

## **Appendix F      Energy Appendix**

## Appendices

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## Construction-Related Fuel/Energy Usage

### CONSTRUCTION WORKER COMMUTE

Year	Gas		Diesel		Electricity	
	VMT	Gallons	VMT	Gallons	VMT	kWh
2023	36,015	1,220	259	6	587	191
2024	2,979,924	95,069	25,410	515	70,440	22,793
2025	2,885,262	92,205	22,038	453	66,312	21,286
2026	1,243,500	38,646	9,727	195	31,830	10,135
<b>Total</b>	<b>7,144,702</b>	<b>227,142</b>	<b>57,434</b>	<b>1,168</b>	<b>169,168</b>	<b>54,406</b>

### CONSTRUCTION VENDOR TRIPS

Year	Gas		Diesel	
	VMT	Gallons	VMT	Gallons
2023	294	57	3,132	359
2024	25,300	4,895	283,204	31,950
2025	64,711	12,374	772,797	85,816
2026	12,103	2,287	151,378	16,478
<b>Total</b>	<b>102,409</b>	<b>19,614</b>	<b>1,210,510</b>	<b>134,603</b>

### CONSTRUCTION TRUCK HAUL TRIPS

Year	Gas		Diesel	
	VMT	Gallons	VMT	Gallons
2023	4	1	4,253	588
2024	551	120	551,905	75,193
2025	0	0	0	0
2026	0	0	0	0
<b>Total</b>	<b>555</b>	<b>121</b>	<b>556,158</b>	<b>75,781</b>

### CONSTRUCTION OFF-ROAD EQUIPMENT

Year	Gasoline gallons	Diesel gallons
2023	6,403	31,282
2024	8,275	118,760
2025	15,266	23,260
2026	6,908	10,458
<b>Total</b>	<b>36,852</b>	<b>183,760</b>

### CONSTRUCTION TOTAL

Year	Gas		Diesel		Electricity	
	VMT	Gallons	VMT	Gallons	VMT	kWh
2023	36,313	7,682	7,643	32,235	587	191
2024	3,005,776	108,360	860,519	226,417	70,440	22,793
2025	2,949,974	119,846	794,835	109,529	66,312	21,286
2026	1,255,603	47,841	161,105	27,131	31,830	10,135
<b>Total</b>	<b>7,247,666</b>	<b>283,728</b>	<b>1,824,102</b>	<b>395,312</b>	<b>169,168</b>	<b>54,406</b>

**Construction Worker Trips Fuel Usage Worksheet**

Note: Per CalEEMod methodology, worker vehicles are "LD\_Mix", which is 50% LDA, 25% LDT1, and 25% LDT2

Activity <sup>1</sup>	Daily trips <sup>2</sup>	Trip miles <sup>2</sup>	Trip days <sup>2</sup>	Annual VMT
2023				
Site Abatement	18	14.7	21	5,557
Demolition	18	14.7	44	11,642
Demolition Soil Haul	0	14.7	42	0
Demolition, Site Preparation, and Rough Grading	64	14.7	21	19,757
2024				
Demolition, Site Preparation, and Rough Grading	64	14.7	1	941
Site Preparation Soil Haul	0	14.7	4	0
Site Preparation and Rough Grading	36	14.7	22	11,642
Site Preparation, Rough Grading, Utilities	39	14.7	107	61,343
Trenching	676	14.7	132	1,311,710
Building Construction (SP, RG, UT, FG, Paving Overlap)	0	14.7	58	0
Rough Grading/Earthwork/Soil Haul	47	14.7	1	691
Site Preparation, Rough Grading, Utilities	0	14.7	43	0
Trenching, Fine Grading	15	14.7	67	14,774
Fine Grading Soil Haul	8	14.7	66	7,762
Paving	676	14.7	65	645,918
2025				
Building Construction 2025	676	14.7	261	2,593,609
Finishing/Landscaping (Building Construction Overlap) 2025	0	14.7	197	0
Architectural Coatings 2025	135	14.7	197	390,947
2026				
Building Construction 2026	676	14.7	108	1,073,218
Finishing/Landscaping (Building Construction Overlap) 2026	0	14.7	108	0
Architectural Coatings 2026	135	14.7	108	214,326
Finishing/Landscaping	3	14.7	66	2,911

<sup>1</sup> Based on information provided.

<sup>2</sup> Based on CalEEMod defaults.

Year	LDA VMT	LDT1 VMT	LDT2 VMT	Gasoline <sup>1</sup>										Diesel <sup>2</sup>			Electricity <sup>3</sup>		
				LDA mpg	LDA gallons	LDT1 mpg	LDT1 gallons	LDT2 mpg	LDT2 gallons	LDA mpg	LDA gallons	LDT1 mpg	LDT1 gallons	LDT2 mpg	LDT2 gallons	LDA m/kWh	LDA kWh	LDT1 m/kWh	LDT1 kWh
2023	18,478	9,239	9,239	32.64	546	27.97	327	26.05	348	51.12	4	25.61	0	37.23	2	3.07	151	3.07	33
2024	2,054,781	513,695	513,695	33.55	58,722	28.67	17,666	26.93	18,682	52.50	404	26.18	3	38.29	108	3.09	20,479	3.09	2,315
2025	1,492,278	746,139	746,139	34.56	41,174	29.45	24,900	27.90	26,132	53.99	291	26.85	5	39.42	158	3.12	17,166	3.12	4,120
2026	645,227	322,614	322,614	35.52	17,255	30.17	10,480	28.82	10,912	55.37	125	27.66	2	40.45	68	3.14	8,108	3.14	2,027

<sup>1</sup> EMFAC2017 v1.0.3.

Year	VMT from gasoline			VMT from diesel			VMT from electricity		
	LDA	LDT1	LDT2	LDA	LDT1	LDT2	LDA	LDT1	
2023	96.36%	98.89%	98.20%	1.01%	0.02%	0.77%	2.63%	1.09%	
2024	95.89%	98.59%	97.95%	1.03%	0.02%	0.80%	3.08%	1.39%	
2025	95.36%	98.26%	97.70%	1.05%	0.02%	0.83%	3.58%	1.72%	
2026	94.98%	98.01%	97.47%	1.07%	0.02%	0.86%	3.95%	1.97%	

Year	Gasoline		Diesel		Electricity	
	VMT	Gallons	VMT	Gallons	VMT	kWh
2023	36,015	1,220	259	6	587	191
2024	2,979,924	95,069	25,410	515	70,440	22,793
2025	2,885,262	92,205	22,038	453	66,312	21,286
2026	1,243,500	38,646	9,727	195	31,830	10,135
<b>Total</b>	<b>7,144,702</b>	<b>227,142</b>	<b>57,434</b>	<b>1,168</b>	<b>169,168</b>	<b>54,406</b>

**Appendix C: Evidence Used to Define the Average Number of KWH Required to Displace a Gallon of Gasoline**

Table A 3: Evidence from U.S. Department of Energy and U.S. Environmental Protection Agency's fuel economy website<sup>[32]</sup>

Vehicle	Model year	Electric consumption	Gasoline fuel economy	Number of kWh that are equivalent to 1 gallon
Ford Fusion Energi & Ford C-Max Energi	2013	0.34 kWh per mile	43 mpg	14.6
Chevrolet Volt	2013	0.35 kWh per mile	37 mpg	12.9
Chevrolet Volt	2012	0.36 kWh per mile	37 mpg	13.3
Fisker Karma	2012	0.62 kWh per mile	20 mpg	12.4
Toyota Prius	2013	0.29 kWh per mile & 0.2 gal	50 mpg	13.1
Average for five models	-	-	-	13.3 +/- 0.8

Table A 5: Average power consumption per mile traveled over time for different PEV categories

Year range	2012-2020	2020-2030	2030-2040	2040-2050	2050
Efficiency improvement per year	0.3%	0.8%	0.9%	0.9%	
Year	2012	2020	2030	2040	2050
Relative energy efficiency	1.000	0.976	0.901	0.823	0.752

[https://www.fhwa.dot.gov/environment/climate\\_change/mitigation/publications\\_and\\_tools/ev\\_deployment/page08.cfm](https://www.fhwa.dot.gov/environment/climate_change/mitigation/publications_and_tools/ev_deployment/page08.cfm)

Year	Estimated Electric Consumption
2013	0.34
2014	0.34
2015	0.34
2016	0.34
2017	0.34
2018	0.34
2019	0.34
2020	0.33
2021	0.33
2022	0.33
2023	0.33
2024	0.32
2025	0.32
2026	0.32
2027	0.32
2028	0.31
2029	0.31
2030	0.31
2031	0.31
2032	0.30
2033	0.30
2034	0.30
2035	0.29

**Vendor Trips Fuel Usage Worksheet**

Note: Based on CalEEMod methodology, vendor vehicles HHDT (T7).

Activity <sup>1</sup>	Daily trips <sup>1,2</sup>	Trip miles <sup>2</sup>	Trip days <sup>1</sup>	Annual VMT
<b>2023</b>				
Site Abatement	4	6.9	21	580
Demolition	4	6.9	44	1,214
Demolition Soil Haul	0	6.9	42	0
Demolition, Site Preparation, and Rough Grading 2023	12	6.9	21	1,739
<b>2024</b>				
Demolition, Site Preparation, and Rough Grading 2024	12	6.9	1	83
Site Preparation Soil Haul	0	6.9	4	0
Site Preparation and Rough Grading	8	6.9	22	1,214
Site Preparation, Rough Grading, Utilities Trenching	12	6.9	107	8,860
Building Construction (SP, RG, UT, FG, Paving Overlap)	222	6.9	132	202,198
Rough Grading/Earthwork Soil Haul	0	6.9	58	0
Site Preparation, Rough Grading, Utilities Trenching, Fine Grading	16	6.9	1	110
Fine Grading Soil Haul	0	6.9	43	0
Paving	10	6.9	67	4,623
Fine Grading	4	6.9	66	1,822
Building Construction 2024	222	6.9	65	99,567
<b>2025</b>				
Building Construction 2025	222	14.7	261	851,747
Finishing/Landscaping (Building Construction Overlap) 2025	0	14.7	197	0
Architectural Coatings 2025	0	14.7	197	0
<b>2026</b>				
Building Construction 2026	222	6.9	108	165,434
Finishing/Landscaping (Building Construction Overlap) 2026	0	6.9	108	0
Architectural Coatings 2026	0	6.9	108	0
Finishing/Landscaping	2	6.9	66	911

<sup>1</sup> Based on information provided.

<sup>2</sup> Based on CalEEMod defaults.

Year	HHDT (T7) VMT		Gasoline <sup>1</sup>				Diesel <sup>1</sup>			
	HHDT (T7)	MHDT (T6)	HHDT (T7) mpg	HHDT (T7) gallons	MHDT (T6) mpg	MHDT (T6) gallons	HHDT (T7) mpg	HHDT (T7) gallons	MHDT (T6) mpg	MHDT (T6) gallons
2023	1,766	1,766	4.50	0	5.14	57	7.23	229	11.36	130
2024	159,238	159,238	4.59	32	5.17	4,863	7.34	20,316	11.53	11,634
2025	425,874	425,874	4.69	93	5.23	12,281	7.48	54,971	11.72	30,845
2026	83,173	83,173	4.78	19	5.30	2,268	7.63	10,509	11.92	5,970

<sup>1</sup> EMFAC2017 v1.0.3.

Year	VMT from gasoline		VMT from diesel	
	HHDT (T7)	MHDT (T6)	HHDT (T7)	MHDT (T6)
2023	0.09%	16.56%	93.86%	83.44%
2024	0.09%	15.79%	93.64%	84.21%
2025	0.10%	15.09%	96.55%	84.91%
2026	0.11%	14.44%	96.45%	85.56%

**VENDOR**

Gasoline	Diesel	
	VMT	Gallons
294.14	57.29	3,132
25,300.49	4,895.20	283,204
64,711	12,374	772,797
12,102.86	2,286.71	151,378
<b>102,408.91</b>	<b>19,613.50</b>	<b>1,210,510.41</b>

### Truck Haul Trips Fuel Usage Worksheet

Note: Hauling vehicles are HHDT (T7)

Activity	Total Trips <sup>1</sup>	Mi/Trip <sup>1</sup>	Annual VMT
2023			
Demolition Soil Haul	338	13	4,394
2024			
Site Preparation Soil Haul	429	37	15,873
Rough Grading/Earthwork Soil Haul	11,429	37	422,873
Fine Grading Soil Haul	3,572	37	132,164
			0

<sup>1</sup> Based on information provided by the District.

<sup>2</sup> Based on CalEEMod defaults.

Year	VMT	Gasoline <sup>1</sup>		Diesel <sup>1</sup>	
		HHDT (T7) mpg	HHDT (T7) gallons	HHDT (T7) mpg	HHDT (T7) gallons
2023	4,394	4.50	1	7.23	588
2024	570,910	4.59	120	7.34	75,193

<sup>1</sup> EMFAC2017 v1.0.3.

Year	VMT from gasoline	VMT from diesel
2023	0.09%	96.79%
2024	0.10%	96.67%

Gasoline		Diesel	
VMT	Gallons	VMT	Gallons
4	1	4,253	588
551	120	551,905	75,193
<b>555</b>	<b>121</b>	<b>556,158</b>	<b>75,781</b>

Off-Road Construction Equipment Fuel Usage Worksheet

Year	Total Gasoline	Total Diesel Gallons	Total Natural Gas
2023	6,403	31,282	0
2024	8,275	118,760	0
2025	15,266	23,260	0
2026	6,908	10,458	0
<b>Total</b>	<b>14,678</b>	<b>150,042</b>	<b>0</b>

Equipment Type <sup>1</sup>	Number of Equipment <sup>2</sup>	Horsepower	OFFROAD2017 Horsepower Category	Fuel Type	Working days <sup>1</sup>	Hours Per Day	Total Hours of Operation	Gasoline Gal/Hr <sup>2</sup>	Total Gasoline gallons	Diesel Gal/Hr <sup>2</sup>	Total Diesel gallons	Natural Gas Gal/Hr <sup>2</sup>	Total Natural Gas gallons
<b>2023</b>													
<b>Site Abatement</b>													
Tractors/Loaders/Backhoes	1	108	175	Diesel	21	8	168	0.00	0	2.72	458	0.00	0
<b>Demolition</b>													
Concrete/Industrial Saws	1	81	100	Gasoline	21	8	168	4.71	1,658	0.00	0	0.00	0
Crushing/Proc. Equipment	1	350	100	Gasoline	21	8	168	7.60	2,676	0.00	0	0.00	0
Graders	1	174	175	Diesel	21	8	168	0.00	0	6.87	1,153	0.00	0
Rollers	1	400	600	Diesel	21	8	168	0.00	0	2.79	468	0.00	0
Rollers	1	150	175	Diesel	21	8	168	0.00	0	6.87	1,153	0.00	0
Rollers	1	550	600	Diesel	21	8	168	0.00	0	6.87	1,153	0.00	0
Scrapers	2	367	600	Diesel	21	8	336	0.00	0	10.55	3,546	0.00	0
Excavators	3	400	600	Diesel	21	8	504	0.00	0	6.67	3,363	0.00	0
Rubber Tired Dozers	3	255	300	Diesel	21	8	504	0.00	0	4.47	2,253	0.00	0
Scrapers	4	361	600	Diesel	21	8	672	0.00	0	10.55	7,093	0.00	0
Tractors/Loaders/Backhoes	4	97	100	Diesel	21	8	672	0.00	0	1.59	1,070	0.00	0
<b>TOTAL</b>									<b>6,403</b>		<b>31,282</b>		<b>0</b>
<b>2024</b>													
<b>Demolition, Site Preparation, and Rough Grading 2024</b>													
Concrete/Industrial Saws	1	81	100	Gasoline	1	8	8	4.71	38	0.00	0	0.00	0
Crushing/Proc. Equipment	1	350	100	Gasoline	1	8	8	7.59	61	0.00	0	0.00	0
Graders	1	174	175	Diesel	1	8	8	0.00	0	3.16	25	0.00	0
Rollers	1	400	600	Diesel	1	8	8	0.00	0	6.86	55	0.00	0
Rollers	1	150	175	Diesel	1	8	8	0.00	0	2.79	22	0.00	0
Rollers	1	550	600	Diesel	1	8	8	0.00	0	6.86	55	0.00	0
Scrapers	2	367	600	Diesel	1	8	16	0.00	0	10.56	169	0.00	0
Excavators	3	400	600	Diesel	1	8	24	0.00	0	6.67	160	0.00	0
Rubber Tired Dozers	3	255	300	Diesel	1	8	24	0.00	0	4.63	111	0.00	0
Scrapers	4	361	600	Diesel	1	8	32	0.00	0	10.56	338	0.00	0
Tractors/Loaders/Backhoes	4	97	100	Diesel	1	8	32	0.00	0	1.59	51	0.00	0
<b>Site Preparation and Rough Grading</b>													
Graders	1	174	175	Diesel	22	8	176	0.00	0	3.16	556	0.00	0
Rollers	1	400	600	Diesel	22	8	176	0.00	0	6.86	1,207	0.00	0
Rollers	1	150	175	Diesel	22	8	176	0.00	0	2.79	491	0.00	0
Rollers	1	550	600	Diesel	22	8	176	0.00	0	6.86	1,207	0.00	0
Excavators	2	162	175	Diesel	22	8	352	0.00	0	2.89	1,016	0.00	0
Rubber Tired Dozers	3	255	300	Diesel	22	8	528	0.00	0	4.63	2,445	0.00	0
Scrapers	4	361	600	Diesel	22	8	704	0.00	0	10.56	7,432	0.00	0
Tractors/Loaders/Backhoes	4	97	100	Diesel	22	8	704	0.00	0	1.59	1,122	0.00	0
<b>Site Preparation, Rough Grading, Utilities Trenching</b>													
Graders	1	174	175	Diesel	107	8	856	0.00	0	3.16	2,705	0.00	0
Rollers	1	400	600	Diesel	107	8	856	0.00	0	6.86	5,872	0.00	0
Rollers	1	150	175	Diesel	107	8	856	0.00	0	2.79	2,387	0.00	0
Rollers	1	550	600	Diesel	107	8	856	0.00	0	6.86	5,872	0.00	0
Excavators	2	162	175	Diesel	107	8	1,712	0.00	0	2.89	4,942	0.00	0
Rubber Tired Dozers	3	255	300	Diesel	107	8	2,568	0.00	0	4.63	11,891	0.00	0
Scrapers	4	361	600	Diesel	107	8	3,424	0.00	0	10.56	36,147	0.00	0
Tractors/Loaders/Backhoes	4	97	100	Diesel	107	8	3,424	0.00	0	1.59	5,455	0.00	0
<b>Building Construction (SP, RG, UT, FG, Paving Overlap)</b>													
Cranes	1	226	300	Diesel	132	7	924	0.00	0	3.27	3,022	0.00	0
Generator Sets	1	84	100	Gasoline	132	8	1,056	5.19	5,479	0.00	0	0.00	0
Welders	1	46	50	Diesel	132	8	1,056	0.00	0	1.19	1,254	0.00	0
Forklifts	3	89	100	Diesel	132	8	3,168	0.00	0	0.98	3,096	0.00	0
Select Equipment Type			25	Select Fuel Type	132		0	0.00	0	0.00	0	0.00	0
Select Equipment Type			25	Select Fuel Type	132		0	0.00	0	0.00	0	0.00	0
Select Equipment Type			25	Select Fuel Type	132		0	0.00	0	0.00	0	0.00	0
Select Equipment Type			25	Select Fuel Type	132		0	0.00	0	0.00	0	0.00	0
<b>Site Preparation, Rough Grading, Utilities Trenching, Fine Grading</b>													
Graders	1	174	175	Diesel	1	8	8	0.00	0	3.16	25	0.00	0
Rollers	1	400	600	Diesel	1	8	8	0.00	0	6.86	55	0.00	0
Rollers	1	150	175	Diesel	1	8	8	0.00	0	2.79	22	0.00	0
Rollers	1	550	600	Diesel	1	8	8	0.00	0	6.86	55	0.00	0
Excavators	2	162	175	Diesel	1	8	16	0.00	0	2.89	46	0.00	0
Rubber Tired Dozers	3	255	300	Diesel	1	8	24	0.00	0	4.63	111	0.00	0
Scrapers	4	361	600	Diesel	1	8	32	0.00	0	10.56	338	0.00	0
Tractors/Loaders/Backhoes	4	97	100	Diesel	1	8	32	0.00	0	1.59	51	0.00	0
<b>Paving</b>													
Pavers	2	125	175	Diesel	67	8	1,072	0.00	0	3.40	3,641	0.00	0
Paving Equipment	2	130	175	Diesel	67	8	1,072	0.00	0	2.67	2,863	0.00	0
Rollers	2	80	100	Diesel	67	8	1,072	0.00	0	1.69	1,816	0.00	0
<b>Fine Grading</b>													
Graders	1	174	175	Diesel	66	8	528	0.00	0	3.16	1,669	0.00	0
Rollers	1	150	175	Diesel	66	8	528	0.00	0	2.79	1,472	0.00	0
Tractors/Loaders/Backhoes	2	97	100	Diesel	66	8	1,056	0.00	0	1.59	1,682	0.00	0
<b>Building Construction 2024</b>													
Cranes	1	226	300	Diesel	65	7	455	0.00	0	3.27	1,488	0.00	0
Generator Sets	1	84	100	Gasoline	65	8	520	5.19	2,698	0.00	0	0.00	0
Welders	1	46	50	Diesel	65	8	520	0.00	0	1.19	618	0.00	0
Forklifts	3	89	100	Diesel	65	8	1,560	0.00	0	0.98	1,525	0.00	0
Tractors/Loaders/Backhoes	3	97	100	Diesel	65	7	1,365	0.00	0	1.59	2,175	0.00	0
<b>TOTAL</b>									<b>8,275</b>		<b>118,760</b>		<b>0</b>
<b>2025</b>													
<b>Building Construction 2025</b>													
Cranes	1	226	300	Diesel	261	7	1,827	0.00	0	3.26	5,956	0.00	0
Generator Sets	1	84	100	Gasoline	261	8	2,088	5.19	10,829	0.00	0	0.00	0
Welders	1	46	50	Diesel	261	8	2,088	0.00	0	1.19	2,479	0.00	0
Forklifts	3	89	100	Diesel	261	8	6,264	0.00	0	0.97	6,082	0.00	0
Tractors/Loaders/Backhoes	3	97	100	Diesel	261	7	5,481	0.00	0	1.59	8,742	0.00	0
<b>Architectural Coatings 2025</b>													
Air Compressors	1	78	100	Gasoline	197	6	1,182	3.75	4,437	0.00	0	0.00	0
<b>TOTAL</b>									<b>15,266</b>		<b>23,260</b>		<b>0</b>
<b>2026</b>													
<b>Building Construction 2026</b>													
Cranes	1	226	300	Diesel	108	7	756	0.00	0	3.26	2,468	0.00	0
Generator Sets	1	84	100	Gasoline	108	8	864	5.18	4,476	0.00	0	0.00	0
Welders	1	46	50	Diesel	108	8	864	0.00	0	1.19	1,026	0.00	0
Forklifts	3	89	100	Diesel	108	8	2,592	0.00	0	0.96	2,501	0.00	0
Tractors/Loaders/Backhoes	3	97	100	Diesel	108	7	2,268	0.00	0	1.60	3,621	0.00	0
<b>Architectural Coatings 2026</b>													
Air Compressors	1	78	100	Gasoline	108	6	648	3.75	2,432	0.00	0	0.00	0
<b>Finishing/Landscaping 2026</b>													
Tractors/Loaders/Backhoes	1	97	100	Diesel	66	8	528	0.00	0	1.60	843	0.00	0
<b>TOTAL</b>									<b>6,908</b>		<b>10,458</b>		<b>0</b>

<sup>1</sup> Based on information provided.  
<sup>2</sup> OFFROAD2017 v.1.0.1











Equipment Type	Horsepower	Fuel (Gal/HR)			Oil			Diesel			Natural Gas		
		Fuel (Gal/HR)	Provisions	Wt/Lbs	Fuel (Gal/HR)	Provisions	Wt/Lbs	Fuel (Gal/HR)	Provisions	Wt/Lbs	Fuel (Gal/HR)	Provisions	Wt/Lbs
AC Compressor25	AC Compressor	25	10029.00	1138.0	50292.13	0.30218600	0.15	18.00	18840.0	0.54825624	0	0	0
AC Compressor50	AC Compressor	50	13592.00	46.0	31222.32	2.20178000	0.15	12.00	8992.0	0.20077100	0	0	0
AC Compressor75	AC Compressor	75	18252.00	155.0	42268.00	3.75000000	0.15	12.00	12000.0	0.29922900	0	0	0
AC Compressor100	AC Compressor	100	24600.00	10.48	5008.00	0.86117000	0.15	12.00	15000.0	0.39878700	0	0	0
AC Compressor150	AC Compressor	150	32400.00	2.00	4000.00	0.60000000	0.15	12.00	18000.0	0.49834500	0	0	0
AC Compressor200	AC Compressor	200	40200.00	3.00	5000.00	0.45000000	0.15	12.00	21000.0	0.59790300	0	0	0
AC Compressor250	AC Compressor	250	48000.00	4.00	6000.00	0.30000000	0.15	12.00	24000.0	0.69746100	0	0	0
AC Compressor300	AC Compressor	300	55800.00	5.00	7000.00	0.15000000	0.15	12.00	27000.0	0.79701900	0	0	0
AC Compressor350	AC Compressor	350	63600.00	6.00	8000.00	0.00000000	0.15	12.00	30000.0	0.89657700	0	0	0
AC Compressor400	AC Compressor	400	71400.00	7.00	9000.00	0.00000000	0.15	12.00	33000.0	0.99613500	0	0	0
AC Compressor450	AC Compressor	450	79200.00	8.00	10000.00	0.00000000	0.15	12.00	36000.0	1.09569300	0	0	0
AC Compressor500	AC Compressor	500	87000.00	9.00	11000.00	0.00000000	0.15	12.00	39000.0	1.19525100	0	0	0
AC Compressor550	AC Compressor	550	94800.00	10.00	12000.00	0.00000000	0.15	12.00	42000.0	1.29480900	0	0	0
AC Compressor600	AC Compressor	600	102600.00	11.00	13000.00	0.00000000	0.15	12.00	45000.0	1.39436700	0	0	0
AC Compressor650	AC Compressor	650	110400.00	12.00	14000.00	0.00000000	0.15	12.00	48000.0	1.49392500	0	0	0
AC Compressor700	AC Compressor	700	118200.00	13.00	15000.00	0.00000000	0.15	12.00	51000.0	1.59348300	0	0	0
AC Compressor750	AC Compressor	750	126000.00	14.00	16000.00	0.00000000	0.15	12.00	54000.0	1.69304100	0	0	0
AC Compressor800	AC Compressor	800	133800.00	15.00	17000.00	0.00000000	0.15	12.00	57000.0	1.79259900	0	0	0
AC Compressor850	AC Compressor	850	141600.00	16.00	18000.00	0.00000000	0.15	12.00	60000.0	1.89215700	0	0	0
AC Compressor900	AC Compressor	900	149400.00	17.00	19000.00	0.00000000	0.15	12.00	63000.0	1.99171500	0	0	0
AC Compressor950	AC Compressor	950	157200.00	18.00	20000.00	0.00000000	0.15	12.00	66000.0	2.09127300	0	0	0
AC Compressor1000	AC Compressor	1000	165000.00	19.00	21000.00	0.00000000	0.15	12.00	69000.0	2.19083100	0	0	0
AC Compressor1050	AC Compressor	1050	172800.00	20.00	22000.00	0.00000000	0.15	12.00	72000.0	2.29038900	0	0	0
AC Compressor1100	AC Compressor	1100	180600.00	21.00	23000.00	0.00000000	0.15	12.00	75000.0	2.38994700	0	0	0
AC Compressor1150	AC Compressor	1150	188400.00	22.00	24000.00	0.00000000	0.15	12.00	78000.0	2.48950500	0	0	0
AC Compressor1200	AC Compressor	1200	196200.00	23.00	25000.00	0.00000000	0.15	12.00	81000.0	2.58906300	0	0	0
AC Compressor1250	AC Compressor	1250	204000.00	24.00	26000.00	0.00000000	0.15	12.00	84000.0	2.68862100	0	0	0
AC Compressor1300	AC Compressor	1300	211800.00	25.00	27000.00	0.00000000	0.15	12.00	87000.0	2.78817900	0	0	0
AC Compressor1350	AC Compressor	1350	219600.00	26.00	28000.00	0.00000000	0.15	12.00	90000.0	2.88773700	0	0	0
AC Compressor1400	AC Compressor	1400	227400.00	27.00	29000.00	0.00000000	0.15	12.00	93000.0	2.98729500	0	0	0
AC Compressor1450	AC Compressor	1450	235200.00	28.00	30000.00	0.00000000	0.15	12.00	96000.0	3.08685300	0	0	0
AC Compressor1500	AC Compressor	1500	243000.00	29.00	31000.00	0.00000000	0.15	12.00	99000.0	3.18641100	0	0	0
AC Compressor1550	AC Compressor	1550	250800.00	30.00	32000.00	0.00000000	0.15	12.00	102000.0	3.28596900	0	0	0
AC Compressor1600	AC Compressor	1600	258600.00	31.00	33000.00	0.00000000	0.15	12.00	105000.0	3.38552700	0	0	0
AC Compressor1650	AC Compressor	1650	266400.00	32.00	34000.00	0.00000000	0.15	12.00	108000.0	3.48508500	0	0	0
AC Compressor1700	AC Compressor	1700	274200.00	33.00	35000.00	0.00000000	0.15	12.00	111000.0	3.58464300	0	0	0
AC Compressor1750	AC Compressor	1750	282000.00	34.00	36000.00	0.00000000	0.15	12.00	114000.0	3.68420100	0	0	0
AC Compressor1800	AC Compressor	1800	289800.00	35.00	37000.00	0.00000000	0.15	12.00	117000.0	3.78375900	0	0	0
AC Compressor1850	AC Compressor	1850	297600.00	36.00	38000.00	0.00000000	0.15	12.00	120000.0	3.88331700	0	0	0
AC Compressor1900	AC Compressor	1900	305400.00	37.00	39000.00	0.00000000	0.15	12.00	123000.0	3.98287500	0	0	0
AC Compressor1950	AC Compressor	1950	313200.00	38.00	40000.00	0.00000000	0.15	12.00	126000.0	4.08243300	0	0	0
AC Compressor2000	AC Compressor	2000	321000.00	39.00	41000.00	0.00000000	0.15	12.00	129000.0	4.18199100	0	0	0
AC Compressor2050	AC Compressor	2050	328800.00	40.00	42000.00	0.00000000	0.15	12.00	132000.0	4.28154900	0	0	0
AC Compressor2100	AC Compressor	2100	336600.00	41.00	43000.00	0.00000000	0.15	12.00	135000.0	4.38110700	0	0	0
AC Compressor2150	AC Compressor	2150	344400.00	42.00	44000.00	0.00000000	0.15	12.00	138000.0	4.48066500	0	0	0
AC Compressor2200	AC Compressor	2200	352200.00	43.00	45000.00	0.00000000	0.15	12.00	141000.0	4.58022300	0	0	0
AC Compressor2250	AC Compressor	2250	360000.00	44.00	46000.00	0.00000000	0.15	12.00	144000.0	4.67978100	0	0	0
AC Compressor2300	AC Compressor	2300	367800.00	45.00	47000.00	0.00000000	0.15	12.00	147000.0	4.77933900	0	0	0
AC Compressor2350	AC Compressor	2350	375600.00	46.00	48000.00	0.00000000	0.15	12.00	150000.0	4.87889700	0	0	0
AC Compressor2400	AC Compressor	2400	383400.00	47.00	49000.00	0.00000000	0.15	12.00	153000.0	4.97845500	0	0	0
AC Compressor2450	AC Compressor	2450	391200.00	48.00	50000.00	0.00000000	0.15	12.00	156000.0	5.07801300	0	0	0
AC Compressor2500	AC Compressor	2500	399000.00	49.00	51000.00	0.00000000	0.15	12.00	159000.0	5.17757100	0	0	0
AC Compressor2550	AC Compressor	2550	406800.00	50.00	52000.00	0.00000000	0.15	12.00	162000.0	5.27712900	0	0	0
AC Compressor2600	AC Compressor	2600	414600.00	51.00	53000.00	0.00000000	0.15	12.00	165000.0	5.37668700	0	0	0
AC Compressor2650	AC Compressor	2650	422400.00	52.00	54000.00	0.00000000	0.15	12.00	168000.0	5.47624500	0	0	0
AC Compressor2700	AC Compressor	2700	430200.00	53.00	55000.00	0.00000000	0.15	12.00	171000.0	5.57580300	0	0	0
AC Compressor2750	AC Compressor	2750	438000.00	54.00	56000.00	0.00000000	0.15	12.00	174000.0	5.67536100	0	0	0
AC Compressor2800	AC Compressor	2800	445800.00	55.00	57000.00	0.00000000	0.15	12.00	177000.0	5.77491900	0	0	0
AC Compressor2850	AC Compressor	2850	453600.00	56.00	58000.00	0.00000000	0.15	12.00	180000.0	5.87447700	0	0	0
AC Compressor2900	AC Compressor	2900	461400.00	57.00	59000.00	0.00000000	0.15	12.00	183000.0	5.97403500	0	0	0
AC Compressor2950	AC Compressor	2950	469200.00	58.00	60000.00	0.00000000	0.15	12.00	186000.0	6.07359300	0	0	0
AC Compressor3000	AC Compressor	3000	477000.00	59.00	61000.00	0.00000000	0.15	12.00	189000.0	6.17315100	0	0	0
AC Compressor3050	AC Compressor	3050	484800.00	60.00	62000.00	0.00000000	0.15	12.00	192000.0	6.27270900	0	0	0
AC Compressor3100	AC Compressor	3100	492600.00	61.00	63000.00	0.00000000	0.15	12.00	195000.0	6.37226700	0	0	0
AC Compressor3150	AC Compressor	3150	500400.00	62.00	64000.00	0.00000000	0.15	12.00	198000.0	6.47182500	0	0	0
AC Compressor3200	AC Compressor	3200	508200.00	63.00	65000.00	0.00000000	0.15	12.00	201000.0	6.57138300	0	0	0
AC Compressor3250	AC Compressor	3250	516000.00	64.00	66000.00	0.00000000	0.15	12.00	204000.0	6.67094100	0	0	0
AC Compressor3300	AC Compressor	3300	523800.00	65.00	67000.00	0.00000000	0.15	12.00	207000.0	6.77049900	0	0	0
AC Compressor3350	AC Compressor	3350	531600.00	66.00	68000.00	0.00000000	0.15	12.00	210000.0	6.87005700	0	0	0
AC Compressor3400	AC Compressor	3400	539400.00	67.00	69000.00	0.00000000	0.15	12.00	213000.0	6.96961500	0	0	0
AC Compressor3450	AC Compressor	3450	547200.00	68.00	70000.00	0.00000000	0.15	12.00	216000.0	7.06917300	0	0	0
AC Compressor3500	AC Compressor	3500	555000.00	69.00	71000.00	0.00000000	0.15	12.00	219000.0	7.16873100	0	0	0
AC Compressor3550	AC Compressor	3550	562800.00	70.00	72000.00	0.00000000	0.15	12.00	222000.0	7.26828900	0	0	0
AC Compressor3600													







OFFROAD 2025

Main data table with columns: Equipment Type, Horsepower, Fuel (Gal/HR), Production, GPH, Gals/HR, Fuel (Gal/HR), Production, GPH, Fuel (Gal/HR), Production, GPH, Fuel (Gal/HR), Production, GPH, Fuel (Gal/HR), Production, GPH. Rows include various equipment types like Air Compressors, Backhoes, and Tractors.

Visual Output: OFFROAD2025 (V.A.S.I.) Emissions Inventory
Region: Table - Sub Area
Region: Oregon
Calendar Year: 2025
Source: All Approval Paths - Exhaust
Vehicle Classification: OFFROAD2025 Equipment Types
Units: Ton/Day for Emissions, gallon/year for Fuel, Hours/year for Activity, Horsepower-hour/year for Horsepower-hour

Summary table with columns: Region, Equipment Type, Horsepower, Fuel, HC, CO, ROG, TOC, CO2, NOx, SO2, PM10, PM2.5, SOx, NOx, PM10, PM2.5, SOx, NOx, PM10, PM2.5. Rows list equipment types and their associated emissions.

















Proposed Project

PROPOSED PROJECT CONDITIONS

Vehicle type	Fleet percent									VMT								
	Apartment Mid Rise	Fast Food Restaurant with Drive Thru	General Office Building	High Turnover (Sit Down Restaurant)	Library	Medical Office Building	Quality Restaurant	Regional Shopping Center	Apartment Mid Rise	Fast Food Restaurant with Drive Thru	General Office Building	High Turnover (Sit Down Restaurant)	Library	Medical Office Building	Quality Restaurant	Regional Shopping Center	Total	
LDA	64.96%	54.83%	54.85%	54.83%	54.85%	56.52%	56.52%	56.52%	1,956,750	7,177,524	448,175	2,384,286	0	595,424	912,358	1,292,374	14,766,892	
LDT1	7.20%	6.08%	6.08%	6.08%	6.08%	4.29%	4.29%	216,755	795,075	49,646	264,114	0	45,195	69,251	98,096	1,538,131		
LDT2	21.83%	18.43%	18.43%	18.43%	18.43%	20.93%	20.93%	657,608	2,412,166	150,619	801,292	0	220,479	337,837	478,553	5,058,555		
MDV	2.00%	12.52%	12.52%	12.52%	12.52%	10.84%	10.84%	60,241	1,638,708	102,323	544,359	0	114,179	174,955	247,827	2,882,593		
LHD1	0.44%	2.42%	2.42%	2.42%	2.42%	1.45%	1.45%	13,196	316,279	19,749	105,064	0	15,323	23,479	33,258	526,347		
LHD2	0.12%	0.67%	0.67%	0.67%	0.67%	0.58%	0.58%	3,684	88,298	5,313	29,332	0	6,081	9,318	13,199	155,426		
MHD	0.27%	1.49%	1.49%	1.49%	1.49%	2.63%	2.63%	8,126	194,771	12,162	64,701	0	27,676	42,407	60,071	409,914		
HHH	0.09%	0.49%	0.49%	0.49%	0.49%	1.78%	1.78%	2,696	64,627	4,035	21,468	0	18,783	28,781	40,769	181,159		
OBUS	0.00%	0.07%	0.07%	0.07%	0.07%	0.18%	0.18%	0	8,715	544	2,895	0	1,888	2,892	4,097	21,031		
UBUS	0.00%	0.04%	0.04%	0.04%	0.04%	0.15%	0.15%	0	4,894	306	1,626	0	1,590	2,436	3,450	14,300		
MCY	3.01%	2.49%	2.49%	2.49%	2.49%	0.50%	0.50%	90,557	326,027	20,358	108,302	0	5,217	7,995	11,325	569,781		
SBUS	0.01%	0.07%	0.07%	0.07%	0.07%	0.06%	0.06%	383	9,146	571	3,036	0	634	972	1,376	16,121		
MH	0.07%	0.37%	0.37%	0.37%	0.37%	0.09%	0.09%	2,036	48,833	3,049	15,222	0	904	1,416	2,005	74,485		
	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	3,012,035	13,085,064	817,051	4,346,700	0	1,053,393	1,614,097	2,286,399	26,214,739		

PROPOSED CONDITIONS

Vehicle type	Gas percent	Diesel percent	CNG percent	Electricity percent
LDA	94.98%	1.07%	0.00%	3.95%
LDT1	98.01%	0.02%	0.00%	1.97%
LDT2	97.47%	0.86%	0.00%	1.67%
MDV	95.45%	2.88%	0.00%	1.67%
LHD1	53.09%	46.99%	0.00%	0.00%
LHD2	33.73%	66.27%	0.00%	0.00%
MHD	14.44%	85.56%	0.00%	0.00%
HHH	0.11%	96.45%	3.44%	0.00%
OBUS	45.28%	54.72%	0.00%	0.00%
UBUS	18.82%	0.00%	81.18%	0.00%
MCY	100.00%	0.00%	0.00%	0.00%
SBUS	40.61%	59.39%	0.00%	0.00%
MH	68.77%	31.23%	0.00%	0.00%

<< Equal to T6 (<https://www.arb.ca.gov/msei/downloads/emfac2014/emfac2014-vol3-technical-documentation-052015.pdf>)  
 << Equal to T7 (<https://www.arb.ca.gov/msei/downloads/emfac2014/emfac2014-vol3-technical-documentation-052015.pdf>)  
 << Motor coach, all other buses, and OBUS (<https://www.arb.ca.gov/msei/downloads/emfac2014/emfac2014-vol3-technical-documentation-052015.pdf>)

PROPOSED CONDITIONS

Vehicle type	VMT	Gasoline		Diesel		CNG		Electricity		
		mpg	Gallons	mpg	Gallons	mpg	Gallons	m/kWh	kWh	
LDA	14,026,032	35.52	394,894	55.37	2,855	0	0.00	582,755	3.14	185,566
LDT1	1,507,540	30.17	49,964	27.66	9	0	0.00	30,354	3.14	9,666
LDT2	4,930,506	28.82	171,100	43.422	40,45	0	0.00	84,627	3.14	26,948
MDV	2,751,530	23.18	118,716	82.933	30,73	0	0.00	48,130	3.14	15,326
LHD1	279,223	11.18	24,974	247.124	22,96	0	0.00	0	3.14	0
LHD2	52,425	9.69	5,412	103,001	20,71	0	0.00	0	3.14	0
MHD	59,207	5.30	11,178	350,706	11,92	0	0.00	0	3.14	0
HHH	195	4.78	41	174,725	7.63	22,889	6,239	2,40	2,598	0
OBUS	9,523	5.48	1,737	11,508	0	0	0.00	0	3.14	0
UBUS	2,601	4.39	613	0	0.00	0	11,609	3.86	3,005	0
MCY	569,781	37.04	15,385	0	0.00	0	0.00	0	3.14	0
SBUS	6,546	9.51	689	9,575	7.88	1,215	0	0.00	0	3.14
MH	51,221	5.53	9,259	23,265	10.99	2,117	0	0.00	0	3.14
	<b>24,246,420</b>		<b>803,961</b>	<b>1,204,601</b>		<b>79,184</b>	<b>17,849</b>	<b>5,603</b>	<b>745,866</b>	<b>237,505</b>



Vehicle type	GAS			DSL			NG			ELEC
	VMT/day	Gallons/day	Miles/gallon	VMT/day	Gallons/day	Miles/gallon	VMT/day	Gallons/day	Miles/gallon	VMT/day
All other buses	0	0	0.00	30,341	2,805	10.82	0	0	0.00	0
LDA	49,965,794	1,530,774	32.64	521,945	10,210	51.12	0	0	0.00	1,363,746
LDT1	5,324,604	190,388	27.97	970	38	25.61	0	0	0.00	58,817
LDT2	16,860,834	647,146	26.05	131,714	3,538	37.23	0	0	0.00	177,682
LHD1	1,293,611	120,026	10.78	1,009,903	46,031	21.94	0	0	0.00	0
LHD2	222,130	23,737	9.36	388,074	19,613	19.79	0	0	0.00	0
MCY	426,338	11,479	37.14	0	0	0.00	0	0	0.00	0
MDV	11,014,473	523,982	21.02	293,855	10,400	28.25	0	0	0.00	101,133
MH	64,511	12,223	5.28	28,555	2,700	10.58	0	0	0.00	0
Motor coach	0	0	0.00	18,402	2,675	6.88	0	0	0.00	0
OBUS	43,737	8,382	5.22	0	0	0.00	0	0	0.00	0
PTO	0	0	0.00	34,063	6,468	5.27	0	0	0.00	0
SBUS	22,929	2,482	9.24	39,300	5,196	7.56	0	0	0.00	0
T6	377,899	73,547	5.14	1,903,588	167,519	11.36	0	0	0.00	0
T7	1,170	260	4.50	1,244,042	172,031	7.23	40,133	17,538	2.29	0
UBUS	20,172	4,824	4.18	0	0	0.00	87,025	22,536	3.86	0
<b>Total</b>	<b>85,638,202</b>	<b>3,149,249</b>	<b>27.19</b>	<b>5,644,753</b>	<b>449,226</b>	<b>12.57</b>	<b>127,157</b>	<b>40,074</b>	<b>3.17</b>	<b>1,701,376</b>

1,092,789,551

1.04%

81875000 11322001.58



Source: EMFAC2017 (v1.0.3) Emissions Inventory

Region Type: Sub-Area

Region: Orange (SC)

Calendar Year: 2023

Season: Annual

Vehicle Classification: EMFAC2011 Categories

Units: miles/day for VMT, trips/day for Trips, tons/day for Emissions, 1000 gallons/day for Fuel Consumption

Region	Calendar Year	Vehicle Category	Model Year	Speed	Fuel	Population	VMT	Trips	Fuel Consumption
Orange (SC)	2023	All Other Buses	Aggregate	Aggregate	DSL	497.4884829	30341.42021	4178.903257	2.805137976
Orange (SC)	2023	LDA	Aggregate	Aggregate	GAS	1317264.299	49965793.64	6248383.008	1530.774164
Orange (SC)	2023	LDA	Aggregate	Aggregate	DSL	13431.01148	521944.8541	63854.3682	10.21006873
Orange (SC)	2023	LDA	Aggregate	Aggregate	ELEC	33012.02837	1363745.619	164035.8627	0
Orange (SC)	2023	LDT1	Aggregate	Aggregate	GAS	145926.018	5324604.48	676933.8582	190.3875858
Orange (SC)	2023	LDT1	Aggregate	Aggregate	DSL	46.29888067	970.2407912	157.1623518	0.037881245
Orange (SC)	2023	LDT1	Aggregate	Aggregate	ELEC	1366.204347	58816.77113	6870.769993	0
Orange (SC)	2023	LDT2	Aggregate	Aggregate	GAS	459128.0523	16860833.77	2151241.261	647.1457437
Orange (SC)	2023	LDT2	Aggregate	Aggregate	DSL	3171.575849	131714.3685	15530.20474	3.538230746
Orange (SC)	2023	LDT2	Aggregate	Aggregate	ELEC	5547.578192	177681.564	27961.08308	0
Orange (SC)	2023	LHD1	Aggregate	Aggregate	GAS	35833.39433	1293610.747	533864.1837	120.02561
Orange (SC)	2023	LHD1	Aggregate	Aggregate	DSL	25197.20917	1009903.321	316949.1932	46.0310456
Orange (SC)	2023	LHD2	Aggregate	Aggregate	GAS	6427.170235	222129.8261	95755.26002	23.73696478
Orange (SC)	2023	LHD2	Aggregate	Aggregate	DSL	9897.553217	388074.4324	124498.7684	19.61347913
Orange (SC)	2023	MCY	Aggregate	Aggregate	GAS	60907.74419	426337.9157	121815.4884	11.47916891
Orange (SC)	2023	MDV	Aggregate	Aggregate	GAS	313407.6541	11014472.81	1450734.231	523.9817028
Orange (SC)	2023	MDV	Aggregate	Aggregate	DSL	7459.366276	293854.6559	36276.35582	10.40034972
Orange (SC)	2023	MDV	Aggregate	Aggregate	ELEC	3044.278972	101132.5162	15528.53705	0
Orange (SC)	2023	MH	Aggregate	Aggregate	GAS	6790.047028	64511.29463	679.2763047	12.22260418
Orange (SC)	2023	MH	Aggregate	Aggregate	DSL	3077.212238	28555.305	307.7212238	2.700205907
Orange (SC)	2023	Motor Coach	Aggregate	Aggregate	DSL	130.5785169	18401.53809	1906.446347	2.675147509
Orange (SC)	2023	OBUS	Aggregate	Aggregate	GAS	1014.708676	43737.41029	20302.29118	8.382453786
Orange (SC)	2023	PTO	Aggregate	Aggregate	DSL	0	34062.86189	0	6.468358644
Orange (SC)	2023	SBUS	Aggregate	Aggregate	GAS	557.167251	22929.00008	2228.669004	2.481912376
Orange (SC)	2023	SBUS	Aggregate	Aggregate	DSL	1252.958306	39300.2503	14458.96513	5.19639825
Orange (SC)	2023	T6 Ag	Aggregate	Aggregate	DSL	0.862231182	6.668568375	3.793817203	0.000743957
Orange (SC)	2023	T6 CAIRP heavy	Aggregate	Aggregate	DSL	96.13981948	18837.71383	1403.641364	1.541338376
Orange (SC)	2023	T6 CAIRP small	Aggregate	Aggregate	DSL	48.22250844	2511.489818	704.0486232	0.219534634
Orange (SC)	2023	T6 instate construction heavy	Aggregate	Aggregate	DSL	427.2850212	28135.87435	1931.738968	2.562220756
Orange (SC)	2023	T6 instate construction small	Aggregate	Aggregate	DSL	2659.36752	149167.4465	12022.89716	13.45602022
Orange (SC)	2023	T6 instate heavy	Aggregate	Aggregate	DSL	4632.974164	662141.6492	53463.87952	55.64228225
Orange (SC)	2023	T6 instate small	Aggregate	Aggregate	DSL	19005.22892	1011749.443	219317.7068	90.92936563
Orange (SC)	2023	T6 OOS heavy	Aggregate	Aggregate	DSL	54.67448669	10706.34735	798.2475056	0.876211975
Orange (SC)	2023	T6 OOS small	Aggregate	Aggregate	DSL	28.84054333	1498.437544	421.0719326	0.130910917
Orange (SC)	2023	T6 Public	Aggregate	Aggregate	DSL	851.6779496	13084.6738	2583.423111	1.592357941
Orange (SC)	2023	T6 utility	Aggregate	Aggregate	DSL	342.9365029	5748.175315	3943.769783	0.568062046
Orange (SC)	2023	T6TS	Aggregate	Aggregate	GAS	7500.789376	377898.997	150075.7938	73.54713884
Orange (SC)	2023	T7 Ag	Aggregate	Aggregate	DSL	1.063174002	8.222677017	4.677965609	0.001524266
Orange (SC)	2023	T7 CAIRP	Aggregate	Aggregate	DSL	982.9303991	178866.8185	14350.78383	24.44800502
Orange (SC)	2023	T7 CAIRP construction	Aggregate	Aggregate	DSL	110.8329168	20210.24295	501.0713076	2.606613712
Orange (SC)	2023	T7 NNOOS	Aggregate	Aggregate	DSL	1103.523756	218062.2243	16111.44684	28.36132135
Orange (SC)	2023	T7 NOOS	Aggregate	Aggregate	DSL	389.5370519	70275.62649	5687.240958	9.854066818
Orange (SC)	2023	T7 POLA	Aggregate	Aggregate	DSL	1386.102284	184529.8958	10534.37736	25.75409743
Orange (SC)	2023	T7 Public	Aggregate	Aggregate	DSL	1043.383866	21140.08402	3164.931058	3.584559973
Orange (SC)	2023	T7 Single	Aggregate	Aggregate	DSL	2446.303618	171547.3811	28230.00459	23.63979345
Orange (SC)	2023	T7 single construction	Aggregate	Aggregate	DSL	722.5047551	50137.89549	3266.415907	6.891174012
Orange (SC)	2023	T7 SWCV	Aggregate	Aggregate	DSL	283.0552486	11565.17884	1103.915469	5.660972092
Orange (SC)	2023	T7 SWCV	Aggregate	Aggregate	NG	985.3985608	40132.57541	3843.054387	17.53838201
Orange (SC)	2023	T7 tractor	Aggregate	Aggregate	DSL	2015.109589	274972.5133	25591.89178	35.31413012
Orange (SC)	2023	T7 tractor construction	Aggregate	Aggregate	DSL	607.1515489	41359.3496	2744.908547	5.704690443
Orange (SC)	2023	T7 utility	Aggregate	Aggregate	DSL	67.31892338	1366.23584	774.1676189	0.210095409
Orange (SC)	2023	T7IS	Aggregate	Aggregate	GAS	9.811189686	1169.863795	196.3022832	0.260101575
Orange (SC)	2023	UBUS	Aggregate	Aggregate	GAS	213.5219131	20172.21316	854.0876526	4.824274807
Orange (SC)	2023	UBUS	Aggregate	Aggregate	DSL	0	0	0	0
Orange (SC)	2023	UBUS	Aggregate	Aggregate	NG	751.3728408	87024.56496	3005.491363	22.53563665

Vehicle type	GAS			DSL			NG			ELEC
	VMT/day	Gallons/day	Miles/gallon	VMT/day	Gallons/day	Miles/gallon	VMT/day	Gallons/day	Miles/gallon	VMT/day
All other buses	0	0	0.00	31,167	2,853	10.92	0	0	0.00	0
LDA	50,207,251	1,496,363	33.55	540,280	10,290	52.50	0	0	0.00	1,612,689
LDT1	5,404,034	188,500	28.67	945	36	26.18	0	0	0.00	76,322
LDT2	16,818,806	624,435	26.93	137,673	3,595	38.29	0	0	0.00	213,825
LHD1	1,269,667	116,835	10.87	1,038,905	46,757	22.22	0	0	0.00	0
LHD2	219,450	23,273	9.43	400,280	19,958	20.06	0	0	0.00	0
MCY	431,035	11,625	37.08	0	0	0.00	0	0	0.00	0
MDV	10,907,785	502,746	21.70	304,990	10,494	29.06	0	0	0.00	129,775
MH	63,982	11,960	5.35	28,597	2,668	10.72	0	0	0.00	0
Motor coach	0	0	0.00	18,740	2,707	6.92	0	0	0.00	0
OBUS	43,428	8,209	5.29	0	0	0.00	0	0	0.00	0
PTO	0	0	0.00	35,070	6,580	5.33	0	0	0.00	0
SBUS	23,797	2,549	9.34	38,614	5,040	7.66	0	0	0.00	0
T6	364,690	70,509	5.17	1,944,223	168,688	11.53	0	0	0.00	0
T7	1,270	276	4.59	1,271,032	173,168	7.34	42,498	18,277	2.33	0
UBUS	20,291	4,851	4.18	0	0	0.00	87,535	22,657	3.86	0
<b>Total</b>	<b>85,775,486</b>	<b>3,062,132</b>	<b>28.01</b>	<b>5,790,518</b>	<b>452,836</b>	<b>12.79</b>	<b>130,033</b>	<b>40,935</b>	<b>3.18</b>	<b>2,032,611</b>

1,062,559,695

1.05%

81875000 11154809.42



Source: EMFAC2017 (v1.0.3) Emissions Inventory

Region Type: Sub-Area

Region: Orange (SC)

Calendar Year: 2024

Season: Annual

Vehicle Classification: EMFAC2011 Categories

Units: miles/day for VMT, trips/day for Trips, tons/day for Emissions, 1000 gallons/day for Fuel Consumption

Region	Calendar Year	Vehicle Category	Model Year	Speed	Fuel	Population	VMT	Trips	Fuel Consumption
Orange (SC)	2024	All Other Buses	Aggregate	Aggregate	DSL	516.1339688	31167.1134	4335.525338	2.852839855
Orange (SC)	2024	LDA	Aggregate	Aggregate	GAS	1337490.995	50207250.91	6343722.318	1496.363092
Orange (SC)	2024	LDA	Aggregate	Aggregate	DSL	14052.74116	540279.7011	66848.46524	10.29037482
Orange (SC)	2024	LDA	Aggregate	Aggregate	ELEC	38213.64694	1612689.314	189628.5946	0
Orange (SC)	2024	LDT1	Aggregate	Aggregate	GAS	149731.2088	5404033.518	694761.265	188.4996059
Orange (SC)	2024	LDT1	Aggregate	Aggregate	DSL	44.08303123	944.9735888	151.0016428	0.036101695
Orange (SC)	2024	LDT1	Aggregate	Aggregate	ELEC	1734.875988	76322.38505	8717.218595	0
Orange (SC)	2024	LDT2	Aggregate	Aggregate	GAS	462837.1411	16818805.72	2167762.981	624.4348212
Orange (SC)	2024	LDT2	Aggregate	Aggregate	DSL	3391.132854	137673.4842	16547.13863	3.595286368
Orange (SC)	2024	LDT2	Aggregate	Aggregate	ELEC	6803.92639	213824.6052	34199.81692	0
Orange (SC)	2024	LHD1	Aggregate	Aggregate	GAS	35500.27712	1269667.479	528901.2337	116.8354543
Orange (SC)	2024	LHD1	Aggregate	Aggregate	DSL	26315.39616	1038905.117	331014.5789	46.75749537
Orange (SC)	2024	LHD2	Aggregate	Aggregate	GAS	6420.174666	219449.6556	95651.03647	23.27317245
Orange (SC)	2024	LHD2	Aggregate	Aggregate	DSL	10385.10939	400280.4391	130631.6116	19.95846307
Orange (SC)	2024	MCY	Aggregate	Aggregate	GAS	62471.01534	431035.3333	124942.0307	11.62453692
Orange (SC)	2024	MDV	Aggregate	Aggregate	GAS	313457.4392	10907785.12	1450691.697	502.7461045
Orange (SC)	2024	MDV	Aggregate	Aggregate	DSL	7889.854795	304989.8796	38231.32539	10.49400836
Orange (SC)	2024	MDV	Aggregate	Aggregate	ELEC	3994.854671	129775.1768	20300.83382	0
Orange (SC)	2024	MH	Aggregate	Aggregate	GAS	6712.679833	63982.30387	671.5364905	11.9599545
Orange (SC)	2024	MH	Aggregate	Aggregate	DSL	3130.727871	28597.15485	313.0727871	2.668408183
Orange (SC)	2024	Motor Coach	Aggregate	Aggregate	DSL	134.5750663	18740.4099	1964.795968	2.70691928
Orange (SC)	2024	OBUS	Aggregate	Aggregate	GAS	1021.888238	43427.56638	20445.93986	8.2094807
Orange (SC)	2024	PTO	Aggregate	Aggregate	DSL	0	35070.38273	0	6.579978979
Orange (SC)	2024	SBUS	Aggregate	Aggregate	GAS	584.491221	23797.35365	2337.964884	2.548887643
Orange (SC)	2024	SBUS	Aggregate	Aggregate	DSL	1229.046344	38613.77331	14183.02441	5.039661909
Orange (SC)	2024	T6 Ag	Aggregate	Aggregate	DSL	0.894541568	5.38222795	3.9359829	0.00061431
Orange (SC)	2024	T6 CAIRP heavy	Aggregate	Aggregate	DSL	100.4887577	19226.8223	1467.135863	1.534412597
Orange (SC)	2024	T6 CAIRP small	Aggregate	Aggregate	DSL	50.42856361	2555.061209	736.2570287	0.219656036
Orange (SC)	2024	T6 instate construction heavy	Aggregate	Aggregate	DSL	436.5984907	28468.30496	1973.844801	2.563996039
Orange (SC)	2024	T6 instate construction small	Aggregate	Aggregate	DSL	2746.66544	150929.8878	12417.56767	13.45857308
Orange (SC)	2024	T6 instate heavy	Aggregate	Aggregate	DSL	4920.928017	683146.592	56786.82706	56.43860486
Orange (SC)	2024	T6 instate small	Aggregate	Aggregate	DSL	19905.40508	1028696.111	229705.6148	91.3617365
Orange (SC)	2024	T6 OOS heavy	Aggregate	Aggregate	DSL	57.13612908	10919.85162	834.1874846	0.871762599
Orange (SC)	2024	T6 OOS small	Aggregate	Aggregate	DSL	30.22358569	1528.991618	441.264351	0.131372301
Orange (SC)	2024	T6 Public	Aggregate	Aggregate	DSL	839.8307045	12948.75237	2547.486468	1.546248807
Orange (SC)	2024	T6 utility	Aggregate	Aggregate	DSL	347.2427597	5797.573126	3993.291737	0.561111061
Orange (SC)	2024	T6TS	Aggregate	Aggregate	GAS	7456.463322	364690.4142	149188.9181	70.50895005
Orange (SC)	2024	T7 Ag	Aggregate	Aggregate	DSL	1.239149331	8.60202375	5.452257055	0.001622563
Orange (SC)	2024	T7 CAIRP	Aggregate	Aggregate	DSL	1000.664374	182133.8524	14609.69986	24.47391989
Orange (SC)	2024	T7 CAIRP construction	Aggregate	Aggregate	DSL	111.8994182	20449.03075	505.8929192	2.593999828
Orange (SC)	2024	T7 NNOOS	Aggregate	Aggregate	DSL	1145.781657	222045.6433	16728.4122	28.16083381
Orange (SC)	2024	T7 NOOS	Aggregate	Aggregate	DSL	397.6758856	71559.73866	5806.06793	9.873150495
Orange (SC)	2024	T7 POLA	Aggregate	Aggregate	DSL	1420.853619	193898.6803	10798.4875	27.09774475
Orange (SC)	2024	T7 Public	Aggregate	Aggregate	DSL	1048.781355	21249.3448	3181.30344	3.539722429
Orange (SC)	2024	T7 Single	Aggregate	Aggregate	DSL	2508.793583	176621.4574	28951.13012	24.0825349
Orange (SC)	2024	T7 single construction	Aggregate	Aggregate	DSL	725.7727454	50730.2841	3281.190364	6.888315634
Orange (SC)	2024	T7 SWCV	Aggregate	Aggregate	DSL	258.1315809	10546.83816	1006.713166	5.162530888
Orange (SC)	2024	T7 SWCV	Aggregate	Aggregate	NG	1043.368776	42497.96197	4069.138227	18.27738533
Orange (SC)	2024	T7 tractor	Aggregate	Aggregate	DSL	2127.185413	278562.5722	27705.25475	35.3688573
Orange (SC)	2024	T7 tractor construction	Aggregate	Aggregate	DSL	614.5826567	41848.01805	2778.504296	5.714463616
Orange (SC)	2024	T7 utility	Aggregate	Aggregate	DSL	67.92421333	1378.118004	781.1284533	0.210203008
Orange (SC)	2024	T7IS	Aggregate	Aggregate	GAS	10.12464296	1269.902073	202.5738563	0.276397571
Orange (SC)	2024	UBUS	Aggregate	Aggregate	GAS	214.7743581	20290.53631	859.0974323	4.851227153
Orange (SC)	2024	UBUS	Aggregate	Aggregate	DSL	0	0	0	0
Orange (SC)	2024	UBUS	Aggregate	Aggregate	NG	755.7801313	87535.02065	3023.120525	22.65714971

EMFAC Fuel Usage: Year 2025										
Vehicle type	GAS			DSL			NG			ELEC
	VMT/day	Gallons/day	Miles/gallon	VMT/day	Gallons/day	Miles/gallon	VMT/day	Gallons/day	Miles/gallon	
All other buses	0	0	0.00	31,942	2,863	11.16	0	0	0.00	0
LDA	50,397,810	1,458,140	34.56	556,199	10,302	53.99	0	0	0.00	1,893,890
LDT1	5,474,703	185,929	29.45	914	34	26.85	0	0	0.00	95,830
LDT2	16,783,491	601,632	27.90	142,974	3,627	39.42	0	0	0.00	251,954
LHD1	1,249,765	113,451	11.02	1,065,628	47,190	22.58	0	0	0.00	0
LHD2	216,895	22,707	9.55	411,549	20,198	20.38	0	0	0.00	0
MCY	435,214	11,744	37.06	0	0	0.00	0	0	0.00	0
MDV	10,814,941	481,858	22.44	314,811	10,519	29.93	0	0	0.00	159,630
MH	63,527	11,672	5.44	28,623	2,637	10.86	0	0	0.00	0
Motor coach	0	0	0.00	19,038	2,696	7.06	0	0	0.00	0
OBUS	43,165	8,009	5.39	0	0	0.00	0	0	0.00	0
PTO	0	0	0.00	35,998	6,675	5.39	0	0	0.00	0
SBUS	24,717	2,622	9.43	38,030	4,896	7.77	0	0	0.00	0
T6	351,384	67,141	5.23	1,976,807	168,627	11.72	0	0	0.00	0
T7	1,372	292	4.69	1,293,739	172,953	7.48	44,800	18,958	2.36	0
UBUS	20,409	4,654	4.39	0	0	0.00	88,045	22,789	3.86	0
<b>Total</b>	<b>85,877,395</b>	<b>2,969,850</b>	<b>28.92</b>	<b>5,916,252</b>	<b>453,215</b>	<b>13.05</b>	<b>132,846</b>	<b>41,747</b>	<b>3.18</b>	<b>2,401,303</b>

Source: EMFAC2017 (v1.0.3) Emissions Inventory

Region Type: Sub-Area

Region: Orange (SC)

Calendar Year: 2025

Season: Annual

Vehicle Classification: EMFAC2011 Categories

Units: miles/day for VMT, trips/day for Trips, tons/day for Emissions, 1000 gallons/day for Fuel Consumption

Region	Calendar Year	Vehicle Category	Model Year	Speed	Fuel	Population	VMT	Trips	Fuel Consumption
Orange (SC)	2025	All Other Buses	Aggregate	Aggregate	DSL	541.3303258	31941.861	4547.175	2.862587302
Orange (SC)	2025	LDA	Aggregate	Aggregate	GAS	1356591.668	50397810	6432075	1458.140125
Orange (SC)	2025	LDA	Aggregate	Aggregate	DSL	14618.32023	556198.82	69566.93	10.30203077
Orange (SC)	2025	LDA	Aggregate	Aggregate	ELEC	43941.61653	1893890.2	217774.1	0
Orange (SC)	2025	LDT1	Aggregate	Aggregate	GAS	153386.8857	5474702.8	711646.4	185.9289769
Orange (SC)	2025	LDT1	Aggregate	Aggregate	DSL	41.26894589	914.13929	143.5772	0.034041937
Orange (SC)	2025	LDT1	Aggregate	Aggregate	ELEC	2138.134593	95829.665	10724.19	0
Orange (SC)	2025	LDT2	Aggregate	Aggregate	GAS	466551.4378	16783491	2184107	601.6319646
Orange (SC)	2025	LDT2	Aggregate	Aggregate	DSL	3599.452575	142974.45	17496.74	3.627101339
Orange (SC)	2025	LDT2	Aggregate	Aggregate	ELEC	8168.942609	251953.69	40942.62	0
Orange (SC)	2025	LHD1	Aggregate	Aggregate	GAS	35252.08763	1249765.5	525203.6	113.4508505
Orange (SC)	2025	LHD1	Aggregate	Aggregate	DSL	27398.17496	1065628.5	344634.6	47.1897775
Orange (SC)	2025	LHD2	Aggregate	Aggregate	GAS	6407.28234	216895.02	95458.96	22.70664721
Orange (SC)	2025	LHD2	Aggregate	Aggregate	DSL	10858.86008	411549.47	136590.8	20.1979956
Orange (SC)	2025	MCY	Aggregate	Aggregate	GAS	63966.20146	435213.87	127932.4	11.74439185
Orange (SC)	2025	MDV	Aggregate	Aggregate	GAS	313655.6471	10814941	1451269	481.8576229
Orange (SC)	2025	MDV	Aggregate	Aggregate	DSL	8287.890534	314810.76	40027.3	10.51862899
Orange (SC)	2025	MDV	Aggregate	Aggregate	ELEC	5021.826358	159629.86	25422.92	0
Orange (SC)	2025	MH	Aggregate	Aggregate	GAS	6647.438299	63527.468	665.0097	11.67173417
Orange (SC)	2025	MH	Aggregate	Aggregate	DSL	3177.421283	28622.68	317.7421	2.63668404
Orange (SC)	2025	Motor Coach	Aggregate	Aggregate	DSL	143.5465257	19038.377	2095.779	2.696060982
Orange (SC)	2025	OBUS	Aggregate	Aggregate	GAS	1026.704567	43165.353	20542.3	8.00888944
Orange (SC)	2025	PTO	Aggregate	Aggregate	DSL	0	35997.772	0	6.6746876
Orange (SC)	2025	SBUS	Aggregate	Aggregate	GAS	613.1860175	24717.046	2452.744	2.622497541
Orange (SC)	2025	SBUS	Aggregate	Aggregate	DSL	1208.473938	38029.627	13945.62	4.895665661
Orange (SC)	2025	T6 Ag	Aggregate	Aggregate	DSL	0.921118861	4.4230273	4.052923	0.000516777
Orange (SC)	2025	T6 CAIRP heavy	Aggregate	Aggregate	DSL	104.1690977	19567.356	1520.869	1.517615809
Orange (SC)	2025	T6 CAIRP small	Aggregate	Aggregate	DSL	52.48326384	2593.442	766.2557	0.218410056
Orange (SC)	2025	T6 instate constr	Aggregate	Aggregate	DSL	444.3714558	28250.843	2008.986	2.516016808
Orange (SC)	2025	T6 instate constr	Aggregate	Aggregate	DSL	2795.992993	149776.97	12640.58	13.1554533
Orange (SC)	2025	T6 instate heavy	Aggregate	Aggregate	DSL	5230.706335	702216.72	60361.63	56.93836517
Orange (SC)	2025	T6 instate small	Aggregate	Aggregate	DSL	20726.61568	1043077.2	239182.3	91.23366169
Orange (SC)	2025	T6 OOS heavy	Aggregate	Aggregate	DSL	59.20440768	11106.897	864.3844	0.86176527
Orange (SC)	2025	T6 OOS small	Aggregate	Aggregate	DSL	31.53465692	1555.6775	460.406	0.130962265
Orange (SC)	2025	T6 Public	Aggregate	Aggregate	DSL	828.5244385	12810.51	2513.191	1.500479783
Orange (SC)	2025	T6 utility	Aggregate	Aggregate	DSL	351.185363	5846.7152	4038.632	0.553330301
Orange (SC)	2025	T6TS	Aggregate	Aggregate	GAS	7391.162216	351384.27	147882.4	67.14052802
Orange (SC)	2025	T7 Ag	Aggregate	Aggregate	DSL	1.404114204	8.8707221	6.178102	0.001698795
Orange (SC)	2025	T7 CAIRP	Aggregate	Aggregate	DSL	1007.562357	185004.24	14710.41	24.2584849
Orange (SC)	2025	T7 CAIRP constr	Aggregate	Aggregate	DSL	111.0806667	20292.826	502.1914	2.51708576
Orange (SC)	2025	T7 NNOOS	Aggregate	Aggregate	DSL	1184.757388	225545.35	17297.46	27.80037435
Orange (SC)	2025	T7 NOOS	Aggregate	Aggregate	DSL	401.3587266	72687.947	5859.837	9.794598053
Orange (SC)	2025	T7 POLA	Aggregate	Aggregate	DSL	1440.827984	203155.4	10950.29	28.15771668
Orange (SC)	2025	T7 Public	Aggregate	Aggregate	DSL	1054.617328	21367.73	3199.006	3.496328659
Orange (SC)	2025	T7 Single	Aggregate	Aggregate	DSL	2555.27473	181291.98	29487.52	24.41958191
Orange (SC)	2025	T7 single constr	Aggregate	Aggregate	DSL	719.4667645	50342.768	3252.681	6.746326335
Orange (SC)	2025	T7 SWCV	Aggregate	Aggregate	DSL	235.2713798	9612.8074	917.5584	4.705235534
Orange (SC)	2025	T7 SWCV	Aggregate	Aggregate	NG	1099.760542	44800.415	4289.066	18.95785887
Orange (SC)	2025	T7 tractor	Aggregate	Aggregate	DSL	2232.119212	281510.86	28347.91	35.2734034
Orange (SC)	2025	T7 tractor constr	Aggregate	Aggregate	DSL	611.9228279	41528.351	2766.479	5.60852589
Orange (SC)	2025	T7 utility	Aggregate	Aggregate	DSL	68.51957475	1389.9824	787.9751	0.209608852
Orange (SC)	2025	T7IS	Aggregate	Aggregate	GAS	10.57114545	1371.9723	211.5075	0.292400454
Orange (SC)	2025	UBUS	Aggregate	Aggregate	GAS	216.026803	20408.859	864.1072	4.653686261
Orange (SC)	2025	UBUS	Aggregate	Aggregate	DSL	0	0	0	0
Orange (SC)	2025	UBUS	Aggregate	Aggregate	NG	760.1874218	88045.476	3040.75	22.78927364

EMFAC Fuel Usage: Year 2026

Vehicle type	GAS			DSL			NG			ELEC
	VMT/day	Gallons/day	Miles/gallon	VMT/day	Gallons/day	Miles/gallon	VMT/day	Gallons/day	Miles/gallon	VMT/day
All other buses	0	0	0.00	32,677	2,871	11.38	0	0	0.00	0
LDA	50,488,092	1,421,461	35.52	569,114	10,278	55.37	0	0	0.00	2,097,685
LDT1	5,529,612	183,267	30.17	870	31	27.66	0	0	0.00	111,339
LDT2	16,736,777	580,806	28.82	147,399	3,644	40.45	0	0	0.00	287,268
LHD1	1,232,632	110,249	11.18	1,090,931	47,507	22.96	0	0	0.00	0
LHD2	214,888	22,183	9.69	422,198	20,384	20.71	0	0	0.00	0
MCY	439,324	11,862	37.04	0	0	0.00	0	0	0.00	0
MDV	10,720,008	462,518	23.18	323,110	10,515	30.73	0	0	0.00	187,515
MH	63,108	11,408	5.53	28,664	2,608	10.99	0	0	0.00	0
Motor coach	0	0	0.00	19,335	2,688	7.19	0	0	0.00	0
OBUS	43,040	7,849	5.48	0	0	0.00	0	0	0.00	0
PTO	0	0	0.00	36,923	6,766	5.46	0	0	0.00	0
SBUS	25,685	2,702	9.51	37,569	4,768	7.88	0	0	0.00	0
T6	339,212	64,039	5.30	2,009,268	168,559	11.92	0	0	0.00	0
T7	1,471	308	4.78	1,318,370	172,706	7.63	47,078	19,604	2.40	0
UBUS	20,527	4,678	4.39	0	0	0.00	88,556	22,921	3.86	0
<b>Total</b>	<b>85,854,376</b>	<b>2,883,331</b>	<b>29.78</b>	<b>6,036,427</b>	<b>453,325</b>	<b>13.32</b>	<b>135,634</b>	<b>42,526</b>	<b>3.19</b>	<b>2,683,807</b>

Source: EMFAC2017 (v1.0.3) Emissions Inventory

Region Type: Sub-Area

Region: Orange (SC)

Calendar Year: 2026

Season: Annual

Vehicle Classification: EMFAC2011 Categories

Units: miles/day for VMT, trips/day for Trips, tons/day for Emissions, 1000 gallons/day for Fuel Consumption

Region	Calendar Year	Vehicle Category	Model Year	Speed	Fuel	Population	VMT	Trips	Fuel Consumption
Orange (SC)	2026	All Other Buses	Aggregate	Aggregate	DSL	564.6879696	32677.24029	4743.378944	2.871253793
Orange (SC)	2026	LDA	Aggregate	Aggregate	GAS	1375402.577	50488092.46	6518550.391	1421.461259
Orange (SC)	2026	LDA	Aggregate	Aggregate	DSL	15105.12937	569113.8968	71988.70113	10.2783195
Orange (SC)	2026	LDA	Aggregate	Aggregate	ELEC	49504.09753	2097685.496	244864.1218	0
Orange (SC)	2026	LDT1	Aggregate	Aggregate	GAS	156940.2243	5529611.644	727939.1393	183.2670815
Orange (SC)	2026	LDT1	Aggregate	Aggregate	DSL	37.2663369	869.9785756	133.4194152	0.031454869
Orange (SC)	2026	LDT1	Aggregate	Aggregate	ELEC	2536.201416	111338.595	12684.63716	0
Orange (SC)	2026	LDT2	Aggregate	Aggregate	GAS	470657.5824	16736777.16	2202167.944	580.8057925
Orange (SC)	2026	LDT2	Aggregate	Aggregate	DSL	3795.675231	147398.6061	18384.63352	3.643916677
Orange (SC)	2026	LDT2	Aggregate	Aggregate	ELEC	9495.505976	287268.0396	47427.90829	0
Orange (SC)	2026	LHD1	Aggregate	Aggregate	GAS	35014.63413	1232632.269	521665.8768	110.2492528
Orange (SC)	2026	LHD1	Aggregate	Aggregate	DSL	28439.60226	1090931.128	357734.4194	47.50681144
Orange (SC)	2026	LHD2	Aggregate	Aggregate	GAS	6400.775591	214888.2583	95362.01915	22.1831608
Orange (SC)	2026	LHD2	Aggregate	Aggregate	DSL	11315.15457	422197.5435	142330.41	20.38394437
Orange (SC)	2026	MCY	Aggregate	Aggregate	GAS	65409.82602	439323.6121	130819.652	11.8621431
Orange (SC)	2026	MDV	Aggregate	Aggregate	GAS	314070.8633	10720008.37	1452974.577	462.5181497
Orange (SC)	2026	MDV	Aggregate	Aggregate	DSL	8670.745819	323109.587	41730.2451	10.5148671
Orange (SC)	2026	MDV	Aggregate	Aggregate	ELEC	6029.465992	187514.7448	30395.27835	0
Orange (SC)	2026	MH	Aggregate	Aggregate	GAS	6578.011152	63108.25908	658.0642356	11.40829125
Orange (SC)	2026	MH	Aggregate	Aggregate	DSL	3219.505926	28663.90358	321.9505926	2.608400405
Orange (SC)	2026	Motor Coach	Aggregate	Aggregate	DSL	150.7610457	19334.84964	2201.111267	2.687633508
Orange (SC)	2026	OBUS	Aggregate	Aggregate	GAS	1034.022105	43039.61398	20688.71427	7.848857929
Orange (SC)	2026	PTO	Aggregate	Aggregate	DSL	0	36923.18112	0	6.766378288
Orange (SC)	2026	SBUS	Aggregate	Aggregate	GAS	642.8313907	25684.51533	2571.325563	2.701674158
Orange (SC)	2026	SBUS	Aggregate	Aggregate	DSL	1192.099266	37568.89034	13756.66025	4.767533897
Orange (SC)	2026	T6 Ag	Aggregate	Aggregate	DSL	0.944009568	3.76694933	4.153642099	0.000450368
Orange (SC)	2026	T6 CAIRP heavy	Aggregate	Aggregate	DSL	107.4321475	19899.90732	1568.509354	1.502237583
Orange (SC)	2026	T6 CAIRP small	Aggregate	Aggregate	DSL	54.37249207	2631.914257	793.8383843	0.217194902
Orange (SC)	2026	T6 instate constructio	Aggregate	Aggregate	DSL	450.937244	28169.2025	2038.669748	2.487091732
Orange (SC)	2026	T6 instate constructio	Aggregate	Aggregate	DSL	2847.752115	149344.1417	12874.57659	12.91146215
Orange (SC)	2026	T6 instate heavy	Aggregate	Aggregate	DSL	5541.351405	720805.9014	63946.42693	57.45807746
Orange (SC)	2026	T6 instate small	Aggregate	Aggregate	DSL	21483.38284	1056945.919	247915.2594	90.99378934
Orange (SC)	2026	T6 OOS heavy	Aggregate	Aggregate	DSL	61.02877482	11290.47236	891.0201124	0.852630796
Orange (SC)	2026	T6 OOS small	Aggregate	Aggregate	DSL	32.74921268	1581.879434	478.1385052	0.130523662
Orange (SC)	2026	T6 Public	Aggregate	Aggregate	DSL	819.8089728	12699.4288	2486.753882	1.459497141
Orange (SC)	2026	T6 utility	Aggregate	Aggregate	DSL	354.8159989	5895.446929	4080.383988	0.546086757
Orange (SC)	2026	T6T5	Aggregate	Aggregate	GAS	7322.231	339211.553	146503.1978	64.03925333
Orange (SC)	2026	T7 Ag	Aggregate	Aggregate	DSL	1.552818778	9.031208786	6.832402623	0.00175448
Orange (SC)	2026	T7 CAIRP	Aggregate	Aggregate	DSL	1008.046738	187862.0045	14717.48238	23.93122994
Orange (SC)	2026	T7 CAIRP constructor	Aggregate	Aggregate	DSL	110.5617945	20234.18285	499.8455744	2.449384276
Orange (SC)	2026	T7 NNOOS	Aggregate	Aggregate	DSL	1221.78975	229029.7267	17838.13035	27.48884688
Orange (SC)	2026	T7 NOOS	Aggregate	Aggregate	DSL	402.1335032	73811.18245	5871.149147	9.668789305
Orange (SC)	2026	T7 POLA	Aggregate	Aggregate	DSL	1463.347071	213842.8836	11121.43774	29.27086047
Orange (SC)	2026	T7 Public	Aggregate	Aggregate	DSL	1058.123608	21434.45673	3209.641607	3.436766129
Orange (SC)	2026	T7 Single	Aggregate	Aggregate	DSL	2598.311559	185952.5205	29984.15515	24.74399446
Orange (SC)	2026	T7 single constructor	Aggregate	Aggregate	DSL	716.3123688	50197.28598	3238.420369	6.638932628
Orange (SC)	2026	T7 SWCV	Aggregate	Aggregate	DSL	214.4942531	8763.88765	836.5275872	4.289060151
Orange (SC)	2026	T7 SWCV	Aggregate	Aggregate	NG	1155.748772	47078.26987	4507.420212	19.60449055
Orange (SC)	2026	T7 tractor	Aggregate	Aggregate	DSL	2325.325018	284422.9706	29531.62773	35.05224721
Orange (SC)	2026	T7 tractor constructio	Aggregate	Aggregate	DSL	609.030811	41408.34152	2753.404617	5.525044803
Orange (SC)	2026	T7 utility	Aggregate	Aggregate	DSL	69.11019209	1401.776202	794.7672091	0.208724572
Orange (SC)	2026	T7IS	Aggregate	Aggregate	GAS	10.89892787	1471.021439	218.0657488	0.307739798
Orange (SC)	2026	UBUS	Aggregate	Aggregate	GAS	217.2792479	20527.18262	869.1169917	4.678421854
Orange (SC)	2026	UBUS	Aggregate	Aggregate	DSL	0	0	0	0
Orange (SC)	2026	UBUS	Aggregate	Aggregate	NG	764.5947123	88555.93202	3058.378849	22.92139757