0.551985867	0	70.27166754	62.74771351
Los Angele	2025 Annual	T6 instate heavy	0.032347425	0.002510552	0	0.034857977	63.07591351	0.499282056	0	63.57519557	56.76832216
Los Angele	2025 Annual	T6 instate heavy	0.002919506	6.30E-04	0	0.0035493	6.604942797	0.125249238	0	6.730192035	5.944448518
Los Angele	2025 Annual	LDA/LDT1	7.226766514	0	1.223763526	8.450530039	52218.92384	0	1929.073935	54147.99778	32729.83928
Los Angele	2025 Annual	T6 instate heavy	0.746692467	0.045848698	0	0.792541165	797.1363359	9.118087297	0	806.2544232	717.4227023

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Area	CalYr	Season	Veh	NOX_RUNEX (Tons/day)	NOX_IDLEX (Tons/day)	NOX_STREX (Tons/day)	NOX_TOTEX (Tons/day)	CO2_RUNEX (Tons/day)	CO2_IDLEX (Tons/day)	CO2_STREX (Tons/day)	CO2_TOTEX (Tons/day)	CO2_RUNEX(Pavt) (Tons/day)
Los Angele	2026 Annual	LDA		0.073896462	0	0.017923817	0.091820279	470.374141	0	24.23909	494.613231	423.3367269
Los Angele	2026 Annual	LDA		0	0	0	0	0	0	0	0	0
Los Angele	2026 Annual	LDA		0.089497955	0	0.021166587	0.110664542	583.8746644	0	29.63965	613.5143144	525.4871979
Los Angele	2026 Annual	LDA		9.89E-05	0	0	9.89E-05	0.112036718	0	0	0.112036718	0.100833047
Los Angele	2026 Annual	LDA		0.097414204	0	0.023171255	0.120585459	607.8589165	0	30.43145	638.2903665	547.0730248
Los Angele	2026 Annual	LDA		0.003449699	0	0	0.003449699	3.957638158	0	0	3.957638158	3.561874342
Los Angele	2026 Annual	LDA		0.152468946	0	0.036169384	0.18863833	919.6239044	0	45.273	964.8969044	798.693361
Los Angele	2026 Annual	LDA		0.006713482	0	0	0.006713482	7.81778272	0	0	7.81778272	6.789744292
Los Angele	2026 Annual	LDA		0.177503372	0	0.041342966	0.218846338	1072.73914	0	51.90333	1124.64247	826.4382333
Los Angele	2026 Annual	LDA		0.006591857	0	0	0.006591857	7.805117225	0	0	7.805117225	6.01306231
Los Angele	2026 Annual	LDA		0.21462005	0	0.049089145	0.263709195	1300.277932	0	61.85992	1362.137852	874.1768539
Los Angele	2026 Annual	LDA		0.006436864	0	0	0.006436864	7.768241291	0	0	7.768241291	5.22258862
Los Angele	2026 Annual	LDA		0.243360389	0	0.05449697	0.297857359	1479.26315	0	69.01717	1548.28032	969.2132159
Los Angele	2026 Annual	LDA		0.006321867	0	0	0.006321867	7.795846621	0	0	7.795846621	5.107838706

Los Angele	2025 Annual	LDT1	0	6.280883208	182.362053	0.001726406	0	6.66E-04	0.002392398	0.005479706	0.025172399
Los Angele	2025 Annual	LDT1	0	0	0.269902674	5.89E-06	0	0	5.89E-06	1.15E-05	5.28E-05
Los Angele	2025 Annual	LDT1	0	6.468508611	192.765233	0.001826012	0	6.86E-04	0.002511899	0.005796213	0.02662636
Los Angele	2025 Annual	LDT1	0	0	0.235114026	4.88E-06	0	0	4.88E-06	1.00E-05	4.60E-05
Los Angele	2025 Annual	LDT1	0	6.86428344	211.1752213	0.002001974	0	7.28E-04	0.002729826	0.006354454	0.029190782
Los Angele	2025 Annual	LDT1	0	0	0.187464786	3.68E-06	0	0	3.68E-06	7.99E-06	3.67E-05
Los Angele	2025 Annual	LDT1	0	7.063805799	226.0738563	0.002145355	0	7.49E-04	0.002894364	0.006809179	0.031279672
Los Angele	2025 Annual	LDT1	0	0	0.16429663	3.03E-06	0	0	3.03E-06	7.00E-06	3.22E-05
Los Angele	2025 Annual	LDT1	0	7.216680501	242.2370041	0.00230149	0	7.65E-04	0.003066709	0.007304751	0.033556208
Los Angele	2025 Annual	LDT1	0	0	0.231445126	3.97E-06	0	0	3.97E-06	9.86E-06	4.53E-05
Los Angele	2025 Annual	LDT1	0	7.522157907	269.2174446	0.002561935	0	7.98E-04	0.003359546	0.008131078	0.037352152
Los Angele	2025 Annual	LDT1	0	0	0.295006513	4.67E-06	0	0	4.67E-06	1.26E-05	5.77E-05
Los Angele	2025 Annual	LDT1	0	7.55965224	299.5794304	0.002857939	0	8.02E-04	0.003659525	0.009070288	0.041666646
Los Angele	2025 Annual	LDT1	0	0	0.379666786	5.46E-06	0	0	5.46E-06	1.62E-05	7.43E-05
Los Angele	2025 Annual	T6 instate heavy	0.398601812	0	20.73514975	0.00141364	5.23E-06	0	0.001418874	2.41E-04	0.002620969
Los Angele	2025 Annual	T6 instate heavy	0.41410793	0	26.08421908	0.001742463	5.44E-06	0	0.001747901	3.05E-04	0.003308357
Los Angele	2025 Annual	T6 instate heavy	0.238030427	0	16.74776018	0.001089583	3.13E-06	0	0.001092709	1.96E-04	0.002127769
Los Angele	2025 Annual	T6 instate heavy	0.353012884	0	23.97556121	0.00119298	4.64E-06	0	0.001197615	2.81E-04	0.00305149
Los Angele	2025 Annual	T6 instate heavy	0.632933373	0	41.94175336	0.002023609	8.31E-06	0	0.00203192	4.91E-04	0.00533615
Los Angele	2025 Annual	T6 instate heavy	1.210578823	0	76.5376157	0.00356818	1.59E-05	0	0.003584076	8.96E-04	0.009730522
Los Angele	2025 Annual	T6 instate heavy	0.58657688	0	44.73493251	0.002015279	7.70E-06	0	0.002022982	5.25E-04	0.005702953
Los Angele	2025 Annual	T6 instate heavy	0.830063762	0	55.5397582	0.002397295	1.09E-05	0	0.002408195	6.51E-04	0.007067235
Los Angele	2025 Annual	T6 instate heavy	0.33032245	0	34.08963133	0.001413613	4.34E-06	0	0.001417951	4.01E-04	0.004360927
Los Angele	2025 Annual	T6 instate heavy	0.395854109	0	43.33745824	0.001709308	5.20E-06	0	0.001714507	5.11E-04	0.005547068
Los Angele	2025 Annual	T6 instate heavy	0.437563227	0	50.59476136	0.001886469	5.75E-06	0	0.001892215	5.97E-04	0.006479157
Los Angele	2025 Annual	T6 instate heavy	0.430763526	0	52.18875835	0.001826703	5.66E-06	0	0.00183236	6.16E-04	0.006685944
Los Angele	2025 Annual	T6 instate heavy	0.434950887	0	54.56228803	0.001778822	5.71E-06	0	0.001784533	6.44E-04	0.006992008
Los Angele	2025 Annual	T6 instate heavy	0.454053031	0	58.03998393	0.001747567	5.96E-06	0	0.00175353	6.85E-04	0.007438779
Los Angele	2025 Annual	T6 instate heavy	0.496787281	0	63.24450079	0.001743343	6.52E-06	0	0.001749867	7.46E-04	0.008105563
Los Angele	2025 Annual	T6 instate heavy	0.44935385	0	57.21767601	0.001432303	5.90E-06	0	0.001438203	6.75E-04	0.007333163
Los Angele	2025 Annual	T6 instate heavy	0.112724314	0	6.057172831	1.35E-04	1.48E-06	0	1.36E-04	7.07E-05	7.68E-04
Los Angele	2025 Annual	LDA/LDT1	0	1227.603379	33957.44266	0.291704817	0	0.107953869	0.399658687	1.102002175	5.062322944
Los Angele	2025 Annual	T6 instate heavy	8.206278567	0	725.6289808	0.029115966	0.00010776	0	0.029223725	0.008530545	0.09265594

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Area	CalYr	Season	Veh	CO2_IDLEX(Pavk (Tons/day)	CO2_STREX(Pavk (Tons/day)	CO2_TOTEX(Pavk (Tons/day)	PM10_RUNEX (Tons/day)	PM10_IDLEX (Tons/day)	PM10_STREX (Tons/day)	PM10_TOTEX (Tons/day)	PM10_PMTW (Tons/day)	PM10_PMBW (Tons/day)
Los Angele	2026 Annual	LDA	LDA	0	21.815181	445.1519079	3.66E-04	0	5.85E-05	4.25E-04	0.010101759	0.046404958
Los Angele	2026 Annual	LDA	LDA	0	0	0	0	0	0	0	0	0
Los Angele	2026 Annual	LDA	LDA	0	26.675685	552.1628829	4.55E-04	0	9.30E-05	5.48E-04	0.012533709	0.057576742
Los Angele	2026 Annual	LDA	LDA	0	0	0.100833047	1.96E-06	0	0	1.96E-06	2.82E-06	1.30E-05
Los Angele	2026 Annual	LDA	LDA	0	27.388305	574.4613298	6.31E-04	0	1.51E-04	7.82E-04	0.013012578	0.059776541
Los Angele	2026 Annual	LDA	LDA	0	0	3.561874342	6.84E-05	0	0	6.84E-05	9.97E-05	4.58E-04
Los Angele	2026 Annual	LDA	LDA	0	39.3196005	838.0129615	9.55E-04	0	2.77E-04	0.00123185	0.019687897	0.090441294
Los Angele	2026 Annual	LDA	LDA	0	0	6.789744292	1.33E-04	0	0	1.33E-04	1.97E-04	9.05E-04
Los Angele	2026 Annual	LDA	LDA	0	39.98632543	866.4245587	0.001671082	0	5.91E-04	0.002262349	0.022965247	0.1054966
Los Angele	2026 Annual	LDA	LDA	0	0	6.01306231	1.31E-04	0	0	1.31E-04	1.97E-04	9.03E-04
Los Angele	2026 Annual	LDA	LDA	0	41.58842422	915.7652781	0.002700714	0	9.91E-04	0.003692056	0.027837416	0.1278782
Los Angele	2026 Annual	LDA	LDA	0	0	5.22258862	1.28E-04	0	0	1.28E-04	1.96E-04	8.99E-04
Los Angele	2026 Annual	LDA	LDA	0	45.22004978	1014.433266	0.004608707	0	0.002072162	0.006680869	0.031670153	0.1454848
Los Angele	2026 Annual	LDA	LDA	0	0	5.107838706	1.25E-04	0	0	1.25E-04	1.96E-04	9.02E-04



Los Angele	2025 Annual	LDT1	0.033044503	0.00160182	0	6.18E-04	0.002219751	0.001369927	0.010788172	0.01437785	0.002979574
Los Angele	2025 Annual	LDT1	7.02E-05	5.42E-06	0	0	5.42E-06	2.88E-06	2.26E-05	3.09E-05	4.36E-06
Los Angele	2025 Annual	LDT1	0.034934472	0.001694238	0	6.36E-04	0.002330628	0.001449053	0.011411296	0.015190977	0.003151937
Los Angele	2025 Annual	LDT1	6.09E-05	4.49E-06	0	0	4.49E-06	2.50E-06	1.97E-05	2.67E-05	3.80E-06
Los Angele	2025 Annual	LDT1	0.038275063	0.001857501	0	6.75E-04	0.002532829	0.001588614	0.012510335	0.016631777	0.003455831
Los Angele	2025 Annual	LDT1	4.84E-05	3.38E-06	0	0	3.38E-06	2.00E-06	1.57E-05	2.11E-05	3.03E-06
Los Angele	2025 Annual	LDT1	0.040983215	0.001990536	0	6.95E-04	0.002685493	0.001702295	0.01340557	0.017793357	0.00370384
Los Angele	2025 Annual	LDT1	4.22E-05	2.78E-06	0	0	2.78E-06	1.75E-06	1.38E-05	1.83E-05	2.65E-06
Los Angele	2025 Annual	LDT1	0.043927669	0.002135403	0	7.10E-04	0.002845401	0.001826188	0.01438123	0.019052818	0.003974124
Los Angele	2025 Annual	LDT1	5.91E-05	3.65E-06	0	0	3.65E-06	2.47E-06	1.94E-05	2.55E-05	3.74E-06
Los Angele	2025 Annual	LDT1	0.048842776	0.002377053	0	7.40E-04	0.003117104	0.00203277	0.016008062	0.021157936	0.004424722
Los Angele	2025 Annual	LDT1	7.50E-05	4.29E-06	0	0	4.29E-06	3.14E-06	2.47E-05	3.22E-05	4.76E-06
Los Angele	2025 Annual	LDT1	0.05439646	0.002651696	0	7.44E-04	0.003395436	0.002267572	0.017857132	0.02352014	0.004936965
Los Angele	2025 Annual	LDT1	9.60E-05	5.03E-06	0	0	5.03E-06	4.04E-06	3.18E-05	4.09E-05	6.13E-06
Los Angele	2025 Annual	T6 instate heavy	0.004281147	0.001300549	4.82E-06	0	0.001305364	6.03E-05	0.001123272	0.002488963	2.16E-04
Los Angele	2025 Annual	T6 instate heavy	0.005360848	0.001603066	5.00E-06	0	0.001608069	7.61E-05	0.001417867	0.003102084	2.72E-04
Los Angele	2025 Annual	T6 instate heavy	0.003416375	0.001002416	2.88E-06	0	0.001005292	4.90E-05	9.12E-04	0.001966168	1.75E-04
Los Angele	2025 Annual	T6 instate heavy	0.004530047	0.001097541	4.26E-06	0	0.001101806	7.02E-05	0.001307782	0.002479823	2.50E-04
Los Angele	2025 Annual	T6 instate heavy	0.007859353	0.00186172	7.65E-06	0	0.001869366	1.23E-04	0.002286922	0.004279109	4.38E-04
Los Angele	2025 Annual	T6 instate heavy	0.014210458	0.003282726	1.46E-05	0	0.00329735	2.24E-04	0.004170224	0.007691539	7.99E-04
Los Angele	2025 Annual	T6 instate heavy	0.008250988	0.001854057	7.09E-06	0	0.001861143	1.31E-04	0.002444123	0.004436529	4.68E-04
Los Angele	2025 Annual	T6 instate heavy	0.010126089	0.002205511	1.00E-05	0	0.002215539	1.63E-04	0.003028815	0.005407019	5.80E-04
Los Angele	2025 Annual	T6 instate heavy	0.006180375	0.001300524	3.99E-06	0	0.001304515	1.00E-04	0.001868969	0.003273858	3.58E-04
Los Angele	2025 Annual	T6 instate heavy	0.007772276	0.001572564	4.78E-06	0	0.001577346	1.28E-04	0.002377315	0.004082336	4.55E-04
Los Angele	2025 Annual	T6 instate heavy	0.008967888	0.001735551	5.29E-06	0	0.001740837	1.49E-04	0.002776782	0.004666748	5.32E-04
Los Angele	2025 Annual	T6 instate heavy	0.009133858	0.001680567	5.20E-06	0	0.001685771	1.54E-04	0.002865404	0.004705064	5.49E-04
Los Angele	2025 Annual	T6 instate heavy	0.009420274	0.001636516	5.25E-06	0	0.001641771	1.61E-04	0.002996575	0.004799279	5.74E-04
Los Angele	2025 Annual	T6 instate heavy	0.009877174	0.001607762	5.49E-06	0	0.001613247	1.71E-04	0.003188048	0.004972512	6.10E-04
Los Angele	2025 Annual	T6 instate heavy	0.010601683	0.001603876	6.00E-06	0	0.001609877	1.87E-04	0.003473813	0.005270253	6.65E-04
Los Angele	2025 Annual	T6 instate heavy	0.009446508	0.001317718	5.43E-06	0	0.001323147	1.69E-04	0.003142784	0.004634716	6.02E-04
Los Angele	2025 Annual	T6 instate heavy	9.75E-04	1.24E-04	1.36E-06	0	1.25E-04	1.77E-05	3.29E-04	4.72E-04	6.30E-05
Los Angele	2025 Annual	LDA/LDT1	6.563983806	0.270639653	0	0.100163379	0.370803032	0.275500541	2.169566812	2.815870385	0.522489534
Los Angele	2025 Annual	T6 instate heavy	0.130410211	0.026786689	9.91388E-05	0	0.026885827	0.002132636	0.039709689	0.068728153	0.007605053

EMFAC 2011

2026 Estimated Annual Emissions

EMFAC 2011 Vehicle Categories

Los Angeles COUNTY

South Coast AIR BASIN

South Coast AQMD

Area	CalYr	Season	Veh	PM10_TOTAL (Tons/day)	PM2_5_RUNEX (Tons/day)	PM2_5_IDLEX (Tons/day)	PM2_5_STREX (Tons/day)	PM2_5_TOTEX (Tons/day)	PM2_5_PMTW (Tons/day)	PM2_5_PMBW (Tons/day)	PM2_5_TOTAL (Tons/day)	SOX_RUNEX (Tons/day)
Los Angele	2026 Annual	LDA		0.056931586	3.40E-04	0	5.43E-05	3.94E-04	0.00252544	0.019887839	0.022807487	0.004712296
Los Angele	2026 Annual	LDA		0	0	0	0	0	0	0	0	0
Los Angele	2026 Annual	LDA		0.070658218	4.22E-04	0	8.63E-05	5.08E-04	0.003133427	0.024675744	0.028317409	0.005847668
Los Angele	2026 Annual	LDA		1.78E-05	1.81E-06	0	0	1.81E-06	7.06E-07	5.56E-06	8.07E-06	1.07E-06
Los Angele	2026 Annual	LDA		0.073571198	5.86E-04	0	1.40E-04	7.26E-04	0.003253144	0.025618516	0.029597301	0.006087737
Los Angele	2026 Annual	LDA		6.26E-04	6.30E-05	0	0	6.30E-05	2.49E-05	1.96E-04	2.84E-04	3.78E-05
Los Angele	2026 Annual	LDA		0.111361041	8.86E-04	0	2.57E-04	0.001142953	0.004921974	0.038760554	0.044825481	0.009209489
Los Angele	2026 Annual	LDA		0.001234958	1.23E-04	0	0	1.23E-04	4.92E-05	3.88E-04	5.60E-04	7.46E-05
Los Angele	2026 Annual	LDA		0.130724196	0.001550489	0	5.49E-04	0.002099086	0.005741312	0.045212846	0.053053244	0.010742695
Los Angele	2026 Annual	LDA		0.001230768	1.20E-04	0	0	1.20E-04	4.92E-05	3.87E-04	5.57E-04	7.45E-05
Los Angele	2026 Annual	LDA		0.159407672	0.002505817	0	9.20E-04	0.003425619	0.006959354	0.054804917	0.06518989	0.013021035
Los Angele	2026 Annual	LDA		0.001222505	1.17E-04	0	0	1.17E-04	4.89E-05	3.85E-04	5.52E-04	7.42E-05
Los Angele	2026 Annual	LDA		0.183835822	0.00427612	0	0.001922624	0.006198744	0.007917538	0.06235062	0.076466902	0.014813025
Los Angele	2026 Annual	LDA		0.001224124	1.15E-04	0	0	1.15E-04	4.91E-05	3.87E-04	5.51E-04	7.44E-05

Los Angele	2025 Annual	LDT1	0	1.08E-04	0.003087393	32.93153	0	1.06E-04	1.71E-03	1.46E-04	7.70E-06	9.87E-05	7.14E-06	3.91E-05	9.94E-06
Los Angele	2025 Annual	LDT1	0	0	4.36E-06	0	0.041081078	1.75E-05	1.63E-04	5.45E-04	9.03E-06	9.87E-05	8.31E-06	3.91E-05	6.68E-06
Los Angele	2025 Annual	LDT1	0	1.11E-04	0.003262836	34.80289	0	9.26E-05	1.59E-03	1.35E-04	7.64E-06	9.87E-05	7.09E-06	3.91E-05	9.93E-06
Los Angele	2025 Annual	LDT1	0	0	3.80E-06	0	0.035785999	1.65E-05	1.54E-04	5.18E-04	8.59E-06	9.87E-05	7.90E-06	3.91E-05	6.68E-06
Los Angele	2025 Annual	LDT1	0	1.17E-04	0.003573274	38.11416	0	7.98E-05	1.39E-03	1.27E-04	7.58E-06	9.87E-05	7.03E-06	3.91E-05	9.92E-06
Los Angele	2025 Annual	LDT1	0	0	3.03E-06	0	0.028533455	1.55E-05	1.44E-04	4.89E-04	8.12E-06	9.87E-05	7.47E-06	3.91E-05	6.68E-06
Los Angele	2025 Annual	LDT1	0	1.21E-04	0.003824536	40.79424	0	7.00E-05	1.26E-03	1.17E-04	7.50E-06	9.87E-05	6.96E-06	3.91E-05	9.91E-06
Los Angele	2025 Annual	LDT1	0	0	2.65E-06	0	0.025007099	1.45E-05	1.34E-04	4.60E-04	7.63E-06	9.87E-05	7.02E-06	3.91E-05	6.68E-06
Los Angele	2025 Annual	LDT1	0	1.23E-04	0.004097318	43.70385	0	6.23E-05	1.16E-03	1.08E-04	7.40E-06	9.87E-05	6.87E-06	3.91E-05	9.89E-06
Los Angele	2025 Annual	LDT1	0	0	3.74E-06	0	0.035227571	1.34E-05	1.24E-04	4.28E-04	7.10E-06	9.87E-05	6.53E-06	3.91E-05	6.68E-06
Los Angele	2025 Annual	LDT1	0	1.28E-04	0.004553029	48.56466	0	5.48E-05	1.08E-03	9.88E-05	7.29E-06	9.87E-05	6.76E-06	3.91E-05	9.88E-06
Los Angele	2025 Annual	LDT1	0	0	4.76E-06	0	0.044902056	1.22E-05	1.12E-04	3.94E-04	6.55E-06	9.87E-05	6.02E-06	3.91E-05	6.68E-06
Los Angele	2025 Annual	LDT1	0	1.29E-04	0.005065824	54.03437	0	4.67E-05	9.97E-04	8.96E-05	7.12E-06	9.87E-05	6.60E-06	3.91E-05	9.85E-06
Los Angele	2025 Annual	LDT1	0	0	6.13E-06	0	0.057787944	1.10E-05	1.00E-04	3.58E-04	5.96E-06	9.87E-05	5.48E-06	3.91E-05	6.68E-06
Los Angele	2025 Annual	T6 instate heavy	4.23E-06	0	2.20E-04	0	2.073514975	3.33E-04	1.49E-03	4.75E-03	1.56E-04	3.14E-04	1.43E-04	1.30E-04	2.41E-05
Los Angele	2025 Annual	T6 instate heavy	4.39E-06	0	2.77E-04	0	2.608421908	3.24E-04	1.44E-03	4.36E-03	1.52E-04	3.14E-04	1.40E-04	1.30E-04	2.40E-05
Los Angele	2025 Annual	T6 instate heavy	2.52E-06	0	1.78E-04	0	1.674776018	3.16E-04	1.39E-03	3.87E-03	1.48E-04	3.14E-04	1.36E-04	1.30E-04	2.40E-05
Los Angele	2025 Annual	T6 instate heavy	3.74E-06	0	2.54E-04	0	2.397556121	2.51E-04	1.12E-03	3.19E-03	1.13E-04	3.14E-04	1.04E-04	1.30E-04	2.39E-05
Los Angele	2025 Annual	T6 instate heavy	6.71E-06	0	4.45E-04	0	4.194175336	2.45E-04	1.10E-03	3.09E-03	1.09E-04	3.14E-04	1.01E-04	1.30E-04	2.39E-05
Los Angele	2025 Annual	T6 instate heavy	1.28E-05	0	8.11E-04	0	7.65376157	2.40E-04	1.08E-03	2.99E-03	1.06E-04	3.14E-04	9.74E-05	1.30E-04	2.40E-05
Los Angele	2025 Annual	T6 instate heavy	6.22E-06	0	4.74E-04	0	4.473493251	2.31E-04	1.03E-03	2.83E-03	1.02E-04	3.14E-04	9.38E-05	1.30E-04	2.39E-05
Los Angele	2025 Annual	T6 instate heavy	8.80E-06	0	5.89E-04	0	5.55397582	2.26E-04	1.02E-03	2.73E-03	9.79E-05	3.14E-04	9.01E-05	1.30E-04	2.39E-05
Los Angele	2025 Annual	T6 instate heavy	3.50E-06	0	3.61E-04	0	3.408963133	2.14E-04	9.44E-04	2.53E-03	9.34E-05	3.14E-04	8.60E-05	1.30E-04	2.38E-05
Los Angele	2025 Annual	T6 instate heavy	4.20E-06	0	4.59E-04	0	4.333745824	2.06E-04	9.07E-04	2.38E-03	8.88E-05	3.14E-04	8.17E-05	1.30E-04	2.38E-05
Los Angele	2025 Annual	T6 instate heavy	4.64E-06	0	5.36E-04	0	5.059476136	1.97E-04	8.68E-04	2.22E-03	8.39E-05	3.14E-04	7.72E-05	1.30E-04	2.38E-05
Los Angele	2025 Annual	T6 instate heavy	4.57E-06	0	5.53E-04	0	5.218875835	1.88E-04	8.28E-04	2.06E-03	7.88E-05	3.14E-04	7.25E-05	1.30E-04	2.38E-05
Los Angele	2025 Annual	T6 instate heavy	4.61E-06	0	5.78E-04	0	5.456228803	1.79E-04	7.87E-04	1.89E-03	7.33E-05	3.14E-04	6.75E-05	1.30E-04	2.38E-05
Los Angele	2025 Annual	T6 instate heavy	4.81E-06	0	6.15E-04	0	5.803998393	1.69E-04	7.46E-04	1.72E-03	6.77E-05	3.14E-04	6.23E-05	1.30E-04	2.38E-05
Los Angele	2025 Annual	T6 instate heavy	5.27E-06	0	6.70E-04	0	6.324450079	1.59E-04	7.05E-04	1.54E-03	6.20E-05	3.14E-04	5.71E-05	1.30E-04	2.38E-05
Los Angele	2025 Annual	T6 instate heavy	4.76E-06	0	6.07E-04	0	5.721767601	1.50E-04	6.65E-04	1.37E-03	5.64E-05	3.14E-04	5.18E-05	1.30E-04	2.38E-05
Los Angele	2025 Annual	T6 instate heavy	1.19E-06	0	6.42E-05	0	0.605717283	1.47E-04	7.15E-04	1.33E-03	5.10E-05	3.14E-04	4.69E-05	1.30E-04	2.40E-05
Los Angele	2025 Annual	LDA/LDT1	0	0.019610103	0.542099637	5768.393866	12.27282608	1.31E-04	1.59E-03	1.35E-04	6.40E-06	9.87E-05	5.93E-06	3.91E-05	8.68E-06
Los Angele	2025 Annual	T6 instate heavy	8.69908E-05	0	0.007692044	0	72.56289808	2.11E-04	9.40E-04	2.46E-03	9.06E-05	3.14E-04	8.34E-05	1.30E-04	2.39E-05

EMFAC 2011

2026 Estimated Annual Emissions

EMFAC 2011 Vehicle Categories

Los Angeles COUNTY

South Coast AIR BASIN

South Coast AQMD

Area	CalYr	Season	Veh	SOX_IDLEX (Tons/day)	SOX_STREX (Tons/day)	SOX_TOTEX (Tons/day)	FUEL_GAS (1000 Gallons)	FUEL_DSL (1000 Gallons)	exhaust ROG lb/mile	exhaust CO lb/mile	exhaust NOx lb/mile	exhaust PM10 lb/mile	tire wear a PM10 lb/mile	exhaust PM2.5 lb/mile	tire wear a PM2.5 lb/mile	SOx lb/mile
Los Angele	2026 Annual	LDA		0	2.49E-04	0.004960889	52.9151	0	3.98E-04	2.47E-03	1.60E-04	7.42E-07	9.87E-05	6.88E-07	3.91E-05	8.66E-06
Los Angele	2026 Annual	LDA		0	0	0	0	0	0	0	0	0	0	0	0	0
Los Angele	2026 Annual	LDA		0	3.03E-04	0.006150795	65.60715	0	3.61E-04	2.25E-03	1.56E-04	7.71E-07	9.87E-05	7.15E-07	3.91E-05	8.66E-06
Los Angele	2026 Annual	LDA		0	0	1.07E-06	0	0.010083305	2.05E-05	1.93E-04	6.18E-04	1.23E-05	9.87E-05	1.13E-05	3.91E-05	6.68E-06
Los Angele	2026 Annual	LDA		0	3.11E-04	0.006398859	68.25312	0	3.33E-04	2.22E-03	1.63E-04	1.06E-06	9.87E-05	9.84E-07	3.91E-05	8.67E-06
Los Angele	2026 Annual	LDA		0	0	3.78E-05	0	0.3561874	2.02E-05	1.91E-04	6.10E-04	1.21E-05	9.87E-05	1.11E-05	3.91E-05	6.68E-06
Los Angele	2026 Annual	LDA		0	4.63E-04	0.009672019	103.1661	0	3.05E-04	2.16E-03	1.69E-04	1.10E-06	9.87E-05	1.02E-06	3.91E-05	8.66E-06
Los Angele	2026 Annual	LDA		0	0	7.46E-05	0	0.7036004	1.99E-05	1.88E-04	6.01E-04	1.19E-05	9.87E-05	1.10E-05	3.91E-05	6.68E-06
Los Angele	2026 Annual	LDA		0	5.30E-04	0.011272905	120.2419	0	2.79E-04	2.14E-03	1.68E-04	1.74E-06	9.87E-05	1.61E-06	3.91E-05	8.66E-06
Los Angele	2026 Annual	LDA		0	0	7.45E-05	0	0.7024605	1.96E-05	1.84E-04	5.91E-04	1.17E-05	9.87E-05	1.08E-05	3.91E-05	6.68E-06
Los Angele	2026 Annual	LDA		0	6.32E-04	0.013652841	145.6274	0	2.53E-04	2.12E-03	1.67E-04	2.34E-06	9.87E-05	2.17E-06	3.91E-05	8.65E-06
Los Angele	2026 Annual	LDA		0	0	7.42E-05	0	0.6991416	1.92E-05	1.81E-04	5.80E-04	1.15E-05	9.87E-05	1.06E-05	3.91E-05	6.68E-06
Los Angele	2026 Annual	LDA		0	7.05E-04	0.01551779	165.5198	0	2.36E-04	2.09E-03	1.66E-04	3.72E-06	9.87E-05	3.45E-06	3.91E-05	8.64E-06
Los Angele	2026 Annual	LDA		0	0	7.44E-05	0	0.7016263	1.87E-05	1.76E-04	5.68E-04	1.13E-05	9.87E-05	1.04E-05	3.91E-05	6.68E-06

Los Angele	2025 Annual	LDT1	2.93E-04
Los Angele	2025 Annual	LDT1	2.07E-04
Los Angele	2025 Annual	LDT1	2.93E-04
Los Angele	2025 Annual	LDT1	2.07E-04
Los Angele	2025 Annual	LDT1	2.93E-04
Los Angele	2025 Annual	LDT1	2.07E-04
Los Angele	2025 Annual	LDT1	2.93E-04
Los Angele	2025 Annual	LDT1	2.07E-04
Los Angele	2025 Annual	LDT1	2.92E-04
Los Angele	2025 Annual	LDT1	2.07E-04
Los Angele	2025 Annual	LDT1	2.92E-04
Los Angele	2025 Annual	LDT1	2.07E-04
Los Angele	2025 Annual	LDT1	2.91E-04
Los Angele	2025 Annual	LDT1	2.07E-04
Los Angele	2025 Annual	T6 instate heavy	1.14E-03
Los Angele	2025 Annual	T6 instate heavy	1.13E-03
Los Angele	2025 Annual	T6 instate heavy	1.13E-03
Los Angele	2025 Annual	T6 instate heavy	1.13E-03
Los Angele	2025 Annual	T6 instate heavy	1.13E-03
Los Angele	2025 Annual	T6 instate heavy	1.13E-03
Los Angele	2025 Annual	T6 instate heavy	1.13E-03
Los Angele	2025 Annual	T6 instate heavy	1.13E-03
Los Angele	2025 Annual	T6 instate heavy	1.12E-03
Los Angele	2025 Annual	T6 instate heavy	1.12E-03
Los Angele	2025 Annual	T6 instate heavy	1.12E-03
Los Angele	2025 Annual	T6 instate heavy	1.12E-03
Los Angele	2025 Annual	T6 instate heavy	1.12E-03
Los Angele	2025 Annual	T6 instate heavy	1.12E-03
Los Angele	2025 Annual	T6 instate heavy	1.12E-03
Los Angele	2025 Annual	T6 instate heavy	1.12E-03
Los Angele	2025 Annual	T6 instate heavy	1.12E-03
Los Angele	2025 Annual	T6 instate heavy	1.12E-03
Los Angele	2025 Annual	T6 instate heavy	1.12E-03
Los Angele	2025 Annual	T6 instate heavy	1.12E-03
Los Angele	2025 Annual	T6 instate heavy	1.12E-03
Los Angele	2025 Annual	LDA/LDT1	2.72E-04
Los Angele	2025 Annual	T6 instate heavy	1.13E-03

EMFAC 2011

2026 Estimated Annual Emissions

EMFAC 2011 Vehicle Categories

Los Angeles COUNTY

South Coast AIR BASIN

South Coast AQMD

Area	CalYr	Season	Veh	exhaust CO2 ton/mile
Los Angele	2026 Annual	LDA		3.89E-04
Los Angele	2026 Annual	LDA		
Los Angele	2026 Annual	LDA		3.88E-04
Los Angele	2026 Annual	LDA		3.15E-04
Los Angele	2026 Annual	LDA		3.89E-04
Los Angele	2026 Annual	LDA		3.15E-04
Los Angele	2026 Annual	LDA		3.75E-04
Los Angele	2026 Annual	LDA		3.04E-04
Los Angele	2026 Annual	LDA		3.33E-04
Los Angele	2026 Annual	LDA		2.70E-04
Los Angele	2026 Annual	LDA		2.90E-04
Los Angele	2026 Annual	LDA		2.35E-04
Los Angele	2026 Annual	LDA		2.82E-04
Los Angele	2026 Annual	LDA		2.29E-04

Los Angele	2026 Annual	LDA	GAS	2014 AllSpeeds	153359.3	4142961.641	953799.4	0.056669474	0	0.056973055	0.113642529
Los Angele	2026 Annual	LDA	DSL	2014 AllSpeeds	770.9927	20828.21814	4795.095	1.90E-04	0	0	1.90E-04
Los Angele	2026 Annual	LDA	GAS	2015 AllSpeeds	170500.7	4739688.763	1067228	0.063804123	0	0.062821001	0.126625124
Los Angele	2026 Annual	LDA	DSL	2015 AllSpeeds	754.4641	20973.1393	4722.473	1.86E-04	0	0	1.86E-04
Los Angele	2026 Annual	LDA	GAS	2016 AllSpeeds	183417.6	5254715.815	1157250	0.06952851	0	0.06702055	0.13654906
Los Angele	2026 Annual	LDA	DSL	2016 AllSpeeds	679.8691	19477.56938	4289.545	1.67E-04	0	0	1.67E-04
Los Angele	2026 Annual	LDA	GAS	2017 AllSpeeds	197603.2	5845640.583	1254655	0.075751065	0	0.071238205	0.14698927
Los Angele	2026 Annual	LDA	DSL	2017 AllSpeeds	679.7104	20107.74086	4315.729	1.67E-04	0	0	1.67E-04
Los Angele	2026 Annual	LDA	GAS	2018 AllSpeeds	208370.4	6379160.672	1331354	0.08078239	0	0.073924638	0.154707028
Los Angele	2026 Annual	LDA	DSL	2018 AllSpeeds	643.4762	19699.78639	4111.402	1.57E-04	0	0	1.57E-04
Los Angele	2026 Annual	LDA	GAS	2019 AllSpeeds	219637.6	6977952.574	1409932	0.085987853	0	0.076221012	0.162208865
Los Angele	2026 Annual	LDA	DSL	2019 AllSpeeds	653.5639	20764.00114	4195.461	1.59E-04	0	0	1.59E-04
Los Angele	2026 Annual	LDA	GAS	2020 AllSpeeds	227201.8	7514255.073	1463034	0.089827484	0	0.076758489	0.166585973
Los Angele	2026 Annual	LDA	DSL	2020 AllSpeeds	590.3914	19526.1042	3801.74	1.43E-04	0	0	1.43E-04
Los Angele	2026 Annual	LDA	GAS	2021 AllSpeeds	222775	7704294.919	1441210	0.087329608	0	0.072233759	0.159563367
Los Angele	2026 Annual	LDA	DSL	2021 AllSpeeds	524.0139	18122.18948	3390.031	1.25E-04	0	0	1.25E-04
Los Angele	2026 Annual	LDA	GAS	2022 AllSpeeds	228345.9	8304341.579	1481816	0.0845521	0	0.068455607	0.153007707
Los Angele	2026 Annual	LDA	DSL	2022 AllSpeeds	502.7906	18285.24043	3262.784	1.19E-04	0	0	1.19E-04
Los Angele	2026 Annual	LDA	GAS	2023 AllSpeeds	231906.9	8939818.751	1507244	0.084876098	0	0.065324023	0.150200121
Los Angele	2026 Annual	LDA	DSL	2023 AllSpeeds	505.5036	19486.81202	3285.445	1.19E-04	0	0	1.19E-04
Los Angele	2026 Annual	LDA	GAS	2024 AllSpeeds	235976.7	9761197.489	1538414	0.087777316	0	0.062806673	0.150583989
Los Angele	2026 Annual	LDA	DSL	2024 AllSpeeds	537.333	22226.89933	3503.061	1.25E-04	0	0	1.25E-04
Los Angele	2026 Annual	LDA	GAS	2025 AllSpeeds	240387.1	1.09E+07	1571974	0.091934859	0	0.059632055	0.151566914
Los Angele	2026 Annual	LDA	DSL	2025 AllSpeeds	550.0977	24938.12475	3597.279	1.29E-04	0	0	1.29E-04
Los Angele	2026 Annual	LDA	GAS	2026 AllSpeeds	240933.4	1.26E+07	1580365	0.096723684	0	0.053912599	0.150636283
Los Angele	2026 Annual	LDA	DSL	2026 AllSpeeds	580.7744	30270.8675	3809.499	1.40E-04	0	0	1.40E-04
Los Angele	2026 Annual	LDT1	GAS	2007 AllSpeeds	5585.583	157090.685	33007.5	0.00244166	0	0.002334874	0.004776535
Los Angele	2026 Annual	LDT1	DSL	2007 AllSpeeds	0	0	0	0	0	0	0
Los Angele	2026 Annual	LDT1	GAS	2008 AllSpeeds	12064.45	343893.0879	71776.3	0.004973118	0	0.004541713	0.009514831
Los Angele	2026 Annual	LDT1	DSL	2008 AllSpeeds	0	0	0	0	0	0	0
Los Angele	2026 Annual	LDT1	GAS	2009 AllSpeeds	11394.33	329358.4639	68359.12	0.00482845	0	0.004362364	0.009190814
Los Angele	2026 Annual	LDT1	DSL	2009 AllSpeeds	0	0	0	0	0	0	0
Los Angele	2026 Annual	LDT1	GAS	2010 AllSpeeds	13008.58	381530.2507	78563.94	0.00566188	0	0.005044519	0.010706399
Los Angele	2026 Annual	LDT1	DSL	2010 AllSpeeds	19.83517	581.7498706	119.7924	6.96E-06	0	0	6.96E-06
Los Angele	2026 Annual	LDT1	GAS	2011 AllSpeeds	12939.75	385328.6376	78665.8	0.005648494	0	0.004997665	0.010646159
Los Angele	2026 Annual	LDT1	DSL	2011 AllSpeeds	29.59689	881.3593877	179.9311	1.04E-05	0	0	1.04E-05
Los Angele	2026 Annual	LDT1	GAS	2012 AllSpeeds	12925.98	391028.8539	79228.33	0.005654808	0	0.004974074	0.010628882
Los Angele	2026 Annual	LDT1	DSL	2012 AllSpeeds	22.49541	680.5200418	137.8831	7.83E-06	0	0	7.83E-06
Los Angele	2026 Annual	LDT1	GAS	2013 AllSpeeds	13639.14	419560.7392	84145.07	0.005977277	0	0.005212658	0.011189935
Los Angele	2026 Annual	LDT1	DSL	2013 AllSpeeds	30.3302	933.0072569	187.1186	1.05E-05	0	0	1.05E-05
Los Angele	2026 Annual	LDT1	GAS	2014 AllSpeeds	14284.04	447261.5554	88837.88	0.006268812	0	0.005422677	0.011691489
Los Angele	2026 Annual	LDT1	DSL	2014 AllSpeeds	29.72393	930.7187649	184.8643	1.02E-05	0	0	1.02E-05
Los Angele	2026 Annual	LDT1	GAS	2015 AllSpeeds	15347.44	489670.9112	96065.36	0.006740931	0	0.005767509	0.01250844
Los Angele	2026 Annual	LDT1	DSL	2015 AllSpeeds	30.96013	987.8101068	193.791	1.05E-05	0	0	1.05E-05
Los Angele	2026 Annual	LDT1	GAS	2016 AllSpeeds	15798.6	514174.0562	99679.22	0.006937906	0	0.005873807	0.012811713
Los Angele	2026 Annual	LDT1	DSL	2016 AllSpeeds	39.62792	1289.718963	250.0272	1.33E-05	0	0	1.33E-05
Los Angele	2026 Annual	LDT1	GAS	2017 AllSpeeds	16410.16	545665.1923	104194.1	0.007194333	0	0.006007121	0.013201454
Los Angele	2026 Annual	LDT1	DSL	2017 AllSpeeds	27.90549	927.9088123	177.1821	9.24E-06	0	0	9.24E-06
Los Angele	2026 Annual	LDT1	GAS	2018 AllSpeeds	16732.24	569443.2648	106908.3	0.007312849	0	0.006010521	0.01332337
Los Angele	2026 Annual	LDT1	DSL	2018 AllSpeeds	30.04791	1022.617838	191.9869	9.80E-06	0	0	9.80E-06
Los Angele	2026 Annual	LDT1	GAS	2019 AllSpeeds	16966.99	592250.5824	108917.2	0.007387313	0	0.005950578	0.013337891
Los Angele	2026 Annual	LDT1	DSL	2019 AllSpeeds	35.57789	1241.890686	228.3873	1.14E-05	0	0	1.14E-05
Los Angele	2026 Annual	LDT1	GAS	2020 AllSpeeds	17410.04	624875.7038	112109.4	0.007539357	0	0.005928279	0.013467636
Los Angele	2026 Annual	LDT1	DSL	2020 AllSpeeds	30.51805	1095.351189	196.5166	9.56E-06	0	0	9.56E-06
Los Angele	2026 Annual	LDT1	GAS	2021 AllSpeeds	18458.17	683562.6627	119412.4	0.007796845	0	0.006015623	0.013812468
Los Angele	2026 Annual	LDT1	DSL	2021 AllSpeeds	22.91409	848.5843211	148.2394	7.01E-06	0	0	7.01E-06

Los Angele	2026 Annual	LDA	0.020618564	0.076176874	0.2177909	0.024558429	0.452787296	0.10546906	0	0.060829643	0.166298703
Los Angele	2026 Annual	LDA	0	0	0	0	1.90E-04	2.16E-04	0	0	2.16E-04
Los Angele	2026 Annual	LDA	0.020191124	0.073201716	0.2276952	0.023640556	0.47135372	0.118747547	0	0.067073457	0.185821004
Los Angele	2026 Annual	LDA	0	0	0	0	1.86E-04	2.12E-04	0	0	2.12E-04
Los Angele	2026 Annual	LDA	0.019473512	0.069232211	0.232614	0.022385068	0.480253851	0.129401362	0	0.071557283	0.200958645
Los Angele	2026 Annual	LDA	0	0	0	0	1.67E-04	1.91E-04	0	0	1.91E-04
Los Angele	2026 Annual	LDA	0.018557053	0.064057745	0.2366619	0.020835577	0.487101545	0.140982316	0	0.076060429	0.217042745
Los Angele	2026 Annual	LDA	0	0	0	0	1.67E-04	1.90E-04	0	0	1.90E-04
Los Angele	2026 Annual	LDA	0.016558746	0.054482982	0.2321209	0.017953796	0.475823452	0.150346256	0	0.078928716	0.229274972
Los Angele	2026 Annual	LDA	0	0	0	0	1.57E-04	1.79E-04	0	0	1.79E-04
Los Angele	2026 Annual	LDA	0.014783776	0.045543894	0.2222561	0.015407991	0.460200626	0.160034267	0	0.081380524	0.241414791
Los Angele	2026 Annual	LDA	0	0	0	0	1.59E-04	1.81E-04	0	0	1.81E-04
Los Angele	2026 Annual	LDA	0.01238481	0.03419951	0.192084	0.01231512	0.417569413	0.167180323	0	0.08195439	0.249134713
Los Angele	2026 Annual	LDA	0	0	0	0	1.43E-04	1.62E-04	0	0	1.62E-04
Los Angele	2026 Annual	LDA	0.010099909	0.024437828	0.173689	0.00930403	0.377094134	0.162531452	0	0.077123374	0.239654826
Los Angele	2026 Annual	LDA	0	0	0	0	1.25E-04	1.43E-04	0	0	1.43E-04
Los Angele	2026 Annual	LDA	0.008884331	0.018420296	0.1658621	0.007545929	0.353720364	0.157362168	0	0.073089473	0.230451641
Los Angele	2026 Annual	LDA	0	0	0	0	1.19E-04	1.36E-04	0	0	1.36E-04
Los Angele	2026 Annual	LDA	0.007998967	0.014026196	0.1583056	0.006275202	0.336806085	0.157965157	0	0.069745913	0.22771107
Los Angele	2026 Annual	LDA	0	0	0	0	1.19E-04	1.35E-04	0	0	1.35E-04
Los Angele	2026 Annual	LDA	0.007433868	0.011044175	0.1527528	0.005428782	0.327243613	0.163364689	0	0.067058153	0.230422842
Los Angele	2026 Annual	LDA	0	0	0	0	1.25E-04	1.43E-04	0	0	1.43E-04
Los Angele	2026 Annual	LDA	0.007091041	0.009032389	0.1486893	0.004876994	0.321256638	0.171102412	0	0.063668646	0.234771058
Los Angele	2026 Annual	LDA	0	0	0	0	1.29E-04	1.46E-04	0	0	1.46E-04
Los Angele	2026 Annual	LDA	0.006785817	0.007565271	0.1430674	0.00445217	0.312506941	0.180015018	0	0.05756202	0.237577038
Los Angele	2026 Annual	LDA	0	0	0	0	1.40E-04	1.59E-04	0	0	1.59E-04
Los Angele	2026 Annual	LDT1	0.002019062	0.006015832	0.019610677	0.002562318	0.034984423	0.004544239	0	0.002492926	0.007037165
Los Angele	2026 Annual	LDT1	0	0	0	0	0	0	0	0	0
Los Angele	2026 Annual	LDT1	0.003957584	0.01178067	0.038633142	0.004993424	0.06887965	0.009255602	0	0.004849149	0.014104751
Los Angele	2026 Annual	LDT1	0	0	0	0	0	0	0	0	0
Los Angele	2026 Annual	LDT1	0.003356917	0.00998232	0.032985412	0.004205616	0.059721078	0.008986356	0	0.004657659	0.013644015
Los Angele	2026 Annual	LDT1	0	0	0	0	0	0	0	0	0
Los Angele	2026 Annual	LDT1	0.003440959	0.010192994	0.034075122	0.004277047	0.062692521	0.010537476	0	0.00538599	0.015923466
Los Angele	2026 Annual	LDT1	0	0	0	0	6.96E-06	7.92E-06	0	0	7.92E-06
Los Angele	2026 Annual	LDT1	0.003057993	0.009006851	0.030592052	0.003766035	0.057069091	0.010512563	0	0.005335965	0.015848529
Los Angele	2026 Annual	LDT1	0	0	0	0	1.04E-05	1.18E-05	0	0	1.18E-05
Los Angele	2026 Annual	LDT1	0.002683779	0.007846104	0.027223514	0.00326669	0.051648969	0.010524313	0	0.005310778	0.015835091
Los Angele	2026 Annual	LDT1	0	0	0	0	7.83E-06	8.92E-06	0	0	8.92E-06
Los Angele	2026 Annual	LDT1	0.002607216	0.007570391	0.02700476	0.003142377	0.051514678	0.011124469	0	0.005565511	0.01668898
Los Angele	2026 Annual	LDT1	0	0	0	0	1.05E-05	1.20E-05	0	0	1.20E-05
Los Angele	2026 Annual	LDT1	0.002495493	0.007188201	0.026494937	0.002972334	0.050842454	0.011667053	0	0.005789746	0.017456799
Los Angele	2026 Annual	LDT1	0	0	0	0	1.02E-05	1.16E-05	0	0	1.16E-05
Los Angele	2026 Annual	LDT1	0.0023615	0.006688501	0.02575103	0.002764935	0.050074406	0.012545726	0	0.00615792	0.018703647
Los Angele	2026 Annual	LDT1	0	0	0	0	1.05E-05	1.20E-05	0	0	1.20E-05
Los Angele	2026 Annual	LDT1	0.002179426	0.006066854	0.02456421	0.002505281	0.048127484	0.012912322	0	0.006271413	0.019183735
Los Angele	2026 Annual	LDT1	0	0	0	0	1.33E-05	1.52E-05	0	0	1.52E-05
Los Angele	2026 Annual	LDT1	0.002002436	0.005428439	0.023394253	0.002248307	0.046274888	0.013389563	0	0.006413753	0.019803315
Los Angele	2026 Annual	LDT1	0	0	0	0	9.24E-06	1.05E-05	0	0	1.05E-05
Los Angele	2026 Annual	LDT1	0.001727586	0.004484823	0.021165041	0.001873134	0.042573954	0.013610136	0	0.006417382	0.020027518
Los Angele	2026 Annual	LDT1	0	0	0	0	9.80E-06	1.12E-05	0	0	1.12E-05
Los Angele	2026 Annual	LDT1	0.001483903	0.003625871	0.018470813	0.001546558	0.038465036	0.013748724	0	0.006353382	0.020102106
Los Angele	2026 Annual	LDT1	0	0	0	0	1.14E-05	1.30E-05	0	0	1.30E-05
Los Angele	2026 Annual	LDT1	0.001233033	0.002716253	0.014408081	0.001226095	0.033051098	0.014031698	0	0.006329574	0.020361272
Los Angele	2026 Annual	LDT1	0	0	0	0	9.56E-06	1.09E-05	0	0	1.09E-05
Los Angele	2026 Annual	LDT1	0.001087293	0.002127178	0.013605845	0.001001614	0.031634398	0.014510915	0	0.00642283	0.020933745
Los Angele	2026 Annual	LDT1	0	0	0	0	7.01E-06	7.98E-06	0	0	7.98E-06

Los Angele	2026 Annual	LDA	0.020618564	0.076176874	0.2177909	0.024558429	0.50544347	3.259224395	0	1.016925	4.276149395
Los Angele	2026 Annual	LDA	0	0	0	0	2.16E-04	0.001788924	0	0	0.001788924
Los Angele	2026 Annual	LDA	0.020191124	0.073201716	0.2276952	0.023640556	0.5305496	3.679037955	0	1.120552	4.799589955
Los Angele	2026 Annual	LDA	0	0	0	0	2.12E-04	0.001749649	0	0	0.001749649
Los Angele	2026 Annual	LDA	0.019473512	0.069232211	0.232614	0.022385068	0.5444663436	4.012074685	0	1.192159	5.204233685
Los Angele	2026 Annual	LDA	0	0	0	0	1.91E-04	0.001573567	0	0	0.001573567
Los Angele	2026 Annual	LDA	0.018557053	0.064057745	0.2366619	0.020835577	0.55715502	4.380428805	0	1.26465	5.645078805
Los Angele	2026 Annual	LDA	0	0	0	0	1.90E-04	0.001567862	0	0	0.001567862
Los Angele	2026 Annual	LDA	0.016558746	0.054482982	0.2321209	0.017953796	0.550391396	4.66807998	0	1.304946	5.97302598
Los Angele	2026 Annual	LDA	0	0	0	0	1.79E-04	0.001477658	0	0	0.001477658
Los Angele	2026 Annual	LDA	0.014783776	0.045543894	0.2222561	0.015407991	0.539406552	4.966511654	0	1.336	6.302511654
Los Angele	2026 Annual	LDA	0	0	0	0	1.81E-04	0.001492145	0	0	0.001492145
Los Angele	2026 Annual	LDA	0.01238481	0.03419951	0.192084	0.01231512	0.500118153	5.14679367	0	1.323848	6.47064167
Los Angele	2026 Annual	LDA	0	0	0	0	1.62E-04	0.001337971	0	0	0.001337971
Los Angele	2026 Annual	LDA	0.010099909	0.024437828	0.173689	0.00930403	0.457185593	4.942429157	0	1.206044	6.148473157
Los Angele	2026 Annual	LDA	0	0	0	0	1.43E-04	0.001174788	0	0	0.001174788
Los Angele	2026 Annual	LDA	0.008884331	0.018420296	0.1658621	0.007545929	0.431164298	4.747580499	0	1.07573	5.823310499
Los Angele	2026 Annual	LDA	0	0	0	0	1.36E-04	0.001114685	0	0	0.001114685
Los Angele	2026 Annual	LDA	0.007998967	0.014026196	0.1583056	0.006275202	0.414317034	4.688343604	0	0.9829544	5.671298004
Los Angele	2026 Annual	LDA	0	0	0	0	1.35E-04	0.001108732	0	0	0.001108732
Los Angele	2026 Annual	LDA	0.007433868	0.011044175	0.1527528	0.005428782	0.407082467	4.782766695	0	0.9244674	5.707234095
Los Angele	2026 Annual	LDA	0	0	0	0	1.43E-04	0.001168875	0	0	0.001168875
Los Angele	2026 Annual	LDA	0.007091041	0.009032389	0.1486893	0.004876994	0.404460782	5.009205676	0	0.8781187	5.887324376
Los Angele	2026 Annual	LDA	0	0	0	0	1.46E-04	0.001196166	0	0	0.001196166
Los Angele	2026 Annual	LDA	0.006785817	0.007565271	0.1430674	0.00445217	0.399447696	5.426753621	0	0.8280351	6.254788721
Los Angele	2026 Annual	LDA	0	0	0	0	1.59E-04	0.001297546	0	0	0.001297546
Los Angele	2026 Annual	LDT1	0.002019062	0.006015832	0.019610677	0.002562318	0.037245053	0.150013143	0	0.045045506	0.195058649
Los Angele	2026 Annual	LDT1	0	0	0	0	0	0	0	0	0
Los Angele	2026 Annual	LDT1	0.003957584	0.01178067	0.038633142	0.004993424	0.07346957	0.300476636	0	0.087324381	0.387801017
Los Angele	2026 Annual	LDT1	0	0	0	0	0	0	0	0	0
Los Angele	2026 Annual	LDT1	0.003356917	0.00998232	0.032985412	0.004205616	0.064174279	0.28363083	0	0.081238315	0.364869145
Los Angele	2026 Annual	LDT1	0	0	0	0	0	0	0	0	0
Los Angele	2026 Annual	LDT1	0.003440959	0.010192994	0.034075122	0.004277047	0.067909588	0.322087213	0	0.090530999	0.412618212
Los Angele	2026 Annual	LDT1	0	0	0	0	7.92E-06	6.54E-05	0	0	6.54E-05
Los Angele	2026 Annual	LDT1	0.003057993	0.009006851	0.030592052	0.003766035	0.06227146	0.322550721	0	0.089862421	0.412413142
Los Angele	2026 Annual	LDT1	0	0	0	0	1.18E-05	9.72E-05	0	0	9.72E-05
Los Angele	2026 Annual	LDT1	0.002683779	0.007846104	0.027223514	0.00326669	0.056855178	0.324382169	0	0.08967109	0.414053259
Los Angele	2026 Annual	LDT1	0	0	0	0	8.92E-06	7.35E-05	0	0	7.35E-05
Los Angele	2026 Annual	LDT1	0.002607216	0.007570391	0.02700476	0.003142377	0.057014723	0.343928176	0	0.094026506	0.437954682
Los Angele	2026 Annual	LDT1	0	0	0	0	1.20E-05	9.85E-05	0	0	9.85E-05
Los Angele	2026 Annual	LDT1	0.002495493	0.007188201	0.026494937	0.002972334	0.056607764	0.361870734	0	0.097861655	0.459732389
Los Angele	2026 Annual	LDT1	0	0	0	0	1.16E-05	9.57E-05	0	0	9.57E-05
Los Angele	2026 Annual	LDT1	0.0023615	0.006688501	0.02575103	0.002764935	0.056269613	0.390300774	0	0.1040917	0.494392474
Los Angele	2026 Annual	LDT1	0	0	0	0	1.20E-05	9.86E-05	0	0	9.86E-05
Los Angele	2026 Annual	LDT1	0.002179426	0.006066854	0.02456421	0.002505281	0.054499506	0.401874059	0	0.1056416	0.507515659
Los Angele	2026 Annual	LDT1	0	0	0	0	1.52E-05	1.25E-04	0	0	1.25E-04
Los Angele	2026 Annual	LDT1	0.002002436	0.005428439	0.023394253	0.002248307	0.05287675	0.41673382	0	0.1075247	0.52425852
Los Angele	2026 Annual	LDT1	0	0	0	0	1.05E-05	8.65E-05	0	0	8.65E-05
Los Angele	2026 Annual	LDT1	0.001727586	0.004484823	0.021165041	0.001873134	0.049278102	0.423685903	0	0.1070204	0.530706303
Los Angele	2026 Annual	LDT1	0	0	0	0	1.12E-05	9.15E-05	0	0	9.15E-05
Los Angele	2026 Annual	LDT1	0.001483903	0.003625871	0.018470813	0.001546558	0.045229252	0.426993839	0	0.1049567	0.531950539
Los Angele	2026 Annual	LDT1	0	0	0	0	1.30E-05	1.06E-04	0	0	1.06E-04
Los Angele	2026 Annual	LDT1	0.001233033	0.002716253	0.014408081	0.001226095	0.039944733	0.432054135	0	0.1027624	0.534816535
Los Angele	2026 Annual	LDT1	0	0	0	0	1.09E-05	8.91E-05	0	0	8.91E-05
Los Angele	2026 Annual	LDT1	0.001087293	0.002127178	0.013605845	0.001001614	0.038755675	0.441085733	0	0.1008083	0.541894033
Los Angele	2026 Annual	LDT1	0	0	0	0	7.98E-06	6.52E-05	0	0	6.52E-05

Los Angele	2026 Annual	LDA	0.279563772	0	0.061289474	0.340853246	1706.431317	0	78.11183	1784.543147	1093.481188
Los Angele	2026 Annual	LDA	0.005771765	0	0	0.005771765	7.290169763	0	0	7.290169763	4.671540784
Los Angele	2026 Annual	LDA	0.318102994	0	0.06801784	0.386120834	1952.102093	0	87.39598	2039.498073	1199.957156
Los Angele	2026 Annual	LDA	0.005659325	0	0	0.005659325	7.340894295	0	0	7.340894295	4.512447723
Los Angele	2026 Annual	LDA	0.350216639	0	0.072977334	0.423193973	2164.08961	0	94.76208	2258.85169	1279.626186
Los Angele	2026 Annual	LDA	0.005104365	0	0	0.005104365	6.817424587	0	0	6.817424587	4.031143159
Los Angele	2026 Annual	LDA	0.386087958	0	0.078032292	0.46412025	2407.386981	0	102.7353	2510.122281	1423.487922
Los Angele	2026 Annual	LDA	0.005102473	0	0	0.005102473	7.037993633	0	0	7.037993633	4.161565635
Los Angele	2026 Annual	LDA	0.41637882	0	0.081320465	0.497699285	2626.961678	0	109.0097	2735.971378	1553.32244
Los Angele	2026 Annual	LDA	0.004826667	0	0	0.004826667	6.895203514	0	0	6.895203514	4.077133838
Los Angele	2026 Annual	LDA	0.448300947	0	0.084038354	0.532339301	2874.341668	0	115.4394	2989.781068	1699.598228
Los Angele	2026 Annual	LDA	0.004894641	0	0	0.004894641	7.267693069	0	0	7.267693069	4.297386912
Los Angele	2026 Annual	LDA	0.467845003	0	0.083328567	0.55117357	3096.206436	0	119.7866	3215.993036	1830.786865
Los Angele	2026 Annual	LDA	0.004410426	0	0	0.004410426	6.834412177	0	0	6.834412177	4.04118792
Los Angele	2026 Annual	LDA	0.449787454	0	0.075091213	0.524878667	3175.586226	0	118.0028	3293.589026	1877.724135
Los Angele	2026 Annual	LDA	0.003895693	0	0	0.003895693	6.343023374	0	0	6.343023374	3.750629721
Los Angele	2026 Annual	LDA	0.460221235	0	0.071182929	0.531404164	3424.001756	0	121.3282	3545.329956	2024.612238
Los Angele	2026 Annual	LDA	0.003722235	0	0	0.003722235	6.400091823	0	0	6.400091823	3.784374295
Los Angele	2026 Annual	LDA	0.460280537	0	0.064275235	0.524555772	3687.185279	0	123.4106	3810.595879	2180.232655
Los Angele	2026 Annual	LDA	0.003733159	0	0	0.003733159	6.82066037	0	0	6.82066037	4.033056477
Los Angele	2026 Annual	LDA	0.470324442	0	0.058326472	0.528650914	4027.172762	0	125.9614	4153.134162	2381.267254
Los Angele	2026 Annual	LDA	0.003975566	0	0	0.003975566	7.779729124	0	0	7.779729124	4.600153831
Los Angele	2026 Annual	LDA	0.488773065	0	0.052036375	0.54080944	4497.447791	0	128.7092	4626.156991	2659.340879
Los Angele	2026 Annual	LDA	0.004120364	0	0	0.004120364	8.728696889	0	0	8.728696889	5.161278471
Los Angele	2026 Annual	LDA	0.519410579	0	0.044353765	0.563764344	5184.391285	0	129.4012	5313.792485	3065.530567
Los Angele	2026 Annual	LDA	0.004545907	0	0	0.004545907	10.59523253	0	0	10.59523253	6.264960994
Los Angele	2026 Annual	LDT1	0.010339364	0	0.002048276	0.01238764	75.27121028	0	3.146407	78.41761728	67.74408925
Los Angele	2026 Annual	LDT1	0	0	0	0	0	0	0	0	0
Los Angele	2026 Annual	LDT1	0.02204512	0	0.00429118	0.0263363	164.6325946	0	6.835898	171.4684926	148.1693351
Los Angele	2026 Annual	LDT1	0	0	0	0	0	0	0	0	0
Los Angele	2026 Annual	LDT1	0.021976057	0	0.004327036	0.026303093	157.9439994	0	6.521632	164.4656314	142.1495995
Los Angele	2026 Annual	LDT1	0	0	0	0	0	0	0	0	0
Los Angele	2026 Annual	LDT1	0.026511299	0	0.00527003	0.031781329	182.8501621	0	7.490554	190.3407161	158.8053658
Los Angele	2026 Annual	LDT1	2.13E-04	0	0	2.13E-04	0.203620696	0	0	0.203620696	0.176844574
Los Angele	2026 Annual	LDT1	0.026715197	0	0.005261861	0.031977058	184.6511702	0	7.499472	192.1506422	142.2552615
Los Angele	2026 Annual	LDT1	3.17E-04	0	0	3.17E-04	0.308488269	0	0	0.308488269	0.237659362
Los Angele	2026 Annual	LDT1	0.027031501	0	0.005276577	0.032308078	187.3689187	0	7.552543	194.9214617	125.968124
Los Angele	2026 Annual	LDT1	2.40E-04	0	0	2.40E-04	0.238191661	0	0	0.238191661	0.160136254
Los Angele	2026 Annual	LDT1	0.0288942	0	0.005572587	0.034466787	201.0156289	0	8.020241	209.0358699	131.70544
Los Angele	2026 Annual	LDT1	3.22E-04	0	0	3.22E-04	0.326565685	0	0	0.326565685	0.213965837
Los Angele	2026 Annual	LDT1	0.030656497	0	0.005841784	0.036498281	214.2779634	0	8.467159	222.7451224	137.309319
Los Angele	2026 Annual	LDT1	3.13E-04	0	0	3.13E-04	0.325764748	0	0	0.325764748	0.20875005
Los Angele	2026 Annual	LDT1	0.03335561	0	0.006258617	0.039614227	234.561535	0	9.154666	243.716201	144.1849755
Los Angele	2026 Annual	LDT1	3.24E-04	0	0	3.24E-04	0.345747503	0	0	0.345747503	0.21253099
Los Angele	2026 Annual	LDT1	0.034753292	0	0.006418175	0.041171467	246.2854012	0	9.498528	255.7839292	145.6285577
Los Angele	2026 Annual	LDT1	4.10E-04	0	0	4.10E-04	0.451419844	0	0	0.451419844	0.266924554
Los Angele	2026 Annual	LDT1	0.036509425	0	0.006606199	0.043115623	261.3685992	0	9.928727	271.2973262	154.5472527
Los Angele	2026 Annual	LDT1	2.86E-04	0	0	2.86E-04	0.324781215	0	0	0.324781215	0.192043132
Los Angele	2026 Annual	LDT1	0.037594868	0	0.006642259	0.044237128	272.720288	0	10.18595	282.906238	161.2595063
Los Angele	2026 Annual	LDT1	3.04E-04	0	0	3.04E-04	0.357930684	0	0	0.357930684	0.211644413
Los Angele	2026 Annual	LDT1	0.038395559	0	0.00658143	0.044976989	283.73693	0	10.37763	294.11456	167.7736467
Los Angele	2026 Annual	LDT1	3.54E-04	0	0	3.54E-04	0.434679244	0	0	0.434679244	0.257025837
Los Angele	2026 Annual	LDT1	0.03915512	0	0.006449288	0.045604408	299.4396469	0	10.68113	310.1207769	177.0586632
Los Angele	2026 Annual	LDT1	2.99E-04	0	0	2.99E-04	0.383388386	0	0	0.383388386	0.226697553
Los Angele	2026 Annual	LDT1	0.039959813	0	0.006239954	0.046199766	327.6773826	0	11.37746	339.0548426	193.7556363
Los Angele	2026 Annual	LDT1	2.20E-04	0	0	2.20E-04	0.297016505	0	0	0.297016505	0.175625859

Los Angele	2026 Annual	LDA	0	50.05406066	1143.535249	0.007088612	0	0.003317994	0.010406606	0.036534674	0.1678312
Los Angele	2026 Annual	LDA	0	0	4.671540784	1.15E-04	0	0	1.15E-04	1.84E-04	8.44E-04
Los Angele	2026 Annual	LDA	0	53.72230891	1253.679465	0.010136428	0	0.004781071	0.014917498	0.0417969	0.1920045
Los Angele	2026 Annual	LDA	0	0	4.512447723	1.12E-04	0	0	1.12E-04	1.85E-04	8.50E-04
Los Angele	2026 Annual	LDA	0	56.0328179	1335.659004	0.012922768	0	0.006049317	0.018972084	0.046338666	0.2128683
Los Angele	2026 Annual	LDA	0	0	4.031143159	1.01E-04	0	0	1.01E-04	1.72E-04	7.89E-04
Los Angele	2026 Annual	LDA	0	60.74738289	1484.235305	0.015625659	0	0.007169916	0.022795575	0.051549725	0.2368066
Los Angele	2026 Annual	LDA	0	0	4.161565635	1.01E-04	0	0	1.01E-04	1.77E-04	8.15E-04
Los Angele	2026 Annual	LDA	0	64.45743561	1617.779876	0.017732889	0	0.007934918	0.025667806	0.056254573	0.2584195
Los Angele	2026 Annual	LDA	0	0	4.077133838	9.58E-05	0	0	9.58E-05	1.74E-04	7.98E-04
Los Angele	2026 Annual	LDA	0	68.25931722	1767.857545	0.019396721	0	0.00842709	0.027823811	0.061535023	0.2826765
Los Angele	2026 Annual	LDA	0	0	4.297386912	9.72E-05	0	0	9.72E-05	1.83E-04	8.41E-04
Los Angele	2026 Annual	LDA	0	70.82981658	1901.616682	0.020887385	0	0.008744434	0.029631819	0.066264391	0.3044021
Los Angele	2026 Annual	LDA	0	0	4.04118792	8.76E-05	0	0	8.76E-05	1.72E-04	7.91E-04
Los Angele	2026 Annual	LDA	0	69.77505564	1947.499191	0.021416196	0	0.008614223	0.030030419	0.067940257	0.3121006
Los Angele	2026 Annual	LDA	0	0	3.750629721	7.74E-05	0	0	7.74E-05	1.60E-04	7.34E-04
Los Angele	2026 Annual	LDA	0	71.74136466	2096.353603	0.023084298	0	0.008856971	0.031941269	0.073231764	0.3364085
Los Angele	2026 Annual	LDA	0	0	3.784374295	7.40E-05	0	0	7.40E-05	1.61E-04	7.41E-04
Los Angele	2026 Annual	LDA	0	72.97268778	2253.205343	0.024850896	0	0.009008991	0.033859887	0.078835718	0.3621516
Los Angele	2026 Annual	LDA	0	0	4.033056477	7.42E-05	0	0	7.42E-05	1.72E-04	7.89E-04
Los Angele	2026 Annual	LDA	0	74.48097582	2455.74823	0.027133871	0	0.009195203	0.036329074	0.086079039	0.3954255
Los Angele	2026 Annual	LDA	0	0	4.600153831	7.91E-05	0	0	7.91E-05	1.96E-04	9.00E-04
Los Angele	2026 Annual	LDA	0	76.10574996	2735.446629	0.030292985	0	0.009395787	0.039688772	0.096101008	0.4414641
Los Angele	2026 Annual	LDA	0	0	5.161278471	8.20E-05	0	0	8.20E-05	2.20E-04	0.001010242
Los Angele	2026 Annual	LDA	0	76.51492956	3142.045497	0.034909064	0	0.009446304	0.044355369	0.1107407	0.3857151
Los Angele	2026 Annual	LDA	0	0	6.264960994	9.05E-05	0	0	9.05E-05	2.67E-04	0.001226271
Los Angele	2026 Annual	LDT1	0	2.8317663	70.57585555	5.04E-05	0	6.52E-06	5.69E-05	0.001385303	0.006363736
Los Angele	2026 Annual	LDT1	0	0	0	0	0	0	0	0	0
Los Angele	2026 Annual	LDT1	0	6.1523082	154.3216433	1.10E-04	0	1.84E-05	1.29E-04	0.003032618	0.01393109
Los Angele	2026 Annual	LDT1	0	0	0	0	0	0	0	0	0
Los Angele	2026 Annual	LDT1	0	5.8694688	148.0190683	1.41E-04	0	2.78E-05	1.69E-04	0.002904444	0.013342292
Los Angele	2026 Annual	LDT1	0	0	0	0	0	0	0	0	0
Los Angele	2026 Annual	LDT1	0	6.505546149	165.3109119	1.63E-04	0	3.93E-05	2.03E-04	0.003364521	0.015455769
Los Angele	2026 Annual	LDT1	0	0	0.176844574	3.52E-06	0	0	3.52E-06	5.13E-06	2.36E-05
Los Angele	2026 Annual	LDT1	0	5.777593229	148.0328548	2.47E-04	0	7.34E-05	3.21E-04	0.003398017	0.015609644
Los Angele	2026 Annual	LDT1	0	0	0.237659362	5.24E-06	0	0	5.24E-06	7.77E-06	3.57E-05
Los Angele	2026 Annual	LDT1	0	5.077574659	131.0456987	3.34E-04	0	1.04E-04	4.38E-04	0.003448285	0.015840558
Los Angele	2026 Annual	LDT1	0	0	0.160136254	3.97E-06	0	0	3.97E-06	6.00E-06	2.76E-05
Los Angele	2026 Annual	LDT1	0	5.254861903	136.9603019	5.38E-04	0	2.07E-04	7.45E-04	0.003699893	0.016996386
Los Angele	2026 Annual	LDT1	0	0	0.213965837	5.33E-06	0	0	5.33E-06	8.23E-06	3.78E-05
Los Angele	2026 Annual	LDT1	0	5.425755487	142.7350745	7.65E-04	0	3.09E-04	0.001073845	0.003944171	0.01811854
Los Angele	2026 Annual	LDT1	0	0	0.20875005	5.19E-06	0	0	5.19E-06	8.21E-06	3.77E-05
Los Angele	2026 Annual	LDT1	0	5.62737319	149.8123487	0.001046682	0	4.30E-04	0.001476821	0.004318159	0.019836545
Los Angele	2026 Annual	LDT1	0	0	0.21253099	5.36E-06	0	0	5.36E-06	8.71E-06	4.00E-05
Los Angele	2026 Annual	LDT1	0	5.616479606	151.2450373	0.001263847	0	5.21E-04	0.001784635	0.004534239	0.020829163
Los Angele	2026 Annual	LDT1	0	0	0.266924554	6.79E-06	0	0	6.79E-06	1.14E-05	5.22E-05
Los Angele	2026 Annual	LDT1	0	5.870856275	160.418109	0.001457879	0	5.95E-04	0.002053021	0.004811943	0.022104867
Los Angele	2026 Annual	LDT1	0	0	0.192043132	4.73E-06	0	0	4.73E-06	8.18E-06	3.76E-05
Los Angele	2026 Annual	LDT1	0	6.022952235	167.2824586	0.001582044	0	6.37E-04	0.002218857	0.00502163	0.023068117
Los Angele	2026 Annual	LDT1	0	0	0.211644413	5.03E-06	0	0	5.03E-06	9.02E-06	4.14E-05
Los Angele	2026 Annual	LDT1	0	6.136292619	173.9099393	0.001645453	0	6.51E-04	0.002296113	0.005222756	0.023992045
Los Angele	2026 Annual	LDT1	0	0	0.257025837	5.86E-06	0	0	5.86E-06	1.10E-05	5.03E-05
Los Angele	2026 Annual	LDT1	0	6.315752169	183.3744154	0.00173599	0	6.70E-04	0.00240568	0.005510462	0.025313685
Los Angele	2026 Annual	LDT1	0	0	0.226697553	4.95E-06	0	0	4.95E-06	9.66E-06	4.44E-05
Los Angele	2026 Annual	LDT1	0	6.727492098	200.4831284	0.001899121	0	7.13E-04	0.00261247	0.006027991	0.027691089
Los Angele	2026 Annual	LDT1	0	0	0.175625859	3.64E-06	0	0	3.64E-06	7.48E-06	3.44E-05



Los Angele	2026 Annual	LDA	0.21477248	0.006577063	0	0.003078551	0.009655613	0.009133669	0.071927637	0.090716919	0.017087348
Los Angele	2026 Annual	LDA	0.001141954	1.05E-04	0	0	1.05E-04	4.59E-05	3.62E-04	5.13E-04	6.96E-05
Los Angele	2026 Annual	LDA	0.248718898	0.009404933	0	0.004436046	0.013840979	0.010449225	0.082287654	0.106577858	0.01954654
Los Angele	2026 Annual	LDA	0.001146883	1.03E-04	0	0	1.03E-04	4.62E-05	3.64E-04	5.14E-04	7.01E-05
Los Angele	2026 Annual	LDA	0.27817905	0.011990196	0	0.005612768	0.017602964	0.011584667	0.091229253	0.120416884	0.021668084
Los Angele	2026 Annual	LDA	0.001062108	9.32E-05	0	0	9.32E-05	4.29E-05	3.38E-04	4.74E-04	6.51E-05
Los Angele	2026 Annual	LDA	0.3111519	0.014498034	0	0.006652499	0.021150533	0.012887431	0.1014885	0.135526464	0.024102727
Los Angele	2026 Annual	LDA	0.001093169	9.32E-05	0	0	9.32E-05	4.43E-05	3.49E-04	4.87E-04	6.72E-05
Los Angele	2026 Annual	LDA	0.340341879	0.016453196	0	0.007362295	0.02381549	0.014063643	0.1107512	0.148630333	0.026299253
Los Angele	2026 Annual	LDA	0.001067585	8.82E-05	0	0	8.82E-05	4.34E-05	3.42E-04	4.74E-04	6.58E-05
Los Angele	2026 Annual	LDA	0.372035334	0.017996956	0	0.00781895	0.025815906	0.015383756	0.1211471	0.162346762	0.0287735
Los Angele	2026 Annual	LDA	0.001121447	8.94E-05	0	0	8.94E-05	4.58E-05	3.60E-04	4.96E-04	6.94E-05
Los Angele	2026 Annual	LDA	0.40029831	0.019380049	0	0.008113391	0.02749344	0.016566098	0.130458	0.174517538	0.030991135
Los Angele	2026 Annual	LDA	0.001050786	8.06E-05	0	0	8.06E-05	4.30E-05	3.39E-04	4.63E-04	6.52E-05
Los Angele	2026 Annual	LDA	0.410071276	0.019870697	0	0.007992579	0.027863276	0.016985064	0.1337574	0.17860574	0.031780139
Los Angele	2026 Annual	LDA	9.71E-04	7.12E-05	0	0	7.12E-05	4.00E-05	3.15E-04	4.26E-04	6.06E-05
Los Angele	2026 Annual	LDA	0.441581533	0.021418424	0	0.008217806	0.02963623	0.018307941	0.1441751	0.192119271	0.034256559
Los Angele	2026 Annual	LDA	9.76E-04	6.80E-05	0	0	6.80E-05	4.03E-05	3.17E-04	4.26E-04	6.11E-05
Los Angele	2026 Annual	LDA	0.474847205	0.023057534	0	0.008358858	0.031416391	0.01970893	0.1552078	0.206333121	0.036882691
Los Angele	2026 Annual	LDA	0.00103546	6.83E-05	0	0	6.83E-05	4.30E-05	3.38E-04	4.50E-04	6.51E-05
Los Angele	2026 Annual	LDA	0.517833613	0.025175756	0	0.008531629	0.033707385	0.02151976	0.1694681	0.224695245	0.040277999
Los Angele	2026 Annual	LDA	0.001175474	7.27E-05	0	0	7.27E-05	4.90E-05	3.86E-04	5.08E-04	7.43E-05
Los Angele	2026 Annual	LDA	0.57725388	0.028106892	0	0.00871774	0.036824632	0.024025252	0.1891989	0.250048784	0.044975944
Los Angele	2026 Annual	LDA	0.001312134	7.54E-05	0	0	7.54E-05	5.50E-05	4.33E-04	5.63E-04	8.33E-05
Los Angele	2026 Annual	LDA	0.663811169	0.032389854	0	0.008764613	0.041154467	0.027685173	0.2180208	0.28686044	0.051839657
Los Angele	2026 Annual	LDA	0.001583715	8.33E-05	0	0	8.33E-05	6.67E-05	5.26E-04	6.76E-04	1.01E-04
Los Angele	2026 Annual	LDT1	0.007805944	4.67E-05	0	6.05E-06	5.28E-05	3.46E-04	0.002727315	0.003126438	7.54E-04
Los Angele	2026 Annual	LDT1	0	0	0	0	0	0	0	0	0
Los Angele	2026 Annual	LDT1	0.017092325	1.02E-04	0	1.71E-05	1.19E-04	7.58E-04	0.005970468	0.006847958	0.001648303
Los Angele	2026 Annual	LDT1	0	0	0	0	0	0	0	0	0
Los Angele	2026 Annual	LDT1	0.016415453	1.31E-04	0	2.58E-05	1.57E-04	7.26E-04	0.005718125	0.006600777	0.001581267
Los Angele	2026 Annual	LDT1	0	0	0	0	0	0	0	0	0
Los Angele	2026 Annual	LDT1	0.019022812	1.51E-04	0	3.65E-05	1.88E-04	8.41E-04	0.006623901	0.007652937	0.001830522
Los Angele	2026 Annual	LDT1	3.22E-05	3.24E-06	0	0	3.24E-06	1.28E-06	1.01E-05	1.46E-05	1.94E-06
Los Angele	2026 Annual	LDT1	0.019328227	2.29E-04	0	6.81E-05	2.97E-04	8.50E-04	0.006689847	0.007836783	0.001848506
Los Angele	2026 Annual	LDT1	4.87E-05	4.82E-06	0	0	4.82E-06	1.94E-06	1.53E-05	2.21E-05	2.95E-06
Los Angele	2026 Annual	LDT1	0.019727234	3.10E-04	0	9.65E-05	4.07E-04	8.62E-04	0.006788811	0.008057637	0.001875663
Los Angele	2026 Annual	LDT1	3.75E-05	3.65E-06	0	0	3.65E-06	1.50E-06	1.18E-05	1.70E-05	2.27E-06
Los Angele	2026 Annual	LDT1	0.02144129	4.99E-04	0	1.92E-04	6.91E-04	9.25E-04	0.007284165	0.008900386	0.002012205
Los Angele	2026 Annual	LDT1	5.14E-05	4.90E-06	0	0	4.90E-06	2.06E-06	1.62E-05	2.32E-05	3.12E-06
Los Angele	2026 Annual	LDT1	0.023136556	7.10E-04	0	2.87E-04	9.96E-04	9.86E-04	0.007765089	0.009747482	0.002144883
Los Angele	2026 Annual	LDT1	5.11E-05	4.77E-06	0	0	4.77E-06	2.05E-06	1.62E-05	2.30E-05	3.11E-06
Los Angele	2026 Annual	LDT1	0.025631525	9.71E-04	0	3.99E-04	0.001370246	0.00107954	0.008501374	0.01095116	0.00234782
Los Angele	2026 Annual	LDT1	5.41E-05	4.93E-06	0	0	4.93E-06	2.18E-06	1.71E-05	2.43E-05	3.30E-06
Los Angele	2026 Annual	LDT1	0.027148037	0.001172641	0	4.83E-04	0.001655847	0.00113356	0.008926786	0.011716192	0.002465037
Los Angele	2026 Annual	LDT1	7.04E-05	6.25E-06	0	0	6.25E-06	2.84E-06	2.24E-05	3.15E-05	4.31E-06
Los Angele	2026 Annual	LDT1	0.028969831	0.001352671	0	5.52E-04	0.001904865	0.001202986	0.009473514	0.012581364	0.002615841
Los Angele	2026 Annual	LDT1	5.05E-05	4.35E-06	0	0	4.35E-06	2.05E-06	1.61E-05	2.25E-05	3.10E-06
Los Angele	2026 Annual	LDT1	0.030308604	0.001467876	0	5.91E-04	0.002058733	0.001255408	0.009886336	0.013200477	0.002729266
Los Angele	2026 Annual	LDT1	5.55E-05	4.63E-06	0	0	4.63E-06	2.25E-06	1.78E-05	2.46E-05	3.42E-06
Los Angele	2026 Annual	LDT1	0.031510914	0.001526709	0	6.04E-04	0.002130415	0.001305689	0.010282303	0.013718407	0.002839287
Los Angele	2026 Annual	LDT1	6.71E-05	5.40E-06	0	0	5.40E-06	2.74E-06	2.16E-05	2.97E-05	4.15E-06
Los Angele	2026 Annual	LDT1	0.033229826	0.001610712	0	6.21E-04	0.00232074	0.001377615	0.010848722	0.014458411	0.002996116
Los Angele	2026 Annual	LDT1	5.90E-05	4.55E-06	0	0	4.55E-06	2.41E-06	1.90E-05	2.60E-05	3.66E-06
Los Angele	2026 Annual	LDT1	0.03633155	0.001762071	0	6.62E-04	0.002423941	0.001506998	0.011867609	0.015798548	0.003278134
Los Angele	2026 Annual	LDT1	4.55E-05	3.35E-06	0	0	3.35E-06	1.87E-06	1.47E-05	2.00E-05	2.84E-06

Los Angele	2026 Annual	LDA	0	7.97E-04	0.017884803	190.7674	0	2.19E-04	2.06E-03	1.65E-04	5.02E-06	9.87E-05	4.66E-06	3.91E-05	8.63E-06
Los Angele	2026 Annual	LDA	0	0	6.96E-05	0	0.6561155	1.83E-05	1.72E-04	5.54E-04	1.10E-05	9.87E-05	1.01E-05	3.91E-05	6.68E-06
Los Angele	2026 Annual	LDA	0	8.92E-04	0.020438478	218.0061	0	1.99E-04	2.03E-03	1.63E-04	6.29E-06	9.87E-05	5.84E-06	3.91E-05	8.62E-06
Los Angele	2026 Annual	LDA	0	0	7.01E-05	0	0.6606806	1.77E-05	1.67E-04	5.40E-04	1.07E-05	9.87E-05	9.85E-06	3.91E-05	6.68E-06
Los Angele	2026 Annual	LDA	0	9.67E-04	0.022634806	241.4331	0	1.83E-04	1.98E-03	1.61E-04	7.22E-06	9.87E-05	6.70E-06	3.91E-05	8.62E-06
Los Angele	2026 Annual	LDA	0	0	6.51E-05	0	0.6135682	1.72E-05	1.62E-04	5.24E-04	1.04E-05	9.87E-05	9.57E-06	3.91E-05	6.68E-06
Los Angele	2026 Annual	LDA	0	0.00104758	0.025150307	268.2646	0	1.67E-04	1.93E-03	1.59E-04	7.80E-06	9.87E-05	7.24E-06	3.91E-05	8.60E-06
Los Angele	2026 Annual	LDA	0	0	6.72E-05	0	0.6334195	1.66E-05	1.56E-04	5.08E-04	1.01E-05	9.87E-05	9.27E-06	3.91E-05	6.68E-06
Los Angele	2026 Annual	LDA	0	0.001110926	0.027410179	292.3694	0	1.49E-04	1.87E-03	1.56E-04	8.05E-06	9.87E-05	7.47E-06	3.91E-05	8.59E-06
Los Angele	2026 Annual	LDA	0	0	6.58E-05	0	0.6205684	1.60E-05	1.50E-04	4.90E-04	9.73E-06	9.87E-05	8.95E-06	3.91E-05	6.68E-06
Los Angele	2026 Annual	LDA	0	0.001175667	0.029949167	319.4513	0	1.32E-04	1.81E-03	1.53E-04	7.97E-06	9.87E-05	7.40E-06	3.91E-05	8.58E-06
Los Angele	2026 Annual	LDA	0	0	6.94E-05	0	0.6540924	1.53E-05	1.44E-04	4.71E-04	9.36E-06	9.87E-05	8.61E-06	3.91E-05	6.68E-06
Los Angele	2026 Annual	LDA	0	0.001218885	0.03221002	343.5667	0	1.11E-04	1.72E-03	1.47E-04	7.89E-06	9.87E-05	7.32E-06	3.91E-05	8.57E-06
Los Angele	2026 Annual	LDA	0	0	6.52E-05	0	0.6150971	1.46E-05	1.37E-04	4.52E-04	8.97E-06	9.87E-05	8.25E-06	3.91E-05	6.68E-06
Los Angele	2026 Annual	LDA	0	0.001199089	0.032979228	351.7714	0	9.79E-05	1.60E-03	1.36E-04	7.80E-06	9.87E-05	7.23E-06	3.91E-05	8.56E-06
Los Angele	2026 Annual	LDA	0	0	6.06E-05	0	0.5708721	1.38E-05	1.30E-04	4.30E-04	8.54E-06	9.87E-05	7.86E-06	3.91E-05	6.68E-06
Los Angele	2026 Annual	LDA	0	0.001230117	0.035486676	378.517	0	8.52E-05	1.40E-03	1.28E-04	7.69E-06	9.87E-05	7.14E-06	3.91E-05	8.56E-06
Los Angele	2026 Annual	LDA	0	0	6.11E-05	0	0.5760083	1.30E-05	1.22E-04	4.07E-04	8.09E-06	9.87E-05	7.44E-06	3.91E-05	6.68E-06
Los Angele	2026 Annual	LDA	0	0.001249349	0.03813204	406.7336	0	7.53E-05	1.27E-03	1.17E-04	7.58E-06	9.87E-05	7.03E-06	3.91E-05	8.53E-06
Los Angele	2026 Annual	LDA	0	0	6.51E-05	0	0.6138594	1.22E-05	1.14E-04	3.83E-04	7.62E-06	9.87E-05	7.01E-06	3.91E-05	6.68E-06
Los Angele	2026 Annual	LDA	0	0.001273814	0.041551813	443.2104	0	6.70E-05	1.17E-03	1.08E-04	7.44E-06	9.87E-05	6.91E-06	3.91E-05	8.51E-06
Los Angele	2026 Annual	LDA	0	0	7.43E-05	0	0.7001756	1.13E-05	1.05E-04	3.58E-04	7.11E-06	9.87E-05	6.54E-06	3.91E-05	6.68E-06
Los Angele	2026 Annual	LDA	0	0.001300413	0.046276357	493.6046	0	5.90E-05	1.08E-03	9.93E-05	7.28E-06	9.87E-05	6.76E-06	3.91E-05	8.49E-06
Los Angele	2026 Annual	LDA	0	0	8.33E-05	0	0.7855827	1.03E-05	9.59E-05	3.30E-04	6.57E-06	9.87E-05	6.05E-06	3.91E-05	6.68E-06
Los Angele	2026 Annual	LDA	0	0.001306353	0.05314601	566.8794	0	4.98E-05	9.96E-04	8.98E-05	7.06E-06	9.87E-05	6.55E-06	3.91E-05	8.46E-06
Los Angele	2026 Annual	LDA	0	0	1.01E-04	0	0.9535709	9.25E-06	8.57E-05	3.00E-04	5.98E-06	9.87E-05	5.50E-06	3.91E-05	6.68E-06
Los Angele	2026 Annual	LDT1	0	3.22E-05	7.86E-04	8.383943	0	4.45E-04	2.48E-03	1.58E-04	7.24E-07	9.87E-05	6.72E-07	3.91E-05	1.00E-05
Los Angele	2026 Annual	LDT1	0	0	0	0	0	0	0	0	0	0	0	0	0
Los Angele	2026 Annual	LDT1	0	6.97E-05	0.001718051	18.32551	0	4.01E-04	2.26E-03	1.53E-04	7.48E-07	9.87E-05	6.94E-07	3.91E-05	9.99E-06
Los Angele	2026 Annual	LDT1	0	0	0	0	0	0	0	0	0	0	0	0	0
Los Angele	2026 Annual	LDT1	0	6.65E-05	0.001647777	17.57594	0	3.63E-04	2.22E-03	1.60E-04	1.02E-06	9.87E-05	9.51E-07	3.91E-05	1.00E-05
Los Angele	2026 Annual	LDT1	0	0	0	0	0	0	0	0	0	0	0	0	0
Los Angele	2026 Annual	LDT1	0	7.63E-05	0.001906871	20.33955	0	3.29E-04	2.16E-03	1.67E-04	1.06E-06	9.87E-05	9.85E-07	3.91E-05	1.00E-05
Los Angele	2026 Annual	LDT1	0	0	1.94E-06	0	0.018325863	2.39E-05	2.25E-04	7.31E-04	1.21E-05	9.87E-05	1.11E-05	3.91E-05	6.68E-06
Los Angele	2026 Annual	LDT1	0	7.64E-05	0.001924932	20.53219	0	2.96E-04	2.14E-03	1.66E-04	1.66E-06	9.87E-05	1.54E-06	3.91E-05	9.99E-06
Los Angele	2026 Annual	LDT1	0	0	2.95E-06	0	0.027763944	2.35E-05	2.21E-04	7.19E-04	1.19E-05	9.87E-05	1.09E-05	3.91E-05	6.68E-06
Los Angele	2026 Annual	LDT1	0	7.70E-05	0.001952615	20.82748	0	2.64E-04	2.12E-03	1.65E-04	2.24E-06	9.87E-05	2.08E-06	3.91E-05	9.99E-06
Los Angele	2026 Annual	LDT1	0	0	2.27E-06	0	0.02143725	2.30E-05	2.16E-04	7.05E-04	1.17E-05	9.87E-05	1.07E-05	3.91E-05	6.68E-06
Los Angele	2026 Annual	LDT1	0	8.17E-05	0.002093901	22.3345	0	2.46E-04	2.09E-03	1.64E-04	3.55E-06	9.87E-05	3.30E-06	3.91E-05	9.98E-06
Los Angele	2026 Annual	LDT1	0	0	3.12E-06	0	0.029390914	2.25E-05	2.11E-04	6.90E-04	1.14E-05	9.87E-05	1.05E-05	3.91E-05	6.68E-06
Los Angele	2026 Annual	LDT1	0	8.62E-05	0.002231108	23.79801	0	2.27E-04	2.06E-03	1.63E-04	4.80E-06	9.87E-05	4.46E-06	3.91E-05	9.98E-06
Los Angele	2026 Annual	LDT1	0	0	3.11E-06	0	0.029318824	2.19E-05	2.06E-04	6.74E-04	1.11E-05	9.87E-05	1.03E-05	3.91E-05	6.68E-06
Los Angele	2026 Annual	LDT1	0	9.32E-05	0.002441016	26.03698	0	2.05E-04	2.02E-03	1.62E-04	6.03E-06	9.87E-05	5.60E-06	3.91E-05	9.97E-06
Los Angele	2026 Annual	LDT1	0	0	3.30E-06	0	0.031117275	2.13E-05	2.00E-04	6.56E-04	1.09E-05	9.87E-05	9.99E-06	3.91E-05	6.68E-06
Los Angele	2026 Annual	LDT1	0	9.67E-05	0.002561693	27.32417	0	1.87E-04	1.97E-03	1.60E-04	6.94E-06	9.87E-05	6.44E-06	3.91E-05	9.96E-06
Los Angele	2026 Annual	LDT1	0	0	4.31E-06	0	0.040627785	2.06E-05	1.93E-04	6.36E-04	1.05E-05	9.87E-05	9.69E-06	3.91E-05	6.68E-06
Los Angele	2026 Annual	LDT1	0	1.01E-04	0.002716825	28.97888	0	1.70E-04	1.92E-03	1.58E-04	7.52E-06	9.87E-05	6.98E-06	3.91E-05	9.96E-06
Los Angele	2026 Annual	LDT1	0	0	3.10E-06	0	0.02923031	1.99E-05	1.86E-04	6.16E-04	1.02E-05	9.87E-05	9.38E-06	3.91E-05	6.68E-06
Los Angele	2026 Annual	LDT1	0	1.04E-04	0.002832809	30.21603	0	1.50E-04	1.86E-03	1.55E-04	7.79E-06	9.87E-05	7.23E-06	3.91E-05	9.95E-06
Los Angele	2026 Annual	LDT1	0	0	3.42E-06	0	0.032213762	1.92E-05	1.79E-04	5.94E-04	9.84E-06	9.87E-05	9.05E-06	3.91E-05	6.68E-06
Los Angele	2026 Annual	LDT1	0	1.05E-04	0.00294471	31.40961	0	1.30E-04	1.80E-03	1.52E-04	7.75E-06	9.87E-05	7.19E-06	3.91E-05	9.94E-06
Los Angele	2026 Annual	LDT1	0	0	4.15E-06	0	0.039121132	1.83E-05	1.71E-04	5.70E-04	9.44E-06	9.87E-05	8.69E-06	3.91E-05	6.68E-06
Los Angele	2026 Annual	LDT1	0	1.08E-04	0.003104532	33.11435	0	1.06E-04	1.71E-03	1.46E-04	7.70E-06	9.87E-05	7.14E-06	3.91E-05	9.94E-06
Los Angele	2026 Annual	LDT1	0	0	3.66E-06	0	0.034504954	1.75E-05	1.63E-04	5.45E-04	9.03E-06	9.87E-05	8.31E-06	3.91E-05	6.68E-06
Los Angele	2026 Annual	LDT1	0	1.15E-04	0.003393473	36.19632	0	9.26E-05	1.59E-03	1.35E-04	7.64E-06	9.87E-05	7.09E-06	3.91E-05	9.93E-06
Los Angele	2026 Annual	LDT1	0	0	2.84E-06	0	0.026731491	1.65E-05	1.54E-04	5.18E-04	8.59E-06	9.87E-05	7.90E-06	3.91E-05	6.68E-06

Los Angele	2026 Annual	LDA	2.76E-04
Los Angele	2026 Annual	LDA	2.24E-04
Los Angele	2026 Annual	LDA	2.65E-04
Los Angele	2026 Annual	LDA	2.15E-04
Los Angele	2026 Annual	LDA	2.54E-04
Los Angele	2026 Annual	LDA	2.07E-04
Los Angele	2026 Annual	LDA	2.54E-04
Los Angele	2026 Annual	LDA	2.07E-04
Los Angele	2026 Annual	LDA	2.54E-04
Los Angele	2026 Annual	LDA	2.07E-04
Los Angele	2026 Annual	LDA	2.53E-04
Los Angele	2026 Annual	LDA	2.07E-04
Los Angele	2026 Annual	LDA	2.53E-04
Los Angele	2026 Annual	LDA	2.07E-04
Los Angele	2026 Annual	LDA	2.53E-04
Los Angele	2026 Annual	LDA	2.07E-04
Los Angele	2026 Annual	LDA	2.52E-04
Los Angele	2026 Annual	LDA	2.07E-04
Los Angele	2026 Annual	LDA	2.52E-04
Los Angele	2026 Annual	LDA	2.07E-04
Los Angele	2026 Annual	LDA	2.51E-04
Los Angele	2026 Annual	LDA	2.07E-04
Los Angele	2026 Annual	LDA	2.50E-04
Los Angele	2026 Annual	LDA	2.07E-04
Los Angele	2026 Annual	LDT1	4.49E-04
Los Angele	2026 Annual	LDT1	
Los Angele	2026 Annual	LDT1	4.49E-04
Los Angele	2026 Annual	LDT1	
Los Angele	2026 Annual	LDT1	4.49E-04
Los Angele	2026 Annual	LDT1	
Los Angele	2026 Annual	LDT1	4.33E-04
Los Angele	2026 Annual	LDT1	3.04E-04
Los Angele	2026 Annual	LDT1	3.84E-04
Los Angele	2026 Annual	LDT1	2.70E-04
Los Angele	2026 Annual	LDT1	3.35E-04
Los Angele	2026 Annual	LDT1	2.35E-04
Los Angele	2026 Annual	LDT1	3.26E-04
Los Angele	2026 Annual	LDT1	2.29E-04
Los Angele	2026 Annual	LDT1	3.19E-04
Los Angele	2026 Annual	LDT1	2.24E-04
Los Angele	2026 Annual	LDT1	3.06E-04
Los Angele	2026 Annual	LDT1	2.15E-04
Los Angele	2026 Annual	LDT1	2.94E-04
Los Angele	2026 Annual	LDT1	2.07E-04
Los Angele	2026 Annual	LDT1	2.94E-04
Los Angele	2026 Annual	LDT1	2.07E-04
Los Angele	2026 Annual	LDT1	2.94E-04
Los Angele	2026 Annual	LDT1	2.07E-04
Los Angele	2026 Annual	LDT1	2.94E-04
Los Angele	2026 Annual	LDT1	2.07E-04
Los Angele	2026 Annual	LDT1	2.93E-04
Los Angele	2026 Annual	LDT1	2.07E-04
Los Angele	2026 Annual	LDT1	2.93E-04
Los Angele	2026 Annual	LDT1	2.07E-04

Los Angele	2026 Annual	LDT1	GAS	2022 AllSpeeds	18980.79	728464.5675	123173	0.007414523	0	0.005690476	0.013104999
Los Angele	2026 Annual	LDT1	DSL	2022 AllSpeeds	19.83228	761.1482577	128.6986	5.91E-06	0	0	5.91E-06
Los Angele	2026 Annual	LDT1	GAS	2023 AllSpeeds	19360.49	774955.2172	125830.6	0.007340006	0	0.005442779	0.012782785
Los Angele	2026 Annual	LDT1	DSL	2023 AllSpeeds	26.52448	1061.718545	172.3918	7.70E-06	0	0	7.70E-06
Los Angele	2026 Annual	LDT1	GAS	2024 AllSpeeds	19990.12	842792.7204	130322.5	0.007552194	0	0.005303013	0.012855207
Los Angele	2026 Annual	LDT1	DSL	2024 AllSpeeds	31.56067	1330.619811	205.755	8.91E-06	0	0	8.91E-06
Los Angele	2026 Annual	LDT1	GAS	2025 AllSpeeds	20454.34	923793.8638	133758	0.007756998	0	0.005050318	0.012807316
Los Angele	2026 Annual	LDT1	DSL	2025 AllSpeeds	36.4809	1647.621576	238.5612	1.01E-05	0	0	1.01E-05
Los Angele	2026 Annual	LDT1	GAS	2026 AllSpeeds	20618.83	1036825.339	135246	0.007940948	0	0.004586923	0.012527871
Los Angele	2026 Annual	LDT1	DSL	2026 AllSpeeds	35.66412	1793.391912	233.9333	9.84E-06	0	0	9.84E-06
Los Angele	2026 Annual	T6 instate heavy	DSL	2010 AllSpeeds	469.959183	15877.86984	0	0.002587279	1.09E-04	0	0.002696021
Los Angele	2026 Annual	T6 instate heavy	DSL	2011 AllSpeeds	526.5061483	18841.50889	0	0.003009682	1.22E-04	0	0.003131507
Los Angele	2026 Annual	T6 instate heavy	DSL	2012 AllSpeeds	581.306052	24202.03466	0	0.003787899	1.35E-04	0	0.003922404
Los Angele	2026 Annual	T6 instate heavy	DSL	2013 AllSpeeds	438.8551724	18544.68661	0	0.002279282	1.02E-04	0	0.002380826
Los Angele	2026 Annual	T6 instate heavy	DSL	2014 AllSpeeds	731.8737165	30645.19995	0	0.003684568	1.69E-04	0	0.003853912
Los Angele	2026 Annual	T6 instate heavy	DSL	2015 AllSpeeds	1390.286984	56769.19854	0	0.006661516	3.22E-04	0	0.006983206
Los Angele	2026 Annual	T6 instate heavy	DSL	2016 AllSpeeds	723.9339774	35324.14216	0	0.004036018	1.68E-04	0	0.004203525
Los Angele	2026 Annual	T6 instate heavy	DSL	2017 AllSpeeds	1117.575115	51454.31924	0	0.005710024	2.59E-04	0	0.005968613
Los Angele	2026 Annual	T6 instate heavy	DSL	2018 AllSpeeds	382.69423	24453.78845	0	0.002628352	8.85E-05	0	0.002716901
Los Angele	2026 Annual	T6 instate heavy	DSL	2019 AllSpeeds	451.642223	30679.94646	0	0.003183697	1.05E-04	0	0.0032882
Los Angele	2026 Annual	T6 instate heavy	DSL	2020 AllSpeeds	538.1589944	38799.3672	0	0.003873188	1.25E-04	0	0.00399771
Los Angele	2026 Annual	T6 instate heavy	DSL	2021 AllSpeeds	589.0488066	44871.93477	0	0.004291538	1.36E-04	0	0.004427834
Los Angele	2026 Annual	T6 instate heavy	DSL	2022 AllSpeeds	580.0234494	46313.15995	0	0.004224563	1.34E-04	0	0.004358772
Los Angele	2026 Annual	T6 instate heavy	DSL	2023 AllSpeeds	591.5215356	48919.34085	0	0.004235543	1.37E-04	0	0.004372411
Los Angele	2026 Annual	T6 instate heavy	DSL	2024 AllSpeeds	623.6243219	52555.36015	0	0.004298029	1.44E-04	0	0.004442326
Los Angele	2026 Annual	T6 instate heavy	DSL	2025 AllSpeeds	686.2967563	57596.66974	0	0.004428592	1.59E-04	0	0.00458739
Los Angele	2026 Annual	T6 instate heavy	DSL	2026 AllSpeeds	615.2279564	51639.90367	0	0.003719081	1.42E-04	0	0.003861435
Los Angele	2026 Annual	T6 instate heavy	DSL	2027 AllSpeeds	151.4062187	5302.010131	0	3.56E-04	3.50E-05	0	3.91E-04
Los Angele	2026 Annual	LDA/LDT1	GAS&DSL	>2007 AllSpeeds	3714028.05	126221710.6	23630998.94	1.410373323	0	1.208594161	2.618967485
Los Angele	2026 Annual	T6 instate heavy	DSL	>2007 AllSpeeds	11189.94084	652790.4413	0	0.066994879	0.002589177	0	0.069584055

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Clean Trucks Program

EMFAC 2011

2013 Estimated Annual Emissions

EMFAC 2011 Vehicle Categories

Los Angeles COUNTY

South Coast AIR BASIN

South Coast AQMD

Area	CalYr	Season	Veh	Fuel	MdlYr	Speed (Miles/hr)	Pop (Vehicles)	VMT (Miles/day)	Trips (Trips/day)	ROG_RUNEX (Tons/day)	ROG_IDLEX (Tons/day)	ROG_STREX (Tons/day)	ROG_TOTEX (Tons/day)
Los Angele	2013 Annual		T6 instate heavy	DSL	2007		5	0	51.92972264	0	1.15E-04	0	0
Los Angele	2013 Annual		T6 instate heavy	DSL	2008		5	0	46.29857194	0	9.52E-05	0	0
Los Angele	2013 Annual		T6 instate heavy	DSL	2009		5	0	30.38673352	0	5.74E-05	0	0
Los Angele	2013 Annual		T6 instate heavy	DSL	2010		5	0	39.11478796	0	4.59E-05	0	0
Los Angele	2013 Annual		T6 instate heavy	DSL	2011		5	0	46.53969724	0	5.05E-05	0	0
Los Angele	2013 Annual		T6 instate heavy	DSL	2012		5	0	54.30341709	0	5.40E-05	0	0
Los Angele	2013 Annual		T6 instate heavy	DSL	2013		5	0	51.03094911	0	4.45E-05	0	0
Los Angele	2013 Annual		T6 instate heavy	DSL	2014		5	0	5.735423598	0	4.66E-06	0	0
Los Angele	2013 Annual		T6 instate heavy	DSL	>2007		5	0	325.3393031	0	0.000467044	0	0

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Los Angele	2026 Annual	LDT1	9.60E-04	0.00163716	0.012549173	8.15E-04	0.029065909	0.013799366	0	0.006075674	0.01987504
Los Angele	2026 Annual	LDT1	0	0	0	0	5.91E-06	6.73E-06	0	0	6.73E-06
Los Angele	2026 Annual	LDT1	8.68E-04	0.001279467	0.01152412	6.81E-04	0.027134763	0.01366068	0	0.005811209	0.01947189
Los Angele	2026 Annual	LDT1	0	0	0	0	7.70E-06	8.76E-06	0	0	8.76E-06
Los Angele	2026 Annual	LDT1	8.18E-04	0.001048159	0.010925502	5.98E-04	0.026244742	0.014055559	0	0.005661983	0.019717572
Los Angele	2026 Annual	LDT1	0	0	0	0	8.91E-06	1.01E-05	0	0	1.01E-05
Los Angele	2026 Annual	LDT1	7.84E-04	8.84E-04	0.0103074	5.39E-04	0.025322244	0.014436753	0	0.005392183	0.019828936
Los Angele	2026 Annual	LDT1	0	0	0	0	1.01E-05	1.15E-05	0	0	1.15E-05
Los Angele	2026 Annual	LDT1	7.55E-04	7.64E-04	0.009693929	4.95E-04	0.024236012	0.014779111	0	0.004897419	0.01967653
Los Angele	2026 Annual	LDT1	0	0	0	0	9.84E-06	1.12E-05	0	0	1.12E-05
Los Angele	2026 Annual	T6 instate heavy	0	0	0	0	0.002696021	0.002945421	1.24E-04	0	0.003069214
Los Angele	2026 Annual	T6 instate heavy	0	0	0	0	0.003131507	0.003426294	1.39E-04	0	0.003564983
Los Angele	2026 Annual	T6 instate heavy	0	0	0	0	0.003922404	0.004312235	1.53E-04	0	0.004465359
Los Angele	2026 Annual	T6 instate heavy	0	0	0	0	0.002380826	0.002594789	1.16E-04	0	0.002710389
Los Angele	2026 Annual	T6 instate heavy	0	0	0	0	0.003853912	0.004194601	1.93E-04	0	0.004387386
Los Angele	2026 Annual	T6 instate heavy	0	0	0	0	0.006983206	0.007583629	3.66E-04	0	0.007949849
Los Angele	2026 Annual	T6 instate heavy	0	0	0	0	0.004203525	0.0045947	1.91E-04	0	0.004785393
Los Angele	2026 Annual	T6 instate heavy	0	0	0	0	0.005968613	0.006500427	2.94E-04	0	0.006794811
Los Angele	2026 Annual	T6 instate heavy	0	0	0	0	0.002716901	0.002992179	1.01E-04	0	0.003092985
Los Angele	2026 Annual	T6 instate heavy	0	0	0	0	0.0032882	0.003624397	1.19E-04	0	0.003743366
Los Angele	2026 Annual	T6 instate heavy	0	0	0	0	0.00399771	0.00440933	1.42E-04	0	0.004551088
Los Angele	2026 Annual	T6 instate heavy	0	0	0	0	0.004427834	0.004885589	1.55E-04	0	0.005040752
Los Angele	2026 Annual	T6 instate heavy	0	0	0	0	0.004358772	0.004809344	1.53E-04	0	0.00496213
Los Angele	2026 Annual	T6 instate heavy	0	0	0	0	0.004372411	0.004821843	1.56E-04	0	0.004977658
Los Angele	2026 Annual	T6 instate heavy	0	0	0	0	0.004442326	0.004892979	1.64E-04	0	0.00505725
Los Angele	2026 Annual	T6 instate heavy	0	0	0	0	0.00458739	0.005041615	1.81E-04	0	0.005222395
Los Angele	2026 Annual	T6 instate heavy	0	0	0	0	0.003861435	0.004233891	1.62E-04	0	0.00439595
Los Angele	2026 Annual	T6 instate heavy	0	0	0	0	3.91E-04	4.05E-04	3.99E-05	0	4.45E-04
Los Angele	2026 Annual	LDA/LDT1	0.331431414	1.066165814	4.007039613	0.369783259	8.393387585	2.622667751	0	1.290405791	3.913073542
Los Angele	2026 Annual	T6 instate heavy	0	0	0	0	0.069584055	0.07626857	0.002947581	0	0.07921615

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Clean Trucks Program

EMFAC 2011

2013 Estimated Annual Emissions

EMFAC 2011 Vehicle Categories

Los Angeles COUNTY

South Coast AIR BASIN

South Coast AQMD

Area	CalYr	Season	Veh	ROG_DIURN (Tons/day)	ROG_HTSK (Tons/day)	ROG_RUNLS (Tons/day)	ROG_RESTL (Tons/day)	ROG_TOTAL (Tons/day)	TOG_RUNEX (Tons/day)	TOG_IDLEX (Tons/day)	TOG_STREX (Tons/day)	TOG_TOTEX (Tons/day)
Los Angele	2013 Annual	Annual	T6 instate heavy	0	0	0	0	0	1.31E-04	0	0	0
Los Angele	2013 Annual	Annual	T6 instate heavy	0	0	0	0	0	1.08E-04	0	0	0
Los Angele	2013 Annual	Annual	T6 instate heavy	0	0	0	0	0	6.54E-05	0	0	0
Los Angele	2013 Annual	Annual	T6 instate heavy	0	0	0	0	0	5.23E-05	0	0	0
Los Angele	2013 Annual	Annual	T6 instate heavy	0	0	0	0	0	5.75E-05	0	0	0
Los Angele	2013 Annual	Annual	T6 instate heavy	0	0	0	0	0	6.15E-05	0	0	0
Los Angele	2013 Annual	Annual	T6 instate heavy	0	0	0	0	0	5.07E-05	0	0	0
Los Angele	2013 Annual	Annual	T6 instate heavy	0	0	0	0	0	5.31E-06	0	0	0
Los Angele	2013 Annual	Annual	T6 instate heavy	0	0	0	0	0	0.000531694	0	0	0

EMFAC 2011

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Los Angele	2026 Annual	LDT1	9.60E-04	0.00163716	0.012549173	8.15E-04	0.03583595	0.416136935	0	0.089468792	0.505605727
Los Angele	2026 Annual	LDT1	0	0	0	0	6.73E-06	5.49E-05	0	0	5.49E-05
Los Angele	2026 Annual	LDT1	8.68E-04	0.001279467	0.01152412	6.81E-04	0.033823868	0.405083619	0	0.081856698	0.486940317
Los Angele	2026 Annual	LDT1	0	0	0	0	8.76E-06	7.13E-05	0	0	7.13E-05
Los Angele	2026 Annual	LDT1	8.18E-04	0.001048159	0.010925502	5.98E-04	0.033107107	0.411155389	0	0.078027882	0.489183271
Los Angele	2026 Annual	LDT1	0	0	0	0	1.01E-05	8.23E-05	0	0	8.23E-05
Los Angele	2026 Annual	LDT1	7.84E-04	8.84E-04	0.0103074	5.39E-04	0.032343864	0.422644734	0	0.074437886	0.49708262
Los Angele	2026 Annual	LDT1	0	0	0	0	1.15E-05	9.26E-05	0	0	9.26E-05
Los Angele	2026 Annual	LDT1	7.55E-04	7.64E-04	0.009693929	4.95E-04	0.031384671	0.446337595	0	0.070684657	0.517022252
Los Angele	2026 Annual	LDT1	0	0	0	0	1.12E-05	9.01E-05	0	0	9.01E-05
Los Angele	2026 Annual	T6 instate heavy	0	0	0	0	0.003069214	0.010770883	0.001285872	0	0.012056755
Los Angele	2026 Annual	T6 instate heavy	0	0	0	0	0.003564983	0.012529352	0.001440592	0	0.013969943
Los Angele	2026 Annual	T6 instate heavy	0	0	0	0	0.004465359	0.015769082	0.001590532	0	0.017359614
Los Angele	2026 Annual	T6 instate heavy	0	0	0	0	0.002710389	0.009488684	0.001200767	0	0.010689451
Los Angele	2026 Annual	T6 instate heavy	0	0	0	0	0.004387386	0.015338913	0.002002505	0	0.017341418
Los Angele	2026 Annual	T6 instate heavy	0	0	0	0	0.007949849	0.027731991	0.003804012	0	0.031536003
Los Angele	2026 Annual	T6 instate heavy	0	0	0	0	0.004785393	0.016802005	0.001980781	0	0.018782786
Los Angele	2026 Annual	T6 instate heavy	0	0	0	0	0.006794811	0.023770914	0.003057836	0	0.02682875
Los Angele	2026 Annual	T6 instate heavy	0	0	0	0	0.003092985	0.010941869	0.001047103	0	0.011988972
Los Angele	2026 Annual	T6 instate heavy	0	0	0	0	0.003743366	0.01325378	0.001235754	0	0.014489534
Los Angele	2026 Annual	T6 instate heavy	0	0	0	0	0.004551088	0.016124141	0.001472475	0	0.017596617
Los Angele	2026 Annual	T6 instate heavy	0	0	0	0	0.005040752	0.017865736	0.001611717	0	0.019477452
Los Angele	2026 Annual	T6 instate heavy	0	0	0	0	0.00496213	0.01758692	0.001587022	0	0.019173943
Los Angele	2026 Annual	T6 instate heavy	0	0	0	0	0.004977658	0.017632628	0.001618483	0	0.01925111
Los Angele	2026 Annual	T6 instate heavy	0	0	0	0	0.00505725	0.017892762	0.00170632	0	0.019599082
Los Angele	2026 Annual	T6 instate heavy	0	0	0	0	0.005222395	0.018436295	0.0018778	0	0.020314095
Los Angele	2026 Annual	T6 instate heavy	0	0	0	0	0.00439595	0.015482592	0.001683346	0	0.017165939
Los Angele	2026 Annual	T6 instate heavy	0	0	0	0	4.45E-04	0.001482143	4.14E-04	0	0.001896411
Los Angele	2026 Annual	LDA/LDT1	0.331431414	1.066165814	4.007039613	0.369783259	9.687493642	79.88834288	0	20.50896919	100.3973121
Los Angele	2026 Annual	T6 instate heavy	0	0	0	0	0.07921615	0.278900692	0.030617184	0	0.309517876

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EMFAC 2011

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Los Angeles COUNTY

South Coast AIR BASIN

South Coast AQMD

Area	CalYr	Season	Veh	TOG_DIURN (Tons/day)	TOG_HTSK (Tons/day)	TOG_RUNLS (Tons/day)	TOG_RESTL (Tons/day)	TOG_TOTAL (Tons/day)	CO_RUNEX (Tons/day)	CO_IDLEX (Tons/day)	CO_STREX (Tons/day)	CO_TOTEX (Tons/day)
Los Angele	2013 Annual	Annual	T6 instate heavy	0	0	0	0	0	2.04E-04	0	0	0
Los Angele	2013 Annual	Annual	T6 instate heavy	0	0	0	0	0	1.69E-04	0	0	0
Los Angele	2013 Annual	Annual	T6 instate heavy	0	0	0	0	0	1.02E-04	0	0	0
Los Angele	2013 Annual	Annual	T6 instate heavy	0	0	0	0	0	8.15E-05	0	0	0
Los Angele	2013 Annual	Annual	T6 instate heavy	0	0	0	0	0	8.96E-05	0	0	0
Los Angele	2013 Annual	Annual	T6 instate heavy	0	0	0	0	0	9.57E-05	0	0	0
Los Angele	2013 Annual	Annual	T6 instate heavy	0	0	0	0	0	7.89E-05	0	0	0
Los Angele	2013 Annual	Annual	T6 instate heavy	0	0	0	0	0	8.27E-06	0	0	0
Los Angele	2013 Annual	Annual	T6 instate heavy	0	0	0	0	0	0.000828201	0	0	0

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Los Angele	2026 Annual	LDT1	0.040359449	0	0.005919194	0.046278643	349.3273235	0	11.73643	361.0637535	206.5572464
Los Angele	2026 Annual	LDT1	1.86E-04	0	0	1.86E-04	0.266412657	0	0	0.266412657	0.157529804
Los Angele	2026 Annual	LDT1	0.039794676	0	0.005346992	0.045141668	371.7333162	0	11.98964	383.7229562	219.8059099
Los Angele	2026 Annual	LDT1	2.44E-04	0	0	2.44E-04	0.371616534	0	0	0.371616534	0.219736856
Los Angele	2026 Annual	LDT1	0.040448956	0	0.004910945	0.0453599	404.4113717	0	12.41811	416.8294817	239.1284441
Los Angele	2026 Annual	LDT1	2.85E-04	0	0	2.85E-04	0.465735735	0	0	0.465735735	0.27538954
Los Angele	2026 Annual	LDT1	0.041238099	0	0.004392383	0.045630482	443.4260338	0	12.74582	456.1718538	262.1978138
Los Angele	2026 Annual	LDT1	3.25E-04	0	0	3.25E-04	0.576690759	0	0	0.576690759	0.340997246
Los Angele	2026 Annual	LDT1	0.04270103	0	0.003766382	0.046467412	497.8589411	0	12.88831	510.7472511	294.3839919
Los Angele	2026 Annual	LDT1	3.21E-04	0	0	3.21E-04	0.627712473	0	0	0.627712473	0.371166385
Los Angele	2026 Annual	T6 instate heavy	0.036534235	0.001942688	0	0.038476923	19.66740798	0.386349013	0	20.05375699	17.70066718
Los Angele	2026 Annual	T6 instate heavy	0.040104342	0.002176438	0	0.04228078	23.3383726	0.43283574	0	23.77120834	21.00453534
Los Angele	2026 Annual	T6 instate heavy	0.04598908	0.002402967	0	0.048392047	29.97828389	0.477886224	0	30.45617011	26.9804555
Los Angele	2026 Annual	T6 instate heavy	0.028710758	0.001814112	0	0.030524871	22.91784136	0.360778699	0	23.27862006	20.62605722
Los Angele	2026 Annual	T6 instate heavy	0.045971962	0.003025374	0	0.048997336	37.87186302	0.601666481	0	38.4735295	34.08467672
Los Angele	2026 Annual	T6 instate heavy	0.082214129	0.005747082	0	0.08796121	70.15634795	1.14294182	0	71.29928977	63.14071315
Los Angele	2026 Annual	T6 instate heavy	0.049197428	0.002992553	0	0.052189981	43.65417995	0.595139296	0	44.24931924	39.28876195
Los Angele	2026 Annual	T6 instate heavy	0.06862624	0.004619762	0	0.073246003	63.58812908	0.918747964	0	64.50687704	57.22931617
Los Angele	2026 Annual	T6 instate heavy	0.031081093	0.001581958	0	0.03266305	30.22041063	0.314609318	0	30.53501995	27.19836957
Los Angele	2026 Annual	T6 instate heavy	0.036948686	0.001866971	0	0.038815656	37.91480335	0.371290813	0	38.28609417	34.12332302
Los Angele	2026 Annual	T6 instate heavy	0.04397652	0.002224608	0	0.046201129	47.94892258	0.442415435	0	48.39133801	43.15403032
Los Angele	2026 Annual	T6 instate heavy	0.047483806	0.002434973	0	0.049918779	55.4535056	0.484251469	0	55.93775707	49.90815504
Los Angele	2026 Annual	T6 instate heavy	0.045328567	0.002397665	0	0.047726232	57.23459636	0.476831808	0	57.71142817	51.51113672
Los Angele	2026 Annual	T6 instate heavy	0.0438048	0.002445195	0	0.046249994	60.45535936	0.486284277	0	60.94164364	54.40982342
Los Angele	2026 Annual	T6 instate heavy	0.042526505	0.002577899	0	0.045104404	64.94881429	0.512675675	0	65.46148997	58.45393286
Los Angele	2026 Annual	T6 instate heavy	0.041543465	0.002836971	0	0.044380436	71.17895104	0.564198092	0	71.74314913	64.06105593
Los Angele	2026 Annual	T6 instate heavy	0.032727723	0.002543191	0	0.035270914	63.81747749	0.505773102	0	64.32325059	57.43572974
Los Angele	2026 Annual	T6 instate heavy	0.002896243	6.26E-04	0	0.003522117	6.552314938	0.124446925	0	6.676784562	5.897083444
Los Angele	2026 Annual	LDA/LDT1	7.316826871	0	1.245051588	8.561878458	52755.5888	0	1954.934207	54710.523	32741.86198
Los Angele	2026 Annual	T6 instate heavy	0.765665582	0.046256281	0	0.811921864	806.8975815	9.19914485	0	816.0967263	726.2078233

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EMFAC 2011 Vehicle Categories

Los Angeles COUNTY

South Coast AIR BASIN

South Coast AQMD

Area	CalYr	Season	Veh	NOX_RUNEX (Tons/day)	NOX_IDLEX (Tons/day)	NOX_STREX (Tons/day)	NOX_TOTEX (Tons/day)	CO2_RUNEX (Tons/day)	CO2_IDLEX (Tons/day)	CO2_STREX (Tons/day)	CO2_TOTEX (Tons/day)	CO2_RUNEX(Pavh) (Tons/day)
Los Angele	2013 Annual	Annual	T6 instate heavy	8.16E-04	0	0	0	0.15194285	0	0	0	0.150423422
Los Angele	2013 Annual	Annual	T6 instate heavy	6.59E-04	0	0	0	0.135466485	0	0	0	0.13411182
Los Angele	2013 Annual	Annual	T6 instate heavy	3.69E-04	0	0	0	0.088909523	0	0	0	0.088020428
Los Angele	2013 Annual	Annual	T6 instate heavy	1.63E-04	0	0	0	0.110623266	0	0	0	0.109517033
Los Angele	2013 Annual	Annual	T6 instate heavy	1.58E-04	0	0	0	0.131622171	0	0	0	0.130305949
Los Angele	2013 Annual	Annual	T6 instate heavy	1.36E-04	0	0	0	0.153579289	0	0	0	0.152043496
Los Angele	2013 Annual	Annual	T6 instate heavy	1.05E-04	0	0	0	0.143992032	0	0	0	0.142552112
Los Angele	2013 Annual	Annual	T6 instate heavy	1.02E-05	0	0	0	0.01618342	0	0	0	0.016021586
Los Angele	2013 Annual	Annual	T6 instate heavy	0.002417284	0	0	0	0.932319036	0	0	0	0.922995846

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Los Angele	2026 Annual	LDT1	0	6.939751059	213.4969974	0.002023984	0	7.36E-04	0.00275984	0.006423959	0.029510066
Los Angele	2026 Annual	LDT1	0	0	0.157529804	3.09E-06	0	0	3.09E-06	6.71E-06	3.08E-05
Los Angele	2026 Annual	LDT1	0	7.089474132	226.895384	0.002153151	0	7.52E-04	0.002904882	0.006833936	0.031393398
Los Angele	2026 Annual	LDT1	0	0	0.219736856	4.05E-06	0	0	4.05E-06	9.36E-06	4.30E-05
Los Angele	2026 Annual	LDT1	0	7.342828443	246.4712725	0.00234172	0	7.79E-04	0.003120315	0.00743216	0.034141485
Los Angele	2026 Annual	LDT1	0	0	0.27538954	4.72E-06	0	0	4.72E-06	1.17E-05	5.39E-05
Los Angele	2026 Annual	LDT1	0	7.536603366	269.7344172	0.002566854	0	7.99E-04	0.003365997	0.008146468	0.037422843
Los Angele	2026 Annual	LDT1	0	0	0.340997246	5.39E-06	0	0	5.39E-06	1.45E-05	6.67E-05
Los Angele	2026 Annual	LDT1	0	7.620857703	302.0048496	0.002881077	0	8.08E-04	0.003689153	0.009143234	0.042001735
Los Angele	2026 Annual	LDT1	0	0	0.371166385	5.34E-06	0	0	5.34E-06	1.58E-05	7.27E-05
Los Angele	2026 Annual	T6 instate heavy	0.347714112	0	18.04838129	0.001259205	4.57E-06	0	0.001263771	2.10E-04	0.002281257
Los Angele	2026 Annual	T6 instate heavy	0.389552166	0	21.3940875	0.001460074	5.12E-06	0	0.001465189	2.49E-04	0.002707059
Los Angele	2026 Annual	T6 instate heavy	0.430097602	0	27.4105531	0.001831408	5.65E-06	0	0.001837056	3.20E-04	0.003477234
Los Angele	2026 Annual	T6 instate heavy	0.324700829	0	20.95075805	0.001070565	4.26E-06	0	0.001074829	2.45E-04	0.002664413
Los Angele	2026 Annual	T6 instate heavy	0.541499833	0	34.62617655	0.001721335	7.11E-06	0	0.001728446	4.05E-04	0.004402957
Los Angele	2026 Annual	T6 instate heavy	1.028647638	0	64.16936079	0.003093095	1.35E-05	0	0.003106602	7.51E-04	0.008156329
Los Angele	2026 Annual	T6 instate heavy	0.535625367	0	39.82438732	0.001861076	7.03E-06	0	0.00186811	4.67E-04	0.005075205
Los Angele	2026 Annual	T6 instate heavy	0.826873167	0	58.05618934	0.002612398	1.09E-05	0	0.002623255	6.81E-04	0.007392713
Los Angele	2026 Annual	T6 instate heavy	0.283148386	0	27.48151796	0.001191791	3.72E-06	0	0.001195509	3.23E-04	0.003513404
Los Angele	2026 Annual	T6 instate heavy	0.334161732	0	34.45748475	0.001428856	4.39E-06	0	0.001433244	4.06E-04	0.004407949
Los Angele	2026 Annual	T6 instate heavy	0.398173891	0	43.55220421	0.001717764	5.23E-06	0	0.001722993	5.13E-04	0.005574509
Los Angele	2026 Annual	T6 instate heavy	0.435826323	0	50.34398136	0.001877102	5.72E-06	0	0.001882825	5.94E-04	0.006446987
Los Angele	2026 Annual	T6 instate heavy	0.429148628	0	51.94028535	0.001817991	5.64E-06	0	0.001823626	6.13E-04	0.006654055
Los Angele	2026 Annual	T6 instate heavy	0.437655849	0	54.84747927	0.001788105	5.75E-06	0	0.001793852	6.47E-04	0.007028499
Los Angele	2026 Annual	T6 instate heavy	0.461408107	0	58.91534097	0.001773909	6.06E-06	0	0.001779968	6.95E-04	0.007550905
Los Angele	2026 Annual	T6 instate heavy	0.507778283	0	64.56883422	0.001779832	6.67E-06	0	0.0017865	7.62E-04	0.008275216
Los Angele	2026 Annual	T6 instate heavy	0.455195792	0	57.89092553	0.001449142	5.98E-06	0	0.001455119	6.83E-04	0.007419376
Los Angele	2026 Annual	T6 instate heavy	0.112022662	0	6.009106106	1.34E-04	1.47E-06	0	1.35E-04	7.01E-05	7.62E-04
Los Angele	2026 Annual	LDA/LDT1	0	1229.429062	33971.29104	0.303669832	0	0.114051174	0.417721006	1.113085034	5.113234996
Los Angele	2026 Annual	T6 instate heavy	8.279230365	0	734.4870537	0.029867382	0.000108718	0	0.029976099	0.008634939	0.093789834

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Los Angeles COUNTY

South Coast AIR BASIN

South Coast AQMD

Area	CalYr	Season	Veh	CO2_IDLEX(Pavk) (Tons/day)	CO2_STREX(Pavk) (Tons/day)	CO2_TOTEX(Pavk) (Tons/day)	PM10_RUNEX (Tons/day)	PM10_IDLEX (Tons/day)	PM10_STREX (Tons/day)	PM10_TOTEX (Tons/day)	PM10_PMTW (Tons/day)	PM10_PMBW (Tons/day)
Los Angele	2013 Annual		T6 instate heavy	0	0	0	2.87E-06	0	0	0	0	0
Los Angele	2013 Annual		T6 instate heavy	0	0	0	2.38E-06	0	0	0	0	0
Los Angele	2013 Annual		T6 instate heavy	0	0	0	1.44E-06	0	0	0	0	0
Los Angele	2013 Annual		T6 instate heavy	0	0	0	1.70E-06	0	0	0	0	0
Los Angele	2013 Annual		T6 instate heavy	0	0	0	1.82E-06	0	0	0	0	0
Los Angele	2013 Annual		T6 instate heavy	0	0	0	1.89E-06	0	0	0	0	0
Los Angele	2013 Annual		T6 instate heavy	0	0	0	1.48E-06	0	0	0	0	0
Los Angele	2013 Annual		T6 instate heavy	0	0	0	1.49E-07	0	0	0	0	0
Los Angele	2013 Annual		T6 instate heavy	0	0	0	1.37265E-05	0	0	0	0	0

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Los Angele	2026 Annual	LDT1	0.038693865	0.001877924	0	6.83E-04	0.002560676	0.00160599	0.012647171	0.016813837	0.003493827
Los Angele	2026 Annual	LDT1	4.06E-05	2.84E-06	0	0	2.84E-06	1.68E-06	1.32E-05	1.77E-05	2.54E-06
Los Angele	2026 Annual	LDT1	0.041132216	0.001997769	0	6.97E-04	0.002695252	0.001708484	0.013454312	0.017858047	0.003717301
Los Angele	2026 Annual	LDT1	5.64E-05	3.72E-06	0	0	3.72E-06	2.34E-06	1.84E-05	2.45E-05	3.55E-06
Los Angele	2026 Annual	LDT1	0.04469396	0.00217273	0	7.22E-04	0.002895138	0.00185804	0.014632066	0.019385244	0.004043592
Los Angele	2026 Annual	LDT1	7.04E-05	4.35E-06	0	0	4.35E-06	2.93E-06	2.31E-05	3.04E-05	4.45E-06
Los Angele	2026 Annual	LDT1	0.048935308	0.002381617	0	7.41E-04	0.00312309	0.002036617	0.016038362	0.021198069	0.004433218
Los Angele	2026 Annual	LDT1	8.67E-05	4.96E-06	0	0	4.96E-06	3.63E-06	2.86E-05	3.72E-05	5.51E-06
Los Angele	2026 Annual	LDT1	0.054834122	0.002673164	0	7.50E-04	0.003422926	0.002285809	0.018000744	0.023709478	0.004976936
Los Angele	2026 Annual	LDT1	9.38E-05	4.91E-06	0	0	4.91E-06	3.95E-06	3.11E-05	4.00E-05	5.99E-06
Los Angele	2026 Annual	T6 instate heavy	0.003755057	0.001158469	4.20E-06	0	0.00116267	5.25E-05	9.78E-04	0.002192858	1.88E-04
Los Angele	2026 Annual	T6 instate heavy	0.004421478	0.001343268	4.71E-06	0	0.001347974	6.23E-05	0.001160168	0.002570449	2.23E-04
Los Angele	2026 Annual	T6 instate heavy	0.005634427	0.001684895	5.20E-06	0	0.001690091	8.00E-05	0.001490243	0.003260369	2.86E-04
Los Angele	2026 Annual	T6 instate heavy	0.003984546	9.85E-04	3.92E-06	0	9.89E-04	6.13E-05	0.001141891	0.00219206	2.19E-04
Los Angele	2026 Annual	T6 instate heavy	0.00653677	0.001583629	6.54E-06	0	0.00159017	1.01E-04	0.001886982	0.003578494	3.61E-04
Los Angele	2026 Annual	T6 instate heavy	0.012013859	0.002845647	1.24E-05	0	0.002858074	1.88E-04	0.00349557	0.006541376	6.69E-04
Los Angele	2026 Annual	T6 instate heavy	0.007410573	0.00171219	6.47E-06	0	0.001718661	1.17E-04	0.002175088	0.004010564	4.16E-04
Los Angele	2026 Annual	T6 instate heavy	0.010696592	0.002403406	9.99E-06	0	0.002413395	1.70E-04	0.003168305	0.005751856	6.07E-04
Los Angele	2026 Annual	T6 instate heavy	0.005032382	0.001096448	3.42E-06	0	0.001099868	8.09E-05	0.001505745	0.00268648	2.88E-04
Los Angele	2026 Annual	T6 instate heavy	0.006247019	0.001314547	4.04E-06	0	0.001318584	1.01E-04	0.001889121	0.003309162	3.62E-04
Los Angele	2026 Annual	T6 instate heavy	0.007810729	0.001580343	4.81E-06	0	0.001585153	1.28E-04	0.002389075	0.004102536	4.57E-04
Los Angele	2026 Annual	T6 instate heavy	0.008923366	0.001726934	5.27E-06	0	0.001732199	1.48E-04	0.002762994	0.004643582	5.29E-04
Los Angele	2026 Annual	T6 instate heavy	0.0090903	0.001672552	5.18E-06	0	0.001677736	1.53E-04	0.002851738	0.004682629	5.46E-04
Los Angele	2026 Annual	T6 instate heavy	0.009469443	0.001645057	5.29E-06	0	0.001650344	1.62E-04	0.003012214	0.004824331	5.77E-04
Los Angele	2026 Annual	T6 instate heavy	0.010026061	0.001631996	5.47E-06	0	0.00163757	1.74E-04	0.003236102	0.005074469	6.20E-04
Los Angele	2026 Annual	T6 instate heavy	0.01082359	0.001637446	6.13E-06	0	0.00164358	1.90E-04	0.003546521	0.00538057	6.79E-04
Los Angele	2026 Annual	T6 instate heavy	0.009557575	0.00133321	5.50E-06	0	0.00133871	1.71E-04	0.003179733	0.004689212	6.09E-04
Los Angele	2026 Annual	T6 instate heavy	9.67E-04	1.23E-04	1.35E-06	0	1.24E-04	1.75E-05	3.26E-04	4.68E-04	6.25E-05
Los Angele	2026 Annual	LDA/LDT1	6.644041036	0.281740968	0	0.105820674	0.387561642	0.278271258	2.191386371	2.857219271	0.527861766
Los Angele	2026 Annual	T6 instate heavy	0.132400873	0.027477991	0.00010002	0	0.027578011	0.002158735	0.040195643	0.069932389	0.00769818

**onsite transit**

Clean Trucks Program

EMFAC 2011

2013 Estimated Annual Emissions

EMFAC 2011 Vehicle Categories

Los Angeles COUNTY

South Coast AIR BASIN

South Coast AQMD

Area	CalYr	Season	Veh	PM10_TOTAL (Tons/day)	PM2_5_RUNEX (Tons/day)	PM2_5_IDLEX (Tons/day)	PM2_5_STREX (Tons/day)	PM2_5_TOTEX (Tons/day)	PM2_5_PMTW (Tons/day)	PM2_5_PMBW (Tons/day)	PM2_5_TOTAL (Tons/day)	SOX_RUNEX (Tons/day)
Los Angele	2013 Annual		T6 instate heavy	0	2.64E-06	0	0	0	0	0	0	0
Los Angele	2013 Annual		T6 instate heavy	0	2.19E-06	0	0	0	0	0	0	0
Los Angele	2013 Annual		T6 instate heavy	0	1.33E-06	0	0	0	0	0	0	0
Los Angele	2013 Annual		T6 instate heavy	0	1.56E-06	0	0	0	0	0	0	0
Los Angele	2013 Annual		T6 instate heavy	0	1.67E-06	0	0	0	0	0	0	0
Los Angele	2013 Annual		T6 instate heavy	0	1.73E-06	0	0	0	0	0	0	0
Los Angele	2013 Annual		T6 instate heavy	0	1.36E-06	0	0	0	0	0	0	0
Los Angele	2013 Annual		T6 instate heavy	0	1.37E-07	0	0	0	0	0	0	0
Los Angele	2013 Annual		T6 instate heavy	0	1.26284E-05	0	0	0	0	0	0	0

EMFAC 2011

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Los Angele	2026 Annual	LDT1	0	1.19E-04	0.003612561	38.53321	0	7.98E-05	1.39E-03	1.27E-04	7.58E-06	9.87E-05	7.03E-06	3.91E-05	9.92E-06
Los Angele	2026 Annual	LDT1	0	0	2.54E-06	0	0.023977142	1.55E-05	1.44E-04	4.89E-04	8.12E-06	9.87E-05	7.47E-06	3.91E-05	6.68E-06
Los Angele	2026 Annual	LDT1	0	1.21E-04	0.003838436	40.94248	0	7.00E-05	1.26E-03	1.17E-04	7.50E-06	9.87E-05	6.96E-06	3.91E-05	9.91E-06
Los Angele	2026 Annual	LDT1	0	0	3.55E-06	0	0.033445492	1.45E-05	1.34E-04	4.60E-04	7.63E-06	9.87E-05	7.02E-06	3.91E-05	6.68E-06
Los Angele	2026 Annual	LDT1	0	1.25E-04	0.004168939	44.46779	0	6.23E-05	1.16E-03	1.08E-04	7.40E-06	9.87E-05	6.87E-06	3.91E-05	9.89E-06
Los Angele	2026 Annual	LDT1	0	0	4.45E-06	0	0.041916225	1.34E-05	1.24E-04	4.28E-04	7.10E-06	9.87E-05	6.53E-06	3.91E-05	6.68E-06
Los Angele	2026 Annual	LDT1	0	1.29E-04	0.004561771	48.65792	0	5.48E-05	1.08E-03	9.88E-05	7.29E-06	9.87E-05	6.76E-06	3.91E-05	9.88E-06
Los Angele	2026 Annual	LDT1	0	0	5.51E-06	0	0.051902167	1.22E-05	1.12E-04	3.94E-04	6.55E-06	9.87E-05	6.02E-06	3.91E-05	6.68E-06
Los Angele	2026 Annual	LDT1	0	1.30E-04	0.005106838	54.47184	0	4.68E-05	9.97E-04	8.96E-05	7.12E-06	9.87E-05	6.60E-06	3.91E-05	9.85E-06
Los Angele	2026 Annual	LDT1	0	0	5.99E-06	0	0.056494128	1.10E-05	1.00E-04	3.58E-04	5.96E-06	9.87E-05	5.48E-06	3.91E-05	6.68E-06
Los Angele	2026 Annual	T6 instate heavy	3.69E-06	0	1.91E-04	0	1.804838129	3.40E-04	1.52E-03	4.85E-03	1.59E-04	3.14E-04	1.46E-04	1.30E-04	2.41E-05
Los Angele	2026 Annual	T6 instate heavy	4.13E-06	0	2.27E-04	0	2.13940875	3.32E-04	1.48E-03	4.49E-03	1.56E-04	3.14E-04	1.43E-04	1.30E-04	2.41E-05
Los Angele	2026 Annual	T6 instate heavy	4.56E-06	0	2.91E-04	0	2.74105531	3.24E-04	1.43E-03	4.00E-03	1.52E-04	3.14E-04	1.40E-04	1.30E-04	2.40E-05
Los Angele	2026 Annual	T6 instate heavy	3.44E-06	0	2.22E-04	0	2.095075805	2.57E-04	1.15E-03	3.29E-03	1.16E-04	3.14E-04	1.07E-04	1.30E-04	2.40E-05
Los Angele	2026 Annual	T6 instate heavy	5.74E-06	0	3.67E-04	0	3.462617655	2.52E-04	1.13E-03	3.20E-03	1.13E-04	3.14E-04	1.04E-04	1.30E-04	2.40E-05
Los Angele	2026 Annual	T6 instate heavy	1.09E-05	0	6.80E-04	0	6.416936079	2.46E-04	1.11E-03	3.10E-03	1.09E-04	3.14E-04	1.01E-04	1.30E-04	2.40E-05
Los Angele	2026 Annual	T6 instate heavy	5.68E-06	0	4.22E-04	0	3.982438732	2.38E-04	1.06E-03	2.95E-03	1.06E-04	3.14E-04	9.73E-05	1.30E-04	2.39E-05
Los Angele	2026 Annual	T6 instate heavy	8.77E-06	0	6.15E-04	0	5.805618934	2.32E-04	1.04E-03	2.85E-03	1.02E-04	3.14E-04	9.38E-05	1.30E-04	2.39E-05
Los Angele	2026 Annual	T6 instate heavy	3.00E-06	0	2.91E-04	0	2.748151796	2.22E-04	9.81E-04	2.67E-03	9.78E-05	3.14E-04	9.00E-05	1.30E-04	2.38E-05
Los Angele	2026 Annual	T6 instate heavy	3.54E-06	0	3.65E-04	0	3.445748475	2.14E-04	9.45E-04	2.53E-03	9.34E-05	3.14E-04	8.60E-05	1.30E-04	2.38E-05
Los Angele	2026 Annual	T6 instate heavy	4.22E-06	0	4.62E-04	0	4.355220421	2.06E-04	9.07E-04	2.38E-03	8.88E-05	3.14E-04	8.17E-05	1.30E-04	2.38E-05
Los Angele	2026 Annual	T6 instate heavy	4.62E-06	0	5.34E-04	0	5.034398136	1.97E-04	8.68E-04	2.22E-03	8.39E-05	3.14E-04	7.72E-05	1.30E-04	2.38E-05
Los Angele	2026 Annual	T6 instate heavy	4.55E-06	0	5.51E-04	0	5.194028535	1.88E-04	8.28E-04	2.06E-03	7.88E-05	3.14E-04	7.25E-05	1.30E-04	2.38E-05
Los Angele	2026 Annual	T6 instate heavy	4.64E-06	0	5.81E-04	0	5.484747927	1.79E-04	7.87E-04	1.89E-03	7.33E-05	3.14E-04	6.75E-05	1.30E-04	2.38E-05
Los Angele	2026 Annual	T6 instate heavy	4.89E-06	0	6.25E-04	0	5.891534097	1.69E-04	7.46E-04	1.72E-03	6.77E-05	3.14E-04	6.23E-05	1.30E-04	2.38E-05
Los Angele	2026 Annual	T6 instate heavy	5.38E-06	0	6.84E-04	0	6.456883422	1.59E-04	7.05E-04	1.54E-03	6.20E-05	3.14E-04	5.71E-05	1.30E-04	2.38E-05
Los Angele	2026 Annual	T6 instate heavy	4.83E-06	0	6.14E-04	0	5.789092553	1.50E-04	6.65E-04	1.37E-03	5.64E-05	3.14E-04	5.18E-05	1.30E-04	2.38E-05
Los Angele	2026 Annual	T6 instate heavy	1.19E-06	0	6.37E-05	0	6.00910611	1.48E-04	7.15E-04	1.33E-03	5.10E-05	3.14E-04	4.69E-05	1.30E-04	2.40E-05
Los Angele	2026 Annual	LDA/LDT1	0	0.019873784	0.54773555	5828.372273	12.39422886	1.33E-04	1.59E-03	1.36E-04	6.62E-06	9.87E-05	6.14E-06	3.91E-05	8.68E-06
Los Angele	2026 Annual	T6 instate heavy	8.77641E-05	0	0.007785944	0	73.44870537	2.13E-04	9.48E-04	2.49E-03	9.18E-05	3.14E-04	8.45E-05	1.30E-04	2.39E-05

**onsite transit**

Clean Trucks Program

EMFAC 2011

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Los Angeles COUNTY

South Coast AIR BASIN

South Coast AQMD

Area	CalYr	Season	Veh	SOX_IDLEX (Tons/day)	SOX_STREX (Tons/day)	SOX_TOTEX (Tons/day)	FUEL_GAS (1000 Gallons)	FUEL_DSL (1000 Gallons)	exhaust	exhaust	exhaust	exhaust	tire wear a	exhaust	tire wear a	exhaust
									ROG lb/mile	CO lb/mile	NOx lb/mile	PM10 lb/mile	PM10 lb/mile	PM2.5 lb/mile	PM2.5 lb/mile	SOx lb/mile
Los Angele	2013 Annual	Annual	T6 instate heavy	0	0	0	0	4.260129079	4.42E-03	7.85E-03	3.14E-02	1.10E-04	0.00E+00	1.02E-04	0.00E+00	0.00E+00
Los Angele	2013 Annual	Annual	T6 instate heavy	0	0	0	0	3.796379027	4.11E-03	7.29E-03	2.85E-02	1.03E-04	0.00E+00	9.48E-05	0.00E+00	0.00E+00
Los Angele	2013 Annual	Annual	T6 instate heavy	0	0	0	0	2.490686778	3.78E-03	6.70E-03	2.43E-02	9.51E-05	0.00E+00	8.75E-05	0.00E+00	0.00E+00
Los Angele	2013 Annual	Annual	T6 instate heavy	0	0	0	0	3.098939655	2.35E-03	4.17E-03	8.34E-03	8.68E-05	0.00E+00	7.98E-05	0.00E+00	0.00E+00
Los Angele	2013 Annual	Annual	T6 instate heavy	0	0	0	0	3.686650385	2.17E-03	3.85E-03	6.80E-03	7.82E-05	0.00E+00	7.19E-05	0.00E+00	0.00E+00
Los Angele	2013 Annual	Annual	T6 instate heavy	0	0	0	0	4.301800395	1.99E-03	3.53E-03	5.02E-03	6.95E-05	0.00E+00	6.39E-05	0.00E+00	0.00E+00
Los Angele	2013 Annual	Annual	T6 instate heavy	0	0	0	0	4.03333173	1.74E-03	3.09E-03	4.11E-03	5.79E-05	0.00E+00	5.33E-05	0.00E+00	0.00E+00
Los Angele	2013 Annual	Annual	T6 instate heavy	0	0	0	0	0.458313742	1.63E-03	2.88E-03	3.55E-03	5.20E-05	0.00E+00	4.79E-05	0.00E+00	0.00E+00
Los Angele	2013 Annual	Annual	T6 instate heavy	0	0	0	0	26.12623079	2.87E-03	5.09E-03	1.49E-02	8.44E-05	0.00E+00	7.76E-05	0.00E+00	0.00E+00

EMFAC 2011

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Los Angele	2026 Annual	LDT1	2.93E-04
Los Angele	2026 Annual	LDT1	2.07E-04
Los Angele	2026 Annual	LDT1	2.93E-04
Los Angele	2026 Annual	LDT1	2.07E-04
Los Angele	2026 Annual	LDT1	2.92E-04
Los Angele	2026 Annual	LDT1	2.07E-04
Los Angele	2026 Annual	LDT1	2.92E-04
Los Angele	2026 Annual	LDT1	2.07E-04
Los Angele	2026 Annual	LDT1	2.91E-04
Los Angele	2026 Annual	LDT1	2.07E-04
Los Angele	2026 Annual	T6 instate heavy	1.14E-03
Los Angele	2026 Annual	T6 instate heavy	1.14E-03
Los Angele	2026 Annual	T6 instate heavy	1.13E-03
Los Angele	2026 Annual	T6 instate heavy	1.13E-03
Los Angele	2026 Annual	T6 instate heavy	1.13E-03
Los Angele	2026 Annual	T6 instate heavy	1.13E-03
Los Angele	2026 Annual	T6 instate heavy	1.13E-03
Los Angele	2026 Annual	T6 instate heavy	1.12E-03
Los Angele	2026 Annual	T6 instate heavy	1.12E-03
Los Angele	2026 Annual	T6 instate heavy	1.12E-03
Los Angele	2026 Annual	T6 instate heavy	1.12E-03
Los Angele	2026 Annual	T6 instate heavy	1.12E-03
Los Angele	2026 Annual	T6 instate heavy	1.12E-03
Los Angele	2026 Annual	T6 instate heavy	1.12E-03
Los Angele	2026 Annual	T6 instate heavy	1.12E-03
Los Angele	2026 Annual	T6 instate heavy	1.12E-03
Los Angele	2026 Annual	T6 instate heavy	1.13E-03
Los Angele	2026 Annual	LDA/LDT1	2.69E-04
Los Angele	2026 Annual	T6 instate heavy	1.13E-03

**onsite transit**

Clean Trucks Program

EMFAC 2011

2013 Estimated Annual Emissions

EMFAC 2011 Vehicle Categories

Los Angeles COUNTY

South Coast AIR BASIN

South Coast AQMD

Area	CalYr	Season	Veh	exhaust CO2 ton/mile
Los Angele	2013 Annual		T6 instate heavy	2.90E-03
Los Angele	2013 Annual		T6 instate heavy	2.90E-03
Los Angele	2013 Annual		T6 instate heavy	2.90E-03
Los Angele	2013 Annual		T6 instate heavy	2.80E-03
Los Angele	2013 Annual		T6 instate heavy	2.80E-03
Los Angele	2013 Annual		T6 instate heavy	2.80E-03
Los Angele	2013 Annual		T6 instate heavy	2.80E-03
Los Angele	2013 Annual		T6 instate heavy	2.79E-03
Los Angele	2013 Annual		T6 instate heavy	2.79E-03
Los Angele	2013 Annual		T6 instate heavy	2.84E-03

EMFAC 2011

2014 Estimated Annual Emissions

EMFAC 2011 Vehicle Categories

Los Angeles COUNTY  
 South Coast AIR BASIN  
 South Coast AQMD

Area	CalYr	Season	Veh	Fuel	MdlYr	Speed (Miles/hr)	Pop (Vehicles)	VMT (Miles/day)	Trips (Trips/day)	ROG_RUNEX (Tons/day)	ROG_IDLEX (Tons/day)	ROG_STREX (Tons/day)	ROG_TOTEX (Tons/day)
Los Angele	2014	Annual	T6 instate heavy	DSL	2007		5	0	42.97908598	0	1.01E-04	0	0
Los Angele	2014	Annual	T6 instate heavy	DSL	2008		5	0	41.49337882	0	9.18E-05	0	0
Los Angele	2014	Annual	T6 instate heavy	DSL	2009		5	0	30.51693483	0	6.27E-05	0	0
Los Angele	2014	Annual	T6 instate heavy	DSL	2010		5	0	38.76293032	0	4.89E-05	0	0
Los Angele	2014	Annual	T6 instate heavy	DSL	2011		5	0	45.81185108	0	5.38E-05	0	0
Los Angele	2014	Annual	T6 instate heavy	DSL	2012		5	0	52.69942025	0	5.72E-05	0	0
Los Angele	2014	Annual	T6 instate heavy	DSL	2013		5	0	59.99442321	0	5.59E-05	0	0
Los Angele	2014	Annual	T6 instate heavy	DSL	2014		5	0	57.8294364	0	5.04E-05	0	0
Los Angele	2014	Annual	T6 instate heavy	DSL	2015		5	0	6.389641735	0	5.20E-06	0	0
Los Angele	2014	Annual	T6 instate heavy	DSL	>2007		5	0	333.4980166	0	0.00042586	0	0

EMFAC 2011  
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Los Angeles COUNTY  
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Area	CalYr	Season	Veh	Fuel	MdlYr	Speed (Miles/hr)	Pop (Vehicles)	VMT (Miles/day)	Trips (Trips/day)	ROG_RUNEX (Tons/day)	ROG_IDLEX (Tons/day)	ROG_STREX (Tons/day)	ROG_TOTEX (Tons/day)
Los Angele	2015	Annual	T6 instate heavy	DSL	2007		5	0	37.23409364	0	9.30E-05	0	0
Los Angele	2015	Annual	T6 instate heavy	DSL	2008		5	0	41.90908192	0	9.89E-05	0	0
Los Angele	2015	Annual	T6 instate heavy	DSL	2009		5	0	28.24556473	0	6.25E-05	0	0
Los Angele	2015	Annual	T6 instate heavy	DSL	2010		5	0	74.87891325	0	1.01E-04	0	0
Los Angele	2015	Annual	T6 instate heavy	DSL	2011		5	0	46.88703779	0	5.91E-05	0	0
Los Angele	2015	Annual	T6 instate heavy	DSL	2012		5	0	53.57462602	0	6.29E-05	0	0
Los Angele	2015	Annual	T6 instate heavy	DSL	2013		5	0	60.12979832	0	5.95E-05	0	0
Los Angele	2015	Annual	T6 instate heavy	DSL	2014		5	0	70.21453079	0	6.54E-05	0	0
Los Angele	2015	Annual	T6 instate heavy	DSL	2015		5	0	66.53671994	0	5.80E-05	0	0
Los Angele	2015	Annual	T6 instate heavy	DSL	2016		5	0	7.11311113	0	5.78E-06	0	0
Los Angele	2015	Annual	T6 instate heavy	DSL	>2007		5	0	407.580302	0	0.000473814	0	0

EMFAC 2011  
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 EMFAC 2011 Vehicle Categories

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Area	CalYr	Season	Veh	Fuel	MdlYr	Speed (Miles/hr)	Pop (Vehicles)	VMT (Miles/day)	Trips (Trips/day)	ROG_RUNEX (Tons/day)	ROG_IDLEX (Tons/day)	ROG_STREX (Tons/day)	ROG_TOTEX (Tons/day)
Los Angele	2016	Annual	T6 instate heavy	DSL	2007		5	0	49.26360884	0	1.30E-04	0	0
Los Angele	2016	Annual	T6 instate heavy	DSL	2008		5	0	34.6540409	0	8.66E-05	0	0
Los Angele	2016	Annual	T6 instate heavy	DSL	2009		5	0	22.64179752	0	5.34E-05	0	0
Los Angele	2016	Annual	T6 instate heavy	DSL	2010		5	0	74.74871951	0	1.06E-04	0	0
Los Angele	2016	Annual	T6 instate heavy	DSL	2011		5	0	57.24680262	0	7.69E-05	0	0
Los Angele	2016	Annual	T6 instate heavy	DSL	2012		5	0	51.42485964	0	6.48E-05	0	0
Los Angele	2016	Annual	T6 instate heavy	DSL	2013		5	0	57.32949414	0	6.01E-05	0	0
Los Angele	2016	Annual	T6 instate heavy	DSL	2014		5	0	66.00103344	0	6.54E-05	0	0
Los Angele	2016	Annual	T6 instate heavy	DSL	2015		5	0	75.76859068	0	7.05E-05	0	0
Los Angele	2016	Annual	T6 instate heavy	DSL	2016		5	0	69.46953654	0	6.06E-05	0	0
Los Angele	2016	Annual	T6 instate heavy	DSL	2017		5	0	7.563383561	0	6.15E-06	0	0
Los Angele	2016	Annual	T6 instate heavy	DSL	>2007		5	0	459.5524201	0	0.000510672	0	0

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Area	CalYr	Season	Veh	ROG_DIURN (Tons/day)	ROG_HTSK (Tons/day)	ROG_RUNLS (Tons/day)	ROG_RESTL (Tons/day)	ROG_TOTAL (Tons/day)	TOG_RUNEX (Tons/day)	TOG_IDLEX (Tons/day)	TOG_STREX (Tons/day)	TOG_TOTEX (Tons/day)
Los Angele	2014	Annual	T6 instate heavy	0	0	0	0	0	1.15E-04	0	0	0
Los Angele	2014	Annual	T6 instate heavy	0	0	0	0	0	1.04E-04	0	0	0
Los Angele	2014	Annual	T6 instate heavy	0	0	0	0	0	7.14E-05	0	0	0
Los Angele	2014	Annual	T6 instate heavy	0	0	0	0	0	5.56E-05	0	0	0
Los Angele	2014	Annual	T6 instate heavy	0	0	0	0	0	6.13E-05	0	0	0
Los Angele	2014	Annual	T6 instate heavy	0	0	0	0	0	6.51E-05	0	0	0
Los Angele	2014	Annual	T6 instate heavy	0	0	0	0	0	6.36E-05	0	0	0
Los Angele	2014	Annual	T6 instate heavy	0	0	0	0	0	5.74E-05	0	0	0
Los Angele	2014	Annual	T6 instate heavy	0	0	0	0	0	5.91E-06	0	0	0
Los Angele	2014	Annual	T6 instate heavy	0	0	0	0	0	0.000484809	0	0	0

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Area	CalYr	Season	Veh	ROG_DIURN (Tons/day)	ROG_HTSK (Tons/day)	ROG_RUNLS (Tons/day)	ROG_RESTL (Tons/day)	ROG_TOTAL (Tons/day)	TOG_RUNEX (Tons/day)	TOG_IDLEX (Tons/day)	TOG_STREX (Tons/day)	TOG_TOTEX (Tons/day)
Los Angele	2015	Annual	T6 instate heavy	0	0	0	0	0	1.06E-04	0	0	0
Los Angele	2015	Annual	T6 instate heavy	0	0	0	0	0	1.13E-04	0	0	0
Los Angele	2015	Annual	T6 instate heavy	0	0	0	0	0	7.11E-05	0	0	0
Los Angele	2015	Annual	T6 instate heavy	0	0	0	0	0	1.14E-04	0	0	0
Los Angele	2015	Annual	T6 instate heavy	0	0	0	0	0	6.73E-05	0	0	0
Los Angele	2015	Annual	T6 instate heavy	0	0	0	0	0	7.16E-05	0	0	0
Los Angele	2015	Annual	T6 instate heavy	0	0	0	0	0	6.78E-05	0	0	0
Los Angele	2015	Annual	T6 instate heavy	0	0	0	0	0	7.44E-05	0	0	0
Los Angele	2015	Annual	T6 instate heavy	0	0	0	0	0	6.61E-05	0	0	0
Los Angele	2015	Annual	T6 instate heavy	0	0	0	0	0	6.58E-06	0	0	0
Los Angele	2015	Annual	T6 instate heavy	0	0	0	0	0	0.000539401	0	0	0

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Area	CalYr	Season	Veh	ROG_DIURN (Tons/day)	ROG_HTSK (Tons/day)	ROG_RUNLS (Tons/day)	ROG_RESTL (Tons/day)	ROG_TOTAL (Tons/day)	TOG_RUNEX (Tons/day)	TOG_IDLEX (Tons/day)	TOG_STREX (Tons/day)	TOG_TOTEX (Tons/day)
Los Angele	2016	Annual	T6 instate heavy	0	0	0	0	0	1.47E-04	0	0	0
Los Angele	2016	Annual	T6 instate heavy	0	0	0	0	0	9.86E-05	0	0	0
Los Angele	2016	Annual	T6 instate heavy	0	0	0	0	0	6.08E-05	0	0	0
Los Angele	2016	Annual	T6 instate heavy	0	0	0	0	0	1.21E-04	0	0	0
Los Angele	2016	Annual	T6 instate heavy	0	0	0	0	0	8.75E-05	0	0	0
Los Angele	2016	Annual	T6 instate heavy	0	0	0	0	0	7.38E-05	0	0	0
Los Angele	2016	Annual	T6 instate heavy	0	0	0	0	0	6.84E-05	0	0	0
Los Angele	2016	Annual	T6 instate heavy	0	0	0	0	0	7.44E-05	0	0	0
Los Angele	2016	Annual	T6 instate heavy	0	0	0	0	0	8.03E-05	0	0	0
Los Angele	2016	Annual	T6 instate heavy	0	0	0	0	0	6.90E-05	0	0	0
Los Angele	2016	Annual	T6 instate heavy	0	0	0	0	0	7.00E-06	0	0	0
Los Angele	2016	Annual	T6 instate heavy	0	0	0	0	0	0.000581361	0	0	0

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Area	CalYr	Season	Veh	TOG_DIURN (Tons/day)	TOG_HTSK (Tons/day)	TOG_RUNLS (Tons/day)	TOG_RESTL (Tons/day)	TOG_TOTAL (Tons/day)	CO_RUNEX (Tons/day)	CO_IDLEX (Tons/day)	CO_STREX (Tons/day)	CO_TOTEX (Tons/day)
Los Angele	2014	Annual	T6 instate heavy	0	0	0	0	0	1.80E-04	0	0	0
Los Angele	2014	Annual	T6 instate heavy	0	0	0	0	0	1.63E-04	0	0	0
Los Angele	2014	Annual	T6 instate heavy	0	0	0	0	0	1.11E-04	0	0	0
Los Angele	2014	Annual	T6 instate heavy	0	0	0	0	0	8.67E-05	0	0	0
Los Angele	2014	Annual	T6 instate heavy	0	0	0	0	0	9.54E-05	0	0	0
Los Angele	2014	Annual	T6 instate heavy	0	0	0	0	0	1.01E-04	0	0	0
Los Angele	2014	Annual	T6 instate heavy	0	0	0	0	0	9.91E-05	0	0	0
Los Angele	2014	Annual	T6 instate heavy	0	0	0	0	0	8.94E-05	0	0	0
Los Angele	2014	Annual	T6 instate heavy	0	0	0	0	0	9.21E-06	0	0	0
Los Angele	2014	Annual	T6 instate heavy	0	0	0	0	0	0.000755171	0	0	0

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Area	CalYr	Season	Veh	TOG_DIURN (Tons/day)	TOG_HTSK (Tons/day)	TOG_RUNLS (Tons/day)	TOG_RESTL (Tons/day)	TOG_TOTAL (Tons/day)	CO_RUNEX (Tons/day)	CO_IDLEX (Tons/day)	CO_STREX (Tons/day)	CO_TOTEX (Tons/day)
Los Angele	2015	Annual	T6 instate heavy	0	0	0	0	0	1.65E-04	0	0	0
Los Angele	2015	Annual	T6 instate heavy	0	0	0	0	0	1.75E-04	0	0	0
Los Angele	2015	Annual	T6 instate heavy	0	0	0	0	0	1.11E-04	0	0	0
Los Angele	2015	Annual	T6 instate heavy	0	0	0	0	0	1.78E-04	0	0	0
Los Angele	2015	Annual	T6 instate heavy	0	0	0	0	0	1.05E-04	0	0	0
Los Angele	2015	Annual	T6 instate heavy	0	0	0	0	0	1.12E-04	0	0	0
Los Angele	2015	Annual	T6 instate heavy	0	0	0	0	0	1.06E-04	0	0	0
Los Angele	2015	Annual	T6 instate heavy	0	0	0	0	0	1.16E-04	0	0	0
Los Angele	2015	Annual	T6 instate heavy	0	0	0	0	0	1.03E-04	0	0	0
Los Angele	2015	Annual	T6 instate heavy	0	0	0	0	0	1.03E-05	0	0	0
Los Angele	2015	Annual	T6 instate heavy	0	0	0	0	0	0.000840206	0	0	0

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Area	CalYr	Season	Veh	TOG_DIURN (Tons/day)	TOG_HTSK (Tons/day)	TOG_RUNLS (Tons/day)	TOG_RESTL (Tons/day)	TOG_TOTAL (Tons/day)	CO_RUNEX (Tons/day)	CO_IDLEX (Tons/day)	CO_STREX (Tons/day)	CO_TOTEX (Tons/day)
Los Angele	2016	Annual	T6 instate heavy	0	0	0	0	0	2.30E-04	0	0	0
Los Angele	2016	Annual	T6 instate heavy	0	0	0	0	0	1.54E-04	0	0	0
Los Angele	2016	Annual	T6 instate heavy	0	0	0	0	0	9.48E-05	0	0	0
Los Angele	2016	Annual	T6 instate heavy	0	0	0	0	0	1.88E-04	0	0	0
Los Angele	2016	Annual	T6 instate heavy	0	0	0	0	0	1.36E-04	0	0	0
Los Angele	2016	Annual	T6 instate heavy	0	0	0	0	0	1.15E-04	0	0	0
Los Angele	2016	Annual	T6 instate heavy	0	0	0	0	0	1.07E-04	0	0	0
Los Angele	2016	Annual	T6 instate heavy	0	0	0	0	0	1.16E-04	0	0	0
Los Angele	2016	Annual	T6 instate heavy	0	0	0	0	0	1.25E-04	0	0	0
Los Angele	2016	Annual	T6 instate heavy	0	0	0	0	0	1.07E-04	0	0	0
Los Angele	2016	Annual	T6 instate heavy	0	0	0	0	0	1.09E-05	0	0	0
Los Angele	2016	Annual	T6 instate heavy	0	0	0	0	0	0.000905566	0	0	0

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Area	CalYr	Season	Veh	NOX_RUNEX (Tons/day)	NOX_IDLEX (Tons/day)	NOX_STREX (Tons/day)	NOX_TOTEX (Tons/day)	CO2_RUNEX (Tons/day)	CO2_IDLEX (Tons/day)	CO2_STREX (Tons/day)	CO2_TOTEX (Tons/day)	CO2_RUNEX(Pavh) (Tons/day)
Los Angele	2014	Annual	T6 instate heavy	6.91E-04	0	0	0	0.125753894	0	0	0	0.123867585
Los Angele	2014	Annual	T6 instate heavy	6.07E-04	0	0	0	0.121406815	0	0	0	0.119585713
Los Angele	2014	Annual	T6 instate heavy	3.82E-04	0	0	0	0.089290484	0	0	0	0.087951126
Los Angele	2014	Annual	T6 instate heavy	1.75E-04	0	0	0	0.109628153	0	0	0	0.10798373
Los Angele	2014	Annual	T6 instate heavy	1.73E-04	0	0	0	0.129563698	0	0	0	0.127620243
Los Angele	2014	Annual	T6 instate heavy	1.52E-04	0	0	0	0.149042914	0	0	0	0.14680727
Los Angele	2014	Annual	T6 instate heavy	1.40E-04	0	0	0	0.169283917	0	0	0	0.166744658
Los Angele	2014	Annual	T6 instate heavy	1.19E-04	0	0	0	0.163175058	0	0	0	0.160727432
Los Angele	2014	Annual	T6 instate heavy	1.13E-05	0	0	0	0.018029402	0	0	0	0.017758961
Los Angele	2014	Annual	T6 instate heavy	0.001759782	0	0	0	0.94942044	0	0	0	0.935179133

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Area	CalYr	Season	Veh	NOX_RUNEX (Tons/day)	NOX_IDLEX (Tons/day)	NOX_STREX (Tons/day)	NOX_TOTEX (Tons/day)	CO2_RUNEX (Tons/day)	CO2_IDLEX (Tons/day)	CO2_STREX (Tons/day)	CO2_TOTEX (Tons/day)	CO2_RUNEX(Pavh) (Tons/day)
Los Angele	2015	Annual	T6 instate heavy	6.12E-04	0	0	0	0.108944435	0	0	0	0.106220824
Los Angele	2015	Annual	T6 instate heavy	6.28E-04	0	0	0	0.122623134	0	0	0	0.119557556
Los Angele	2015	Annual	T6 instate heavy	3.64E-04	0	0	0	0.082644609	0	0	0	0.080578493
Los Angele	2015	Annual	T6 instate heavy	3.64E-04	0	0	0	0.211770288	0	0	0	0.206476031
Los Angele	2015	Annual	T6 instate heavy	1.93E-04	0	0	0	0.132604509	0	0	0	0.129289396
Los Angele	2015	Annual	T6 instate heavy	1.74E-04	0	0	0	0.151518144	0	0	0	0.147730191
Los Angele	2015	Annual	T6 instate heavy	1.58E-04	0	0	0	0.169665899	0	0	0	0.165424252
Los Angele	2015	Annual	T6 instate heavy	1.64E-04	0	0	0	0.198121594	0	0	0	0.193168554
Los Angele	2015	Annual	T6 instate heavy	1.37E-04	0	0	0	0.187744059	0	0	0	0.183050458
Los Angele	2015	Annual	T6 instate heavy	1.26E-05	0	0	0	0.020070787	0	0	0	0.019569018
Los Angele	2015	Annual	T6 instate heavy	0.001567661	0	0	0	1.15413989	0	0	0	1.125286392

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Area	CalYr	Season	Veh	NOX_RUNEX (Tons/day)	NOX_IDLEX (Tons/day)	NOX_STREX (Tons/day)	NOX_TOTEX (Tons/day)	CO2_RUNEX (Tons/day)	CO2_IDLEX (Tons/day)	CO2_STREX (Tons/day)	CO2_TOTEX (Tons/day)	CO2_RUNEX(Pavh) (Tons/day)
Los Angele	2016	Annual	T6 instate heavy	8.25E-04	0	0	0	0.144141982	0	0	0	0.139097012
Los Angele	2016	Annual	T6 instate heavy	5.31E-04	0	0	0	0.101395376	0	0	0	0.097846538
Los Angele	2016	Annual	T6 instate heavy	3.00E-04	0	0	0	0.066248365	0	0	0	0.063929673
Los Angele	2016	Annual	T6 instate heavy	3.88E-04	0	0	0	0.211402078	0	0	0	0.204003005
Los Angele	2016	Annual	T6 instate heavy	2.56E-04	0	0	0	0.161903684	0	0	0	0.156237055
Los Angele	2016	Annual	T6 instate heavy	1.85E-04	0	0	0	0.14543824	0	0	0	0.140347901
Los Angele	2016	Annual	T6 instate heavy	1.67E-04	0	0	0	0.16176439	0	0	0	0.156102637
Los Angele	2016	Annual	T6 instate heavy	1.73E-04	0	0	0	0.186232534	0	0	0	0.179714395
Los Angele	2016	Annual	T6 instate heavy	1.77E-04	0	0	0	0.213793268	0	0	0	0.206310503
Los Angele	2016	Annual	T6 instate heavy	1.43E-04	0	0	0	0.196019473	0	0	0	0.189158792
Los Angele	2016	Annual	T6 instate heavy	1.34E-05	0	0	0	0.021341303	0	0	0	0.020594358
Los Angele	2016	Annual	T6 instate heavy	0.001501712	0	0	0	1.29789497	0	0	0	1.252468646

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Area	CalYr	Season	Veh	CO2_IDLEX(Pavle (Tons/day)	CO2_STREX(Pavk (Tons/day)	CO2_TOTEX(Pavk (Tons/day)	PM10_RUNEX (Tons/day)	PM10_IDLEX (Tons/day)	PM10_STREX (Tons/day)	PM10_TOTEX (Tons/day)	PM10_PMTW (Tons/day)	PM10_PMBW (Tons/day)
Los Angele	2014	Annual	T6 instate heavy	0	0	0	2.53E-06	0	0	0	0	0
Los Angele	2014	Annual	T6 instate heavy	0	0	0	2.29E-06	0	0	0	0	0
Los Angele	2014	Annual	T6 instate heavy	0	0	0	1.57E-06	0	0	0	0	0
Los Angele	2014	Annual	T6 instate heavy	0	0	0	1.84E-06	0	0	0	0	0
Los Angele	2014	Annual	T6 instate heavy	0	0	0	1.99E-06	0	0	0	0	0
Los Angele	2014	Annual	T6 instate heavy	0	0	0	2.06E-06	0	0	0	0	0
Los Angele	2014	Annual	T6 instate heavy	0	0	0	1.91E-06	0	0	0	0	0
Los Angele	2014	Annual	T6 instate heavy	0	0	0	1.67E-06	0	0	0	0	0
Los Angele	2014	Annual	T6 instate heavy	0	0	0	1.66E-07	0	0	0	0	0
Los Angele	2014	Annual	T6 instate heavy	0	0	0	1.35072E-05	0	0	0	0	0

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Area	CalYr	Season	Veh	CO2_IDLEX(Pavle (Tons/day)	CO2_STREX(Pavk (Tons/day)	CO2_TOTEX(Pavk (Tons/day)	PM10_RUNEX (Tons/day)	PM10_IDLEX (Tons/day)	PM10_STREX (Tons/day)	PM10_TOTEX (Tons/day)	PM10_PMTW (Tons/day)	PM10_PMBW (Tons/day)
Los Angele	2015	Annual	T6 instate heavy	0	0	0	2.31E-06	0	0	0	0	0
Los Angele	2015	Annual	T6 instate heavy	0	0	0	2.46E-06	0	0	0	0	0
Los Angele	2015	Annual	T6 instate heavy	0	0	0	1.56E-06	0	0	0	0	0
Los Angele	2015	Annual	T6 instate heavy	0	0	0	3.86E-06	0	0	0	0	0
Los Angele	2015	Annual	T6 instate heavy	0	0	0	2.23E-06	0	0	0	0	0
Los Angele	2015	Annual	T6 instate heavy	0	0	0	2.32E-06	0	0	0	0	0
Los Angele	2015	Annual	T6 instate heavy	0	0	0	2.09E-06	0	0	0	0	0
Los Angele	2015	Annual	T6 instate heavy	0	0	0	2.24E-06	0	0	0	0	0
Los Angele	2015	Annual	T6 instate heavy	0	0	0	1.93E-06	0	0	0	0	0
Los Angele	2015	Annual	T6 instate heavy	0	0	0	1.85E-07	0	0	0	0	0
Los Angele	2015	Annual	T6 instate heavy	0	0	0	1.64122E-05	0	0	0	0	0

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Area	CalYr	Season	Veh	CO2_IDLEX(Pavle (Tons/day)	CO2_STREX(Pavk (Tons/day)	CO2_TOTEX(Pavk (Tons/day)	PM10_RUNEX (Tons/day)	PM10_IDLEX (Tons/day)	PM10_STREX (Tons/day)	PM10_TOTEX (Tons/day)	PM10_PMTW (Tons/day)	PM10_PMBW (Tons/day)
Los Angele	2016	Annual	T6 instate heavy	0	0	0	3.21E-06	0	0	0	0	0
Los Angele	2016	Annual	T6 instate heavy	0	0	0	2.15E-06	0	0	0	0	0
Los Angele	2016	Annual	T6 instate heavy	0	0	0	1.33E-06	0	0	0	0	0
Los Angele	2016	Annual	T6 instate heavy	0	0	0	4.13E-06	0	0	0	0	0
Los Angele	2016	Annual	T6 instate heavy	0	0	0	2.95E-06	0	0	0	0	0
Los Angele	2016	Annual	T6 instate heavy	0	0	0	2.44E-06	0	0	0	0	0
Los Angele	2016	Annual	T6 instate heavy	0	0	0	2.16E-06	0	0	0	0	0
Los Angele	2016	Annual	T6 instate heavy	0	0	0	2.30E-06	0	0	0	0	0
Los Angele	2016	Annual	T6 instate heavy	0	0	0	2.41E-06	0	0	0	0	0
Los Angele	2016	Annual	T6 instate heavy	0	0	0	2.01E-06	0	0	0	0	0
Los Angele	2016	Annual	T6 instate heavy	0	0	0	1.97E-07	0	0	0	0	0
Los Angele	2016	Annual	T6 instate heavy	0	0	0	1.86032E-05	0	0	0	0	0



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Area	CalYr	Season	Veh	PM10_TOTAL (Tons/day)	PM2_5_RUNEX (Tons/day)	PM2_5_IDLEX (Tons/day)	PM2_5_STREX (Tons/day)	PM2_5_TOTEX (Tons/day)	PM2_5_PMTW (Tons/day)	PM2_5_PMBW (Tons/day)	PM2_5_TOTAL (Tons/day)	SOX_RUNEX (Tons/day)
Los Angele	2014	Annual	T6 instate heavy	0	2.32E-06	0	0	0	0	0	0	0
Los Angele	2014	Annual	T6 instate heavy	0	2.11E-06	0	0	0	0	0	0	0
Los Angele	2014	Annual	T6 instate heavy	0	1.45E-06	0	0	0	0	0	0	0
Los Angele	2014	Annual	T6 instate heavy	0	1.70E-06	0	0	0	0	0	0	0
Los Angele	2014	Annual	T6 instate heavy	0	1.83E-06	0	0	0	0	0	0	0
Los Angele	2014	Annual	T6 instate heavy	0	1.90E-06	0	0	0	0	0	0	0
Los Angele	2014	Annual	T6 instate heavy	0	1.76E-06	0	0	0	0	0	0	0
Los Angele	2014	Annual	T6 instate heavy	0	1.54E-06	0	0	0	0	0	0	0
Los Angele	2014	Annual	T6 instate heavy	0	1.53E-07	0	0	0	0	0	0	0
Los Angele	2014	Annual	T6 instate heavy	0	1.24266E-05	0	0	0	0	0	0	0

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Area	CalYr	Season	Veh	PM10_TOTAL (Tons/day)	PM2_5_RUNEX (Tons/day)	PM2_5_IDLEX (Tons/day)	PM2_5_STREX (Tons/day)	PM2_5_TOTEX (Tons/day)	PM2_5_PMTW (Tons/day)	PM2_5_PMBW (Tons/day)	PM2_5_TOTAL (Tons/day)	SOX_RUNEX (Tons/day)
Los Angele	2015	Annual	T6 instate heavy	0	2.13E-06	0	0	0	0	0	0	0
Los Angele	2015	Annual	T6 instate heavy	0	2.27E-06	0	0	0	0	0	0	0
Los Angele	2015	Annual	T6 instate heavy	0	1.44E-06	0	0	0	0	0	0	0
Los Angele	2015	Annual	T6 instate heavy	0	3.55E-06	0	0	0	0	0	0	0
Los Angele	2015	Annual	T6 instate heavy	0	2.05E-06	0	0	0	0	0	0	0
Los Angele	2015	Annual	T6 instate heavy	0	2.14E-06	0	0	0	0	0	0	0
Los Angele	2015	Annual	T6 instate heavy	0	1.93E-06	0	0	0	0	0	0	0
Los Angele	2015	Annual	T6 instate heavy	0	2.06E-06	0	0	0	0	0	0	0
Los Angele	2015	Annual	T6 instate heavy	0	1.77E-06	0	0	0	0	0	0	0
Los Angele	2015	Annual	T6 instate heavy	0	1.70E-07	0	0	0	0	0	0	0
Los Angele	2015	Annual	T6 instate heavy	0	1.50992E-05	0	0	0	0	0	0	0

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Area	CalYr	Season	Veh	PM10_TOTAL (Tons/day)	PM2_5_RUNEX (Tons/day)	PM2_5_IDLEX (Tons/day)	PM2_5_STREX (Tons/day)	PM2_5_TOTEX (Tons/day)	PM2_5_PMTW (Tons/day)	PM2_5_PMBW (Tons/day)	PM2_5_TOTAL (Tons/day)	SOX_RUNEX (Tons/day)
Los Angele	2016	Annual	T6 instate heavy	0	2.96E-06	0	0	0	0	0	0	0
Los Angele	2016	Annual	T6 instate heavy	0	1.98E-06	0	0	0	0	0	0	0
Los Angele	2016	Annual	T6 instate heavy	0	1.22E-06	0	0	0	0	0	0	0
Los Angele	2016	Annual	T6 instate heavy	0	3.80E-06	0	0	0	0	0	0	0
Los Angele	2016	Annual	T6 instate heavy	0	2.71E-06	0	0	0	0	0	0	0
Los Angele	2016	Annual	T6 instate heavy	0	2.25E-06	0	0	0	0	0	0	0
Los Angele	2016	Annual	T6 instate heavy	0	1.99E-06	0	0	0	0	0	0	0
Los Angele	2016	Annual	T6 instate heavy	0	2.11E-06	0	0	0	0	0	0	0
Los Angele	2016	Annual	T6 instate heavy	0	2.22E-06	0	0	0	0	0	0	0
Los Angele	2016	Annual	T6 instate heavy	0	1.85E-06	0	0	0	0	0	0	0
Los Angele	2016	Annual	T6 instate heavy	0	1.81E-07	0	0	0	0	0	0	0
Los Angele	2016	Annual	T6 instate heavy	0	1.71149E-05	0	0	0	0	0	0	0

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Area	CalYr	Season	Veh	SOX_IDLEX (Tons/day)	SOX_STREX (Tons/day)	SOX_TOTEX (Tons/day)	FUEL_GAS (1000 Gallons)	FUEL_DSL (1000 Gallons)	exhaust ROG lb/mile	exhaust CO lb/mile	exhaust NOx lb/mile	exhaust PM10 lb/mile	tire wear a PM10 lb/mile	exhaust PM2.5 lb/mile	tire wear a PM2.5 lb/mile	exhaust SOx lb/mile
Los Angele	2014	Annual	T6 instate heavy	0	0	0	0	3.52775548	4.72E-03	8.37E-03	3.22E-02	1.18E-04	0.00E+00	1.08E-04	0.00E+00	0.00E+00
Los Angele	2014	Annual	T6 instate heavy	0	0	0	0	3.403968684	4.42E-03	7.85E-03	2.92E-02	1.10E-04	0.00E+00	1.02E-04	0.00E+00	0.00E+00
Los Angele	2014	Annual	T6 instate heavy	0	0	0	0	2.50232019	4.11E-03	7.29E-03	2.51E-02	1.03E-04	0.00E+00	9.48E-05	0.00E+00	0.00E+00
Los Angele	2014	Annual	T6 instate heavy	0	0	0	0	3.071940637	2.52E-03	4.47E-03	9.05E-03	9.51E-05	0.00E+00	8.75E-05	0.00E+00	0.00E+00
Los Angele	2014	Annual	T6 instate heavy	0	0	0	0	3.629526566	2.35E-03	4.17E-03	7.54E-03	8.68E-05	0.00E+00	7.98E-05	0.00E+00	0.00E+00
Los Angele	2014	Annual	T6 instate heavy	0	0	0	0	4.174593938	2.17E-03	3.85E-03	5.76E-03	7.82E-05	0.00E+00	7.19E-05	0.00E+00	0.00E+00
Los Angele	2014	Annual	T6 instate heavy	0	0	0	0	4.741777587	1.86E-03	3.30E-03	4.68E-03	6.37E-05	0.00E+00	5.86E-05	0.00E+00	0.00E+00
Los Angele	2014	Annual	T6 instate heavy	0	0	0	0	4.570663585	1.74E-03	3.09E-03	4.11E-03	5.79E-05	0.00E+00	5.33E-05	0.00E+00	0.00E+00
Los Angele	2014	Annual	T6 instate heavy	0	0	0	0	0.510591862	1.63E-03	2.88E-03	3.55E-03	5.20E-05	0.00E+00	4.79E-05	0.00E+00	0.00E+00
Los Angele	2014	Annual	T6 instate heavy	0	0	0	0	26.60538305	2.55E-03	4.53E-03	1.06E-02	8.10E-05	0.00E+00	7.45E-05	0.00E+00	0.00E+00

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Los Angele	2015	Annual	T6 instate heavy	0	0	0	0	2.919741761	5.00E-03	8.86E-03	3.29E-02	1.24E-04	0.00E+00	1.14E-04	0.00E+00	0.00E+00
Los Angele	2015	Annual	T6 instate heavy	0	0	0	0	3.288109432	4.72E-03	8.37E-03	3.00E-02	1.18E-04	0.00E+00	1.08E-04	0.00E+00	0.00E+00
Los Angele	2015	Annual	T6 instate heavy	0	0	0	0	2.212396963	4.42E-03	7.85E-03	2.58E-02	1.10E-04	0.00E+00	1.02E-04	0.00E+00	0.00E+00
Los Angele	2015	Annual	T6 instate heavy	0	0	0	0	5.69941819	2.69E-03	4.76E-03	9.73E-03	1.03E-04	0.00E+00	9.48E-05	0.00E+00	0.00E+00
Los Angele	2015	Annual	T6 instate heavy	0	0	0	0	3.547768637	2.52E-03	4.47E-03	8.25E-03	9.51E-05	0.00E+00	8.75E-05	0.00E+00	0.00E+00
Los Angele	2015	Annual	T6 instate heavy	0	0	0	0	4.052636847	2.35E-03	4.17E-03	6.48E-03	8.68E-05	0.00E+00	7.98E-05	0.00E+00	0.00E+00
Los Angele	2015	Annual	T6 instate heavy	0	0	0	0	4.537449065	1.98E-03	3.51E-03	5.25E-03	6.96E-05	0.00E+00	6.41E-05	0.00E+00	0.00E+00
Los Angele	2015	Annual	T6 instate heavy	0	0	0	0	5.29863158	1.86E-03	3.30E-03	4.68E-03	6.37E-05	0.00E+00	5.86E-05	0.00E+00	0.00E+00
Los Angele	2015	Annual	T6 instate heavy	0	0	0	0	5.021091184	1.74E-03	3.09E-03	4.11E-03	5.79E-05	0.00E+00	5.33E-05	0.00E+00	0.00E+00
Los Angele	2015	Annual	T6 instate heavy	0	0	0	0	0.54269843	1.63E-03	2.88E-03	3.55E-03	5.20E-05	0.00E+00	4.79E-05	0.00E+00	0.00E+00
Los Angele	2015	Annual	T6 instate heavy	0	0	0	0	30.9120909	2.33E-03	4.12E-03	7.69E-03	8.05E-05	0.00E+00	7.41E-05	0.00E+00	0.00E+00

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Los Angele	2016	Annual	T6 instate heavy	0	0	0	0	3.865468945	5.26E-03	9.33E-03	3.35E-02	1.30E-04	0.00E+00	1.20E-04	0.00E+00	0.00E+00
Los Angele	2016	Annual	T6 instate heavy	0	0	0	0	2.72075319	5.00E-03	8.86E-03	3.06E-02	1.24E-04	0.00E+00	1.14E-04	0.00E+00	0.00E+00
Los Angele	2016	Annual	T6 instate heavy	0	0	0	0	1.774423592	4.72E-03	8.37E-03	2.65E-02	1.18E-04	0.00E+00	1.08E-04	0.00E+00	0.00E+00
Los Angele	2016	Annual	T6 instate heavy	0	0	0	0	5.695137881	2.84E-03	5.04E-03	1.04E-02	1.10E-04	0.00E+00	1.02E-04	0.00E+00	0.00E+00
Los Angele	2016	Annual	T6 instate heavy	0	0	0	0	4.342462891	2.69E-03	4.76E-03	8.93E-03	1.03E-04	0.00E+00	9.48E-05	0.00E+00	0.00E+00
Los Angele	2016	Annual	T6 instate heavy	0	0	0	0	3.891121897	2.52E-03	4.47E-03	7.18E-03	9.51E-05	0.00E+00	8.75E-05	0.00E+00	0.00E+00
Los Angele	2016	Annual	T6 instate heavy	0	0	0	0	4.32676422	2.10E-03	3.72E-03	5.81E-03	7.54E-05	0.00E+00	6.94E-05	0.00E+00	0.00E+00
Los Angele	2016	Annual	T6 instate heavy	0	0	0	0	4.980488676	1.98E-03	3.51E-03	5.25E-03	6.96E-05	0.00E+00	6.41E-05	0.00E+00	0.00E+00
Los Angele	2016	Annual	T6 instate heavy	0	0	0	0	5.71774909	1.86E-03	3.30E-03	4.68E-03	6.37E-05	0.00E+00	5.86E-05	0.00E+00	0.00E+00
Los Angele	2016	Annual	T6 instate heavy	0	0	0	0	5.242400993	1.74E-03	3.09E-03	4.11E-03	5.79E-05	0.00E+00	5.33E-05	0.00E+00	0.00E+00
Los Angele	2016	Annual	T6 instate heavy	0	0	0	0	0.577048199	1.63E-03	2.88E-03	3.55E-03	5.20E-05	0.00E+00	4.79E-05	0.00E+00	0.00E+00
Los Angele	2016	Annual	T6 instate heavy	0	0	0	0	34.77317385	2.22E-03	3.94E-03	6.54E-03	8.10E-05	0.00E+00	7.45E-05	0.00E+00	0.00E+00



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Area	CalYr	Season	Veh	Fuel	MdlYr	Speed (Miles/hr)	Pop (Vehicles)	VMT (Miles/day)	Trips (Trips/day)	ROG_RUNEX (Tons/day)	ROG_IDLEX (Tons/day)	ROG_STREX (Tons/day)	ROG_TOTEX (Tons/day)
Los Angele	2017	Annual	T6 instate heavy	DSL	2007		5	0	45.47560239	0	1.25E-04	0	0
Los Angele	2017	Annual	T6 instate heavy	DSL	2008		5	0	42.6152182	0	1.12E-04	0	0
Los Angele	2017	Annual	T6 instate heavy	DSL	2009		5	0	18.26984367	0	4.57E-05	0	0
Los Angele	2017	Annual	T6 instate heavy	DSL	2010		5	0	59.08869282	0	8.83E-05	0	0
Los Angele	2017	Annual	T6 instate heavy	DSL	2011		5	0	49.34430066	0	7.01E-05	0	0
Los Angele	2017	Annual	T6 instate heavy	DSL	2012		5	0	49.67778063	0	6.67E-05	0	0
Los Angele	2017	Annual	T6 instate heavy	DSL	2013		5	0	54.650139	0	6.04E-05	0	0
Los Angele	2017	Annual	T6 instate heavy	DSL	2014		5	0	62.49254007	0	6.55E-05	0	0
Los Angele	2017	Annual	T6 instate heavy	DSL	2015		5	0	70.72863881	0	7.00E-05	0	0
Los Angele	2017	Annual	T6 instate heavy	DSL	2016		5	0	78.55944407	0	7.31E-05	0	0
Los Angele	2017	Annual	T6 instate heavy	DSL	2017		5	0	73.3462697	0	6.40E-05	0	0
Los Angele	2017	Annual	T6 instate heavy	DSL	2018		5	0	7.661451149	0	6.23E-06	0	0
Los Angele	2017	Annual	T6 instate heavy	DSL	>2007		5	0	446.4605641	0	0.000476093	0	0

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Los Angele	2018	Annual	T6 instate heavy	DSL	2007		5	0	39.99905655	0	1.15E-04	0	0
Los Angele	2018	Annual	T6 instate heavy	DSL	2008		5	0	38.46951704	0	1.06E-04	0	0
Los Angele	2018	Annual	T6 instate heavy	DSL	2009		5	0	23.70975061	0	6.24E-05	0	0
Los Angele	2018	Annual	T6 instate heavy	DSL	2010		5	0	46.10199823	0	7.21E-05	0	0
Los Angele	2018	Annual	T6 instate heavy	DSL	2011		5	0	38.61942052	0	5.77E-05	0	0
Los Angele	2018	Annual	T6 instate heavy	DSL	2012		5	0	42.29502417	0	6.01E-05	0	0
Los Angele	2018	Annual	T6 instate heavy	DSL	2013		5	0	52.13949154	0	6.04E-05	0	0
Los Angele	2018	Annual	T6 instate heavy	DSL	2014		5	0	58.83375352	0	6.50E-05	0	0
Los Angele	2018	Annual	T6 instate heavy	DSL	2015		5	0	66.13940514	0	6.93E-05	0	0
Los Angele	2018	Annual	T6 instate heavy	DSL	2016		5	0	72.42499403	0	7.17E-05	0	0
Los Angele	2018	Annual	T6 instate heavy	DSL	2017		5	0	81.91518525	0	7.63E-05	0	0
Los Angele	2018	Annual	T6 instate heavy	DSL	2018		5	0	73.37678212	0	6.40E-05	0	0
Los Angele	2018	Annual	T6 instate heavy	DSL	2019		5	0	7.659742606	0	6.23E-06	0	0
Los Angele	2018	Annual	T6 instate heavy	DSL	>2007		5	0	454.7843784	0	0.000473015	0	0

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Area	CalYr	Season	Veh	Fuel	MdlYr	Speed (Miles/hr)	Pop (Vehicles)	VMT (Miles/day)	Trips (Trips/day)	ROG_RUNEX (Tons/day)	ROG_IDLEX (Tons/day)	ROG_STREX (Tons/day)	ROG_TOTEX (Tons/day)
Los Angele	2019	Annual	T6 instate heavy	DSL	2007		5	0	41.95487772	0	1.25E-04	0	0
Los Angele	2019	Annual	T6 instate heavy	DSL	2008		5	0	41.89691921	0	1.20E-04	0	0

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Los Angele	2017	Annual	T6 instate heavy	0	0	0	0	0	1.43E-04	0	0	0
Los Angele	2017	Annual	T6 instate heavy	0	0	0	0	0	1.28E-04	0	0	0
Los Angele	2017	Annual	T6 instate heavy	0	0	0	0	0	5.20E-05	0	0	0
Los Angele	2017	Annual	T6 instate heavy	0	0	0	0	0	1.01E-04	0	0	0
Los Angele	2017	Annual	T6 instate heavy	0	0	0	0	0	7.98E-05	0	0	0
Los Angele	2017	Annual	T6 instate heavy	0	0	0	0	0	7.60E-05	0	0	0
Los Angele	2017	Annual	T6 instate heavy	0	0	0	0	0	6.87E-05	0	0	0
Los Angele	2017	Annual	T6 instate heavy	0	0	0	0	0	7.46E-05	0	0	0
Los Angele	2017	Annual	T6 instate heavy	0	0	0	0	0	7.97E-05	0	0	0
Los Angele	2017	Annual	T6 instate heavy	0	0	0	0	0	8.33E-05	0	0	0
Los Angele	2017	Annual	T6 instate heavy	0	0	0	0	0	7.28E-05	0	0	0
Los Angele	2017	Annual	T6 instate heavy	0	0	0	0	0	7.09E-06	0	0	0
Los Angele	2017	Annual	T6 instate heavy	0	0	0	0	0	0.000541996	0	0	0

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Area	CalYr	Season	Veh	ROG_DIURN (Tons/day)	ROG_HTSK (Tons/day)	ROG_RUNLS (Tons/day)	ROG_RESTL (Tons/day)	ROG_TOTAL (Tons/day)	TOG_RUNEX (Tons/day)	TOG_IDLEX (Tons/day)	TOG_STREX (Tons/day)	TOG_TOTEX (Tons/day)
Los Angele	2018	Annual	T6 instate heavy	0	0	0	0	0	1.31E-04	0	0	0
Los Angele	2018	Annual	T6 instate heavy	0	0	0	0	0	1.21E-04	0	0	0
Los Angele	2018	Annual	T6 instate heavy	0	0	0	0	0	7.10E-05	0	0	0
Los Angele	2018	Annual	T6 instate heavy	0	0	0	0	0	8.20E-05	0	0	0
Los Angele	2018	Annual	T6 instate heavy	0	0	0	0	0	6.57E-05	0	0	0
Los Angele	2018	Annual	T6 instate heavy	0	0	0	0	0	6.84E-05	0	0	0
Los Angele	2018	Annual	T6 instate heavy	0	0	0	0	0	6.87E-05	0	0	0
Los Angele	2018	Annual	T6 instate heavy	0	0	0	0	0	7.40E-05	0	0	0
Los Angele	2018	Annual	T6 instate heavy	0	0	0	0	0	7.89E-05	0	0	0
Los Angele	2018	Annual	T6 instate heavy	0	0	0	0	0	8.16E-05	0	0	0
Los Angele	2018	Annual	T6 instate heavy	0	0	0	0	0	8.68E-05	0	0	0
Los Angele	2018	Annual	T6 instate heavy	0	0	0	0	0	7.28E-05	0	0	0
Los Angele	2018	Annual	T6 instate heavy	0	0	0	0	0	7.09E-06	0	0	0
Los Angele	2018	Annual	T6 instate heavy	0	0	0	0	0	0.000538492	0	0	0

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Area	CalYr	Season	Veh	ROG_DIURN (Tons/day)	ROG_HTSK (Tons/day)	ROG_RUNLS (Tons/day)	ROG_RESTL (Tons/day)	ROG_TOTAL (Tons/day)	TOG_RUNEX (Tons/day)	TOG_IDLEX (Tons/day)	TOG_STREX (Tons/day)	TOG_TOTEX (Tons/day)
Los Angele	2019	Annual	T6 instate heavy	0	0	0	0	0	1.42E-04	0	0	0
Los Angele	2019	Annual	T6 instate heavy	0	0	0	0	0	1.37E-04	0	0	0

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Area	CalYr	Season	Veh	TOG_DIURN (Tons/day)	TOG_HTSK (Tons/day)	TOG_RUNLS (Tons/day)	TOG_RESTL (Tons/day)	TOG_TOTAL (Tons/day)	CO_RUNEX (Tons/day)	CO_IDLEX (Tons/day)	CO_STREX (Tons/day)	CO_TOTEX (Tons/day)
Los Angele	2017	Annual	T6 instate heavy	0	0	0	0	0	2.22E-04	0	0	0
Los Angele	2017	Annual	T6 instate heavy	0	0	0	0	0	1.99E-04	0	0	0
Los Angele	2017	Annual	T6 instate heavy	0	0	0	0	0	8.10E-05	0	0	0
Los Angele	2017	Annual	T6 instate heavy	0	0	0	0	0	1.57E-04	0	0	0
Los Angele	2017	Annual	T6 instate heavy	0	0	0	0	0	1.24E-04	0	0	0
Los Angele	2017	Annual	T6 instate heavy	0	0	0	0	0	1.18E-04	0	0	0
Los Angele	2017	Annual	T6 instate heavy	0	0	0	0	0	1.07E-04	0	0	0
Los Angele	2017	Annual	T6 instate heavy	0	0	0	0	0	1.16E-04	0	0	0
Los Angele	2017	Annual	T6 instate heavy	0	0	0	0	0	1.24E-04	0	0	0
Los Angele	2017	Annual	T6 instate heavy	0	0	0	0	0	1.30E-04	0	0	0
Los Angele	2017	Annual	T6 instate heavy	0	0	0	0	0	1.13E-04	0	0	0
Los Angele	2017	Annual	T6 instate heavy	0	0	0	0	0	1.10E-05	0	0	0
Los Angele	2017	Annual	T6 instate heavy	0	0	0	0	0	0.000844248	0	0	0

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Area	CalYr	Season	Veh	TOG_DIURN (Tons/day)	TOG_HTSK (Tons/day)	TOG_RUNLS (Tons/day)	TOG_RESTL (Tons/day)	TOG_TOTAL (Tons/day)	CO_RUNEX (Tons/day)	CO_IDLEX (Tons/day)	CO_STREX (Tons/day)	CO_TOTEX (Tons/day)
Los Angele	2018	Annual	T6 instate heavy	0	0	0	0	0	2.03E-04	0	0	0
Los Angele	2018	Annual	T6 instate heavy	0	0	0	0	0	1.88E-04	0	0	0
Los Angele	2018	Annual	T6 instate heavy	0	0	0	0	0	1.11E-04	0	0	0
Los Angele	2018	Annual	T6 instate heavy	0	0	0	0	0	1.28E-04	0	0	0
Los Angele	2018	Annual	T6 instate heavy	0	0	0	0	0	1.02E-04	0	0	0
Los Angele	2018	Annual	T6 instate heavy	0	0	0	0	0	1.07E-04	0	0	0
Los Angele	2018	Annual	T6 instate heavy	0	0	0	0	0	1.07E-04	0	0	0
Los Angele	2018	Annual	T6 instate heavy	0	0	0	0	0	1.15E-04	0	0	0
Los Angele	2018	Annual	T6 instate heavy	0	0	0	0	0	1.23E-04	0	0	0
Los Angele	2018	Annual	T6 instate heavy	0	0	0	0	0	1.27E-04	0	0	0
Los Angele	2018	Annual	T6 instate heavy	0	0	0	0	0	1.35E-04	0	0	0
Los Angele	2018	Annual	T6 instate heavy	0	0	0	0	0	1.13E-04	0	0	0
Los Angele	2018	Annual	T6 instate heavy	0	0	0	0	0	1.10E-05	0	0	0
Los Angele	2018	Annual	T6 instate heavy	0	0	0	0	0	0.00083879	0	0	0

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Area	CalYr	Season	Veh	TOG_DIURN (Tons/day)	TOG_HTSK (Tons/day)	TOG_RUNLS (Tons/day)	TOG_RESTL (Tons/day)	TOG_TOTAL (Tons/day)	CO_RUNEX (Tons/day)	CO_IDLEX (Tons/day)	CO_STREX (Tons/day)	CO_TOTEX (Tons/day)
Los Angele	2019	Annual	T6 instate heavy	0	0	0	0	0	2.21E-04	0	0	0
Los Angele	2019	Annual	T6 instate heavy	0	0	0	0	0	2.13E-04	0	0	0

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Los Angele	2017	Annual	T6 instate heavy	7.76E-04	0	0	0	0.133058531	0	0	0	0.126405605
Los Angele	2017	Annual	T6 instate heavy	6.66E-04	0	0	0	0.124689241	0	0	0	0.118454779
Los Angele	2017	Annual	T6 instate heavy	2.48E-04	0	0	0	0.053456325	0	0	0	0.050783508
Los Angele	2017	Annual	T6 instate heavy	3.24E-04	0	0	0	0.167112862	0	0	0	0.158757219
Los Angele	2017	Annual	T6 instate heavy	2.36E-04	0	0	0	0.139554066	0	0	0	0.132576362
Los Angele	2017	Annual	T6 instate heavy	1.95E-04	0	0	0	0.140497204	0	0	0	0.133472343
Los Angele	2017	Annual	T6 instate heavy	1.74E-04	0	0	0	0.154204159	0	0	0	0.146493951
Los Angele	2017	Annual	T6 instate heavy	1.82E-04	0	0	0	0.176332755	0	0	0	0.167516117
Los Angele	2017	Annual	T6 instate heavy	1.86E-04	0	0	0	0.199572233	0	0	0	0.189593621
Los Angele	2017	Annual	T6 instate heavy	1.84E-04	0	0	0	0.221668109	0	0	0	0.210584704
Los Angele	2017	Annual	T6 instate heavy	1.51E-04	0	0	0	0.206958299	0	0	0	0.196610384
Los Angele	2017	Annual	T6 instate heavy	1.36E-05	0	0	0	0.021618017	0	0	0	0.020537116
Los Angele	2017	Annual	T6 instate heavy	0.001320574	0	0	0	1.260404841	0	0	0	1.197384599

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Los Angele	2018	Annual	T6 instate heavy	6.94E-04	0	0	0	0.117034529	0	0	0	0.109427285
Los Angele	2018	Annual	T6 instate heavy	6.13E-04	0	0	0	0.1125592	0	0	0	0.105242852
Los Angele	2018	Annual	T6 instate heavy	3.29E-04	0	0	0	0.069373124	0	0	0	0.064863871
Los Angele	2018	Annual	T6 instate heavy	2.66E-04	0	0	0	0.130384283	0	0	0	0.121909305
Los Angele	2018	Annual	T6 instate heavy	1.97E-04	0	0	0	0.109222282	0	0	0	0.102122834
Los Angele	2018	Annual	T6 instate heavy	1.79E-04	0	0	0	0.119617514	0	0	0	0.111842376
Los Angele	2018	Annual	T6 instate heavy	1.79E-04	0	0	0	0.147119963	0	0	0	0.137557166
Los Angele	2018	Annual	T6 instate heavy	1.87E-04	0	0	0	0.1660089	0	0	0	0.155218322
Los Angele	2018	Annual	T6 instate heavy	1.92E-04	0	0	0	0.186622972	0	0	0	0.174492478
Los Angele	2018	Annual	T6 instate heavy	1.90E-04	0	0	0	0.204358772	0	0	0	0.191075452
Los Angele	2018	Annual	T6 instate heavy	1.92E-04	0	0	0	0.231136873	0	0	0	0.216112976
Los Angele	2018	Annual	T6 instate heavy	1.51E-04	0	0	0	0.207044395	0	0	0	0.193586509
Los Angele	2018	Annual	T6 instate heavy	1.36E-05	0	0	0	0.021613196	0	0	0	0.020208338
Los Angele	2018	Annual	T6 instate heavy	0.001284038	0	0	0	1.283522585	0	0	0	1.200093617

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Los Angele	2019	Annual	T6 instate heavy	7.39E-04	0	0	0	0.12275713	0	0	0	0.112936559
Los Angele	2019	Annual	T6 instate heavy	6.79E-04	0	0	0	0.122587547	0	0	0	0.112780543

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Los Angele	2017	Annual	T6 instate heavy	0	0	0	3.10E-06	0	0	0	0	0
Los Angele	2017	Annual	T6 instate heavy	0	0	0	2.78E-06	0	0	0	0	0
Los Angele	2017	Annual	T6 instate heavy	0	0	0	1.13E-06	0	0	0	0	0
Los Angele	2017	Annual	T6 instate heavy	0	0	0	3.47E-06	0	0	0	0	0
Los Angele	2017	Annual	T6 instate heavy	0	0	0	2.73E-06	0	0	0	0	0
Los Angele	2017	Annual	T6 instate heavy	0	0	0	2.56E-06	0	0	0	0	0
Los Angele	2017	Annual	T6 instate heavy	0	0	0	2.21E-06	0	0	0	0	0
Los Angele	2017	Annual	T6 instate heavy	0	0	0	2.36E-06	0	0	0	0	0
Los Angele	2017	Annual	T6 instate heavy	0	0	0	2.46E-06	0	0	0	0	0
Los Angele	2017	Annual	T6 instate heavy	0	0	0	2.50E-06	0	0	0	0	0
Los Angele	2017	Annual	T6 instate heavy	0	0	0	2.12E-06	0	0	0	0	0
Los Angele	2017	Annual	T6 instate heavy	0	0	0	1.99E-07	0	0	0	0	0
Los Angele	2017	Annual	T6 instate heavy	0	0	0	1.71409E-05	0	0	0	0	0

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Area	CalYr	Season	Veh	CO2_IDLEX(Pavle (Tons/day)	CO2_STREX(Pavk (Tons/day)	CO2_TOTEX(Pavj (Tons/day)	PM10_RUNEX (Tons/day)	PM10_IDLEX (Tons/day)	PM10_STREX (Tons/day)	PM10_TOTEX (Tons/day)	PM10_PMTW (Tons/day)	PM10_PMBW (Tons/day)
Los Angele	2018	Annual	T6 instate heavy	0	0	0	2.84E-06	0	0	0	0	0
Los Angele	2018	Annual	T6 instate heavy	0	0	0	2.62E-06	0	0	0	0	0
Los Angele	2018	Annual	T6 instate heavy	0	0	0	1.55E-06	0	0	0	0	0
Los Angele	2018	Annual	T6 instate heavy	0	0	0	2.86E-06	0	0	0	0	0
Los Angele	2018	Annual	T6 instate heavy	0	0	0	2.27E-06	0	0	0	0	0
Los Angele	2018	Annual	T6 instate heavy	0	0	0	2.34E-06	0	0	0	0	0
Los Angele	2018	Annual	T6 instate heavy	0	0	0	2.25E-06	0	0	0	0	0
Los Angele	2018	Annual	T6 instate heavy	0	0	0	2.38E-06	0	0	0	0	0
Los Angele	2018	Annual	T6 instate heavy	0	0	0	2.49E-06	0	0	0	0	0
Los Angele	2018	Annual	T6 instate heavy	0	0	0	2.52E-06	0	0	0	0	0
Los Angele	2018	Annual	T6 instate heavy	0	0	0	2.61E-06	0	0	0	0	0
Los Angele	2018	Annual	T6 instate heavy	0	0	0	2.12E-06	0	0	0	0	0
Los Angele	2018	Annual	T6 instate heavy	0	0	0	1.99E-07	0	0	0	0	0
Los Angele	2018	Annual	T6 instate heavy	0	0	0	1.69166E-05	0	0	0	0	0

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Area	CalYr	Season	Veh	CO2_IDLEX(Pavle (Tons/day)	CO2_STREX(Pavk (Tons/day)	CO2_TOTEX(Pavj (Tons/day)	PM10_RUNEX (Tons/day)	PM10_IDLEX (Tons/day)	PM10_STREX (Tons/day)	PM10_TOTEX (Tons/day)	PM10_PMTW (Tons/day)	PM10_PMBW (Tons/day)
Los Angele	2019	Annual	T6 instate heavy	0	0	0	3.08E-06	0	0	0	0	0
Los Angele	2019	Annual	T6 instate heavy	0	0	0	2.97E-06	0	0	0	0	0



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Los Angele	2017	Annual	T6 instate heavy	0	2.85E-06	0	0	0	0	0	0	0
Los Angele	2017	Annual	T6 instate heavy	0	2.56E-06	0	0	0	0	0	0	0
Los Angele	2017	Annual	T6 instate heavy	0	1.04E-06	0	0	0	0	0	0	0
Los Angele	2017	Annual	T6 instate heavy	0	3.19E-06	0	0	0	0	0	0	0
Los Angele	2017	Annual	T6 instate heavy	0	2.51E-06	0	0	0	0	0	0	0
Los Angele	2017	Annual	T6 instate heavy	0	2.35E-06	0	0	0	0	0	0	0
Los Angele	2017	Annual	T6 instate heavy	0	2.04E-06	0	0	0	0	0	0	0
Los Angele	2017	Annual	T6 instate heavy	0	2.17E-06	0	0	0	0	0	0	0
Los Angele	2017	Annual	T6 instate heavy	0	2.27E-06	0	0	0	0	0	0	0
Los Angele	2017	Annual	T6 instate heavy	0	2.30E-06	0	0	0	0	0	0	0
Los Angele	2017	Annual	T6 instate heavy	0	1.95E-06	0	0	0	0	0	0	0
Los Angele	2017	Annual	T6 instate heavy	0	1.83E-07	0	0	0	0	0	0	0
Los Angele	2017	Annual	T6 instate heavy	0	1.57696E-05	0	0	0	0	0	0	0

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Los Angele	2018	Annual	T6 instate heavy	0	2.61E-06	0	0	0	0	0	0	0
Los Angele	2018	Annual	T6 instate heavy	0	2.41E-06	0	0	0	0	0	0	0
Los Angele	2018	Annual	T6 instate heavy	0	1.42E-06	0	0	0	0	0	0	0
Los Angele	2018	Annual	T6 instate heavy	0	2.63E-06	0	0	0	0	0	0	0
Los Angele	2018	Annual	T6 instate heavy	0	2.09E-06	0	0	0	0	0	0	0
Los Angele	2018	Annual	T6 instate heavy	0	2.15E-06	0	0	0	0	0	0	0
Los Angele	2018	Annual	T6 instate heavy	0	2.07E-06	0	0	0	0	0	0	0
Los Angele	2018	Annual	T6 instate heavy	0	2.19E-06	0	0	0	0	0	0	0
Los Angele	2018	Annual	T6 instate heavy	0	2.29E-06	0	0	0	0	0	0	0
Los Angele	2018	Annual	T6 instate heavy	0	2.32E-06	0	0	0	0	0	0	0
Los Angele	2018	Annual	T6 instate heavy	0	2.40E-06	0	0	0	0	0	0	0
Los Angele	2018	Annual	T6 instate heavy	0	1.95E-06	0	0	0	0	0	0	0
Los Angele	2018	Annual	T6 instate heavy	0	1.83E-07	0	0	0	0	0	0	0
Los Angele	2018	Annual	T6 instate heavy	0	1.55633E-05	0	0	0	0	0	0	0

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Los Angele	2019	Annual	T6 instate heavy	0	2.84E-06	0	0	0	0	0	0	0
Los Angele	2019	Annual	T6 instate heavy	0	2.73E-06	0	0	0	0	0	0	0

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Los Angele	2017	Annual	T6 instate heavy	0	0	0	0	3.570613447	5.51E-03	9.76E-03	3.41E-02	1.36E-04	0.00E+00	1.25E-04	0.00E+00	0.00E+00
Los Angele	2017	Annual	T6 instate heavy	0	0	0	0	3.346487776	5.26E-03	9.33E-03	3.13E-02	1.30E-04	0.00E+00	1.20E-04	0.00E+00	0.00E+00
Los Angele	2017	Annual	T6 instate heavy	0	0	0	0	1.432642419	5.00E-03	8.86E-03	2.72E-02	1.24E-04	0.00E+00	1.14E-04	0.00E+00	0.00E+00
Los Angele	2017	Annual	T6 instate heavy	0	0	0	0	4.504178348	2.99E-03	5.30E-03	1.10E-02	1.18E-04	0.00E+00	1.08E-04	0.00E+00	0.00E+00
Los Angele	2017	Annual	T6 instate heavy	0	0	0	0	3.744640784	2.84E-03	5.04E-03	9.58E-03	1.10E-04	0.00E+00	1.02E-04	0.00E+00	0.00E+00
Los Angele	2017	Annual	T6 instate heavy	0	0	0	0	3.76042042	2.69E-03	4.76E-03	7.85E-03	1.03E-04	0.00E+00	9.48E-05	0.00E+00	0.00E+00
Los Angele	2017	Annual	T6 instate heavy	0	0	0	0	4.125728719	2.21E-03	3.92E-03	6.35E-03	8.10E-05	0.00E+00	7.45E-05	0.00E+00	0.00E+00
Los Angele	2017	Annual	T6 instate heavy	0	0	0	0	4.716429865	2.10E-03	3.72E-03	5.81E-03	7.54E-05	0.00E+00	6.94E-05	0.00E+00	0.00E+00
Los Angele	2017	Annual	T6 instate heavy	0	0	0	0	5.337238529	1.98E-03	3.51E-03	5.25E-03	6.96E-05	0.00E+00	6.41E-05	0.00E+00	0.00E+00
Los Angele	2017	Annual	T6 instate heavy	0	0	0	0	5.92835746	1.86E-03	3.30E-03	4.68E-03	6.37E-05	0.00E+00	5.86E-05	0.00E+00	0.00E+00
Los Angele	2017	Annual	T6 instate heavy	0	0	0	0	5.534953395	1.74E-03	3.09E-03	4.11E-03	5.79E-05	0.00E+00	5.33E-05	0.00E+00	0.00E+00
Los Angele	2017	Annual	T6 instate heavy	0	0	0	0	0.584530729	1.63E-03	2.88E-03	3.55E-03	5.20E-05	0.00E+00	4.79E-05	0.00E+00	0.00E+00
Los Angele	2017	Annual	T6 instate heavy	0	0	0	0	33.7322999	2.13E-03	3.78E-03	5.92E-03	7.68E-05	0.00E+00	7.06E-05	0.00E+00	0.00E+00

EMFAC 2011  
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 South Coast AQMD

Area	CalYr	Season	Veh	SOX_IDLEX (Tons/day)	SOX_STREX (Tons/day)	SOX_TOTEX (Tons/day)	FUEL_GAS (1000 Gallons)	FUEL_DSL (1000 Gallons)	exhaust ROG lb/mile	exhaust CO lb/mile	exhaust NOx lb/mile	exhaust PM10 lb/mile	tire wear a PM10 lb/mile	exhaust PM2.5 lb/mile	tire wear a PM2.5 lb/mile	exhaust SOx lb/mile
Los Angele	2018	Annual	T6 instate heavy	0	0	0	0	3.142861096	5.74E-03	1.02E-02	3.47E-02	1.42E-04	0.00E+00	1.30E-04	0.00E+00	0.00E+00
Los Angele	2018	Annual	T6 instate heavy	0	0	0	0	3.022572743	5.51E-03	9.76E-03	3.19E-02	1.36E-04	0.00E+00	1.25E-04	0.00E+00	0.00E+00
Los Angele	2018	Annual	T6 instate heavy	0	0	0	0	1.860387253	5.26E-03	9.33E-03	2.78E-02	1.30E-04	0.00E+00	1.20E-04	0.00E+00	0.00E+00
Los Angele	2018	Annual	T6 instate heavy	0	0	0	0	3.515822222	3.13E-03	5.54E-03	1.16E-02	1.24E-04	0.00E+00	1.14E-04	0.00E+00	0.00E+00
Los Angele	2018	Annual	T6 instate heavy	0	0	0	0	2.932056426	2.99E-03	5.30E-03	1.02E-02	1.18E-04	0.00E+00	1.08E-04	0.00E+00	0.00E+00
Los Angele	2018	Annual	T6 instate heavy	0	0	0	0	3.203136365	2.84E-03	5.04E-03	8.48E-03	1.10E-04	0.00E+00	1.02E-04	0.00E+00	0.00E+00
Los Angele	2018	Annual	T6 instate heavy	0	0	0	0	3.9377606	2.32E-03	4.11E-03	6.87E-03	8.63E-05	0.00E+00	7.94E-05	0.00E+00	0.00E+00
Los Angele	2018	Annual	T6 instate heavy	0	0	0	0	4.441567493	2.21E-03	3.92E-03	6.35E-03	8.10E-05	0.00E+00	7.45E-05	0.00E+00	0.00E+00
Los Angele	2018	Annual	T6 instate heavy	0	0	0	0	4.99166901	2.10E-03	3.72E-03	5.81E-03	7.54E-05	0.00E+00	6.94E-05	0.00E+00	0.00E+00
Los Angele	2018	Annual	T6 instate heavy	0	0	0	0	5.46525085	1.98E-03	3.51E-03	5.25E-03	6.96E-05	0.00E+00	6.41E-05	0.00E+00	0.00E+00
Los Angele	2018	Annual	T6 instate heavy	0	0	0	0	6.181597695	1.86E-03	3.30E-03	4.68E-03	6.37E-05	0.00E+00	5.86E-05	0.00E+00	0.00E+00
Los Angele	2018	Annual	T6 instate heavy	0	0	0	0	5.537260507	1.74E-03	3.09E-03	4.11E-03	5.79E-05	0.00E+00	5.33E-05	0.00E+00	0.00E+00
Los Angele	2018	Annual	T6 instate heavy	0	0	0	0	0.584402004	1.63E-03	2.88E-03	3.55E-03	5.20E-05	0.00E+00	4.79E-05	0.00E+00	0.00E+00
Los Angele	2018	Annual	T6 instate heavy	0	0	0	0	34.34264452	2.08E-03	3.69E-03	5.65E-03	7.44E-05	0.00E+00	6.84E-05	0.00E+00	0.00E+00

EMFAC 2011  
 2019 Estimated Annual Emissions  
 EMFAC 2011 Vehicle Categories  
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 South Coast AQMD

Area	CalYr	Season	Veh	SOX_IDLEX (Tons/day)	SOX_STREX (Tons/day)	SOX_TOTEX (Tons/day)	FUEL_GAS (1000 Gallons)	FUEL_DSL (1000 Gallons)	exhaust ROG lb/mile	exhaust CO lb/mile	exhaust NOx lb/mile	exhaust PM10 lb/mile	tire wear a PM10 lb/mile	exhaust PM2.5 lb/mile	tire wear a PM2.5 lb/mile	exhaust SOx lb/mile
Los Angele	2019	Annual	T6 instate heavy	0	0	0	0	2.627148756	5.95E-03	1.06E-02	3.52E-02	1.47E-04	0.00E+00	1.35E-04	0.00E+00	0.00E+00
Los Angele	2019	Annual	T6 instate heavy	0	0	0	0	2.622837367	5.74E-03	1.02E-02	3.24E-02	1.42E-04	0.00E+00	1.30E-04	0.00E+00	0.00E+00

## EMFAC 2011

2017 Estimated Annual Emissions

EMFAC 2011 Vehicle Categories

Los Angeles COUNTY

South Coast AIR BASIN

South Coast AQMD

Area	CalYr	Season	Veh	exhaust CO2 ton/mile
Los Angele	2017	Annual	T6 instate heavy	2.78E-03
Los Angele	2017	Annual	T6 instate heavy	2.78E-03
Los Angele	2017	Annual	T6 instate heavy	2.78E-03
Los Angele	2017	Annual	T6 instate heavy	2.69E-03
Los Angele	2017	Annual	T6 instate heavy	2.69E-03
Los Angele	2017	Annual	T6 instate heavy	2.69E-03
Los Angele	2017	Annual	T6 instate heavy	2.68E-03
Los Angele	2017	Annual	T6 instate heavy	2.68E-03
Los Angele	2017	Annual	T6 instate heavy	2.68E-03
Los Angele	2017	Annual	T6 instate heavy	2.68E-03
Los Angele	2017	Annual	T6 instate heavy	2.68E-03
Los Angele	2017	Annual	T6 instate heavy	2.68E-03
Los Angele	2017	Annual	T6 instate heavy	2.68E-03
Los Angele	2017	Annual	T6 instate heavy	2.68E-03
Los Angele	2017	Annual	T6 instate heavy	2.68E-03

## EMFAC 2011

2018 Estimated Annual Emissions

EMFAC 2011 Vehicle Categories

Los Angeles COUNTY

South Coast AIR BASIN

South Coast AQMD

Area	CalYr	Season	Veh	exhaust CO2 ton/mile
Los Angele	2018	Annual	T6 instate heavy	2.74E-03
Los Angele	2018	Annual	T6 instate heavy	2.74E-03
Los Angele	2018	Annual	T6 instate heavy	2.74E-03
Los Angele	2018	Annual	T6 instate heavy	2.64E-03
Los Angele	2018	Annual	T6 instate heavy	2.64E-03
Los Angele	2018	Annual	T6 instate heavy	2.64E-03
Los Angele	2018	Annual	T6 instate heavy	2.64E-03
Los Angele	2018	Annual	T6 instate heavy	2.64E-03
Los Angele	2018	Annual	T6 instate heavy	2.64E-03
Los Angele	2018	Annual	T6 instate heavy	2.64E-03
Los Angele	2018	Annual	T6 instate heavy	2.64E-03
Los Angele	2018	Annual	T6 instate heavy	2.64E-03
Los Angele	2018	Annual	T6 instate heavy	2.64E-03
Los Angele	2018	Annual	T6 instate heavy	2.64E-03
Los Angele	2018	Annual	T6 instate heavy	2.64E-03

## EMFAC 2011

2019 Estimated Annual Emissions

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Los Angeles COUNTY

South Coast AIR BASIN

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Area	CalYr	Season	Veh	exhaust CO2 ton/mile
Los Angele	2019	Annual	T6 instate heavy	2.69E-03
Los Angele	2019	Annual	T6 instate heavy	2.69E-03

Los Angele	2019 Annual	T6 instate heavy	DSL	2009	5	0	27.0657841	0	7.45E-05	0	0	0
Los Angele	2019 Annual	T6 instate heavy	DSL	2010	5	0	58.83309116	0	9.58E-05	0	0	0
Los Angele	2019 Annual	T6 instate heavy	DSL	2011	5	0	38.41637402	0	6.01E-05	0	0	0
Los Angele	2019 Annual	T6 instate heavy	DSL	2012	5	0	41.63906351	0	6.22E-05	0	0	0
Los Angele	2019 Annual	T6 instate heavy	DSL	2013	5	0	55.58341038	0	6.72E-05	0	0	0
Los Angele	2019 Annual	T6 instate heavy	DSL	2014	5	0	70.28316249	0	8.14E-05	0	0	0
Los Angele	2019 Annual	T6 instate heavy	DSL	2015	5	0	77.96612473	0	8.61E-05	0	0	0
Los Angele	2019 Annual	T6 instate heavy	DSL	2016	5	0	84.80196903	0	8.89E-05	0	0	0
Los Angele	2019 Annual	T6 instate heavy	DSL	2017	5	0	94.55956639	0	9.36E-05	0	0	0
Los Angele	2019 Annual	T6 instate heavy	DSL	2018	5	0	102.6115614	0	9.55E-05	0	0	0
Los Angele	2019 Annual	T6 instate heavy	DSL	2019	5	0	91.86087476	0	8.01E-05	0	0	0
Los Angele	2019 Annual	T6 instate heavy	DSL	2020	5	0	9.534278124	0	7.75E-06	0	0	0
Los Angele	2019 Annual	T6 instate heavy	DSL	>2007	5	0	587.2009473	0	0.000600653	0	0	0

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Los Angeles COUNTY

South Coast AIR BASIN

South Coast AQMD

Area	CalYr	Season	Veh	Fuel	MdYr	Speed (Miles/hr)	Pop (Vehicles)	VMT (Miles/day)	Trips (Trips/day)	ROG_RUNEX (Tons/day)	ROG_IDLEX (Tons/day)	ROG_STREX (Tons/day)	ROG_TOTEX (Tons/day)
Los Angele	2020 Annual	T6 instate heavy	DSL	2007	5	0	37.81999181	0	1.16E-04	0	0	0	0
Los Angele	2020 Annual	T6 instate heavy	DSL	2008	5	0	35.10161597	0	1.04E-04	0	0	0	0
Los Angele	2020 Annual	T6 instate heavy	DSL	2009	5	0	23.89228471	0	6.85E-05	0	0	0	0
Los Angele	2020 Annual	T6 instate heavy	DSL	2010	5	0	50.1633411	0	8.47E-05	0	0	0	0
Los Angele	2020 Annual	T6 instate heavy	DSL	2011	5	0	46.17120623	0	7.52E-05	0	0	0	0
Los Angele	2020 Annual	T6 instate heavy	DSL	2012	5	0	33.30493366	0	5.21E-05	0	0	0	0
Los Angele	2020 Annual	T6 instate heavy	DSL	2013	5	0	69.06709209	0	8.68E-05	0	0	0	0
Los Angele	2020 Annual	T6 instate heavy	DSL	2014	5	0	60.06086492	0	7.26E-05	0	0	0	0
Los Angele	2020 Annual	T6 instate heavy	DSL	2015	5	0	92.65406687	0	1.07E-04	0	0	0	0
Los Angele	2020 Annual	T6 instate heavy	DSL	2016	5	0	80.13673824	0	8.85E-05	0	0	0	0
Los Angele	2020 Annual	T6 instate heavy	DSL	2017	5	0	88.75685637	0	9.31E-05	0	0	0	0
Los Angele	2020 Annual	T6 instate heavy	DSL	2018	5	0	94.95902462	0	9.40E-05	0	0	0	0
Los Angele	2020 Annual	T6 instate heavy	DSL	2019	5	0	102.9860944	0	9.59E-05	0	0	0	0
Los Angele	2020 Annual	T6 instate heavy	DSL	2020	5	0	91.67299048	0	7.99E-05	0	0	0	0
Los Angele	2020 Annual	T6 instate heavy	DSL	2021	5	0	9.423602954	0	7.66E-06	0	0	0	0
Los Angele	2020 Annual	T6 instate heavy	DSL	>2007	5	0	620.6502389	0	0.000639007	0	0	0	0

EMFAC 2011

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Los Angeles COUNTY

South Coast AIR BASIN

South Coast AQMD

Area	CalYr	Season	Veh	Fuel	MdYr	Speed (Miles/hr)	Pop (Vehicles)	VMT (Miles/day)	Trips (Trips/day)	ROG_RUNEX (Tons/day)	ROG_IDLEX (Tons/day)	ROG_STREX (Tons/day)	ROG_TOTEX (Tons/day)
Los Angele	2021 Annual	T6 instate heavy	DSL	2007	5	0	63.74611012	0	2.02E-04	0	0	0	0
Los Angele	2021 Annual	T6 instate heavy	DSL	2008	5	0	32.57348602	0	1.00E-04	0	0	0	0
Los Angele	2021 Annual	T6 instate heavy	DSL	2009	5	0	20.8753749	0	6.21E-05	0	0	0	0
Los Angele	2021 Annual	T6 instate heavy	DSL	2010	5	0	43.5376357	0	7.60E-05	0	0	0	0
Los Angele	2021 Annual	T6 instate heavy	DSL	2011	5	0	42.90152434	0	7.25E-05	0	0	0	0
Los Angele	2021 Annual	T6 instate heavy	DSL	2012	5	0	45.10064521	0	7.34E-05	0	0	0	0
Los Angele	2021 Annual	T6 instate heavy	DSL	2013	5	0	57.02880324	0	7.42E-05	0	0	0	0
Los Angele	2021 Annual	T6 instate heavy	DSL	2014	5	0	113.7368416	0	1.43E-04	0	0	0	0
Los Angele	2021 Annual	T6 instate heavy	DSL	2015	5	0	81.18717545	0	9.81E-05	0	0	0	0

Los Angele	2019 Annual	T6 instate heavy	0	0	0	0	0	0	8.48E-05	0	0	0
Los Angele	2019 Annual	T6 instate heavy	0	0	0	0	0	0	1.09E-04	0	0	0
Los Angele	2019 Annual	T6 instate heavy	0	0	0	0	0	0	6.84E-05	0	0	0
Los Angele	2019 Annual	T6 instate heavy	0	0	0	0	0	0	7.08E-05	0	0	0
Los Angele	2019 Annual	T6 instate heavy	0	0	0	0	0	0	7.65E-05	0	0	0
Los Angele	2019 Annual	T6 instate heavy	0	0	0	0	0	0	9.27E-05	0	0	0
Los Angele	2019 Annual	T6 instate heavy	0	0	0	0	0	0	9.80E-05	0	0	0
Los Angele	2019 Annual	T6 instate heavy	0	0	0	0	0	0	1.01E-04	0	0	0
Los Angele	2019 Annual	T6 instate heavy	0	0	0	0	0	0	1.07E-04	0	0	0
Los Angele	2019 Annual	T6 instate heavy	0	0	0	0	0	0	1.09E-04	0	0	0
Los Angele	2019 Annual	T6 instate heavy	0	0	0	0	0	0	9.12E-05	0	0	0
Los Angele	2019 Annual	T6 instate heavy	0	0	0	0	0	0	8.83E-06	0	0	0
Los Angele	2019 Annual	T6 instate heavy	0	0	0	0	0	0	0.000683797	0	0	0

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Area	CalYr	Season	Veh	ROG_DIURN (Tons/day)	ROG_HTSK (Tons/day)	ROG_RUNLS (Tons/day)	ROG_RESTL (Tons/day)	ROG_TOTAL (Tons/day)	TOG_RUNEX (Tons/day)	TOG_IDLEX (Tons/day)	TOG_STREX (Tons/day)	TOG_TOTEX (Tons/day)
Los Angele	2020 Annual	T6 instate heavy		0	0	0	0	0	1.32E-04	0	0	0
Los Angele	2020 Annual	T6 instate heavy		0	0	0	0	0	1.19E-04	0	0	0
Los Angele	2020 Annual	T6 instate heavy		0	0	0	0	0	7.80E-05	0	0	0
Los Angele	2020 Annual	T6 instate heavy		0	0	0	0	0	9.65E-05	0	0	0
Los Angele	2020 Annual	T6 instate heavy		0	0	0	0	0	8.56E-05	0	0	0
Los Angele	2020 Annual	T6 instate heavy		0	0	0	0	0	5.93E-05	0	0	0
Los Angele	2020 Annual	T6 instate heavy		0	0	0	0	0	9.88E-05	0	0	0
Los Angele	2020 Annual	T6 instate heavy		0	0	0	0	0	8.27E-05	0	0	0
Los Angele	2020 Annual	T6 instate heavy		0	0	0	0	0	1.22E-04	0	0	0
Los Angele	2020 Annual	T6 instate heavy		0	0	0	0	0	1.01E-04	0	0	0
Los Angele	2020 Annual	T6 instate heavy		0	0	0	0	0	1.06E-04	0	0	0
Los Angele	2020 Annual	T6 instate heavy		0	0	0	0	0	1.07E-04	0	0	0
Los Angele	2020 Annual	T6 instate heavy		0	0	0	0	0	1.09E-04	0	0	0
Los Angele	2020 Annual	T6 instate heavy		0	0	0	0	0	9.10E-05	0	0	0
Los Angele	2020 Annual	T6 instate heavy		0	0	0	0	0	8.72E-06	0	0	0
Los Angele	2020 Annual	T6 instate heavy		0	0	0	0	0	0.000727461	0	0	0

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Area	CalYr	Season	Veh	ROG_DIURN (Tons/day)	ROG_HTSK (Tons/day)	ROG_RUNLS (Tons/day)	ROG_RESTL (Tons/day)	ROG_TOTAL (Tons/day)	TOG_RUNEX (Tons/day)	TOG_IDLEX (Tons/day)	TOG_STREX (Tons/day)	TOG_TOTEX (Tons/day)
Los Angele	2021 Annual	T6 instate heavy		0	0	0	0	0	2.30E-04	0	0	0
Los Angele	2021 Annual	T6 instate heavy		0	0	0	0	0	1.14E-04	0	0	0
Los Angele	2021 Annual	T6 instate heavy		0	0	0	0	0	7.07E-05	0	0	0
Los Angele	2021 Annual	T6 instate heavy		0	0	0	0	0	8.66E-05	0	0	0
Los Angele	2021 Annual	T6 instate heavy		0	0	0	0	0	8.25E-05	0	0	0
Los Angele	2021 Annual	T6 instate heavy		0	0	0	0	0	8.36E-05	0	0	0
Los Angele	2021 Annual	T6 instate heavy		0	0	0	0	0	8.45E-05	0	0	0
Los Angele	2021 Annual	T6 instate heavy		0	0	0	0	0	1.63E-04	0	0	0
Los Angele	2021 Annual	T6 instate heavy		0	0	0	0	0	1.12E-04	0	0	0

Los Angele	2019 Annual	T6 instate heavy	0	0	0	0	0	0	1.32E-04	0	0	0
Los Angele	2019 Annual	T6 instate heavy	0	0	0	0	0	0	1.70E-04	0	0	0
Los Angele	2019 Annual	T6 instate heavy	0	0	0	0	0	0	1.06E-04	0	0	0
Los Angele	2019 Annual	T6 instate heavy	0	0	0	0	0	0	1.10E-04	0	0	0
Los Angele	2019 Annual	T6 instate heavy	0	0	0	0	0	0	1.19E-04	0	0	0
Los Angele	2019 Annual	T6 instate heavy	0	0	0	0	0	0	1.44E-04	0	0	0
Los Angele	2019 Annual	T6 instate heavy	0	0	0	0	0	0	1.53E-04	0	0	0
Los Angele	2019 Annual	T6 instate heavy	0	0	0	0	0	0	1.58E-04	0	0	0
Los Angele	2019 Annual	T6 instate heavy	0	0	0	0	0	0	1.66E-04	0	0	0
Los Angele	2019 Annual	T6 instate heavy	0	0	0	0	0	0	1.69E-04	0	0	0
Los Angele	2019 Annual	T6 instate heavy	0	0	0	0	0	0	1.42E-04	0	0	0
Los Angele	2019 Annual	T6 instate heavy	0	0	0	0	0	0	1.37E-05	0	0	0
Los Angele	2019 Annual	T6 instate heavy	0	0	0	0	0	0	0.001065127	0	0	0

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Area	CalYr	Season	Veh	TOG_DIURN (Tons/day)	TOG_HTSK (Tons/day)	TOG_RUNLS (Tons/day)	TOG_RESTL (Tons/day)	TOG_TOTAL (Tons/day)	CO_RUNEX (Tons/day)	CO_IDLEX (Tons/day)	CO_STREX (Tons/day)	CO_TOTEX (Tons/day)
Los Angele	2020 Annual	T6 instate heavy		0	0	0	0	0	2.06E-04		0	0
Los Angele	2020 Annual	T6 instate heavy		0	0	0	0	0	1.85E-04		0	0
Los Angele	2020 Annual	T6 instate heavy		0	0	0	0	0	1.22E-04		0	0
Los Angele	2020 Annual	T6 instate heavy		0	0	0	0	0	1.50E-04		0	0
Los Angele	2020 Annual	T6 instate heavy		0	0	0	0	0	1.33E-04		0	0
Los Angele	2020 Annual	T6 instate heavy		0	0	0	0	0	9.23E-05		0	0
Los Angele	2020 Annual	T6 instate heavy		0	0	0	0	0	1.54E-04		0	0
Los Angele	2020 Annual	T6 instate heavy		0	0	0	0	0	1.29E-04		0	0
Los Angele	2020 Annual	T6 instate heavy		0	0	0	0	0	1.90E-04		0	0
Los Angele	2020 Annual	T6 instate heavy		0	0	0	0	0	1.57E-04		0	0
Los Angele	2020 Annual	T6 instate heavy		0	0	0	0	0	1.65E-04		0	0
Los Angele	2020 Annual	T6 instate heavy		0	0	0	0	0	1.67E-04		0	0
Los Angele	2020 Annual	T6 instate heavy		0	0	0	0	0	1.70E-04		0	0
Los Angele	2020 Annual	T6 instate heavy		0	0	0	0	0	1.42E-04		0	0
Los Angele	2020 Annual	T6 instate heavy		0	0	0	0	0	1.36E-05		0	0
Los Angele	2020 Annual	T6 instate heavy		0	0	0	0	0	0.001133141		0	0

EMFAC 2011

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EMFAC 2011 Vehicle Categories

Los Angeles COUNTY

South Coast AIR BASIN

South Coast AQMD

Area	CalYr	Season	Veh	TOG_DIURN (Tons/day)	TOG_HTSK (Tons/day)	TOG_RUNLS (Tons/day)	TOG_RESTL (Tons/day)	TOG_TOTAL (Tons/day)	CO_RUNEX (Tons/day)	CO_IDLEX (Tons/day)	CO_STREX (Tons/day)	CO_TOTEX (Tons/day)
Los Angele	2021 Annual	T6 instate heavy		0	0	0	0	0	3.58E-04		0	0
Los Angele	2021 Annual	T6 instate heavy		0	0	0	0	0	1.78E-04		0	0
Los Angele	2021 Annual	T6 instate heavy		0	0	0	0	0	1.10E-04		0	0
Los Angele	2021 Annual	T6 instate heavy		0	0	0	0	0	1.35E-04		0	0
Los Angele	2021 Annual	T6 instate heavy		0	0	0	0	0	1.29E-04		0	0
Los Angele	2021 Annual	T6 instate heavy		0	0	0	0	0	1.30E-04		0	0
Los Angele	2021 Annual	T6 instate heavy		0	0	0	0	0	1.32E-04		0	0
Los Angele	2021 Annual	T6 instate heavy		0	0	0	0	0	2.53E-04		0	0
Los Angele	2021 Annual	T6 instate heavy		0	0	0	0	0	1.74E-04		0	0

Los Angele	2019 Annual	T6 instate heavy	3.84E-04	0	0	0	0.07919265	0	0	0	0.072857238
Los Angele	2019 Annual	T6 instate heavy	3.56E-04	0	0	0	0.166389977	0	0	0	0.153078779
Los Angele	2019 Annual	T6 instate heavy	2.07E-04	0	0	0	0.108648032	0	0	0	0.09995619
Los Angele	2019 Annual	T6 instate heavy	1.89E-04	0	0	0	0.117762346	0	0	0	0.108341358
Los Angele	2019 Annual	T6 instate heavy	2.04E-04	0	0	0	0.156837534	0	0	0	0.144290531
Los Angele	2019 Annual	T6 instate heavy	2.41E-04	0	0	0	0.19831525	0	0	0	0.18245003
Los Angele	2019 Annual	T6 instate heavy	2.48E-04	0	0	0	0.219993963	0	0	0	0.202394446
Los Angele	2019 Annual	T6 instate heavy	2.46E-04	0	0	0	0.239282398	0	0	0	0.220139806
Los Angele	2019 Annual	T6 instate heavy	2.48E-04	0	0	0	0.266815029	0	0	0	0.245469826
Los Angele	2019 Annual	T6 instate heavy	2.40E-04	0	0	0	0.289535028	0	0	0	0.266372226
Los Angele	2019 Annual	T6 instate heavy	1.89E-04	0	0	0	0.259200236	0	0	0	0.238464217
Los Angele	2019 Annual	T6 instate heavy	1.69E-05	0	0	0	0.0269025	0	0	0	0.0247503
Los Angele	2019 Annual	T6 instate heavy	0.001634387	0	0	0	1.656881937	0	0	0	1.524331382

EMFAC 2011

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Los Angeles COUNTY

South Coast AIR BASIN

South Coast AQMD

Area	CalYr	Season	Veh	NOX_RUNEX (Tons/day)	NOX_IDLEX (Tons/day)	NOX_STREX (Tons/day)	NOX_TOTEX (Tons/day)	CO2_RUNEX (Tons/day)	CO2_IDLEX (Tons/day)	CO2_STREX (Tons/day)	CO2_TOTEX (Tons/day)	CO2_RUNEX(Pavt) (Tons/day)
Los Angele	2020 Annual	T6 instate heavy		6.76E-04	0	0	0	0.110658734	0	0	0	0.09959286
Los Angele	2020 Annual	T6 instate heavy		5.78E-04	0	0	0	0.10270495	0	0	0	0.092434455
Los Angele	2020 Annual	T6 instate heavy		3.45E-04	0	0	0	0.069907206	0	0	0	0.062916486
Los Angele	2020 Annual	T6 instate heavy		3.16E-04	0	0	0	0.141870451	0	0	0	0.127683406
Los Angele	2020 Annual	T6 instate heavy		2.61E-04	0	0	0	0.130580015	0	0	0	0.117522014
Los Angele	2020 Annual	T6 instate heavy		1.61E-04	0	0	0	0.094192011	0	0	0	0.08477281
Los Angele	2020 Annual	T6 instate heavy		2.70E-04	0	0	0	0.194883911	0	0	0	0.17539552
Los Angele	2020 Annual	T6 instate heavy		2.21E-04	0	0	0	0.169471392	0	0	0	0.152524253
Los Angele	2020 Annual	T6 instate heavy		3.18E-04	0	0	0	0.261438355	0	0	0	0.23529452
Los Angele	2020 Annual	T6 instate heavy		2.55E-04	0	0	0	0.226118699	0	0	0	0.203506829
Los Angele	2020 Annual	T6 instate heavy		2.58E-04	0	0	0	0.250441749	0	0	0	0.225397574
Los Angele	2020 Annual	T6 instate heavy		2.49E-04	0	0	0	0.267942164	0	0	0	0.241147948
Los Angele	2020 Annual	T6 instate heavy		2.41E-04	0	0	0	0.290591833	0	0	0	0.26153265
Los Angele	2020 Annual	T6 instate heavy		1.89E-04	0	0	0	0.25867009	0	0	0	0.232803081
Los Angele	2020 Annual	T6 instate heavy		1.67E-05	0	0	0	0.026590212	0	0	0	0.023931191
Los Angele	2020 Annual	T6 instate heavy		0.001747423	0	0	0	1.751264494	0	0	0	1.576138045

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Los Angeles COUNTY

South Coast AIR BASIN

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Area	CalYr	Season	Veh	NOX_RUNEX (Tons/day)	NOX_IDLEX (Tons/day)	NOX_STREX (Tons/day)	NOX_TOTEX (Tons/day)	CO2_RUNEX (Tons/day)	CO2_IDLEX (Tons/day)	CO2_STREX (Tons/day)	CO2_TOTEX (Tons/day)	CO2_RUNEX(Pavt) (Tons/day)
Los Angele	2021 Annual	T6 instate heavy		0.001153058	0	0	0	0.186516799	0	0	0	0.167865119
Los Angele	2021 Annual	T6 instate heavy		5.45E-04	0	0	0	0.095307813	0	0	0	0.085777032
Los Angele	2021 Annual	T6 instate heavy		3.07E-04	0	0	0	0.061079933	0	0	0	0.054971939
Los Angele	2021 Annual	T6 instate heavy		2.84E-04	0	0	0	0.123131831	0	0	0	0.110818647
Los Angele	2021 Annual	T6 instate heavy		2.53E-04	0	0	0	0.1213328	0	0	0	0.10919952
Los Angele	2021 Annual	T6 instate heavy		2.29E-04	0	0	0	0.127552287	0	0	0	0.114797058
Los Angele	2021 Annual	T6 instate heavy		2.35E-04	0	0	0	0.160915943	0	0	0	0.144824348
Los Angele	2021 Annual	T6 instate heavy		4.45E-04	0	0	0	0.320926796	0	0	0	0.288834116
Los Angele	2021 Annual	T6 instate heavy		2.99E-04	0	0	0	0.229082676	0	0	0	0.206174409

Los Angele	2019 Annual	T6 instate heavy	0	0	0	1.84E-06	0	0	0	0	0	0
Los Angele	2019 Annual	T6 instate heavy	0	0	0	3.84E-06	0	0	0	0	0	0
Los Angele	2019 Annual	T6 instate heavy	0	0	0	2.39E-06	0	0	0	0	0	0
Los Angele	2019 Annual	T6 instate heavy	0	0	0	2.45E-06	0	0	0	0	0	0
Los Angele	2019 Annual	T6 instate heavy	0	0	0	2.54E-06	0	0	0	0	0	0
Los Angele	2019 Annual	T6 instate heavy	0	0	0	3.03E-06	0	0	0	0	0	0
Los Angele	2019 Annual	T6 instate heavy	0	0	0	3.16E-06	0	0	0	0	0	0
Los Angele	2019 Annual	T6 instate heavy	0	0	0	3.20E-06	0	0	0	0	0	0
Los Angele	2019 Annual	T6 instate heavy	0	0	0	3.29E-06	0	0	0	0	0	0
Los Angele	2019 Annual	T6 instate heavy	0	0	0	3.27E-06	0	0	0	0	0	0
Los Angele	2019 Annual	T6 instate heavy	0	0	0	2.66E-06	0	0	0	0	0	0
Los Angele	2019 Annual	T6 instate heavy	0	0	0	2.48E-07	0	0	0	0	0	0
Los Angele	2019 Annual	T6 instate heavy	0	0	0	2.13933E-05	0	0	0	0	0	0

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Los Angeles COUNTY

South Coast AIR BASIN

South Coast AQMD

Area	CalYr	Season	Veh	CO2_IDLEX(Pavle (Tons/day)	CO2_STREX(Pavk (Tons/day)	CO2_TOTEX(Pavk (Tons/day)	PM10_RUNEX (Tons/day)	PM10_IDLEX (Tons/day)	PM10_STREX (Tons/day)	PM10_TOTEX (Tons/day)	PM10_PMTW (Tons/day)	PM10_PMBW (Tons/day)
Los Angele	2020 Annual	T6 instate heavy		0	0	0	2.87E-06	0	0	0	0	0
Los Angele	2020 Annual	T6 instate heavy		0	0	0	2.58E-06	0	0	0	0	0
Los Angele	2020 Annual	T6 instate heavy		0	0	0	1.69E-06	0	0	0	0	0
Los Angele	2020 Annual	T6 instate heavy		0	0	0	3.42E-06	0	0	0	0	0
Los Angele	2020 Annual	T6 instate heavy		0	0	0	3.01E-06	0	0	0	0	0
Los Angele	2020 Annual	T6 instate heavy		0	0	0	2.07E-06	0	0	0	0	0
Los Angele	2020 Annual	T6 instate heavy		0	0	0	3.32E-06	0	0	0	0	0
Los Angele	2020 Annual	T6 instate heavy		0	0	0	2.74E-06	0	0	0	0	0
Los Angele	2020 Annual	T6 instate heavy		0	0	0	4.00E-06	0	0	0	0	0
Los Angele	2020 Annual	T6 instate heavy		0	0	0	3.24E-06	0	0	0	0	0
Los Angele	2020 Annual	T6 instate heavy		0	0	0	3.35E-06	0	0	0	0	0
Los Angele	2020 Annual	T6 instate heavy		0	0	0	3.31E-06	0	0	0	0	0
Los Angele	2020 Annual	T6 instate heavy		0	0	0	3.28E-06	0	0	0	0	0
Los Angele	2020 Annual	T6 instate heavy		0	0	0	2.65E-06	0	0	0	0	0
Los Angele	2020 Annual	T6 instate heavy		0	0	0	2.45E-07	0	0	0	0	0
Los Angele	2020 Annual	T6 instate heavy		0	0	0	2.28175E-05	0	0	0	0	0

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South Coast AQMD

Area	CalYr	Season	Veh	CO2_IDLEX(Pavle (Tons/day)	CO2_STREX(Pavk (Tons/day)	CO2_TOTEX(Pavk (Tons/day)	PM10_RUNEX (Tons/day)	PM10_IDLEX (Tons/day)	PM10_STREX (Tons/day)	PM10_TOTEX (Tons/day)	PM10_PMTW (Tons/day)	PM10_PMBW (Tons/day)
Los Angele	2021 Annual	T6 instate heavy		0	0	0	4.98E-06	0	0	0	0	0
Los Angele	2021 Annual	T6 instate heavy		0	0	0	2.47E-06	0	0	0	0	0
Los Angele	2021 Annual	T6 instate heavy		0	0	0	1.53E-06	0	0	0	0	0
Los Angele	2021 Annual	T6 instate heavy		0	0	0	3.09E-06	0	0	0	0	0
Los Angele	2021 Annual	T6 instate heavy		0	0	0	2.92E-06	0	0	0	0	0
Los Angele	2021 Annual	T6 instate heavy		0	0	0	2.94E-06	0	0	0	0	0
Los Angele	2021 Annual	T6 instate heavy		0	0	0	2.87E-06	0	0	0	0	0
Los Angele	2021 Annual	T6 instate heavy		0	0	0	5.46E-06	0	0	0	0	0
Los Angele	2021 Annual	T6 instate heavy		0	0	0	3.71E-06	0	0	0	0	0



Los Angele	2019 Annual	T6 instate heavy	0	1.70E-06	0	0	0	0	0	0	0	0
Los Angele	2019 Annual	T6 instate heavy	0	3.53E-06	0	0	0	0	0	0	0	0
Los Angele	2019 Annual	T6 instate heavy	0	2.19E-06	0	0	0	0	0	0	0	0
Los Angele	2019 Annual	T6 instate heavy	0	2.25E-06	0	0	0	0	0	0	0	0
Los Angele	2019 Annual	T6 instate heavy	0	2.34E-06	0	0	0	0	0	0	0	0
Los Angele	2019 Annual	T6 instate heavy	0	2.79E-06	0	0	0	0	0	0	0	0
Los Angele	2019 Annual	T6 instate heavy	0	2.90E-06	0	0	0	0	0	0	0	0
Los Angele	2019 Annual	T6 instate heavy	0	2.94E-06	0	0	0	0	0	0	0	0
Los Angele	2019 Annual	T6 instate heavy	0	3.03E-06	0	0	0	0	0	0	0	0
Los Angele	2019 Annual	T6 instate heavy	0	3.01E-06	0	0	0	0	0	0	0	0
Los Angele	2019 Annual	T6 instate heavy	0	2.45E-06	0	0	0	0	0	0	0	0
Los Angele	2019 Annual	T6 instate heavy	0	2.28E-07	0	0	0	0	0	0	0	0
Los Angele	2019 Annual	T6 instate heavy	0	1.96818E-05	0	0	0	0	0	0	0	0

EMFAC 2011

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Los Angeles COUNTY

South Coast AIR BASIN

South Coast AQMD

Area	CalYr	Season	Veh	PM10_TOTAL (Tons/day)	PM2_5_RUNEX (Tons/day)	PM2_5_IDLEX (Tons/day)	PM2_5_STREX (Tons/day)	PM2_5_TOTEX (Tons/day)	PM2_5_PMTW (Tons/day)	PM2_5_PMBW (Tons/day)	PM2_5_TOTAL (Tons/day)	SOX_RUNEX (Tons/day)
Los Angele	2020 Annual	T6 instate heavy		0	2.64E-06	0	0	0	0	0	0	0
Los Angele	2020 Annual	T6 instate heavy		0	2.37E-06	0	0	0	0	0	0	0
Los Angele	2020 Annual	T6 instate heavy		0	1.56E-06	0	0	0	0	0	0	0
Los Angele	2020 Annual	T6 instate heavy		0	3.14E-06	0	0	0	0	0	0	0
Los Angele	2020 Annual	T6 instate heavy		0	2.77E-06	0	0	0	0	0	0	0
Los Angele	2020 Annual	T6 instate heavy		0	1.90E-06	0	0	0	0	0	0	0
Los Angele	2020 Annual	T6 instate heavy		0	3.05E-06	0	0	0	0	0	0	0
Los Angele	2020 Annual	T6 instate heavy		0	2.52E-06	0	0	0	0	0	0	0
Los Angele	2020 Annual	T6 instate heavy		0	3.68E-06	0	0	0	0	0	0	0
Los Angele	2020 Annual	T6 instate heavy		0	2.98E-06	0	0	0	0	0	0	0
Los Angele	2020 Annual	T6 instate heavy		0	3.08E-06	0	0	0	0	0	0	0
Los Angele	2020 Annual	T6 instate heavy		0	3.04E-06	0	0	0	0	0	0	0
Los Angele	2020 Annual	T6 instate heavy		0	3.02E-06	0	0	0	0	0	0	0
Los Angele	2020 Annual	T6 instate heavy		0	2.44E-06	0	0	0	0	0	0	0
Los Angele	2020 Annual	T6 instate heavy		0	2.26E-07	0	0	0	0	0	0	0
Los Angele	2020 Annual	T6 instate heavy		0	2.09921E-05	0	0	0	0	0	0	0

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Los Angeles COUNTY

South Coast AIR BASIN

South Coast AQMD

Area	CalYr	Season	Veh	PM10_TOTAL (Tons/day)	PM2_5_RUNEX (Tons/day)	PM2_5_IDLEX (Tons/day)	PM2_5_STREX (Tons/day)	PM2_5_TOTEX (Tons/day)	PM2_5_PMTW (Tons/day)	PM2_5_PMBW (Tons/day)	PM2_5_TOTAL (Tons/day)	SOX_RUNEX (Tons/day)
Los Angele	2021 Annual	T6 instate heavy		0	4.58E-06	0	0	0	0	0	0	0
Los Angele	2021 Annual	T6 instate heavy		0	2.27E-06	0	0	0	0	0	0	0
Los Angele	2021 Annual	T6 instate heavy		0	1.41E-06	0	0	0	0	0	0	0
Los Angele	2021 Annual	T6 instate heavy		0	2.84E-06	0	0	0	0	0	0	0
Los Angele	2021 Annual	T6 instate heavy		0	2.69E-06	0	0	0	0	0	0	0
Los Angele	2021 Annual	T6 instate heavy		0	2.71E-06	0	0	0	0	0	0	0
Los Angele	2021 Annual	T6 instate heavy		0	2.64E-06	0	0	0	0	0	0	0
Los Angele	2021 Annual	T6 instate heavy		0	5.03E-06	0	0	0	0	0	0	0
Los Angele	2021 Annual	T6 instate heavy		0	3.41E-06	0	0	0	0	0	0	0

Los Angele	2019 Annual	T6 instate heavy	0	0	0	0	1.692211208	5.51E-03	9.76E-03	2.84E-02	1.36E-04	0.00E+00	1.25E-04	0.00E+00	0.00E+00
Los Angele	2019 Annual	T6 instate heavy	0	0	0	0	3.569831602	3.26E-03	5.77E-03	1.21E-02	1.30E-04	0.00E+00	1.20E-04	0.00E+00	0.00E+00
Los Angele	2019 Annual	T6 instate heavy	0	0	0	0	2.323690083	3.13E-03	5.54E-03	1.08E-02	1.24E-04	0.00E+00	1.14E-04	0.00E+00	0.00E+00
Los Angele	2019 Annual	T6 instate heavy	0	0	0	0	2.512440267	2.99E-03	5.30E-03	9.08E-03	1.18E-04	0.00E+00	1.08E-04	0.00E+00	0.00E+00
Los Angele	2019 Annual	T6 instate heavy	0	0	0	0	3.344298884	2.42E-03	4.29E-03	7.36E-03	9.13E-05	0.00E+00	8.40E-05	0.00E+00	0.00E+00
Los Angele	2019 Annual	T6 instate heavy	0	0	0	0	4.226668383	2.32E-03	4.11E-03	6.87E-03	8.63E-05	0.00E+00	7.94E-05	0.00E+00	0.00E+00
Los Angele	2019 Annual	T6 instate heavy	0	0	0	0	4.686830623	2.21E-03	3.92E-03	6.35E-03	8.10E-05	0.00E+00	7.45E-05	0.00E+00	0.00E+00
Los Angele	2019 Annual	T6 instate heavy	0	0	0	0	5.096293985	2.10E-03	3.72E-03	5.81E-03	7.54E-05	0.00E+00	6.94E-05	0.00E+00	0.00E+00
Los Angele	2019 Annual	T6 instate heavy	0	0	0	0	5.681851653	1.98E-03	3.51E-03	5.25E-03	6.96E-05	0.00E+00	6.41E-05	0.00E+00	0.00E+00
Los Angele	2019 Annual	T6 instate heavy	0	0	0	0	6.165885885	1.86E-03	3.30E-03	4.68E-03	6.37E-05	0.00E+00	5.86E-05	0.00E+00	0.00E+00
Los Angele	2019 Annual	T6 instate heavy	0	0	0	0	5.519881483	1.74E-03	3.09E-03	4.11E-03	5.79E-05	0.00E+00	5.33E-05	0.00E+00	0.00E+00
Los Angele	2019 Annual	T6 instate heavy	0	0	0	0	0.579254855	1.63E-03	2.88E-03	3.55E-03	5.20E-05	0.00E+00	4.79E-05	0.00E+00	0.00E+00
Los Angele	2019 Annual	T6 instate heavy	0	0	0	0	35.30096575	2.05E-03	3.63E-03	5.57E-03	7.29E-05	0.00E+00	6.70E-05	0.00E+00	0.00E+00

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Los Angeles COUNTY

South Coast AIR BASIN

South Coast AQMD

Area	CalYr	Season	Veh	SOX_IDLEX (Tons/day)	SOX_STREX (Tons/day)	SOX_TOTEX (Tons/day)	FUEL_GAS (1000 Gallons)	FUEL_DSL (1000 Gallons)	exhaust ROG lb/mile	exhaust CO lb/mile	exhaust NOx lb/mile	exhaust PM10 lb/mile	tire wear a PM10 lb/mile	exhaust PM2.5 lb/mile	tire wear a PM2.5 lb/mile	SOx lb/mile
Los Angele	2020 Annual	T6 instate heavy		0	0	0	0	2.370658473	6.15E-03	1.09E-02	3.57E-02	1.52E-04	0.00E+00	1.40E-04	0.00E+00	0.00E+00
Los Angele	2020 Annual	T6 instate heavy		0	0	0	0	2.199061798	5.95E-03	1.06E-02	3.29E-02	1.47E-04	0.00E+00	1.35E-04	0.00E+00	0.00E+00
Los Angele	2020 Annual	T6 instate heavy		0	0	0	0	1.494866715	5.74E-03	1.02E-02	2.89E-02	1.42E-04	0.00E+00	1.30E-04	0.00E+00	0.00E+00
Los Angele	2020 Annual	T6 instate heavy		0	0	0	0	3.044399732	3.38E-03	5.99E-03	1.26E-02	1.36E-04	0.00E+00	1.25E-04	0.00E+00	0.00E+00
Los Angele	2020 Annual	T6 instate heavy		0	0	0	0	2.792675508	3.26E-03	5.77E-03	1.13E-02	1.30E-04	0.00E+00	1.20E-04	0.00E+00	0.00E+00
Los Angele	2020 Annual	T6 instate heavy		0	0	0	0	2.010798093	3.13E-03	5.54E-03	9.64E-03	1.24E-04	0.00E+00	1.14E-04	0.00E+00	0.00E+00
Los Angele	2020 Annual	T6 instate heavy		0	0	0	0	4.172314229	2.51E-03	4.46E-03	7.82E-03	9.61E-05	0.00E+00	8.84E-05	0.00E+00	0.00E+00
Los Angele	2020 Annual	T6 instate heavy		0	0	0	0	3.613683926	2.42E-03	4.29E-03	7.36E-03	9.13E-05	0.00E+00	8.40E-05	0.00E+00	0.00E+00
Los Angele	2020 Annual	T6 instate heavy		0	0	0	0	5.583869298	2.32E-03	4.11E-03	6.87E-03	8.63E-05	0.00E+00	7.94E-05	0.00E+00	0.00E+00
Los Angele	2020 Annual	T6 instate heavy		0	0	0	0	4.817299339	2.21E-03	3.92E-03	6.35E-03	8.10E-05	0.00E+00	7.45E-05	0.00E+00	0.00E+00
Los Angele	2020 Annual	T6 instate heavy		0	0	0	0	5.333953117	2.10E-03	3.72E-03	5.81E-03	7.54E-05	0.00E+00	6.94E-05	0.00E+00	0.00E+00
Los Angele	2020 Annual	T6 instate heavy		0	0	0	0	5.705836081	1.98E-03	3.51E-03	5.25E-03	6.96E-05	0.00E+00	6.41E-05	0.00E+00	0.00E+00
Los Angele	2020 Annual	T6 instate heavy		0	0	0	0	6.188370705	1.86E-03	3.30E-03	4.68E-03	6.37E-05	0.00E+00	5.86E-05	0.00E+00	0.00E+00
Los Angele	2020 Annual	T6 instate heavy		0	0	0	0	5.508572201	1.74E-03	3.09E-03	4.11E-03	5.79E-05	0.00E+00	5.33E-05	0.00E+00	0.00E+00
Los Angele	2020 Annual	T6 instate heavy		0	0	0	0	0.572523941	1.63E-03	2.88E-03	3.55E-03	5.20E-05	0.00E+00	4.79E-05	0.00E+00	0.00E+00
Los Angele	2020 Annual	T6 instate heavy		0	0	0	0	37.32410861	2.06E-03	3.65E-03	5.63E-03	7.35E-05	0.00E+00	6.76E-05	0.00E+00	0.00E+00

EMFAC 2011

2021 Estimated Annual Emissions

EMFAC 2011 Vehicle Categories

Los Angeles COUNTY

South Coast AIR BASIN

South Coast AQMD

Area	CalYr	Season	Veh	SOX_IDLEX (Tons/day)	SOX_STREX (Tons/day)	SOX_TOTEX (Tons/day)	FUEL_GAS (1000 Gallons)	FUEL_DSL (1000 Gallons)	exhaust ROG lb/mile	exhaust CO lb/mile	exhaust NOx lb/mile	exhaust PM10 lb/mile	tire wear a PM10 lb/mile	exhaust PM2.5 lb/mile	tire wear a PM2.5 lb/mile	SOx lb/mile
Los Angele	2021 Annual	T6 instate heavy		0	0	0	0	3.865678059	6.34E-03	1.12E-02	3.62E-02	1.56E-04	0.00E+00	1.44E-04	0.00E+00	0.00E+00
Los Angele	2021 Annual	T6 instate heavy		0	0	0	0	1.973182689	6.15E-03	1.09E-02	3.34E-02	1.52E-04	0.00E+00	1.40E-04	0.00E+00	0.00E+00
Los Angele	2021 Annual	T6 instate heavy		0	0	0	0	1.262789947	5.95E-03	1.06E-02	2.94E-02	1.47E-04	0.00E+00	1.35E-04	0.00E+00	0.00E+00
Los Angele	2021 Annual	T6 instate heavy		0	0	0	0	2.55347793	3.49E-03	6.19E-03	1.31E-02	1.42E-04	0.00E+00	1.30E-04	0.00E+00	0.00E+00
Los Angele	2021 Annual	T6 instate heavy		0	0	0	0	2.507928203	3.38E-03	5.99E-03	1.18E-02	1.36E-04	0.00E+00	1.25E-04	0.00E+00	0.00E+00
Los Angele	2021 Annual	T6 instate heavy		0	0	0	0	2.632214489	3.26E-03	5.77E-03	1.02E-02	1.30E-04	0.00E+00	1.20E-04	0.00E+00	0.00E+00
Los Angele	2021 Annual	T6 instate heavy		0	0	0	0	3.32962753	2.60E-03	4.62E-03	8.25E-03	1.01E-04	0.00E+00	9.25E-05	0.00E+00	0.00E+00
Los Angele	2021 Annual	T6 instate heavy		0	0	0	0	6.647882673	2.51E-03	4.46E-03	7.82E-03	9.61E-05	0.00E+00	8.84E-05	0.00E+00	0.00E+00
Los Angele	2021 Annual	T6 instate heavy		0	0	0	0	4.728224976	2.42E-03	4.29E-03	7.36E-03	9.13E-05	0.00E+00	8.40E-05	0.00E+00	0.00E+00

Los Angele	2019	Annual	T6 instate heavy	2.69E-03
Los Angele	2019	Annual	T6 instate heavy	2.60E-03
Los Angele	2019	Annual	T6 instate heavy	2.60E-03
Los Angele	2019	Annual	T6 instate heavy	2.60E-03
Los Angele	2019	Annual	T6 instate heavy	2.60E-03
Los Angele	2019	Annual	T6 instate heavy	2.60E-03
Los Angele	2019	Annual	T6 instate heavy	2.60E-03
Los Angele	2019	Annual	T6 instate heavy	2.60E-03
Los Angele	2019	Annual	T6 instate heavy	2.60E-03
Los Angele	2019	Annual	T6 instate heavy	2.60E-03
Los Angele	2019	Annual	T6 instate heavy	2.60E-03
Los Angele	2019	Annual	T6 instate heavy	2.60E-03
Los Angele	2019	Annual	T6 instate heavy	2.60E-03
Los Angele	2019	Annual	T6 instate heavy	2.60E-03
Los Angele	2019	Annual	T6 instate heavy	2.60E-03

EMFAC 2011

2020 Estimated Annual Emissions

EMFAC 2011 Vehicle Categories

Los Angeles COUNTY

South Coast AIR BASIN

South Coast AQMD

Area	CalYr	Season	Veh	exhaust CO2 ton/mile
Los Angele	2020	Annual	T6 instate heavy	2.63E-03
Los Angele	2020	Annual	T6 instate heavy	2.63E-03
Los Angele	2020	Annual	T6 instate heavy	2.63E-03
Los Angele	2020	Annual	T6 instate heavy	2.55E-03
Los Angele	2020	Annual	T6 instate heavy	2.55E-03
Los Angele	2020	Annual	T6 instate heavy	2.55E-03
Los Angele	2020	Annual	T6 instate heavy	2.54E-03
Los Angele	2020	Annual	T6 instate heavy	2.54E-03
Los Angele	2020	Annual	T6 instate heavy	2.54E-03
Los Angele	2020	Annual	T6 instate heavy	2.54E-03
Los Angele	2020	Annual	T6 instate heavy	2.54E-03
Los Angele	2020	Annual	T6 instate heavy	2.54E-03
Los Angele	2020	Annual	T6 instate heavy	2.54E-03
Los Angele	2020	Annual	T6 instate heavy	2.54E-03
Los Angele	2020	Annual	T6 instate heavy	2.54E-03
Los Angele	2020	Annual	T6 instate heavy	2.54E-03
Los Angele	2020	Annual	T6 instate heavy	2.54E-03

EMFAC 2011

2021 Estimated Annual Emissions

EMFAC 2011 Vehicle Categories

Los Angeles COUNTY

South Coast AIR BASIN

South Coast AQMD

Area	CalYr	Season	Veh	exhaust CO2 ton/mile
Los Angele	2021	Annual	T6 instate heavy	2.63E-03
Los Angele	2021	Annual	T6 instate heavy	2.63E-03
Los Angele	2021	Annual	T6 instate heavy	2.63E-03
Los Angele	2021	Annual	T6 instate heavy	2.55E-03
Los Angele	2021	Annual	T6 instate heavy	2.55E-03
Los Angele	2021	Annual	T6 instate heavy	2.55E-03
Los Angele	2021	Annual	T6 instate heavy	2.54E-03
Los Angele	2021	Annual	T6 instate heavy	2.54E-03
Los Angele	2021	Annual	T6 instate heavy	2.54E-03
Los Angele	2021	Annual	T6 instate heavy	2.54E-03

Los Angele	2021 Annual	T6 instate heavy	DSL	2016	5	0	124.284855	0	1.44E-04	0	0	0
Los Angele	2021 Annual	T6 instate heavy	DSL	2017	5	0	87.2251975	0	9.63E-05	0	0	0
Los Angele	2021 Annual	T6 instate heavy	DSL	2018	5	0	92.68479063	0	9.72E-05	0	0	0
Los Angele	2021 Annual	T6 instate heavy	DSL	2019	5	0	99.12007293	0	9.82E-05	0	0	0
Los Angele	2021 Annual	T6 instate heavy	DSL	2020	5	0	106.8965335	0	9.95E-05	0	0	0
Los Angele	2021 Annual	T6 instate heavy	DSL	2021	5	0	94.2328231	0	8.22E-05	0	0	0
Los Angele	2021 Annual	T6 instate heavy	DSL	2022	5	0	9.696836592	0	7.88E-06	0	0	0
Los Angele	2021 Annual	T6 instate heavy	DSL	>2007	5	0	695.3282847	0	0.00072334	0	0	0

EMFAC 2011

2022 Estimated Annual Emissions

EMFAC 2011 Vehicle Categories

Los Angeles COUNTY

South Coast AIR BASIN

South Coast AQMD

Area	CalYr	Season	Veh	Fuel	MdlYr	Speed (Miles/hr)	Pop (Vehicles)	VMT (Miles/day)	Trips (Trips/day)	ROG_RUNEX (Tons/day)	ROG_IDLEX (Tons/day)	ROG_STREX (Tons/day)	ROG_TOTEX (Tons/day)
Los Angele	2022 Annual	T6 instate heavy	DSL	2007	5	0	52.08977529	0	1.69E-04	0	0	0	0
Los Angele	2022 Annual	T6 instate heavy	DSL	2008	5	0	51.01706718	0	1.62E-04	0	0	0	0
Los Angele	2022 Annual	T6 instate heavy	DSL	2009	5	0	18.94776633	0	5.83E-05	0	0	0	0
Los Angele	2022 Annual	T6 instate heavy	DSL	2010	5	0	35.31290824	0	6.36E-05	0	0	0	0
Los Angele	2022 Annual	T6 instate heavy	DSL	2011	5	0	37.45674638	0	6.54E-05	0	0	0	0
Los Angele	2022 Annual	T6 instate heavy	DSL	2012	5	0	41.56510513	0	7.02E-05	0	0	0	0
Los Angele	2022 Annual	T6 instate heavy	DSL	2013	5	0	64.20632663	0	8.63E-05	0	0	0	0
Los Angele	2022 Annual	T6 instate heavy	DSL	2014	5	0	91.553263	0	1.19E-04	0	0	0	0
Los Angele	2022 Annual	T6 instate heavy	DSL	2015	5	0	119.4476419	0	1.50E-04	0	0	0	0
Los Angele	2022 Annual	T6 instate heavy	DSL	2016	5	0	104.7107048	0	1.27E-04	0	0	0	0
Los Angele	2022 Annual	T6 instate heavy	DSL	2017	5	0	121.9369017	0	1.41E-04	0	0	0	0
Los Angele	2022 Annual	T6 instate heavy	DSL	2018	5	0	88.25128689	0	9.75E-05	0	0	0	0
Los Angele	2022 Annual	T6 instate heavy	DSL	2019	5	0	93.71549986	0	9.83E-05	0	0	0	0
Los Angele	2022 Annual	T6 instate heavy	DSL	2020	5	0	99.66696922	0	9.87E-05	0	0	0	0
Los Angele	2022 Annual	T6 instate heavy	DSL	2021	5	0	106.4447171	0	9.91E-05	0	0	0	0
Los Angele	2022 Annual	T6 instate heavy	DSL	2022	5	0	93.86307094	0	8.19E-05	0	0	0	0
Los Angele	2022 Annual	T6 instate heavy	DSL	2023	5	0	9.762472596	0	7.94E-06	0	0	0	0
Los Angele	2022 Annual	T6 instate heavy	DSL	>2007	5	0	718.3516231	0	0.000751122	0	0	0	0

EMFAC 2011

2023 Estimated Annual Emissions

EMFAC 2011 Vehicle Categories

Los Angeles COUNTY

South Coast AIR BASIN

South Coast AQMD

Area	CalYr	Season	Veh	Fuel	MdlYr	Speed (Miles/hr)	Pop (Vehicles)	VMT (Miles/day)	Trips (Trips/day)	ROG_RUNEX (Tons/day)	ROG_IDLEX (Tons/day)	ROG_STREX (Tons/day)	ROG_TOTEX (Tons/day)
Los Angele	2023 Annual	T6 instate heavy	DSL	2010	5	0	30.29513131	0	5.61E-05	0	0	0	0
Los Angele	2023 Annual	T6 instate heavy	DSL	2011	5	0	31.45495947	0	5.66E-05	0	0	0	0
Los Angele	2023 Annual	T6 instate heavy	DSL	2012	5	0	37.06694652	0	6.47E-05	0	0	0	0
Los Angele	2023 Annual	T6 instate heavy	DSL	2013	5	0	57.48642927	0	7.95E-05	0	0	0	0
Los Angele	2023 Annual	T6 instate heavy	DSL	2014	5	0	93.71923978	0	1.26E-04	0	0	0	0
Los Angele	2023 Annual	T6 instate heavy	DSL	2015	5	0	161.692198	0	2.10E-04	0	0	0	0
Los Angele	2023 Annual	T6 instate heavy	DSL	2016	5	0	84.0260054	0	1.06E-04	0	0	0	0
Los Angele	2023 Annual	T6 instate heavy	DSL	2017	5	0	149.9708081	0	1.81E-04	0	0	0	0
Los Angele	2023 Annual	T6 instate heavy	DSL	2018	5	0	85.48298965	0	9.90E-05	0	0	0	0
Los Angele	2023 Annual	T6 instate heavy	DSL	2019	5	0	89.59875488	0	9.90E-05	0	0	0	0
Los Angele	2023 Annual	T6 instate heavy	DSL	2020	5	0	94.59546372	0	9.92E-05	0	0	0	0
Los Angele	2023 Annual	T6 instate heavy	DSL	2021	5	0	99.6548029	0	9.87E-05	0	0	0	0

Los Angele	2021 Annual	T6 instate heavy	0	0	0	0	0	0	1.64E-04	0	0	0
Los Angele	2021 Annual	T6 instate heavy	0	0	0	0	0	0	1.10E-04	0	0	0
Los Angele	2021 Annual	T6 instate heavy	0	0	0	0	0	0	1.11E-04	0	0	0
Los Angele	2021 Annual	T6 instate heavy	0	0	0	0	0	0	1.12E-04	0	0	0
Los Angele	2021 Annual	T6 instate heavy	0	0	0	0	0	0	1.13E-04	0	0	0
Los Angele	2021 Annual	T6 instate heavy	0	0	0	0	0	0	9.36E-05	0	0	0
Los Angele	2021 Annual	T6 instate heavy	0	0	0	0	0	0	8.98E-06	0	0	0
Los Angele	2021 Annual	T6 instate heavy	0	0	0	0	0	0	0.000823468	0	0	0

EMFAC 2011

2022 Estimated Annual Emissions

EMFAC 2011 Vehicle Categories

Los Angeles COUNTY

South Coast AIR BASIN

South Coast AQMD

Area	CalYr	Season	Veh	ROG_DIURN (Tons/day)	ROG_HTSK (Tons/day)	ROG_RUNLS (Tons/day)	ROG_RESTL (Tons/day)	ROG_TOTAL (Tons/day)	TOG_RUNEX (Tons/day)	TOG_IDLEX (Tons/day)	TOG_STREX (Tons/day)	TOG_TOTEX (Tons/day)
Los Angele	2022 Annual	T6 instate heavy		0	0	0	0	0	1.93E-04	0	0	0
Los Angele	2022 Annual	T6 instate heavy		0	0	0	0	0	1.84E-04	0	0	0
Los Angele	2022 Annual	T6 instate heavy		0	0	0	0	0	6.64E-05	0	0	0
Los Angele	2022 Annual	T6 instate heavy		0	0	0	0	0	7.24E-05	0	0	0
Los Angele	2022 Annual	T6 instate heavy		0	0	0	0	0	7.45E-05	0	0	0
Los Angele	2022 Annual	T6 instate heavy		0	0	0	0	0	7.99E-05	0	0	0
Los Angele	2022 Annual	T6 instate heavy		0	0	0	0	0	9.82E-05	0	0	0
Los Angele	2022 Annual	T6 instate heavy		0	0	0	0	0	1.36E-04	0	0	0
Los Angele	2022 Annual	T6 instate heavy		0	0	0	0	0	1.71E-04	0	0	0
Los Angele	2022 Annual	T6 instate heavy		0	0	0	0	0	1.44E-04	0	0	0
Los Angele	2022 Annual	T6 instate heavy		0	0	0	0	0	1.61E-04	0	0	0
Los Angele	2022 Annual	T6 instate heavy		0	0	0	0	0	1.11E-04	0	0	0
Los Angele	2022 Annual	T6 instate heavy		0	0	0	0	0	1.12E-04	0	0	0
Los Angele	2022 Annual	T6 instate heavy		0	0	0	0	0	1.12E-04	0	0	0
Los Angele	2022 Annual	T6 instate heavy		0	0	0	0	0	1.13E-04	0	0	0
Los Angele	2022 Annual	T6 instate heavy		0	0	0	0	0	9.32E-05	0	0	0
Los Angele	2022 Annual	T6 instate heavy		0	0	0	0	0	9.04E-06	0	0	0
Los Angele	2022 Annual	T6 instate heavy		0	0	0	0	0	0.000855095	0	0	0

EMFAC 2011

2023 Estimated Annual Emissions

EMFAC 2011 Vehicle Categories

Los Angeles COUNTY

South Coast AIR BASIN

South Coast AQMD

Area	CalYr	Season	Veh	ROG_DIURN (Tons/day)	ROG_HTSK (Tons/day)	ROG_RUNLS (Tons/day)	ROG_RESTL (Tons/day)	ROG_TOTAL (Tons/day)	TOG_RUNEX (Tons/day)	TOG_IDLEX (Tons/day)	TOG_STREX (Tons/day)	TOG_TOTEX (Tons/day)
Los Angele	2023 Annual	T6 instate heavy		0	0	0	0	0	6.38E-05	0	0	0
Los Angele	2023 Annual	T6 instate heavy		0	0	0	0	0	6.45E-05	0	0	0
Los Angele	2023 Annual	T6 instate heavy		0	0	0	0	0	7.37E-05	0	0	0
Los Angele	2023 Annual	T6 instate heavy		0	0	0	0	0	9.05E-05	0	0	0
Los Angele	2023 Annual	T6 instate heavy		0	0	0	0	0	1.43E-04	0	0	0
Los Angele	2023 Annual	T6 instate heavy		0	0	0	0	0	2.40E-04	0	0	0
Los Angele	2023 Annual	T6 instate heavy		0	0	0	0	0	1.20E-04	0	0	0
Los Angele	2023 Annual	T6 instate heavy		0	0	0	0	0	2.06E-04	0	0	0
Los Angele	2023 Annual	T6 instate heavy		0	0	0	0	0	1.13E-04	0	0	0
Los Angele	2023 Annual	T6 instate heavy		0	0	0	0	0	1.13E-04	0	0	0
Los Angele	2023 Annual	T6 instate heavy		0	0	0	0	0	1.12E-04	0	0	0

Los Angele	2021 Annual	T6 instate heavy	0	0	0	0	0	0	2.55E-04	0	0	0
Los Angele	2021 Annual	T6 instate heavy	0	0	0	0	0	0	1.71E-04	0	0	0
Los Angele	2021 Annual	T6 instate heavy	0	0	0	0	0	0	1.72E-04	0	0	0
Los Angele	2021 Annual	T6 instate heavy	0	0	0	0	0	0	1.74E-04	0	0	0
Los Angele	2021 Annual	T6 instate heavy	0	0	0	0	0	0	1.76E-04	0	0	0
Los Angele	2021 Annual	T6 instate heavy	0	0	0	0	0	0	1.46E-04	0	0	0
Los Angele	2021 Annual	T6 instate heavy	0	0	0	0	0	0	1.40E-05	0	0	0
Los Angele	2021 Annual	T6 instate heavy	0	0	0	0	0	0	0.001282687	0	0	0

EMFAC 2011

2022 Estimated Annual Emissions

EMFAC 2011 Vehicle Categories

Los Angeles COUNTY

South Coast AIR BASIN

South Coast AQMD

Area	CalYr	Season	Veh	TOG_DIURN (Tons/day)	TOG_HTSK (Tons/day)	TOG_RUNLS (Tons/day)	TOG_RESTL (Tons/day)	TOG_TOTAL (Tons/day)	CO_RUNEX (Tons/day)	CO_IDLEX (Tons/day)	CO_STREX (Tons/day)	CO_TOTEX (Tons/day)
Los Angele	2022 Annual	T6 instate heavy		0	0	0	0	0	3.00E-04	0	0	0
Los Angele	2022 Annual	T6 instate heavy		0	0	0	0	0	2.87E-04	0	0	0
Los Angele	2022 Annual	T6 instate heavy		0	0	0	0	0	1.03E-04	0	0	0
Los Angele	2022 Annual	T6 instate heavy		0	0	0	0	0	1.13E-04	0	0	0
Los Angele	2022 Annual	T6 instate heavy		0	0	0	0	0	1.16E-04	0	0	0
Los Angele	2022 Annual	T6 instate heavy		0	0	0	0	0	1.25E-04	0	0	0
Los Angele	2022 Annual	T6 instate heavy		0	0	0	0	0	1.53E-04	0	0	0
Los Angele	2022 Annual	T6 instate heavy		0	0	0	0	0	2.11E-04	0	0	0
Los Angele	2022 Annual	T6 instate heavy		0	0	0	0	0	2.66E-04	0	0	0
Los Angele	2022 Annual	T6 instate heavy		0	0	0	0	0	2.24E-04	0	0	0
Los Angele	2022 Annual	T6 instate heavy		0	0	0	0	0	2.50E-04	0	0	0
Los Angele	2022 Annual	T6 instate heavy		0	0	0	0	0	1.73E-04	0	0	0
Los Angele	2022 Annual	T6 instate heavy		0	0	0	0	0	1.74E-04	0	0	0
Los Angele	2022 Annual	T6 instate heavy		0	0	0	0	0	1.75E-04	0	0	0
Los Angele	2022 Annual	T6 instate heavy		0	0	0	0	0	1.76E-04	0	0	0
Los Angele	2022 Annual	T6 instate heavy		0	0	0	0	0	1.45E-04	0	0	0
Los Angele	2022 Annual	T6 instate heavy		0	0	0	0	0	1.41E-05	0	0	0
Los Angele	2022 Annual	T6 instate heavy		0	0	0	0	0	0.001331952	0	0	0

EMFAC 2011

2023 Estimated Annual Emissions

EMFAC 2011 Vehicle Categories

Los Angeles COUNTY

South Coast AIR BASIN

South Coast AQMD

Area	CalYr	Season	Veh	TOG_DIURN (Tons/day)	TOG_HTSK (Tons/day)	TOG_RUNLS (Tons/day)	TOG_RESTL (Tons/day)	TOG_TOTAL (Tons/day)	CO_RUNEX (Tons/day)	CO_IDLEX (Tons/day)	CO_STREX (Tons/day)	CO_TOTEX (Tons/day)
Los Angele	2023 Annual	T6 instate heavy		0	0	0	0	0	9.94E-05	0	0	0
Los Angele	2023 Annual	T6 instate heavy		0	0	0	0	0	1.00E-04	0	0	0
Los Angele	2023 Annual	T6 instate heavy		0	0	0	0	0	1.15E-04	0	0	0
Los Angele	2023 Annual	T6 instate heavy		0	0	0	0	0	1.41E-04	0	0	0
Los Angele	2023 Annual	T6 instate heavy		0	0	0	0	0	2.23E-04	0	0	0
Los Angele	2023 Annual	T6 instate heavy		0	0	0	0	0	3.73E-04	0	0	0
Los Angele	2023 Annual	T6 instate heavy		0	0	0	0	0	1.87E-04	0	0	0
Los Angele	2023 Annual	T6 instate heavy		0	0	0	0	0	3.21E-04	0	0	0
Los Angele	2023 Annual	T6 instate heavy		0	0	0	0	0	1.76E-04	0	0	0
Los Angele	2023 Annual	T6 instate heavy		0	0	0	0	0	1.75E-04	0	0	0
Los Angele	2023 Annual	T6 instate heavy		0	0	0	0	0	1.76E-04	0	0	0
Los Angele	2023 Annual	T6 instate heavy		0	0	0	0	0	1.75E-04	0	0	0

Los Angele	2021	Annual	T6 instate heavy	4.27E-04	0	0	0	0.350689712	0	0	0	0.315620741
Los Angele	2021	Annual	T6 instate heavy	2.77E-04	0	0	0	0.246119927	0	0	0	0.221507934
Los Angele	2021	Annual	T6 instate heavy	2.69E-04	0	0	0	0.261525047	0	0	0	0.235372542
Los Angele	2021	Annual	T6 instate heavy	2.60E-04	0	0	0	0.279683231	0	0	0	0.251714908
Los Angele	2021	Annual	T6 instate heavy	2.50E-04	0	0	0	0.301625766	0	0	0	0.271463189
Los Angele	2021	Annual	T6 instate heavy	1.94E-04	0	0	0	0.26589307	0	0	0	0.239303763
Los Angele	2021	Annual	T6 instate heavy	1.72E-05	0	0	0	0.027361184	0	0	0	0.024625066
Los Angele	2021	Annual	T6 instate heavy	0.00199354	0	0	0	1.961980614	0	0	0	1.765782553

EMFAC 2011

2022 Estimated Annual Emissions

EMFAC 2011 Vehicle Categories

Los Angeles COUNTY

South Coast AIR BASIN

South Coast AQMD

Area	CalYr	Season	Veh	NOX_RUNEX (Tons/day)	NOX_IDLEX (Tons/day)	NOX_STREX (Tons/day)	NOX_TOTEX (Tons/day)	CO2_RUNEX (Tons/day)	CO2_IDLEX (Tons/day)	CO2_STREX (Tons/day)	CO2_TOTEX (Tons/day)	CO2_RUNEX(Pavt) (Tons/day)
Los Angele	2022	Annual	T6 instate heavy	9.52E-04	0	0	0	0.152411153	0	0	0	0.137170038
Los Angele	2022	Annual	T6 instate heavy	8.64E-04	0	0	0	0.149272482	0	0	0	0.134345234
Los Angele	2022	Annual	T6 instate heavy	2.83E-04	0	0	0	0.05543988	0	0	0	0.049895892
Los Angele	2022	Annual	T6 instate heavy	2.39E-04	0	0	0	0.099870904	0	0	0	0.089883814
Los Angele	2022	Annual	T6 instate heavy	2.30E-04	0	0	0	0.105934042	0	0	0	0.095340638
Los Angele	2022	Annual	T6 instate heavy	2.22E-04	0	0	0	0.117553179	0	0	0	0.105797861
Los Angele	2022	Annual	T6 instate heavy	2.78E-04	0	0	0	0.18116848	0	0	0	0.163051632
Los Angele	2022	Annual	T6 instate heavy	3.78E-04	0	0	0	0.25833226	0	0	0	0.232499034
Los Angele	2022	Annual	T6 instate heavy	4.67E-04	0	0	0	0.337040737	0	0	0	0.303336664
Los Angele	2022	Annual	T6 instate heavy	3.85E-04	0	0	0	0.295458099	0	0	0	0.265912289
Los Angele	2022	Annual	T6 instate heavy	4.19E-04	0	0	0	0.344064584	0	0	0	0.309658126
Los Angele	2022	Annual	T6 instate heavy	2.80E-04	0	0	0	0.249015203	0	0	0	0.224113683
Los Angele	2022	Annual	T6 instate heavy	2.72E-04	0	0	0	0.264433359	0	0	0	0.237990023
Los Angele	2022	Annual	T6 instate heavy	2.62E-04	0	0	0	0.281226387	0	0	0	0.253103749
Los Angele	2022	Annual	T6 instate heavy	2.49E-04	0	0	0	0.300350893	0	0	0	0.270315804
Los Angele	2022	Annual	T6 instate heavy	1.93E-04	0	0	0	0.264849755	0	0	0	0.238364779
Los Angele	2022	Annual	T6 instate heavy	1.73E-05	0	0	0	0.027546387	0	0	0	0.024791748
Los Angele	2022	Annual	T6 instate heavy	0.002078001	0	0	0	2.026944667	0	0	0	1.824250201

EMFAC 2011

2023 Estimated Annual Emissions

EMFAC 2011 Vehicle Categories

Los Angeles COUNTY

South Coast AIR BASIN

South Coast AQMD

Area	CalYr	Season	Veh	NOX_RUNEX (Tons/day)	NOX_IDLEX (Tons/day)	NOX_STREX (Tons/day)	NOX_TOTEX (Tons/day)	CO2_RUNEX (Tons/day)	CO2_IDLEX (Tons/day)	CO2_STREX (Tons/day)	CO2_TOTEX (Tons/day)	CO2_RUNEX(Pavt) (Tons/day)
Los Angele	2023	Annual	T6 instate heavy	2.11E-04	0	0	0	0.085679778	0	0	0	0.0771118
Los Angele	2023	Annual	T6 instate heavy	2.00E-04	0	0	0	0.088959969	0	0	0	0.080063972
Los Angele	2023	Annual	T6 instate heavy	2.06E-04	0	0	0	0.104831622	0	0	0	0.09434846
Los Angele	2023	Annual	T6 instate heavy	2.60E-04	0	0	0	0.162207208	0	0	0	0.145986487
Los Angele	2023	Annual	T6 instate heavy	4.06E-04	0	0	0	0.264443912	0	0	0	0.237999521
Los Angele	2023	Annual	T6 instate heavy	6.67E-04	0	0	0	0.456240549	0	0	0	0.410616494
Los Angele	2023	Annual	T6 instate heavy	3.28E-04	0	0	0	0.237092892	0	0	0	0.213383603
Los Angele	2023	Annual	T6 instate heavy	5.52E-04	0	0	0	0.423166761	0	0	0	0.380850085
Los Angele	2023	Annual	T6 instate heavy	2.94E-04	0	0	0	0.241204007	0	0	0	0.217083606
Los Angele	2023	Annual	T6 instate heavy	2.85E-04	0	0	0	0.252817301	0	0	0	0.227535571
Los Angele	2023	Annual	T6 instate heavy	2.75E-04	0	0	0	0.266916319	0	0	0	0.240224687
Los Angele	2023	Annual	T6 instate heavy	2.62E-04	0	0	0	0.281192058	0	0	0	0.253072852

Los Angele	2021 Annual	T6 instate heavy	0	0	0	5.36E-06	0	0	0	0	0	0
Los Angele	2021 Annual	T6 instate heavy	0	0	0	3.53E-06	0	0	0	0	0	0
Los Angele	2021 Annual	T6 instate heavy	0	0	0	3.49E-06	0	0	0	0	0	0
Los Angele	2021 Annual	T6 instate heavy	0	0	0	3.45E-06	0	0	0	0	0	0
Los Angele	2021 Annual	T6 instate heavy	0	0	0	3.41E-06	0	0	0	0	0	0
Los Angele	2021 Annual	T6 instate heavy	0	0	0	2.73E-06	0	0	0	0	0	0
Los Angele	2021 Annual	T6 instate heavy	0	0	0	2.52E-07	0	0	0	0	0	0
Los Angele	2021 Annual	T6 instate heavy	0	0	0	2.59327E-05	0	0	0	0	0	0

EMFAC 2011

2022 Estimated Annual Emissions

EMFAC 2011 Vehicle Categories

Los Angeles COUNTY

South Coast AIR BASIN

South Coast AQMD

Area	CalYr	Season	Veh	CO2_IDLEX(Pavk (Tons/day)	CO2_STREX(Pavk (Tons/day)	CO2_TOTEX(Pavk (Tons/day)	PM10_RUNEX (Tons/day)	PM10_IDLEX (Tons/day)	PM10_STREX (Tons/day)	PM10_TOTEX (Tons/day)	PM10_PMTW (Tons/day)	PM10_PMBW (Tons/day)
Los Angele	2022 Annual	T6 instate heavy		0	0	0	4.16E-06	0	0	0	0	0
Los Angele	2022 Annual	T6 instate heavy		0	0	0	3.98E-06	0	0	0	0	0
Los Angele	2022 Annual	T6 instate heavy		0	0	0	1.44E-06	0	0	0	0	0
Los Angele	2022 Annual	T6 instate heavy		0	0	0	2.60E-06	0	0	0	0	0
Los Angele	2022 Annual	T6 instate heavy		0	0	0	2.66E-06	0	0	0	0	0
Los Angele	2022 Annual	T6 instate heavy		0	0	0	2.83E-06	0	0	0	0	0
Los Angele	2022 Annual	T6 instate heavy		0	0	0	3.36E-06	0	0	0	0	0
Los Angele	2022 Annual	T6 instate heavy		0	0	0	4.60E-06	0	0	0	0	0
Los Angele	2022 Annual	T6 instate heavy		0	0	0	5.74E-06	0	0	0	0	0
Los Angele	2022 Annual	T6 instate heavy		0	0	0	4.78E-06	0	0	0	0	0
Los Angele	2022 Annual	T6 instate heavy		0	0	0	5.26E-06	0	0	0	0	0
Los Angele	2022 Annual	T6 instate heavy		0	0	0	3.57E-06	0	0	0	0	0
Los Angele	2022 Annual	T6 instate heavy		0	0	0	3.53E-06	0	0	0	0	0
Los Angele	2022 Annual	T6 instate heavy		0	0	0	3.47E-06	0	0	0	0	0
Los Angele	2022 Annual	T6 instate heavy		0	0	0	3.39E-06	0	0	0	0	0
Los Angele	2022 Annual	T6 instate heavy		0	0	0	2.72E-06	0	0	0	0	0
Los Angele	2022 Annual	T6 instate heavy		0	0	0	2.54E-07	0	0	0	0	0
Los Angele	2022 Annual	T6 instate heavy		0	0	0	2.69816E-05	0	0	0	0	0

EMFAC 2011

2023 Estimated Annual Emissions

EMFAC 2011 Vehicle Categories

Los Angeles COUNTY

South Coast AIR BASIN

South Coast AQMD

Area	CalYr	Season	Veh	CO2_IDLEX(Pavk (Tons/day)	CO2_STREX(Pavk (Tons/day)	CO2_TOTEX(Pavk (Tons/day)	PM10_RUNEX (Tons/day)	PM10_IDLEX (Tons/day)	PM10_STREX (Tons/day)	PM10_TOTEX (Tons/day)	PM10_PMTW (Tons/day)	PM10_PMBW (Tons/day)
Los Angele	2023 Annual	T6 instate heavy		0	0	0	2.30E-06	0	0	0	0	0
Los Angele	2023 Annual	T6 instate heavy		0	0	0	2.31E-06	0	0	0	0	0
Los Angele	2023 Annual	T6 instate heavy		0	0	0	2.63E-06	0	0	0	0	0
Los Angele	2023 Annual	T6 instate heavy		0	0	0	3.12E-06	0	0	0	0	0
Los Angele	2023 Annual	T6 instate heavy		0	0	0	4.91E-06	0	0	0	0	0
Los Angele	2023 Annual	T6 instate heavy		0	0	0	8.13E-06	0	0	0	0	0
Los Angele	2023 Annual	T6 instate heavy		0	0	0	4.04E-06	0	0	0	0	0
Los Angele	2023 Annual	T6 instate heavy		0	0	0	6.85E-06	0	0	0	0	0
Los Angele	2023 Annual	T6 instate heavy		0	0	0	3.69E-06	0	0	0	0	0
Los Angele	2023 Annual	T6 instate heavy		0	0	0	3.63E-06	0	0	0	0	0
Los Angele	2023 Annual	T6 instate heavy		0	0	0	3.57E-06	0	0	0	0	0
Los Angele	2023 Annual	T6 instate heavy		0	0	0	3.47E-06	0	0	0	0	0



Los Angele	2021 Annual	T6 instate heavy	0	4.93E-06	0	0	0	0	0	0	0	0
Los Angele	2021 Annual	T6 instate heavy	0	3.25E-06	0	0	0	0	0	0	0	0
Los Angele	2021 Annual	T6 instate heavy	0	3.21E-06	0	0	0	0	0	0	0	0
Los Angele	2021 Annual	T6 instate heavy	0	3.17E-06	0	0	0	0	0	0	0	0
Los Angele	2021 Annual	T6 instate heavy	0	3.13E-06	0	0	0	0	0	0	0	0
Los Angele	2021 Annual	T6 instate heavy	0	2.51E-06	0	0	0	0	0	0	0	0
Los Angele	2021 Annual	T6 instate heavy	0	2.32E-07	0	0	0	0	0	0	0	0
Los Angele	2021 Annual	T6 instate heavy	0	2.3858E-05	0	0	0	0	0	0	0	0

EMFAC 2011

2022 Estimated Annual Emissions

EMFAC 2011 Vehicle Categories

Los Angeles COUNTY

South Coast AIR BASIN

South Coast AQMD

Area	CalYr	Season	Veh	PM10_TOTAL (Tons/day)	PM2_5_RUNEX (Tons/day)	PM2_5_IDLEX (Tons/day)	PM2_5_STREX (Tons/day)	PM2_5_TOTEX (Tons/day)	PM2_5_PMTW (Tons/day)	PM2_5_PMBW (Tons/day)	PM2_5_TOTAL (Tons/day)	SOX_RUNEX (Tons/day)
Los Angele	2022 Annual	T6 instate heavy		0	3.83E-06	0	0	0	0	0	0	0
Los Angele	2022 Annual	T6 instate heavy		0	3.66E-06	0	0	0	0	0	0	0
Los Angele	2022 Annual	T6 instate heavy		0	1.32E-06	0	0	0	0	0	0	0
Los Angele	2022 Annual	T6 instate heavy		0	2.39E-06	0	0	0	0	0	0	0
Los Angele	2022 Annual	T6 instate heavy		0	2.44E-06	0	0	0	0	0	0	0
Los Angele	2022 Annual	T6 instate heavy		0	2.61E-06	0	0	0	0	0	0	0
Los Angele	2022 Annual	T6 instate heavy		0	3.09E-06	0	0	0	0	0	0	0
Los Angele	2022 Annual	T6 instate heavy		0	4.23E-06	0	0	0	0	0	0	0
Los Angele	2022 Annual	T6 instate heavy		0	5.28E-06	0	0	0	0	0	0	0
Los Angele	2022 Annual	T6 instate heavy		0	4.40E-06	0	0	0	0	0	0	0
Los Angele	2022 Annual	T6 instate heavy		0	4.84E-06	0	0	0	0	0	0	0
Los Angele	2022 Annual	T6 instate heavy		0	3.29E-06	0	0	0	0	0	0	0
Los Angele	2022 Annual	T6 instate heavy		0	3.25E-06	0	0	0	0	0	0	0
Los Angele	2022 Annual	T6 instate heavy		0	3.19E-06	0	0	0	0	0	0	0
Los Angele	2022 Annual	T6 instate heavy		0	3.12E-06	0	0	0	0	0	0	0
Los Angele	2022 Annual	T6 instate heavy		0	2.50E-06	0	0	0	0	0	0	0
Los Angele	2022 Annual	T6 instate heavy		0	2.34E-07	0	0	0	0	0	0	0
Los Angele	2022 Annual	T6 instate heavy		0	2.4823E-05	0	0	0	0	0	0	0

EMFAC 2011

2023 Estimated Annual Emissions

EMFAC 2011 Vehicle Categories

Los Angeles COUNTY

South Coast AIR BASIN

South Coast AQMD

Area	CalYr	Season	Veh	PM10_TOTAL (Tons/day)	PM2_5_RUNEX (Tons/day)	PM2_5_IDLEX (Tons/day)	PM2_5_STREX (Tons/day)	PM2_5_TOTEX (Tons/day)	PM2_5_PMTW (Tons/day)	PM2_5_PMBW (Tons/day)	PM2_5_TOTAL (Tons/day)	SOX_RUNEX (Tons/day)
Los Angele	2023 Annual	T6 instate heavy		0	2.11E-06	0	0	0	0	0	0	0
Los Angele	2023 Annual	T6 instate heavy		0	2.13E-06	0	0	0	0	0	0	0
Los Angele	2023 Annual	T6 instate heavy		0	2.42E-06	0	0	0	0	0	0	0
Los Angele	2023 Annual	T6 instate heavy		0	2.87E-06	0	0	0	0	0	0	0
Los Angele	2023 Annual	T6 instate heavy		0	4.52E-06	0	0	0	0	0	0	0
Los Angele	2023 Annual	T6 instate heavy		0	7.48E-06	0	0	0	0	0	0	0
Los Angele	2023 Annual	T6 instate heavy		0	3.71E-06	0	0	0	0	0	0	0
Los Angele	2023 Annual	T6 instate heavy		0	6.30E-06	0	0	0	0	0	0	0
Los Angele	2023 Annual	T6 instate heavy		0	3.39E-06	0	0	0	0	0	0	0
Los Angele	2023 Annual	T6 instate heavy		0	3.34E-06	0	0	0	0	0	0	0
Los Angele	2023 Annual	T6 instate heavy		0	3.28E-06	0	0	0	0	0	0	0
Los Angele	2023 Annual	T6 instate heavy		0	3.19E-06	0	0	0	0	0	0	0

Los Angele	2021 Annual	T6 instate heavy	0	0	0	0	7.247861597	2.32E-03	4.11E-03	6.87E-03	8.63E-05	0.00E+00	7.94E-05	0.00E+00	0.00E+00
Los Angele	2021 Annual	T6 instate heavy	0	0	0	0	5.065354609	2.21E-03	3.92E-03	6.35E-03	8.10E-05	0.00E+00	7.45E-05	0.00E+00	0.00E+00
Los Angele	2021 Annual	T6 instate heavy	0	0	0	0	5.38086518	2.10E-03	3.72E-03	5.81E-03	7.54E-05	0.00E+00	6.94E-05	0.00E+00	0.00E+00
Los Angele	2021 Annual	T6 instate heavy	0	0	0	0	5.753611671	1.98E-03	3.51E-03	5.25E-03	6.96E-05	0.00E+00	6.41E-05	0.00E+00	0.00E+00
Los Angele	2021 Annual	T6 instate heavy	0	0	0	0	6.205215784	1.86E-03	3.30E-03	4.68E-03	6.37E-05	0.00E+00	5.86E-05	0.00E+00	0.00E+00
Los Angele	2021 Annual	T6 instate heavy	0	0	0	0	5.47009743	1.74E-03	3.09E-03	4.11E-03	5.79E-05	0.00E+00	5.33E-05	0.00E+00	0.00E+00
Los Angele	2021 Annual	T6 instate heavy	0	0	0	0	0.569093377	1.63E-03	2.88E-03	3.55E-03	5.20E-05	0.00E+00	4.79E-05	0.00E+00	0.00E+00
Los Angele	2021 Annual	T6 instate heavy	0	0	0	0	40.42032462	2.08E-03	3.69E-03	5.73E-03	7.46E-05	0.00E+00	6.86E-05	0.00E+00	0.00E+00

EMFAC 2011

2022 Estimated Annual Emissions

EMFAC 2011 Vehicle Categories

Los Angeles COUNTY

South Coast AIR BASIN

South Coast AQMD

Area	CalYr	Season	Veh	SOX_IDLEX (Tons/day)	SOX_STREX (Tons/day)	SOX_TOTEX (Tons/day)	FUEL_GAS (1000 Gallons)	FUEL_DSL (1000 Gallons)	exhaust ROG lb/mile	exhaust CO lb/mile	exhaust NOx lb/mile	exhaust PM10 lb/mile	tire wear a PM10 lb/mile	exhaust PM2.5 lb/mile	tire wear a PM2.5 lb/mile	SOx lb/mile
Los Angele	2022 Annual	T6 instate heavy		0	0	0	3.166120325	6.49E-03	1.15E-02	3.66E-02	1.60E-04	0.00E+00	1.47E-04	0.00E+00	0.00E+00	0.00E+00
Los Angele	2022 Annual	T6 instate heavy		0	0	0	3.094170529	6.34E-03	1.12E-02	3.39E-02	1.56E-04	0.00E+00	1.44E-04	0.00E+00	0.00E+00	0.00E+00
Los Angele	2022 Annual	T6 instate heavy		0	0	0	1.14735318	6.15E-03	1.09E-02	2.99E-02	1.52E-04	0.00E+00	1.40E-04	0.00E+00	0.00E+00	0.00E+00
Los Angele	2022 Annual	T6 instate heavy		0	0	0	2.07224622	3.60E-03	6.39E-03	1.35E-02	1.47E-04	0.00E+00	1.35E-04	0.00E+00	0.00E+00	0.00E+00
Los Angele	2022 Annual	T6 instate heavy		0	0	0	2.190840917	3.49E-03	6.19E-03	1.23E-02	1.42E-04	0.00E+00	1.30E-04	0.00E+00	0.00E+00	0.00E+00
Los Angele	2022 Annual	T6 instate heavy		0	0	0	2.427511493	3.38E-03	5.99E-03	1.07E-02	1.36E-04	0.00E+00	1.25E-04	0.00E+00	0.00E+00	0.00E+00
Los Angele	2022 Annual	T6 instate heavy		0	0	0	3.747231916	2.69E-03	4.77E-03	8.66E-03	1.05E-04	0.00E+00	9.64E-05	0.00E+00	0.00E+00	0.00E+00
Los Angele	2022 Annual	T6 instate heavy		0	0	0	5.353033044	2.60E-03	4.62E-03	8.25E-03	1.01E-04	0.00E+00	9.25E-05	0.00E+00	0.00E+00	0.00E+00
Los Angele	2022 Annual	T6 instate heavy		0	0	0	6.981553814	2.51E-03	4.46E-03	7.82E-03	9.61E-05	0.00E+00	8.84E-05	0.00E+00	0.00E+00	0.00E+00
Los Angele	2022 Annual	T6 instate heavy		0	0	0	6.107769325	2.42E-03	4.29E-03	7.36E-03	9.13E-05	0.00E+00	8.40E-05	0.00E+00	0.00E+00	0.00E+00
Los Angele	2022 Annual	T6 instate heavy		0	0	0	7.107028718	2.32E-03	4.11E-03	6.87E-03	8.63E-05	0.00E+00	7.94E-05	0.00E+00	0.00E+00	0.00E+00
Los Angele	2022 Annual	T6 instate heavy		0	0	0	5.12488229	2.21E-03	3.92E-03	6.35E-03	8.10E-05	0.00E+00	7.45E-05	0.00E+00	0.00E+00	0.00E+00
Los Angele	2022 Annual	T6 instate heavy		0	0	0	5.440644335	2.10E-03	3.72E-03	5.81E-03	7.54E-05	0.00E+00	6.94E-05	0.00E+00	0.00E+00	0.00E+00
Los Angele	2022 Annual	T6 instate heavy		0	0	0	5.785288415	1.98E-03	3.51E-03	5.25E-03	6.96E-05	0.00E+00	6.41E-05	0.00E+00	0.00E+00	0.00E+00
Los Angele	2022 Annual	T6 instate heavy		0	0	0	6.17891049	1.86E-03	3.30E-03	4.68E-03	6.37E-05	0.00E+00	5.86E-05	0.00E+00	0.00E+00	0.00E+00
Los Angele	2022 Annual	T6 instate heavy		0	0	0	5.448561556	1.74E-03	3.09E-03	4.11E-03	5.79E-05	0.00E+00	5.33E-05	0.00E+00	0.00E+00	0.00E+00
Los Angele	2022 Annual	T6 instate heavy		0	0	0	0.572919731	1.63E-03	2.88E-03	3.55E-03	5.20E-05	0.00E+00	4.79E-05	0.00E+00	0.00E+00	0.00E+00
Los Angele	2022 Annual	T6 instate heavy		0	0	0	41.76600486	2.09E-03	3.71E-03	5.79E-03	7.51E-05	0.00E+00	6.91E-05	0.00E+00	0.00E+00	0.00E+00

EMFAC 2011

2023 Estimated Annual Emissions

EMFAC 2011 Vehicle Categories

Los Angeles COUNTY

South Coast AIR BASIN

South Coast AQMD

Area	CalYr	Season	Veh	SOX_IDLEX (Tons/day)	SOX_STREX (Tons/day)	SOX_TOTEX (Tons/day)	FUEL_GAS (1000 Gallons)	FUEL_DSL (1000 Gallons)	exhaust ROG lb/mile	exhaust CO lb/mile	exhaust NOx lb/mile	exhaust PM10 lb/mile	tire wear a PM10 lb/mile	exhaust PM2.5 lb/mile	tire wear a PM2.5 lb/mile	SOx lb/mile
Los Angele	2023 Annual	T6 instate heavy		0	0	0	1.778819873	3.70E-03	6.56E-03	1.39E-02	1.52E-04	0.00E+00	1.40E-04	0.00E+00	0.00E+00	0.00E+00
Los Angele	2023 Annual	T6 instate heavy		0	0	0	1.841094883	3.60E-03	6.39E-03	1.27E-02	1.47E-04	0.00E+00	1.35E-04	0.00E+00	0.00E+00	0.00E+00
Los Angele	2023 Annual	T6 instate heavy		0	0	0	2.166367026	3.49E-03	6.19E-03	1.11E-02	1.42E-04	0.00E+00	1.30E-04	0.00E+00	0.00E+00	0.00E+00
Los Angele	2023 Annual	T6 instate heavy		0	0	0	3.356377391	2.77E-03	4.91E-03	9.04E-03	1.09E-04	0.00E+00	1.00E-04	0.00E+00	0.00E+00	0.00E+00
Los Angele	2023 Annual	T6 instate heavy		0	0	0	5.476278913	2.69E-03	4.77E-03	8.66E-03	1.05E-04	0.00E+00	9.64E-05	0.00E+00	0.00E+00	0.00E+00
Los Angele	2023 Annual	T6 instate heavy		0	0	0	9.463633165	2.60E-03	4.62E-03	8.25E-03	1.01E-04	0.00E+00	9.25E-05	0.00E+00	0.00E+00	0.00E+00
Los Angele	2023 Annual	T6 instate heavy		0	0	0	4.903430667	2.51E-03	4.46E-03	7.82E-03	9.61E-05	0.00E+00	8.84E-05	0.00E+00	0.00E+00	0.00E+00
Los Angele	2023 Annual	T6 instate heavy		0	0	0	8.761437818	2.42E-03	4.29E-03	7.36E-03	9.13E-05	0.00E+00	8.40E-05	0.00E+00	0.00E+00	0.00E+00
Los Angele	2023 Annual	T6 instate heavy		0	0	0	4.965969821	2.32E-03	4.11E-03	6.87E-03	8.63E-05	0.00E+00	7.94E-05	0.00E+00	0.00E+00	0.00E+00
Los Angele	2023 Annual	T6 instate heavy		0	0	0	5.202995024	2.21E-03	3.92E-03	6.35E-03	8.10E-05	0.00E+00	7.45E-05	0.00E+00	0.00E+00	0.00E+00
Los Angele	2023 Annual	T6 instate heavy		0	0	0	5.491595322	2.10E-03	3.72E-03	5.81E-03	7.54E-05	0.00E+00	6.94E-05	0.00E+00	0.00E+00	0.00E+00
Los Angele	2023 Annual	T6 instate heavy		0	0	0	5.784426477	1.98E-03	3.51E-03	5.25E-03	6.96E-05	0.00E+00	6.41E-05	0.00E+00	0.00E+00	0.00E+00



Los Angele	2023 Annual	T6 instate heavy	DSL	2022	5	0	106.4751516	0	9.91E-05	0	0	0
Los Angele	2023 Annual	T6 instate heavy	DSL	2023	5	0	94.84703719	0	8.27E-05	0	0	0
Los Angele	2023 Annual	T6 instate heavy	DSL	2024	5	0	9.978897188	0	8.11E-06	0	0	0
Los Angele	2023 Annual	T6 instate heavy	DSL	>2007	5	0	730.6039053	0	0.000767076	0	0	0

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Los Angeles COUNTY

South Coast AIR BASIN

South Coast AQMD

Area	CalYr	Season	Veh	Fuel	MdlYr	Speed (Miles/hr)	Pop (Vehicles)	VMT (Miles/day)	Trips (Trips/day)	ROG_RUNEX (Tons/day)	ROG_IDLEX (Tons/day)	ROG_STREX (Tons/day)	ROG_TOTEX (Tons/day)
Los Angele	2024 Annual	T6 instate heavy	DSL		2010		5	0	40.47513614	0	7.67E-05	0	0
Los Angele	2024 Annual	T6 instate heavy	DSL		2011		5	0	26.30239282	0	4.87E-05	0	0
Los Angele	2024 Annual	T6 instate heavy	DSL		2012		5	0	29.30831076	0	5.28E-05	0	0
Los Angele	2024 Annual	T6 instate heavy	DSL		2013		5	0	46.16185218	0	6.56E-05	0	0
Los Angele	2024 Annual	T6 instate heavy	DSL		2014		5	0	77.18638221	0	1.07E-04	0	0
Los Angele	2024 Annual	T6 instate heavy	DSL		2015		5	0	142.4222347	0	1.91E-04	0	0
Los Angele	2024 Annual	T6 instate heavy	DSL		2016		5	0	62.50524473	0	8.14E-05	0	0
Los Angele	2024 Annual	T6 instate heavy	DSL		2017		5	0	112.2650891	0	1.41E-04	0	0
Los Angele	2024 Annual	T6 instate heavy	DSL		2018		5	0	68.65701909	0	8.30E-05	0	0
Los Angele	2024 Annual	T6 instate heavy	DSL		2019		5	0	80.6614231	0	9.34E-05	0	0
Los Angele	2024 Annual	T6 instate heavy	DSL		2020		5	0	84.0595609	0	9.28E-05	0	0
Los Angele	2024 Annual	T6 instate heavy	DSL		2021		5	0	87.88509737	0	9.21E-05	0	0
Los Angele	2024 Annual	T6 instate heavy	DSL		2022		5	0	92.58634908	0	9.17E-05	0	0
Los Angele	2024 Annual	T6 instate heavy	DSL		2023		5	0	99.90145837	0	9.30E-05	0	0
Los Angele	2024 Annual	T6 instate heavy	DSL		2024		5	0	89.86374277	0	7.84E-05	0	0
Los Angele	2024 Annual	T6 instate heavy	DSL		2025		5	0	9.500393033	0	7.72E-06	0	0
Los Angele	2024 Annual	T6 instate heavy	DSL		>2007		5	0	613.1150437	0	0.000632192	0	0

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Area	CalYr	Season	Veh	Fuel	MdlYr	Speed (Miles/hr)	Pop (Vehicles)	VMT (Miles/day)	Trips (Trips/day)	ROG_RUNEX (Tons/day)	ROG_IDLEX (Tons/day)	ROG_STREX (Tons/day)	ROG_TOTEX (Tons/day)
Los Angele	2025 Annual	T6 instate heavy	DSL		2010		5	0	32.78998274	0	6.34E-05	0	0
Los Angele	2025 Annual	T6 instate heavy	DSL		2011		5	0	41.3896451	0	7.84E-05	0	0
Los Angele	2025 Annual	T6 instate heavy	DSL		2012		5	0	26.61974665	0	4.93E-05	0	0
Los Angele	2025 Annual	T6 instate heavy	DSL		2013		5	0	38.17608406	0	5.56E-05	0	0
Los Angele	2025 Annual	T6 instate heavy	DSL		2014		5	0	66.7586309	0	9.49E-05	0	0
Los Angele	2025 Annual	T6 instate heavy	DSL		2015		5	0	121.7350157	0	1.68E-04	0	0
Los Angele	2025 Annual	T6 instate heavy	DSL		2016		5	0	71.34756643	0	9.59E-05	0	0
Los Angele	2025 Annual	T6 instate heavy	DSL		2017		5	0	88.41560469	0	1.15E-04	0	0
Los Angele	2025 Annual	T6 instate heavy	DSL		2018		5	0	54.55796708	0	6.86E-05	0	0
Los Angele	2025 Annual	T6 instate heavy	DSL		2019		5	0	69.3973515	0	8.39E-05	0	0
Los Angele	2025 Annual	T6 instate heavy	DSL		2020		5	0	81.05837636	0	9.39E-05	0	0
Los Angele	2025 Annual	T6 instate heavy	DSL		2021		5	0	83.64540245	0	9.24E-05	0	0
Los Angele	2025 Annual	T6 instate heavy	DSL		2022		5	0	87.47446486	0	9.17E-05	0	0
Los Angele	2025 Annual	T6 instate heavy	DSL		2023		5	0	93.06385191	0	9.22E-05	0	0
Los Angele	2025 Annual	T6 instate heavy	DSL		2024		5	0	101.4057397	0	9.44E-05	0	0
Los Angele	2025 Annual	T6 instate heavy	DSL		2025		5	0	91.74252538	0	8.00E-05	0	0
Los Angele	2025 Annual	T6 instate heavy	DSL		2026		5	0	9.60674366	0	7.81E-06	0	0

Los Angele	2023	Annual	T6 instate heavy	0	0	0	0	0	1.13E-04	0	0	0
Los Angele	2023	Annual	T6 instate heavy	0	0	0	0	0	9.42E-05	0	0	0
Los Angele	2023	Annual	T6 instate heavy	0	0	0	0	0	9.24E-06	0	0	0
Los Angele	2023	Annual	T6 instate heavy	0	0	0	0	0	0.000873258	0	0	0

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Area	CalYr	Season	Veh	ROG_DIURN (Tons/day)	ROG_HTSK (Tons/day)	ROG_RUNLS (Tons/day)	ROG_RESTL (Tons/day)	ROG_TOTAL (Tons/day)	TOG_RUNEX (Tons/day)	TOG_IDLEX (Tons/day)	TOG_STREX (Tons/day)	TOG_TOTEX (Tons/day)
Los Angele	2024	Annual	T6 instate heavy	0	0	0	0	0	8.73E-05	0	0	0
Los Angele	2024	Annual	T6 instate heavy	0	0	0	0	0	5.54E-05	0	0	0
Los Angele	2024	Annual	T6 instate heavy	0	0	0	0	0	6.01E-05	0	0	0
Los Angele	2024	Annual	T6 instate heavy	0	0	0	0	0	7.47E-05	0	0	0
Los Angele	2024	Annual	T6 instate heavy	0	0	0	0	0	1.22E-04	0	0	0
Los Angele	2024	Annual	T6 instate heavy	0	0	0	0	0	2.18E-04	0	0	0
Los Angele	2024	Annual	T6 instate heavy	0	0	0	0	0	9.26E-05	0	0	0
Los Angele	2024	Annual	T6 instate heavy	0	0	0	0	0	1.61E-04	0	0	0
Los Angele	2024	Annual	T6 instate heavy	0	0	0	0	0	9.45E-05	0	0	0
Los Angele	2024	Annual	T6 instate heavy	0	0	0	0	0	1.06E-04	0	0	0
Los Angele	2024	Annual	T6 instate heavy	0	0	0	0	0	1.06E-04	0	0	0
Los Angele	2024	Annual	T6 instate heavy	0	0	0	0	0	1.05E-04	0	0	0
Los Angele	2024	Annual	T6 instate heavy	0	0	0	0	0	1.04E-04	0	0	0
Los Angele	2024	Annual	T6 instate heavy	0	0	0	0	0	1.06E-04	0	0	0
Los Angele	2024	Annual	T6 instate heavy	0	0	0	0	0	8.92E-05	0	0	0
Los Angele	2024	Annual	T6 instate heavy	0	0	0	0	0	8.79E-06	0	0	0
Los Angele	2024	Annual	T6 instate heavy	0	0	0	0	0	0.000719702	0	0	0

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South Coast AIR BASIN

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Area	CalYr	Season	Veh	ROG_DIURN (Tons/day)	ROG_HTSK (Tons/day)	ROG_RUNLS (Tons/day)	ROG_RESTL (Tons/day)	ROG_TOTAL (Tons/day)	TOG_RUNEX (Tons/day)	TOG_IDLEX (Tons/day)	TOG_STREX (Tons/day)	TOG_TOTEX (Tons/day)
Los Angele	2025	Annual	T6 instate heavy	0	0	0	0	0	7.22E-05	0	0	0
Los Angele	2025	Annual	T6 instate heavy	0	0	0	0	0	8.93E-05	0	0	0
Los Angele	2025	Annual	T6 instate heavy	0	0	0	0	0	5.61E-05	0	0	0
Los Angele	2025	Annual	T6 instate heavy	0	0	0	0	0	6.33E-05	0	0	0
Los Angele	2025	Annual	T6 instate heavy	0	0	0	0	0	1.08E-04	0	0	0
Los Angele	2025	Annual	T6 instate heavy	0	0	0	0	0	1.92E-04	0	0	0
Los Angele	2025	Annual	T6 instate heavy	0	0	0	0	0	1.09E-04	0	0	0
Los Angele	2025	Annual	T6 instate heavy	0	0	0	0	0	1.31E-04	0	0	0
Los Angele	2025	Annual	T6 instate heavy	0	0	0	0	0	7.80E-05	0	0	0
Los Angele	2025	Annual	T6 instate heavy	0	0	0	0	0	9.55E-05	0	0	0
Los Angele	2025	Annual	T6 instate heavy	0	0	0	0	0	1.07E-04	0	0	0
Los Angele	2025	Annual	T6 instate heavy	0	0	0	0	0	1.05E-04	0	0	0
Los Angele	2025	Annual	T6 instate heavy	0	0	0	0	0	1.04E-04	0	0	0
Los Angele	2025	Annual	T6 instate heavy	0	0	0	0	0	1.05E-04	0	0	0
Los Angele	2025	Annual	T6 instate heavy	0	0	0	0	0	1.07E-04	0	0	0
Los Angele	2025	Annual	T6 instate heavy	0	0	0	0	0	9.11E-05	0	0	0
Los Angele	2025	Annual	T6 instate heavy	0	0	0	0	0	8.89E-06	0	0	0

Los Angele	2023	Annual	T6 instate heavy	0	0	0	0	0	1.76E-04	0	0	0
Los Angele	2023	Annual	T6 instate heavy	0	0	0	0	0	1.47E-04	0	0	0
Los Angele	2023	Annual	T6 instate heavy	0	0	0	0	0	1.44E-05	0	0	0
Los Angele	2023	Annual	T6 instate heavy	0	0	0	0	0	0.001360243	0	0	0

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South Coast AIR BASIN

South Coast AQMD

Area	CalYr	Season	Veh	TOG_DIURN (Tons/day)	TOG_HTSK (Tons/day)	TOG_RUNLS (Tons/day)	TOG_RESTL (Tons/day)	TOG_TOTAL (Tons/day)	CO_RUNEX (Tons/day)	CO_IDLEX (Tons/day)	CO_STREX (Tons/day)	CO_TOTEX (Tons/day)
Los Angele	2024	Annual	T6 instate heavy	0	0	0	0	0	1.36E-04	0	0	0
Los Angele	2024	Annual	T6 instate heavy	0	0	0	0	0	8.63E-05	0	0	0
Los Angele	2024	Annual	T6 instate heavy	0	0	0	0	0	9.36E-05	0	0	0
Los Angele	2024	Annual	T6 instate heavy	0	0	0	0	0	1.16E-04	0	0	0
Los Angele	2024	Annual	T6 instate heavy	0	0	0	0	0	1.89E-04	0	0	0
Los Angele	2024	Annual	T6 instate heavy	0	0	0	0	0	3.39E-04	0	0	0
Los Angele	2024	Annual	T6 instate heavy	0	0	0	0	0	1.44E-04	0	0	0
Los Angele	2024	Annual	T6 instate heavy	0	0	0	0	0	2.50E-04	0	0	0
Los Angele	2024	Annual	T6 instate heavy	0	0	0	0	0	1.47E-04	0	0	0
Los Angele	2024	Annual	T6 instate heavy	0	0	0	0	0	1.66E-04	0	0	0
Los Angele	2024	Annual	T6 instate heavy	0	0	0	0	0	1.65E-04	0	0	0
Los Angele	2024	Annual	T6 instate heavy	0	0	0	0	0	1.63E-04	0	0	0
Los Angele	2024	Annual	T6 instate heavy	0	0	0	0	0	1.63E-04	0	0	0
Los Angele	2024	Annual	T6 instate heavy	0	0	0	0	0	1.65E-04	0	0	0
Los Angele	2024	Annual	T6 instate heavy	0	0	0	0	0	1.39E-04	0	0	0
Los Angele	2024	Annual	T6 instate heavy	0	0	0	0	0	1.37E-05	0	0	0
Los Angele	2024	Annual	T6 instate heavy	0	0	0	0	0	0.001121055	0	0	0

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South Coast AIR BASIN

South Coast AQMD

Area	CalYr	Season	Veh	TOG_DIURN (Tons/day)	TOG_HTSK (Tons/day)	TOG_RUNLS (Tons/day)	TOG_RESTL (Tons/day)	TOG_TOTAL (Tons/day)	CO_RUNEX (Tons/day)	CO_IDLEX (Tons/day)	CO_STREX (Tons/day)	CO_TOTEX (Tons/day)
Los Angele	2025	Annual	T6 instate heavy	0	0	0	0	0	1.12E-04	0	0	0
Los Angele	2025	Annual	T6 instate heavy	0	0	0	0	0	1.39E-04	0	0	0
Los Angele	2025	Annual	T6 instate heavy	0	0	0	0	0	8.73E-05	0	0	0
Los Angele	2025	Annual	T6 instate heavy	0	0	0	0	0	9.86E-05	0	0	0
Los Angele	2025	Annual	T6 instate heavy	0	0	0	0	0	1.68E-04	0	0	0
Los Angele	2025	Annual	T6 instate heavy	0	0	0	0	0	2.99E-04	0	0	0
Los Angele	2025	Annual	T6 instate heavy	0	0	0	0	0	1.70E-04	0	0	0
Los Angele	2025	Annual	T6 instate heavy	0	0	0	0	0	2.04E-04	0	0	0
Los Angele	2025	Annual	T6 instate heavy	0	0	0	0	0	1.22E-04	0	0	0
Los Angele	2025	Annual	T6 instate heavy	0	0	0	0	0	1.49E-04	0	0	0
Los Angele	2025	Annual	T6 instate heavy	0	0	0	0	0	1.66E-04	0	0	0
Los Angele	2025	Annual	T6 instate heavy	0	0	0	0	0	1.64E-04	0	0	0
Los Angele	2025	Annual	T6 instate heavy	0	0	0	0	0	1.63E-04	0	0	0
Los Angele	2025	Annual	T6 instate heavy	0	0	0	0	0	1.63E-04	0	0	0
Los Angele	2025	Annual	T6 instate heavy	0	0	0	0	0	1.67E-04	0	0	0
Los Angele	2025	Annual	T6 instate heavy	0	0	0	0	0	1.42E-04	0	0	0
Los Angele	2025	Annual	T6 instate heavy	0	0	0	0	0	1.39E-05	0	0	0

Los Angele	2023 Annual	T6 instate heavy	2.49E-04	0	0	0	0.300436769	0	0	0	0.270393092
Los Angele	2023 Annual	T6 instate heavy	1.95E-04	0	0	0	0.267626174	0	0	0	0.240863556
Los Angele	2023 Annual	T6 instate heavy	1.77E-05	0	0	0	0.028157064	0	0	0	0.025341357
Los Angele	2023 Annual	T6 instate heavy	0.002128581	0	0	0	2.061516452	0	0	0	1.855364807

EMFAC 2011

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EMFAC 2011 Vehicle Categories

Los Angeles COUNTY

South Coast AIR BASIN

South Coast AQMD

Area	CalYr	Season	Veh	NOX_RUNEX (Tons/day)	NOX_IDLEX (Tons/day)	NOX_STREX (Tons/day)	NOX_TOTEX (Tons/day)	CO2_RUNEX (Tons/day)	CO2_IDLEX (Tons/day)	CO2_STREX (Tons/day)	CO2_TOTEX (Tons/day)	CO2_RUNEX(Pavh) (Tons/day)
Los Angele	2024 Annual	T6 instate heavy		2.89E-04	0	0	0	0.114470561	0	0	0	0.103023505
Los Angele	2024 Annual	T6 instate heavy		1.73E-04	0	0	0	0.074387636	0	0	0	0.066948872
Los Angele	2024 Annual	T6 instate heavy		1.69E-04	0	0	0	0.082888882	0	0	0	0.074599994
Los Angele	2024 Annual	T6 instate heavy		2.17E-04	0	0	0	0.130253092	0	0	0	0.117227783
Los Angele	2024 Annual	T6 instate heavy		3.49E-04	0	0	0	0.217793795	0	0	0	0.196014415
Los Angele	2024 Annual	T6 instate heavy		6.17E-04	0	0	0	0.401867247	0	0	0	0.361680522
Los Angele	2024 Annual	T6 instate heavy		2.58E-04	0	0	0	0.176368603	0	0	0	0.158731743
Los Angele	2024 Annual	T6 instate heavy		4.39E-04	0	0	0	0.316774009	0	0	0	0.285096608
Los Angele	2024 Annual	T6 instate heavy		2.53E-04	0	0	0	0.193726824	0	0	0	0.174354142
Los Angele	2024 Annual	T6 instate heavy		2.77E-04	0	0	0	0.227599181	0	0	0	0.204839263
Los Angele	2024 Annual	T6 instate heavy		2.67E-04	0	0	0	0.237187574	0	0	0	0.213468817
Los Angele	2024 Annual	T6 instate heavy		2.55E-04	0	0	0	0.24798194	0	0	0	0.223183746
Los Angele	2024 Annual	T6 instate heavy		2.43E-04	0	0	0	0.261247278	0	0	0	0.235122551
Los Angele	2024 Annual	T6 instate heavy		2.34E-04	0	0	0	0.281888036	0	0	0	0.253699233
Los Angele	2024 Annual	T6 instate heavy		1.85E-04	0	0	0	0.253565007	0	0	0	0.228208506
Los Angele	2024 Annual	T6 instate heavy		1.68E-05	0	0	0	0.026806887	0	0	0	0.024126199
Los Angele	2024 Annual	T6 instate heavy		0.001730747	0	0	0	1.730002729	0	0	0	1.557002456

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Los Angeles COUNTY

South Coast AIR BASIN

South Coast AQMD

Area	CalYr	Season	Veh	NOX_RUNEX (Tons/day)	NOX_IDLEX (Tons/day)	NOX_STREX (Tons/day)	NOX_TOTEX (Tons/day)	CO2_RUNEX (Tons/day)	CO2_IDLEX (Tons/day)	CO2_STREX (Tons/day)	CO2_TOTEX (Tons/day)	CO2_RUNEX(Pavh) (Tons/day)
Los Angele	2025 Annual	T6 instate heavy		2.40E-04	0	0	0	0.092735642	0	0	0	0.083462078
Los Angele	2025 Annual	T6 instate heavy		2.79E-04	0	0	0	0.117056948	0	0	0	0.105351253
Los Angele	2025 Annual	T6 instate heavy		1.59E-04	0	0	0	0.075285166	0	0	0	0.067756649
Los Angele	2025 Annual	T6 instate heavy		1.86E-04	0	0	0	0.107719963	0	0	0	0.096947966
Los Angele	2025 Annual	T6 instate heavy		3.14E-04	0	0	0	0.188370217	0	0	0	0.169533195
Los Angele	2025 Annual	T6 instate heavy		5.50E-04	0	0	0	0.343494931	0	0	0	0.309145438
Los Angele	2025 Annual	T6 instate heavy		3.09E-04	0	0	0	0.201318637	0	0	0	0.181186773
Los Angele	2025 Annual	T6 instate heavy		3.65E-04	0	0	0	0.249478852	0	0	0	0.224530967
Los Angele	2025 Annual	T6 instate heavy		2.13E-04	0	0	0	0.153944081	0	0	0	0.138549673
Los Angele	2025 Annual	T6 instate heavy		2.55E-04	0	0	0	0.195815791	0	0	0	0.176234212
Los Angele	2025 Annual	T6 instate heavy		2.78E-04	0	0	0	0.228719249	0	0	0	0.205847324
Los Angele	2025 Annual	T6 instate heavy		2.66E-04	0	0	0	0.236018959	0	0	0	0.212417063
Los Angele	2025 Annual	T6 instate heavy		2.54E-04	0	0	0	0.246823275	0	0	0	0.222140947
Los Angele	2025 Annual	T6 instate heavy		2.44E-04	0	0	0	0.26259463	0	0	0	0.236335167
Los Angele	2025 Annual	T6 instate heavy		2.37E-04	0	0	0	0.286132608	0	0	0	0.257519347
Los Angele	2025 Annual	T6 instate heavy		1.89E-04	0	0	0	0.258866294	0	0	0	0.232979665
Los Angele	2025 Annual	T6 instate heavy		1.70E-05	0	0	0	0.027106973	0	0	0	0.024396275

Los Angele	2023	Annual	T6 instate heavy	0	0	0	3.39E-06	0	0	0	0	0
Los Angele	2023	Annual	T6 instate heavy	0	0	0	2.75E-06	0	0	0	0	0
Los Angele	2023	Annual	T6 instate heavy	0	0	0	2.60E-07	0	0	0	0	0
Los Angele	2023	Annual	T6 instate heavy	0	0	0	2.75978E-05	0	0	0	0	0

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Area	CalYr	Season	Veh	CO2_IDLEX(Pavle (Tons/day)	CO2_STREX(Pavk (Tons/day)	CO2_TOTEX(Pavj (Tons/day)	PM10_RUNEX (Tons/day)	PM10_IDLEX (Tons/day)	PM10_STREX (Tons/day)	PM10_TOTEX (Tons/day)	PM10_PMTW (Tons/day)	PM10_PMBW (Tons/day)
Los Angele	2024	Annual	T6 instate heavy	0	0	0	3.16E-06	0	0	0	0	0
Los Angele	2024	Annual	T6 instate heavy	0	0	0	2.00E-06	0	0	0	0	0
Los Angele	2024	Annual	T6 instate heavy	0	0	0	2.15E-06	0	0	0	0	0
Los Angele	2024	Annual	T6 instate heavy	0	0	0	2.59E-06	0	0	0	0	0
Los Angele	2024	Annual	T6 instate heavy	0	0	0	4.19E-06	0	0	0	0	0
Los Angele	2024	Annual	T6 instate heavy	0	0	0	7.46E-06	0	0	0	0	0
Los Angele	2024	Annual	T6 instate heavy	0	0	0	3.14E-06	0	0	0	0	0
Los Angele	2024	Annual	T6 instate heavy	0	0	0	5.39E-06	0	0	0	0	0
Los Angele	2024	Annual	T6 instate heavy	0	0	0	3.14E-06	0	0	0	0	0
Los Angele	2024	Annual	T6 instate heavy	0	0	0	3.48E-06	0	0	0	0	0
Los Angele	2024	Annual	T6 instate heavy	0	0	0	3.40E-06	0	0	0	0	0
Los Angele	2024	Annual	T6 instate heavy	0	0	0	3.31E-06	0	0	0	0	0
Los Angele	2024	Annual	T6 instate heavy	0	0	0	3.22E-06	0	0	0	0	0
Los Angele	2024	Annual	T6 instate heavy	0	0	0	3.18E-06	0	0	0	0	0
Los Angele	2024	Annual	T6 instate heavy	0	0	0	2.60E-06	0	0	0	0	0
Los Angele	2024	Annual	T6 instate heavy	0	0	0	2.47E-07	0	0	0	0	0
Los Angele	2024	Annual	T6 instate heavy	0	0	0	2.25872E-05	0	0	0	0	0

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Area	CalYr	Season	Veh	CO2_IDLEX(Pavle (Tons/day)	CO2_STREX(Pavk (Tons/day)	CO2_TOTEX(Pavj (Tons/day)	PM10_RUNEX (Tons/day)	PM10_IDLEX (Tons/day)	PM10_STREX (Tons/day)	PM10_TOTEX (Tons/day)	PM10_PMTW (Tons/day)	PM10_PMBW (Tons/day)
Los Angele	2025	Annual	T6 instate heavy	0	0	0	2.62E-06	0	0	0	0	0
Los Angele	2025	Annual	T6 instate heavy	0	0	0	3.23E-06	0	0	0	0	0
Los Angele	2025	Annual	T6 instate heavy	0	0	0	2.02E-06	0	0	0	0	0
Los Angele	2025	Annual	T6 instate heavy	0	0	0	2.21E-06	0	0	0	0	0
Los Angele	2025	Annual	T6 instate heavy	0	0	0	3.75E-06	0	0	0	0	0
Los Angele	2025	Annual	T6 instate heavy	0	0	0	6.62E-06	0	0	0	0	0
Los Angele	2025	Annual	T6 instate heavy	0	0	0	3.74E-06	0	0	0	0	0
Los Angele	2025	Annual	T6 instate heavy	0	0	0	4.44E-06	0	0	0	0	0
Los Angele	2025	Annual	T6 instate heavy	0	0	0	2.62E-06	0	0	0	0	0
Los Angele	2025	Annual	T6 instate heavy	0	0	0	3.17E-06	0	0	0	0	0
Los Angele	2025	Annual	T6 instate heavy	0	0	0	3.50E-06	0	0	0	0	0
Los Angele	2025	Annual	T6 instate heavy	0	0	0	3.39E-06	0	0	0	0	0
Los Angele	2025	Annual	T6 instate heavy	0	0	0	3.30E-06	0	0	0	0	0
Los Angele	2025	Annual	T6 instate heavy	0	0	0	3.24E-06	0	0	0	0	0
Los Angele	2025	Annual	T6 instate heavy	0	0	0	3.23E-06	0	0	0	0	0
Los Angele	2025	Annual	T6 instate heavy	0	0	0	2.66E-06	0	0	0	0	0
Los Angele	2025	Annual	T6 instate heavy	0	0	0	2.50E-07	0	0	0	0	0



Los Angele	2023 Annual	T6 instate heavy	0	3.12E-06	0	0	0	0	0	0	0	0
Los Angele	2023 Annual	T6 instate heavy	0	2.53E-06	0	0	0	0	0	0	0	0
Los Angele	2023 Annual	T6 instate heavy	0	2.39E-07	0	0	0	0	0	0	0	0
Los Angele	2023 Annual	T6 instate heavy	0	2.539E-05	0	0	0	0	0	0	0	0

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Los Angeles COUNTY

South Coast AIR BASIN

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Area	CalYr	Season	Veh	PM10_TOTAL (Tons/day)	PM2_5_RUNEX (Tons/day)	PM2_5_IDLEX (Tons/day)	PM2_5_STREX (Tons/day)	PM2_5_TOTEX (Tons/day)	PM2_5_PMTW (Tons/day)	PM2_5_PMBW (Tons/day)	PM2_5_TOTAL (Tons/day)	SOX_RUNEX (Tons/day)
Los Angele	2024 Annual	T6 instate heavy		0	2.91E-06	0	0	0	0	0	0	0
Los Angele	2024 Annual	T6 instate heavy		0	1.84E-06	0	0	0	0	0	0	0
Los Angele	2024 Annual	T6 instate heavy		0	1.98E-06	0	0	0	0	0	0	0
Los Angele	2024 Annual	T6 instate heavy		0	2.39E-06	0	0	0	0	0	0	0
Los Angele	2024 Annual	T6 instate heavy		0	3.86E-06	0	0	0	0	0	0	0
Los Angele	2024 Annual	T6 instate heavy		0	6.86E-06	0	0	0	0	0	0	0
Los Angele	2024 Annual	T6 instate heavy		0	2.89E-06	0	0	0	0	0	0	0
Los Angele	2024 Annual	T6 instate heavy		0	4.96E-06	0	0	0	0	0	0	0
Los Angele	2024 Annual	T6 instate heavy		0	2.88E-06	0	0	0	0	0	0	0
Los Angele	2024 Annual	T6 instate heavy		0	3.20E-06	0	0	0	0	0	0	0
Los Angele	2024 Annual	T6 instate heavy		0	3.13E-06	0	0	0	0	0	0	0
Los Angele	2024 Annual	T6 instate heavy		0	3.05E-06	0	0	0	0	0	0	0
Los Angele	2024 Annual	T6 instate heavy		0	2.97E-06	0	0	0	0	0	0	0
Los Angele	2024 Annual	T6 instate heavy		0	2.93E-06	0	0	0	0	0	0	0
Los Angele	2024 Annual	T6 instate heavy		0	2.39E-06	0	0	0	0	0	0	0
Los Angele	2024 Annual	T6 instate heavy		0	2.27E-07	0	0	0	0	0	0	0
Los Angele	2024 Annual	T6 instate heavy		0	2.07803E-05	0	0	0	0	0	0	0

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Area	CalYr	Season	Veh	PM10_TOTAL (Tons/day)	PM2_5_RUNEX (Tons/day)	PM2_5_IDLEX (Tons/day)	PM2_5_STREX (Tons/day)	PM2_5_TOTEX (Tons/day)	PM2_5_PMTW (Tons/day)	PM2_5_PMBW (Tons/day)	PM2_5_TOTAL (Tons/day)	SOX_RUNEX (Tons/day)
Los Angele	2025 Annual	T6 instate heavy		0	2.41E-06	0	0	0	0	0	0	0
Los Angele	2025 Annual	T6 instate heavy		0	2.97E-06	0	0	0	0	0	0	0
Los Angele	2025 Annual	T6 instate heavy		0	1.86E-06	0	0	0	0	0	0	0
Los Angele	2025 Annual	T6 instate heavy		0	2.03E-06	0	0	0	0	0	0	0
Los Angele	2025 Annual	T6 instate heavy		0	3.45E-06	0	0	0	0	0	0	0
Los Angele	2025 Annual	T6 instate heavy		0	6.09E-06	0	0	0	0	0	0	0
Los Angele	2025 Annual	T6 instate heavy		0	3.44E-06	0	0	0	0	0	0	0
Los Angele	2025 Annual	T6 instate heavy		0	4.09E-06	0	0	0	0	0	0	0
Los Angele	2025 Annual	T6 instate heavy		0	2.41E-06	0	0	0	0	0	0	0
Los Angele	2025 Annual	T6 instate heavy		0	2.92E-06	0	0	0	0	0	0	0
Los Angele	2025 Annual	T6 instate heavy		0	3.22E-06	0	0	0	0	0	0	0
Los Angele	2025 Annual	T6 instate heavy		0	3.12E-06	0	0	0	0	0	0	0
Los Angele	2025 Annual	T6 instate heavy		0	3.03E-06	0	0	0	0	0	0	0
Los Angele	2025 Annual	T6 instate heavy		0	2.98E-06	0	0	0	0	0	0	0
Los Angele	2025 Annual	T6 instate heavy		0	2.97E-06	0	0	0	0	0	0	0
Los Angele	2025 Annual	T6 instate heavy		0	2.44E-06	0	0	0	0	0	0	0
Los Angele	2025 Annual	T6 instate heavy		0	2.30E-07	0	0	0	0	0	0	0

Los Angele	2023 Annual	T6 instate heavy	0	0	0	0	6.180501036	1.86E-03	3.30E-03	4.68E-03	6.37E-05	0.00E+00	5.86E-05	0.00E+00	0.00E+00
Los Angele	2023 Annual	T6 instate heavy	0	0	0	0	5.505513885	1.74E-03	3.09E-03	4.11E-03	5.79E-05	0.00E+00	5.33E-05	0.00E+00	0.00E+00
Los Angele	2023 Annual	T6 instate heavy	0	0	0	0	0.585561516	1.63E-03	2.88E-03	3.55E-03	5.20E-05	0.00E+00	4.79E-05	0.00E+00	0.00E+00
Los Angele	2023 Annual	T6 instate heavy	0	0	0	0	42.4780009	2.10E-03	3.72E-03	5.83E-03	7.55E-05	0.00E+00	6.95E-05	0.00E+00	0.00E+00

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Area	CalYr	Season	Veh	SOX_IDLEX (Tons/day)	SOX_STREX (Tons/day)	SOX_TOTEX (Tons/day)	FUEL_GAS (1000 Gallons)	FUEL_DSL (1000 Gallons)	exhaust ROG lb/mile	exhaust CO lb/mile	exhaust NOx lb/mile	exhaust PM10 lb/mile	tire wear a PM10 lb/mile	exhaust PM2.5 lb/mile	tire wear a PM2.5 lb/mile	exhaust SOx lb/mile
Los Angele	2024 Annual	T6 instate heavy		0	0	0	0	2.55383245	3.79E-03	6.72E-03	1.43E-02	1.56E-04	0.00E+00	1.44E-04	0.00E+00	0.00E+00
Los Angele	2024 Annual	T6 instate heavy		0	0	0	0	1.655582941	3.70E-03	6.56E-03	1.31E-02	1.52E-04	0.00E+00	1.40E-04	0.00E+00	0.00E+00
Los Angele	2024 Annual	T6 instate heavy		0	0	0	0	1.841956921	3.60E-03	6.39E-03	1.16E-02	1.47E-04	0.00E+00	1.35E-04	0.00E+00	0.00E+00
Los Angele	2024 Annual	T6 instate heavy		0	0	0	0	2.897156095	2.84E-03	5.04E-03	9.40E-03	1.12E-04	0.00E+00	1.03E-04	0.00E+00	0.00E+00
Los Angele	2024 Annual	T6 instate heavy		0	0	0	0	4.847218206	2.77E-03	4.91E-03	9.04E-03	1.09E-04	0.00E+00	1.00E-04	0.00E+00	0.00E+00
Los Angele	2024 Annual	T6 instate heavy		0	0	0	0	8.953420727	2.69E-03	4.77E-03	8.66E-03	1.05E-04	0.00E+00	9.64E-05	0.00E+00	0.00E+00
Los Angele	2024 Annual	T6 instate heavy		0	0	0	0	3.920588625	2.60E-03	4.62E-03	8.25E-03	1.01E-04	0.00E+00	9.25E-05	0.00E+00	0.00E+00
Los Angele	2024 Annual	T6 instate heavy		0	0	0	0	7.050220667	2.51E-03	4.46E-03	7.82E-03	9.61E-05	0.00E+00	8.84E-05	0.00E+00	0.00E+00
Los Angele	2024 Annual	T6 instate heavy		0	0	0	0	4.287473216	2.42E-03	4.29E-03	7.36E-03	9.13E-05	0.00E+00	8.40E-05	0.00E+00	0.00E+00
Los Angele	2024 Annual	T6 instate heavy		0	0	0	0	5.034650131	2.32E-03	4.11E-03	6.87E-03	8.63E-05	0.00E+00	7.94E-05	0.00E+00	0.00E+00
Los Angele	2024 Annual	T6 instate heavy		0	0	0	0	5.244666344	2.21E-03	3.92E-03	6.35E-03	8.10E-05	0.00E+00	7.45E-05	0.00E+00	0.00E+00
Los Angele	2024 Annual	T6 instate heavy		0	0	0	0	5.481793056	2.10E-03	3.72E-03	5.81E-03	7.54E-05	0.00E+00	6.94E-05	0.00E+00	0.00E+00
Los Angele	2024 Annual	T6 instate heavy		0	0	0	0	5.774162132	1.98E-03	3.51E-03	5.25E-03	6.96E-05	0.00E+00	6.41E-05	0.00E+00	0.00E+00
Los Angele	2024 Annual	T6 instate heavy		0	0	0	0	6.230566946	1.86E-03	3.30E-03	4.68E-03	6.37E-05	0.00E+00	5.86E-05	0.00E+00	0.00E+00
Los Angele	2024 Annual	T6 instate heavy		0	0	0	0	5.604531347	1.74E-03	3.09E-03	4.11E-03	5.79E-05	0.00E+00	5.33E-05	0.00E+00	0.00E+00
Los Angele	2024 Annual	T6 instate heavy		0	0	0	0	0.5989897	1.63E-03	2.88E-03	3.55E-03	5.20E-05	0.00E+00	4.79E-05	0.00E+00	0.00E+00
Los Angele	2024 Annual	T6 instate heavy		0	0	0	0	38.25683287	2.06E-03	3.66E-03	5.65E-03	7.37E-05	0.00E+00	6.78E-05	0.00E+00	0.00E+00

EMFAC 2011  
2025 Estimated Annual Emissions  
EMFAC 2011 Vehicle Categories  
Los Angeles COUNTY  
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South Coast AQMD

Area	CalYr	Season	Veh	SOX_IDLEX (Tons/day)	SOX_STREX (Tons/day)	SOX_TOTEX (Tons/day)	FUEL_GAS (1000 Gallons)	FUEL_DSL (1000 Gallons)	exhaust ROG lb/mile	exhaust CO lb/mile	exhaust NOx lb/mile	exhaust PM10 lb/mile	tire wear a PM10 lb/mile	exhaust PM2.5 lb/mile	tire wear a PM2.5 lb/mile	exhaust SOx lb/mile
Los Angele	2025 Annual	T6 instate heavy		0	0	0	0	2.073514975	3.87E-03	6.86E-03	1.46E-02	1.60E-04	0.00E+00	1.47E-04	0.00E+00	0.00E+00
Los Angele	2025 Annual	T6 instate heavy		0	0	0	0	2.608421908	3.79E-03	6.72E-03	1.35E-02	1.56E-04	0.00E+00	1.44E-04	0.00E+00	0.00E+00
Los Angele	2025 Annual	T6 instate heavy		0	0	0	0	1.674776018	3.70E-03	6.56E-03	1.20E-02	1.52E-04	0.00E+00	1.40E-04	0.00E+00	0.00E+00
Los Angele	2025 Annual	T6 instate heavy		0	0	0	0	2.397556121	2.91E-03	5.16E-03	9.74E-03	1.16E-04	0.00E+00	1.07E-04	0.00E+00	0.00E+00
Los Angele	2025 Annual	T6 instate heavy		0	0	0	0	4.194175336	2.84E-03	5.04E-03	9.40E-03	1.12E-04	0.00E+00	1.03E-04	0.00E+00	0.00E+00
Los Angele	2025 Annual	T6 instate heavy		0	0	0	0	7.65376157	2.77E-03	4.91E-03	9.04E-03	1.09E-04	0.00E+00	1.00E-04	0.00E+00	0.00E+00
Los Angele	2025 Annual	T6 instate heavy		0	0	0	0	4.473493251	2.69E-03	4.77E-03	8.66E-03	1.05E-04	0.00E+00	9.64E-05	0.00E+00	0.00E+00
Los Angele	2025 Annual	T6 instate heavy		0	0	0	0	5.55397582	2.60E-03	4.62E-03	8.25E-03	1.01E-04	0.00E+00	9.25E-05	0.00E+00	0.00E+00
Los Angele	2025 Annual	T6 instate heavy		0	0	0	0	3.408963133	2.51E-03	4.46E-03	7.82E-03	9.61E-05	0.00E+00	8.84E-05	0.00E+00	0.00E+00
Los Angele	2025 Annual	T6 instate heavy		0	0	0	0	4.333745824	2.42E-03	4.29E-03	7.36E-03	9.13E-05	0.00E+00	8.40E-05	0.00E+00	0.00E+00
Los Angele	2025 Annual	T6 instate heavy		0	0	0	0	5.059476136	2.32E-03	4.11E-03	6.87E-03	8.63E-05	0.00E+00	7.94E-05	0.00E+00	0.00E+00
Los Angele	2025 Annual	T6 instate heavy		0	0	0	0	5.218875835	2.21E-03	3.92E-03	6.35E-03	8.10E-05	0.00E+00	7.45E-05	0.00E+00	0.00E+00
Los Angele	2025 Annual	T6 instate heavy		0	0	0	0	5.456228803	2.10E-03	3.72E-03	5.81E-03	7.54E-05	0.00E+00	6.94E-05	0.00E+00	0.00E+00
Los Angele	2025 Annual	T6 instate heavy		0	0	0	0	5.803998393	1.98E-03	3.51E-03	5.25E-03	6.96E-05	0.00E+00	6.41E-05	0.00E+00	0.00E+00
Los Angele	2025 Annual	T6 instate heavy		0	0	0	0	6.324450079	1.86E-03	3.30E-03	4.68E-03	6.37E-05	0.00E+00	5.86E-05	0.00E+00	0.00E+00
Los Angele	2025 Annual	T6 instate heavy		0	0	0	0	5.721767601	1.74E-03	3.09E-03	4.11E-03	5.79E-05	0.00E+00	5.33E-05	0.00E+00	0.00E+00
Los Angele	2025 Annual	T6 instate heavy		0	0	0	0	0.605717283	1.63E-03	2.88E-03	3.55E-03	5.20E-05	0.00E+00	4.79E-05	0.00E+00	0.00E+00



Los Angele	2025 Annual	T6 instate heavy	DSL	>2007	5	0	617.3944558	0	0.000636257	0	0	0
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EMFAC 2011  
 2026 Estimated Annual Emissions  
 EMFAC 2011 Vehicle Categories  
 Los Angeles COUNTY  
 South Coast AIR BASIN  
 South Coast AQMD

Area	CalYr	Season	Veh	Fuel	MdIYr	Speed (Miles/hr)	Pop (Vehicles)	VMT (Miles/day)	Trips (Trips/day)	ROG_RUNEX (Tons/day)	ROG_IDLEX (Tons/day)	ROG_STREX (Tons/day)	ROG_TOTEX (Tons/day)
Los Angele	2026 Annual	T6 instate heavy	DSL	2010	5	0	28.53997508	0	5.63E-05	0	0	0	
Los Angele	2026 Annual	T6 instate heavy	DSL	2011	5	0	33.86702371	0	6.55E-05	0	0	0	
Los Angele	2026 Annual	T6 instate heavy	DSL	2012	5	0	43.50240134	0	8.24E-05	0	0	0	
Los Angele	2026 Annual	T6 instate heavy	DSL	2013	5	0	33.33349492	0	4.96E-05	0	0	0	
Los Angele	2026 Annual	T6 instate heavy	DSL	2014	5	0	55.08378969	0	8.02E-05	0	0	0	
Los Angele	2026 Annual	T6 instate heavy	DSL	2015	5	0	102.0408611	0	1.45E-04	0	0	0	
Los Angele	2026 Annual	T6 instate heavy	DSL	2016	5	0	63.49404216	0	8.78E-05	0	0	0	
Los Angele	2026 Annual	T6 instate heavy	DSL	2017	5	0	92.48753163	0	1.24E-04	0	0	0	
Los Angele	2026 Annual	T6 instate heavy	DSL	2018	5	0	43.95492091	0	5.72E-05	0	0	0	
Los Angele	2026 Annual	T6 instate heavy	DSL	2019	5	0	55.14624546	0	6.93E-05	0	0	0	
Los Angele	2026 Annual	T6 instate heavy	DSL	2020	5	0	69.74065062	0	8.43E-05	0	0	0	
Los Angele	2026 Annual	T6 instate heavy	DSL	2021	5	0	80.65590115	0	9.34E-05	0	0	0	
Los Angele	2026 Annual	T6 instate heavy	DSL	2022	5	0	83.24645838	0	9.20E-05	0	0	0	
Los Angele	2026 Annual	T6 instate heavy	DSL	2023	5	0	87.93098715	0	9.22E-05	0	0	0	
Los Angele	2026 Annual	T6 instate heavy	DSL	2024	5	0	94.46661827	0	9.35E-05	0	0	0	
Los Angele	2026 Annual	T6 instate heavy	DSL	2025	5	0	103.5282148	0	9.64E-05	0	0	0	
Los Angele	2026 Annual	T6 instate heavy	DSL	2026	5	0	92.82111384	0	8.09E-05	0	0	0	
Los Angele	2026 Annual	T6 instate heavy	DSL	2027	5	0	9.530197598	0	7.75E-06	0	0	0	
Los Angele	2025 Annual	T6 instate heavy	DSL	>2007	5	0	621.9201418	0	0.000640487	0	0	0	

**Onsite Idling**

EMFAC2 007 Vehicle													
CY	Category	Fuel_Type	air_basin	season	HC (g/hr-	CO (g/hr-veh)	NOX (g/hr-veh)	PM10 (g/hr-veh)	PM2.5 (g/hr-veh)	CO2 (g/hr-veh)	CO2 (with Pavley	TOG (g/hr-veh)	ROG (g/hr-veh)
2011	HHDT	DSL	SC	a	6.800976	43.55988298	89.56178051	0.908308154	0.835643502	6963.297868	6945.889624	9.804966898	8.61275583
2014	HHDT	DSL	SC	a	4.948574	33.36070239	69.56009316	0.333140401	0.306489169	7025.820713	6920.433403	7.134358523	6.266873575
2015	HHDT	DSL	SC	a	5.003949	34.45930061	64.04939667	0.268041304	0.246598	7031.68361	6855.89152	7.214193078	6.337000842
2016	HHDT	DSL	SC	a	4.755796	33.68569766	58.40385488	0.147376333	0.135586227	7045.920402	6799.313188	6.856431597	6.022740497
2017	HHDT	DSL	SC	a	4.864191	34.55956513	54.80816944	0.125406403	0.115373891	7045.639672	6693.357688	7.012704834	6.16001207
2018	HHDT	DSL	SC	a	5.031719	35.78542496	52.00089698	0.122676517	0.112862396	7043.595692	6585.761972	7.254229844	6.372169435
2019	HHDT	DSL	SC	a	5.152159	36.67252902	49.98445378	0.120390429	0.110759195	7042.622306	6479.212521	7.427868118	6.524694586
2020	HHDT	DSL	SC	a	5.318626	37.90816039	47.21982867	0.116801038	0.107456955	7042.896253	6338.606628	7.667863645	6.735508442
2021	HHDT	DSL	SC	a	5.542788	39.53636585	43.45252148	0.113728567	0.104630282	7039.319954	6335.387958	7.991037685	7.019386922
2022	HHDT	DSL	SC	a	5.752878	41.04677717	39.90223013	0.111612805	0.102683781	7033.906281	6330.515653	8.293924058	7.285444563
2023	HHDT	DSL	SC	a	5.759777	41.11434876	39.71802211	0.110180944	0.101366468	7034.243665	6330.819299	8.303871031	7.294182058
2024	HHDT	DSL	SC	a	5.767434	41.17452468	39.59488769	0.109848495	0.101060616	7034.431284	6330.988155	8.314910031	7.303878798

Los Angele	2025 Annual	T6 instate heavy	0	0	0	0	0	0.00072433	0	0	0
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EMFAC 2011  
 2026 Estimated Annual Emissions  
 EMFAC 2011 Vehicle Categories  
 Los Angeles COUNTY  
 South Coast AIR BASIN  
 South Coast AQMD

Area	CalYr	Season	Veh	ROG_DIURN (Tons/day)	ROG_HTSK (Tons/day)	ROG_RUNLS (Tons/day)	ROG_RESTL (Tons/day)	ROG_TOTAL (Tons/day)	TOG_RUNEX (Tons/day)	TOG_IDLEX (Tons/day)	TOG_STREX (Tons/day)	TOG_TOTEX (Tons/day)
Los Angele	2026 Annual		T6 instate heavy	0	0	0	0	0	6.41E-05	0	0	0
Los Angele	2026 Annual		T6 instate heavy	0	0	0	0	0	7.46E-05	0	0	0
Los Angele	2026 Annual		T6 instate heavy	0	0	0	0	0	9.39E-05	0	0	0
Los Angele	2026 Annual		T6 instate heavy	0	0	0	0	0	5.65E-05	0	0	0
Los Angele	2026 Annual		T6 instate heavy	0	0	0	0	0	9.13E-05	0	0	0
Los Angele	2026 Annual		T6 instate heavy	0	0	0	0	0	1.65E-04	0	0	0
Los Angele	2026 Annual		T6 instate heavy	0	0	0	0	0	1.00E-04	0	0	0
Los Angele	2026 Annual		T6 instate heavy	0	0	0	0	0	1.41E-04	0	0	0
Los Angele	2026 Annual		T6 instate heavy	0	0	0	0	0	6.51E-05	0	0	0
Los Angele	2026 Annual		T6 instate heavy	0	0	0	0	0	7.89E-05	0	0	0
Los Angele	2026 Annual		T6 instate heavy	0	0	0	0	0	9.60E-05	0	0	0
Los Angele	2026 Annual		T6 instate heavy	0	0	0	0	0	1.06E-04	0	0	0
Los Angele	2026 Annual		T6 instate heavy	0	0	0	0	0	1.05E-04	0	0	0
Los Angele	2026 Annual		T6 instate heavy	0	0	0	0	0	1.05E-04	0	0	0
Los Angele	2026 Annual		T6 instate heavy	0	0	0	0	0	1.06E-04	0	0	0
Los Angele	2026 Annual		T6 instate heavy	0	0	0	0	0	1.10E-04	0	0	0
Los Angele	2026 Annual		T6 instate heavy	0	0	0	0	0	9.22E-05	0	0	0
Los Angele	2026 Annual		T6 instate heavy	0	0	0	0	0	8.82E-06	0	0	0
Los Angele	2025 Annual		T6 instate heavy	0	0	0	0	0	0.000729146	0	0	0

**Onsite Idling**

**EMFAC2  
007**

CY	Vehicle Category	Fuel_Type	air_basin	Sox (g/hr-veh)
2011	HHDT	DSL	SC	0.066433117
2014	HHDT	DSL	SC	0.067029614
2015	HHDT	DSL	SC	0.067085549
2016	HHDT	DSL	SC	0.067221374
2017	HHDT	DSL	SC	0.067218696
2018	HHDT	DSL	SC	0.067199196
2019	HHDT	DSL	SC	0.067189909
2020	HHDT	DSL	SC	0.067192523
2021	HHDT	DSL	SC	0.067158403
2022	HHDT	DSL	SC	0.067106754
2023	HHDT	DSL	SC	0.067109973
2024	HHDT	DSL	SC	0.067111763

Los Angele	2025 Annual	T6 instate heavy	0	0	0	0	0	0	0.001128263	0	0	0
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EMFAC 2011

2026 Estimated Annual Emissions

EMFAC 2011 Vehicle Categories

Los Angeles COUNTY

South Coast AIR BASIN

South Coast AQMD

Area	CalYr	Season	Veh	TOG_DIURN (Tons/day)	TOG_HTSK (Tons/day)	TOG_RUNLS (Tons/day)	TOG_RESTL (Tons/day)	TOG_TOTAL (Tons/day)	CO_RUNEX (Tons/day)	CO_IDLEX (Tons/day)	CO_STREX (Tons/day)	CO_TOTEX (Tons/day)
Los Angele	2026 Annual	T6 instate heavy		0	0	0	0	0	9.99E-05	0	0	0
Los Angele	2026 Annual	T6 instate heavy		0	0	0	0	0	1.16E-04	0	0	0
Los Angele	2026 Annual	T6 instate heavy		0	0	0	0	0	1.46E-04	0	0	0
Los Angele	2026 Annual	T6 instate heavy		0	0	0	0	0	8.80E-05	0	0	0
Los Angele	2026 Annual	T6 instate heavy		0	0	0	0	0	1.42E-04	0	0	0
Los Angele	2026 Annual	T6 instate heavy		0	0	0	0	0	2.57E-04	0	0	0
Los Angele	2026 Annual	T6 instate heavy		0	0	0	0	0	1.56E-04	0	0	0
Los Angele	2026 Annual	T6 instate heavy		0	0	0	0	0	2.20E-04	0	0	0
Los Angele	2026 Annual	T6 instate heavy		0	0	0	0	0	1.01E-04	0	0	0
Los Angele	2026 Annual	T6 instate heavy		0	0	0	0	0	1.23E-04	0	0	0
Los Angele	2026 Annual	T6 instate heavy		0	0	0	0	0	1.49E-04	0	0	0
Los Angele	2026 Annual	T6 instate heavy		0	0	0	0	0	1.66E-04	0	0	0
Los Angele	2026 Annual	T6 instate heavy		0	0	0	0	0	1.63E-04	0	0	0
Los Angele	2026 Annual	T6 instate heavy		0	0	0	0	0	1.63E-04	0	0	0
Los Angele	2026 Annual	T6 instate heavy		0	0	0	0	0	1.66E-04	0	0	0
Los Angele	2026 Annual	T6 instate heavy		0	0	0	0	0	1.71E-04	0	0	0
Los Angele	2026 Annual	T6 instate heavy		0	0	0	0	0	1.44E-04	0	0	0
Los Angele	2026 Annual	T6 instate heavy		0	0	0	0	0	1.37E-05	0	0	0
Los Angele	2025 Annual	T6 instate heavy		0	0	0	0	0	0.001135765	0	0	0

Onsite Idling

EMFAC2

007

Vehicle

CY Category Fuel\_Type air\_basin

2011	HHDT	DSL	SC
2014	HHDT	DSL	SC
2015	HHDT	DSL	SC
2016	HHDT	DSL	SC
2017	HHDT	DSL	SC
2018	HHDT	DSL	SC
2019	HHDT	DSL	SC
2020	HHDT	DSL	SC
2021	HHDT	DSL	SC
2022	HHDT	DSL	SC
2023	HHDT	DSL	SC
2024	HHDT	DSL	SC

Los Angele	2025 Annual	T6 instate heavy	0.001741153	0	0	0	1.742077779	0	0	0	1.567870001
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EMFAC 2011

2026 Estimated Annual Emissions

EMFAC 2011 Vehicle Categories

Los Angeles COUNTY

South Coast AIR BASIN

South Coast AQMD

Area	CalYr	Season	Veh	NOX_RUNEX (Tons/day)	NOX_IDLEX (Tons/day)	NOX_STREX (Tons/day)	NOX_TOTEX (Tons/day)	CO2_RUNEX (Tons/day)	CO2_IDLEX (Tons/day)	CO2_STREX (Tons/day)	CO2_TOTEX (Tons/day)	CO2_RUNEX(Pavl) (Tons/day)
Los Angele	2026 Annual	T6 instate heavy		2.13E-04	0	0	0	0.080715898	0	0	0	0.072644308
Los Angele	2026 Annual	T6 instate heavy		2.34E-04	0	0	0	0.095781697	0	0	0	0.086203527
Los Angele	2026 Annual	T6 instate heavy		2.68E-04	0	0	0	0.123032182	0	0	0	0.110728964
Los Angele	2026 Annual	T6 instate heavy		1.67E-04	0	0	0	0.094055818	0	0	0	0.084650237
Los Angele	2026 Annual	T6 instate heavy		2.68E-04	0	0	0	0.155427774	0	0	0	0.139884997
Los Angele	2026 Annual	T6 instate heavy		4.80E-04	0	0	0	0.287924705	0	0	0	0.259132235
Los Angele	2026 Annual	T6 instate heavy		2.87E-04	0	0	0	0.179158654	0	0	0	0.161242789
Los Angele	2026 Annual	T6 instate heavy		4.00E-04	0	0	0	0.260968449	0	0	0	0.234871604
Los Angele	2026 Annual	T6 instate heavy		1.81E-04	0	0	0	0.12402588	0	0	0	0.111623292
Los Angele	2026 Annual	T6 instate heavy		2.16E-04	0	0	0	0.155604003	0	0	0	0.140043603
Los Angele	2026 Annual	T6 instate heavy		2.57E-04	0	0	0	0.196784465	0	0	0	0.177106019
Los Angele	2026 Annual	T6 instate heavy		2.77E-04	0	0	0	0.2275836	0	0	0	0.20482524
Los Angele	2026 Annual	T6 instate heavy		2.64E-04	0	0	0	0.234893274	0	0	0	0.211403947
Los Angele	2026 Annual	T6 instate heavy		2.56E-04	0	0	0	0.248111426	0	0	0	0.223300283
Los Angele	2026 Annual	T6 instate heavy		2.48E-04	0	0	0	0.26655276	0	0	0	0.239897484
Los Angele	2026 Annual	T6 instate heavy		2.42E-04	0	0	0	0.292121513	0	0	0	0.262909362
Los Angele	2026 Annual	T6 instate heavy		1.91E-04	0	0	0	0.261909705	0	0	0	0.235718735
Los Angele	2026 Annual	T6 instate heavy		1.69E-05	0	0	0	0.026890986	0	0	0	0.024201887
Los Angele	2025 Annual	T6 instate heavy		0.001751829	0	0	0	1.75484773	0	0	0	1.579362957

Onsite Idling

EMFAC2

007

Vehicle

CY Category Fuel\_Type air\_basin

2011	HHDT	DSL	SC
2014	HHDT	DSL	SC
2015	HHDT	DSL	SC
2016	HHDT	DSL	SC
2017	HHDT	DSL	SC
2018	HHDT	DSL	SC
2019	HHDT	DSL	SC
2020	HHDT	DSL	SC
2021	HHDT	DSL	SC
2022	HHDT	DSL	SC
2023	HHDT	DSL	SC
2024	HHDT	DSL	SC

Los Angele	2025 Annual	T6 instate heavy	0	0	0	2.27276E-05	0	0	0	0	0
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EMFAC 2011  
 2026 Estimated Annual Emissions  
 EMFAC 2011 Vehicle Categories  
 Los Angeles COUNTY  
 South Coast AIR BASIN  
 South Coast AQMD

Area	CalYr	Season	Veh	CO2_IDLEX(Pavk (Tons/day)	CO2_STREX(Pavk (Tons/day)	CO2_TOTEX(Pavk (Tons/day)	PM10_RUNEX (Tons/day)	PM10_IDLEX (Tons/day)	PM10_STREX (Tons/day)	PM10_TOTEX (Tons/day)	PM10_PMTW (Tons/day)	PM10_PMBW (Tons/day)
Los Angele	2026 Annual	T6 instate heavy		0	0	0	2.33E-06	0	0	0	0	0
Los Angele	2026 Annual	T6 instate heavy		0	0	0	2.71E-06	0	0	0	0	0
Los Angele	2026 Annual	T6 instate heavy		0	0	0	3.40E-06	0	0	0	0	0
Los Angele	2026 Annual	T6 instate heavy		0	0	0	1.98E-06	0	0	0	0	0
Los Angele	2026 Annual	T6 instate heavy		0	0	0	3.19E-06	0	0	0	0	0
Los Angele	2026 Annual	T6 instate heavy		0	0	0	5.73E-06	0	0	0	0	0
Los Angele	2026 Annual	T6 instate heavy		0	0	0	3.45E-06	0	0	0	0	0
Los Angele	2026 Annual	T6 instate heavy		0	0	0	4.84E-06	0	0	0	0	0
Los Angele	2026 Annual	T6 instate heavy		0	0	0	2.21E-06	0	0	0	0	0
Los Angele	2026 Annual	T6 instate heavy		0	0	0	2.65E-06	0	0	0	0	0
Los Angele	2026 Annual	T6 instate heavy		0	0	0	3.18E-06	0	0	0	0	0
Los Angele	2026 Annual	T6 instate heavy		0	0	0	3.48E-06	0	0	0	0	0
Los Angele	2026 Annual	T6 instate heavy		0	0	0	3.37E-06	0	0	0	0	0
Los Angele	2026 Annual	T6 instate heavy		0	0	0	3.31E-06	0	0	0	0	0
Los Angele	2026 Annual	T6 instate heavy		0	0	0	3.29E-06	0	0	0	0	0
Los Angele	2026 Annual	T6 instate heavy		0	0	0	3.30E-06	0	0	0	0	0
Los Angele	2026 Annual	T6 instate heavy		0	0	0	2.69E-06	0	0	0	0	0
Los Angele	2026 Annual	T6 instate heavy		0	0	0	2.48E-07	0	0	0	0	0
Los Angele	2025 Annual	T6 instate heavy		0	0	0	2.28727E-05	0	0	0	0	0

**Onsite Idling**

**EMFAC2  
007  
Vehicle**

CY	Category	Fuel_Type	air_basin
2011	HHDT	DSL	SC
2014	HHDT	DSL	SC
2015	HHDT	DSL	SC
2016	HHDT	DSL	SC
2017	HHDT	DSL	SC
2018	HHDT	DSL	SC
2019	HHDT	DSL	SC
2020	HHDT	DSL	SC
2021	HHDT	DSL	SC
2022	HHDT	DSL	SC
2023	HHDT	DSL	SC
2024	HHDT	DSL	SC



Los Angele	2025 Annual	T6 instate heavy	0	2.09094E-05	0	0	0	0	0	0	0	0
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EMFAC 2011  
 2026 Estimated Annual Emissions  
 EMFAC 2011 Vehicle Categories  
 Los Angeles COUNTY  
 South Coast AIR BASIN  
 South Coast AQMD

Area	CalYr	Season	Veh	PM10_TOTAL (Tons/day)	PM2_5_RUNEX (Tons/day)	PM2_5_IDLEX (Tons/day)	PM2_5_STREX (Tons/day)	PM2_5_TOTEX (Tons/day)	PM2_5_PMTW (Tons/day)	PM2_5_PMBW (Tons/day)	PM2_5_TOTAL (Tons/day)	SOX_RUNEX (Tons/day)
Los Angele	2026 Annual	T6 instate heavy		0	2.15E-06	0	0	0	0	0	0	0
Los Angele	2026 Annual	T6 instate heavy		0	2.49E-06	0	0	0	0	0	0	0
Los Angele	2026 Annual	T6 instate heavy		0	3.12E-06	0	0	0	0	0	0	0
Los Angele	2026 Annual	T6 instate heavy		0	1.83E-06	0	0	0	0	0	0	0
Los Angele	2026 Annual	T6 instate heavy		0	2.94E-06	0	0	0	0	0	0	0
Los Angele	2026 Annual	T6 instate heavy		0	5.28E-06	0	0	0	0	0	0	0
Los Angele	2026 Annual	T6 instate heavy		0	3.17E-06	0	0	0	0	0	0	0
Los Angele	2026 Annual	T6 instate heavy		0	4.46E-06	0	0	0	0	0	0	0
Los Angele	2026 Annual	T6 instate heavy		0	2.03E-06	0	0	0	0	0	0	0
Los Angele	2026 Annual	T6 instate heavy		0	2.44E-06	0	0	0	0	0	0	0
Los Angele	2026 Annual	T6 instate heavy		0	2.93E-06	0	0	0	0	0	0	0
Los Angele	2026 Annual	T6 instate heavy		0	3.20E-06	0	0	0	0	0	0	0
Los Angele	2026 Annual	T6 instate heavy		0	3.10E-06	0	0	0	0	0	0	0
Los Angele	2026 Annual	T6 instate heavy		0	3.05E-06	0	0	0	0	0	0	0
Los Angele	2026 Annual	T6 instate heavy		0	3.03E-06	0	0	0	0	0	0	0
Los Angele	2026 Annual	T6 instate heavy		0	3.04E-06	0	0	0	0	0	0	0
Los Angele	2026 Annual	T6 instate heavy		0	2.47E-06	0	0	0	0	0	0	0
Los Angele	2026 Annual	T6 instate heavy		0	2.28E-07	0	0	0	0	0	0	0
Los Angele	2025 Annual	T6 instate heavy		0	2.10429E-05	0	0	0	0	0	0	0

**Onsite Idling**

**EMFAC2  
007  
Vehicle**

CY	Category	Fuel_Type	air_basin
2011	HHDT	DSL	SC
2014	HHDT	DSL	SC
2015	HHDT	DSL	SC
2016	HHDT	DSL	SC
2017	HHDT	DSL	SC
2018	HHDT	DSL	SC
2019	HHDT	DSL	SC
2020	HHDT	DSL	SC
2021	HHDT	DSL	SC
2022	HHDT	DSL	SC
2023	HHDT	DSL	SC
2024	HHDT	DSL	SC

Los Angele	2025 Annual	T6 instate heavy	0	0	0	0	38.52425995	2.06E-03	3.65E-03	5.64E-03	7.36E-05	0.00E+00	6.77E-05	0.00E+00	0.00E+00
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EMFAC 2011

2026 Estimated Annual Emissions

EMFAC 2011 Vehicle Categories

Los Angeles COUNTY

South Coast AIR BASIN

South Coast AQMD

Area	CalYr	Season	Veh	SOX_IDLEX (Tons/day)	SOX_STREX (Tons/day)	SOX_TOTEX (Tons/day)	FUEL_GAS (1000 Gallons)	FUEL_DSL (1000 Gallons)	exhaust ROG lb/mile	exhaust CO lb/mile	exhaust NOx lb/mile	exhaust PM10 lb/mile	tire wear a PM10 lb/mile	exhaust PM2.5 lb/mile	tire wear a PM2.5 lb/mile	SOx lb/mile
Los Angele	2026 Annual	T6 instate heavy		0	0	0	0	1.804838129	3.95E-03	7.00E-03	1.49E-02	1.64E-04	0.00E+00	1.51E-04	0.00E+00	0.00E+00
Los Angele	2026 Annual	T6 instate heavy		0	0	0	0	2.13940875	3.87E-03	6.86E-03	1.38E-02	1.60E-04	0.00E+00	1.47E-04	0.00E+00	0.00E+00
Los Angele	2026 Annual	T6 instate heavy		0	0	0	0	2.74105531	3.79E-03	6.72E-03	1.23E-02	1.56E-04	0.00E+00	1.44E-04	0.00E+00	0.00E+00
Los Angele	2026 Annual	T6 instate heavy		0	0	0	0	2.095075805	2.98E-03	5.28E-03	1.00E-02	1.19E-04	0.00E+00	1.10E-04	0.00E+00	0.00E+00
Los Angele	2026 Annual	T6 instate heavy		0	0	0	0	3.462617655	2.91E-03	5.16E-03	9.74E-03	1.16E-04	0.00E+00	1.07E-04	0.00E+00	0.00E+00
Los Angele	2026 Annual	T6 instate heavy		0	0	0	0	6.416936079	2.84E-03	5.04E-03	9.40E-03	1.12E-04	0.00E+00	1.03E-04	0.00E+00	0.00E+00
Los Angele	2026 Annual	T6 instate heavy		0	0	0	0	3.982438732	2.77E-03	4.91E-03	9.04E-03	1.09E-04	0.00E+00	1.00E-04	0.00E+00	0.00E+00
Los Angele	2026 Annual	T6 instate heavy		0	0	0	0	5.805618934	2.69E-03	4.77E-03	8.66E-03	1.05E-04	0.00E+00	9.64E-05	0.00E+00	0.00E+00
Los Angele	2026 Annual	T6 instate heavy		0	0	0	0	2.748151796	2.60E-03	4.62E-03	8.25E-03	1.01E-04	0.00E+00	9.25E-05	0.00E+00	0.00E+00
Los Angele	2026 Annual	T6 instate heavy		0	0	0	0	3.445748475	2.51E-03	4.46E-03	7.82E-03	9.61E-05	0.00E+00	8.84E-05	0.00E+00	0.00E+00
Los Angele	2026 Annual	T6 instate heavy		0	0	0	0	4.355220421	2.42E-03	4.29E-03	7.36E-03	9.13E-05	0.00E+00	8.40E-05	0.00E+00	0.00E+00
Los Angele	2026 Annual	T6 instate heavy		0	0	0	0	5.034398136	2.32E-03	4.11E-03	6.87E-03	8.63E-05	0.00E+00	7.94E-05	0.00E+00	0.00E+00
Los Angele	2026 Annual	T6 instate heavy		0	0	0	0	5.194028535	2.21E-03	3.92E-03	6.35E-03	8.10E-05	0.00E+00	7.45E-05	0.00E+00	0.00E+00
Los Angele	2026 Annual	T6 instate heavy		0	0	0	0	5.484747927	2.10E-03	3.72E-03	5.81E-03	7.54E-05	0.00E+00	6.94E-05	0.00E+00	0.00E+00
Los Angele	2026 Annual	T6 instate heavy		0	0	0	0	5.891534097	1.98E-03	3.51E-03	5.25E-03	6.96E-05	0.00E+00	6.41E-05	0.00E+00	0.00E+00
Los Angele	2026 Annual	T6 instate heavy		0	0	0	0	6.456883422	1.86E-03	3.30E-03	4.68E-03	6.37E-05	0.00E+00	5.86E-05	0.00E+00	0.00E+00
Los Angele	2026 Annual	T6 instate heavy		0	0	0	0	5.789092553	1.74E-03	3.09E-03	4.11E-03	5.79E-05	0.00E+00	5.33E-05	0.00E+00	0.00E+00
Los Angele	2026 Annual	T6 instate heavy		0	0	0	0	0.600910611	1.63E-03	2.88E-03	3.55E-03	5.20E-05	0.00E+00	4.79E-05	0.00E+00	0.00E+00
Los Angele	2025 Annual	T6 instate heavy		0	0	0	0	38.8068157	2.06E-03	3.65E-03	5.63E-03	7.36E-05	0.00E+00	6.77E-05	0.00E+00	0.00E+00

Onsite Idling

EMFAC2

007

Vehicle

CY Category Fuel\_Type air\_basin

2011	HHDT	DSL	SC
2014	HHDT	DSL	SC
2015	HHDT	DSL	SC
2016	HHDT	DSL	SC
2017	HHDT	DSL	SC
2018	HHDT	DSL	SC
2019	HHDT	DSL	SC
2020	HHDT	DSL	SC
2021	HHDT	DSL	SC
2022	HHDT	DSL	SC
2023	HHDT	DSL	SC
2024	HHDT	DSL	SC

Los Angele 2025 Annual T6 instate heavy 2.54E-03

EMFAC 2011

2026 Estimated Annual Emissions

EMFAC 2011 Vehicle Categories

Los Angeles COUNTY

South Coast AIR BASIN

South Coast AQMD

Area	CalYr	Season	Veh	exhaust CO2 ton/mile
Los Angele	2026	Annual	T6 instate heavy	2.55E-03
Los Angele	2026	Annual	T6 instate heavy	2.55E-03
Los Angele	2026	Annual	T6 instate heavy	2.55E-03
Los Angele	2026	Annual	T6 instate heavy	2.54E-03
Los Angele	2026	Annual	T6 instate heavy	2.54E-03
Los Angele	2026	Annual	T6 instate heavy	2.54E-03
Los Angele	2026	Annual	T6 instate heavy	2.54E-03
Los Angele	2026	Annual	T6 instate heavy	2.54E-03
Los Angele	2026	Annual	T6 instate heavy	2.54E-03
Los Angele	2026	Annual	T6 instate heavy	2.54E-03
Los Angele	2026	Annual	T6 instate heavy	2.54E-03
Los Angele	2026	Annual	T6 instate heavy	2.54E-03
Los Angele	2026	Annual	T6 instate heavy	2.54E-03
Los Angele	2026	Annual	T6 instate heavy	2.54E-03
Los Angele	2026	Annual	T6 instate heavy	2.54E-03
Los Angele	2026	Annual	T6 instate heavy	2.54E-03
Los Angele	2026	Annual	T6 instate heavy	2.54E-03
Los Angele	2026	Annual	T6 instate heavy	2.54E-03
Los Angele	2025	Annual	T6 instate heavy	2.54E-03

Onsite Idling

EMFAC2

007

Vehicle

CY Category Fuel\_Type air\_basin

2011	HHDT	DSL	SC
2014	HHDT	DSL	SC
2015	HHDT	DSL	SC
2016	HHDT	DSL	SC
2017	HHDT	DSL	SC
2018	HHDT	DSL	SC
2019	HHDT	DSL	SC
2020	HHDT	DSL	SC
2021	HHDT	DSL	SC
2022	HHDT	DSL	SC
2023	HHDT	DSL	SC
2024	HHDT	DSL	SC

