

Operation-Related Annual Vehicle Fuel/Energy Usage Summary

Existing - Baseline Year 2021

Full VMT Scenario

Year	Gas			Diesel			CNG			Electricity		
	VMT	Gallons	Miles/Gal	VMT	Gallons	Miles/Gal	VMT	Gallons	Miles/Gal	VMT	kWh	Miles/kWh
Existing Baseline	438,953,928	18,508,468	23.72	22,520,736	2,415,660	9.32	1,010,654	217,510	4.65	14,298,235	5,251,990	2.72
Total	438,953,928	18,508,468		22,520,736	2,415,660		1,010,654	217,510		14,298,235	5,251,990	

Existing - Year 2045

Full VMT Scenario

Year	Gas			Diesel			CNG			Electricity		
	VMT	Gallons	Miles/Gal	VMT	Gallons	Miles/Gal	VMT	Gallons	Miles/Gal	VMT	kWh	Miles/kWh
Existing Year 2045	444,769,315	13,654,870	32.57	20,370,173	1,969,775	10.34	658,040	61,381	10.72	69,412,843	19,388,079	3.58
Total	444,769,315	13,654,870		20,370,173	1,969,775		658,040	61,381		69,412,843	19,388,079	

Proposed Project (GP 2045)

Full VMT Scenario

Year	Gas			Diesel			CNG			Electricity		
	VMT	Gallons	Miles/Gal	VMT	Gallons	Miles/Gal	VMT	Gallons	Miles/Gal	VMT	kWh	Miles/kWh
Proposed Project	450,479,771	13,830,186	32.57	20,631,708	1,995,065	10.34	666,488	62,169	10.72	70,304,044	19,637,006	3.58
Total	450,479,771	13,830,186		20,631,708	1,995,065		666,488	62,169		70,304,044	19,637,006	

Net Change

Full VMT Scenario

Year	Gas			Diesel			CNG			Electricity		
	VMT	Gallons	Miles/Gal	VMT	Gallons	Miles/Gal	VMT	Gallons	Miles/Gal	VMT	kWh	Miles/kWh
From Existing Baseline	11,525,843	-4,678,282	8.86	-1,889,028	-420,595	1.02	-344,165	-155,341	6.07	56,005,810	14,385,016	0.86
From Existing 2045	5,710,456	175,317	0.00	261,536	25,290	0.00	8,449	788	0.00	891,201	248,926	0.00

Notes

* VMT based on VMT data provided by Fehr and Peers.

** Fuel consumption rates based on data obtained from EMFAC2021 Web Database, Version 1.0.2. <https://arb.ca.gov/emfac/emissions-inventory/0822370129c8d0d30ded1e7fc2492dfab944d67d>

*** VMT per year based on a conversion of VMT x 347 days per year to account for less travel on weekend, consistent with CARB statewide GHG emissions inventory methodology. California Air Resources Board. 2008, October. Climate Change Proposed Scoping Plan: A Framework for Change.

Existing Baseline Year 2021: Full VMT

Vehicle type	Fleet percent	VMT
LDA	55.28%	263,551,092
LDT1	5.64%	26,878,098
LDT2	18.72%	89,259,603
MDV	12.61%	60,113,401
LHD1	2.49%	11,886,428
LHD2	0.64%	3,049,846
MHD	2.42%	11,532,585
HHD	1.33%	6,363,166
OBUS	0.05%	231,021
UBUS	0.12%	549,150
MCY	0.45%	2,151,197
SBUS	0.07%	321,784
MH	0.10%	488,235
All Other Buses	0.03%	149,623
Motor Coach	0.02%	92,113
PTO	0.03%	166,209
	100%	476,783,552

Vehicle type	Gas percent	Diesel percent	CNG percent	Electricity percent
LDA	94.51%	0.28%	0.00%	5.21%
LDT1	99.84%	0.02%	0.00%	0.14%
LDT2	99.29%	0.39%	0.00%	0.31%
MDV	98.10%	1.50%	0.00%	0.40%
LHD1	67.27%	32.73%	0.00%	0.00%
LHD2	44.26%	55.74%	0.00%	0.00%
MHD	27.76%	71.54%	0.70%	0.00%
HHD	0.05%	93.66%	6.29%	0.00%
OBUS	48.48%	44.78%	6.74%	0.00%
UBUS	27.54%	0.00%	72.41%	0.05%
MCY	100.00%	0.00%	0.00%	0.00%
SBUS	44.08%	29.73%	26.18%	0.00%
MH	68.12%	31.88%	0.00%	0.00%
All Other Buses	0.00%	78.16%	21.84%	0.00%
Motor Coach	0.00%	100.00%	0.00%	0.00%
PTO	0.00%	100.00%	0.00%	0.00%

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Vehicle type	Gasoline			Diesel			CNG			Electricity		
	VMT	mpg	Gallons	VMT	mpg	Gallons	VMT	mpg	Gallons	VMT	m/kWh	kWh
LDA	249,081,278	28.36	8,783,536	731,047	41.89	17,450	0	0	0	13,738,768	2.71	5,064,819
LDT1	26,834,874	23.94	1,120,868	5,089	23.79	214	0	0	0	38,135	2.66	14,339
LDT2	88,629,082	22.74	3,897,664	351,951	30.63	11,490	0	0	0	278,571	3.05	91,428
MDV	58,968,683	18.61	3,168,497	902,238	23.12	39,017	0	0	0	242,480	2.98	81,403
LHD1	7,996,594	12.93	618,377	3,889,834	20.16	192,985	0	0	0	0	0.00	0
LHD2	1,349,713	11.51	117,227	1,700,133	16.79	101,246	0	0	0	0	0.00	0
MHD	3,201,382	5.08	629,836	8,250,933	8.89	927,943	80,270	0	0	0	0.00	0
HHD	3,417	3.86	886	5,959,479	5.85	1,019,390	400,271	5.57	71,820	0	0.00	0
OBUS	111,996	5.01	22,333	103,453	7.62	13,580	15,572	0	0	0	0.00	0
UBUS	151,253	11.49	13,164	0	0.00	0	397,616	2.80	141,967	280	0.47	0
MCY	2,151,197	41.40	51,958	0	0.00	0	0	0	0	0	0.00	0
SBUS	141,858	8.78	16,151	95,676	7.30	13,114	84,250	0	0	0	0.00	0
MH	332,602	4.89	67,972	155,634	10.15	15,331	0	0	0	0	0.00	0
All Other Buses	0	0	0	116,948	9.36	12,489	32,675	9	3,723	0	0.00	0
Motor Coach	0	0	0	92,113	5.58	16,510	0	0	0	0	0.00	0
PTO	0	0	0	166,209	4.76	34,902	0	0	0	0	0.00	0
	438,953,928		18,508,468	22,520,736		2,415,660	1,010,654		217,510	14,298,235		5,251,990

Existing Year 2045: Full VMT

Vehicle type	Fleet percent	VMT
LDA	56.21%	300,820,817
LDT1	6.32%	33,838,406
LDT2	17.62%	94,295,342
MDV	11.31%	60,538,691
LHD1	2.48%	13,256,339
LHD2	0.73%	3,888,155
MHD	2.67%	14,283,672
HHD	1.75%	9,363,385
OBUS	0.04%	235,230
UBUS	0.12%	634,445
MCY	0.48%	2,548,287
SBUS	0.08%	412,815
MH	0.09%	489,166
All Other Buses	0.04%	222,828
Motor Coach	0.02%	125,520
PTO	0.05%	257,274
	100%	535,210,371

Vehicle type	Gas percent	Diesel percent	CNG percent	Electricity percent
LDA	85.54%	0.05%	0.00%	14.41%
LDT1	95.67%	0.00%	0.00%	4.33%
LDT2	95.38%	0.36%	0.00%	4.26%
MDV	93.12%	1.00%	0.00%	5.88%
LHD1	31.48%	23.59%	0.00%	44.94%
LHD2	16.14%	40.46%	0.00%	43.40%
MHD	5.40%	46.21%	0.71%	47.68%
HHD	0.02%	76.99%	4.10%	18.89%
OBUS	19.16%	50.43%	8.20%	22.21%
UBUS	25.85%	0.00%	0.00%	74.15%
MCY	100.00%	0.00%	0.00%	0.00%
SBUS	31.07%	9.18%	24.48%	35.27%
MH	63.23%	36.77%	0.00%	0.00%
All Other Buses	0.00%	76.43%	23.57%	0.00%
Motor Coach	0.00%	100.00%	0.00%	0.00%
PTO	0.00%	51.21%	0.00%	48.79%

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Vehicle type	Gasoline			Diesel			CNG			Electricity		
	VMT	mpg	Gallons	VMT	mpg	Gallons	VMT	mpg	Gallons	VMT	m/kWh	kWh
LDA	257,311,740	37.02	6,951,012	148,782	55.41	2,685	0	0	0	43,360,295	2.69	16,141,527
LDT1	32,374,160	31.88	1,015,370	372	29.75	12	0	0	0	1,463,874	2.78	527,409
LDT2	89,941,362	30.90	2,910,866	341,464	40.07	8,522	0	0	0	4,012,516	2.81	1,427,742
MDV	56,373,753	25.47	2,213,475	605,780	30.70	19,731	0	0	0	3,559,159	2.76	1,291,402
LHD1	4,172,790	17.29	241,315	3,126,633	22.13	141,285	0	0	0	5,956,916	1.78	0
LHD2	627,404	15.34	40,896	1,573,279	18.94	83,081	0	0	0	1,687,472	1.77	0
MHD	771,767	5.98	129,130	6,600,836	10.03	657,839	101,209	0	0	6,809,861	0.95	0
HHD	1,411	5.30	266	7,209,062	7.49	962,708	383,949	6.84	56,133	1,768,964	0.56	0
OBUS	45,073	5.94	7,586	118,628	8.67	13,681	19,292	0	0	52,236	0.00	0
UBUS	163,986	16.12	10,171	0	0.00	0	0	0.00	0	470,458	0.47	0
MCY	2,548,287	43.45	58,653	0	0.00	0	0	0	0	0	0.00	0
SBUS	128,275	9.74	13,164	37,897	8.24	4,601	101,061	0	0	145,582	0.86	0
MH	309,309	4.91	62,968	179,858	10.17	17,682	0	0	0	0	0.00	0
All Other Buses	0	0	0	170,299	10.60	16,069	52,529	10	5,248	0	0.00	0
Motor Coach	0	0	0	125,520	6.52	19,246	0	0	0	0	0.00	0
PTO	0	0	0	131,763	5.82	22,633	0	0	0	125,511	0.48	0
	444,769,315		13,654,870	20,370,173		1,969,775	658,040		61,381	69,412,843		19,388,079

Proposed Project Year 2045 (GP 2045 Update): Full VMT

Vehicle type	Fleet percent	VMT
LDA	56.21%	304,683,097
LDT1	6.32%	34,272,862
LDT2	17.62%	95,506,013
MDV	11.31%	61,315,956
LHD1	2.48%	13,426,539
LHD2	0.73%	3,938,076
MHD	2.67%	14,467,062
HHD	1.75%	9,483,603
OBUS	0.04%	238,250
UBUS	0.12%	642,590
MCY	0.48%	2,581,004
SBUS	0.08%	418,115
MH	0.09%	495,447
All Other Buses	0.04%	225,689
Motor Coach	0.02%	127,132
PTO	0.05%	260,577
	100%	542,082,012

Vehicle type	Gas percent	Diesel percent	CNG percent	Electricity percent
LDA	85.54%	0.05%	0.00%	14.41%
LDT1	95.67%	0.00%	0.00%	4.33%
LDT2	95.38%	0.36%	0.00%	4.26%
MDV	93.12%	1.00%	0.00%	5.88%
LHD1	31.48%	23.59%	0.00%	44.94%
LHD2	16.14%	40.46%	0.00%	43.40%
MHD	5.40%	46.21%	0.71%	47.68%
HHD	0.02%	76.99%	4.10%	18.89%
OBUS	19.16%	50.43%	8.20%	22.21%
UBUS	25.85%	0.00%	0.00%	74.15%
MCY	100.00%	0.00%	0.00%	0.00%
SBUS	31.07%	9.18%	24.48%	35.27%
MH	63.23%	36.77%	0.00%	0.00%
All Other Buses	0.00%	76.43%	23.57%	0.00%
Motor Coach	0.00%	100.00%	0.00%	0.00%
PTO	0.00%	51.21%	0.00%	48.79%

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Vehicle type	VMT	Gasoline		Diesel		CNG		Electricity			
		mpg	Gallons	mpg	Gallons	mpg	Gallons	m/kWh	kWh		
LDA	260,615,401	37.02	7,040,257	55.41	2,719	0	0	0	43,917,004	2.69	16,348,770
LDT1	32,789,816	31.88	1,028,406	29.75	13	0	0	0	1,482,669	2.78	534,180
LDT2	91,096,132	30.90	2,948,239	40.07	8,631	0	0	0	4,064,033	2.81	1,446,073
MDV	57,097,543	25.47	2,241,894	30.70	19,984	0	0	0	3,604,855	2.76	1,307,982
LHD1	4,226,365	17.29	244,413	22.13	143,099	0	0	0	6,033,398	1.78	0
LHD2	635,459	15.34	41,421	18.94	84,148	0	0	0	1,709,138	1.77	0
MHD	781,676	5.98	130,788	10.03	666,285	102,508	0	0	6,897,293	0.95	0
HHD	1,429	5.30	269	7.49	975,069	388,878	6.84	56,854	1,791,676	0.56	0
OBUS	45,652	5.94	7,684	8.67	13,857	19,540	0	0	52,907	0.00	0
UBUS	166,092	16.12	10,301	0.00	0	0	0.00	0	476,498	0.47	0
MCY	2,581,004	43.45	59,406	0.00	0	0	0	0	0	0.00	0
SBUS	129,922	9.74	13,333	8.24	4,660	102,359	0	0	147,451	0.86	0
MH	313,280	4.91	63,776	10.17	17,909	0	0	0	0	0.00	0
All Other Buses	0	0	0	10.60	16,275	53,203	10	5,315	0	0.00	0
Motor Coach	0	0	0	6.52	19,493	0	0	0	0	0.00	0
PTO	0	0	0	5.82	22,924	0	0	0	127,123	0.48	0
	450,479,771		13,830,186		20,631,708		1,995,065		62,169	70,304,044	19,637,006

EMFAC Fuel Usage: Year 2021

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	kWh/day	Miles/kWh
All other buses	0	0	0.00	19,296	2,061	9.36	5,391	614	8.78	0	0	0.00
LDA	43,158,617	1,521,934	28.36	126,669	3,024	41.89	0	0	0.00	2,380,533	877,587	2.71
LDT1	3,577,950	149,448	23.94	679	29	23.79	0	0	0.00	5,085	1,912	2.66
LDT2	20,006,209	879,818	22.74	79,446	2,594	30.63	0	0	0.00	62,882	20,638	3.05
LHD1	1,595,266	123,362	12.93	775,995	38,499	20.16	0	0	0.00	0	0	0.00
LHD2	251,544	21,847	11.51	316,851	18,869	16.79	0	0	0.00	0	0	0.00
MCY	296,200	7,154	41.40	0	0	0.00	0	0	0.00	0	0	0.00
MDV	12,158,138	653,279	18.61	186,023	8,045	23.12	0	0	0.00	49,994	16,784	2.98
MH	63,222	12,920	4.89	29,583	2,914	10.15	0	0	0.00	0	0	0.00
Motor coach	0	0	0.00	16,520	2,961	5.58	0	0	0.00	0	0	0.00
OBUS	38,774	7,732	5.01	0	0	0.00	0	0	0.00	0	0	0.00
PTO	0	0	0.00	43,223	9,076	4.76	0	0	0.00	0	0	0.00
SBUS	28,200	3,211	8.78	19,020	2,607	7.30	16,748	3,984	4.20	0	0	0.00
T6	437,284	86,031	5.08	1,127,012	126,750	8.89	10,964	1,318	8.32	0	0	0.00
T7	667	173	3.86	1,163,075	198,948	5.85	78,118	14,017	5.57	0	0	0.00
UBUS	41,917	3,648	11.49	0	0	0.00	110,193	39,344	2.80	78	165	0.47
Total	81,653,987	3,470,557	23.53	3,903,393	416,375	9.37	221,415	59,276	3.74	2,498,572	917,086	2.72

Source: EMFAC2021 (v1.0.2) Emissions Inventory

Region Type: Sub-Area

Region: Orange (SC)

Calendar Year: 2021

Season: Annual

Vehicle Classification: EMFAC202x Categories

Units: miles/day for CVMT and EVMT, trips/day for Trips, kWh/day for Energy Consumption, tons/day for Emissions, 1000 gallons/day for Fuel Consumption

Region	Calendar Year	Vehicle Category	Model Year	Speed	Fuel	Population	Total VMT	CVMT	EVMT	Trips	Fuel Consumption	Energy Consumption
Orange (SC)	2021	All Other Buses	Aggregate	Aggregate	Diesel	344.1421032	19296.29909	19296.29909	0	3062.865	2.060709127	0
Orange (SC)	2021	All Other Buses	Aggregate	Aggregate	Natural Gas	85.89206567	5391.286554	5391.286554	0	764.4394	0.614299864	0
Orange (SC)	2021	LDA	Aggregate	Aggregate	Gasoline	1098889.828	42599826.69	42599826.69	0	5139771	1502.503187	0
Orange (SC)	2021	LDA	Aggregate	Aggregate	Diesel	3962.001207	126669.3208	126669.3208	0	17174.18	3.023613726	0
Orange (SC)	2021	LDA	Aggregate	Aggregate	Electricity	44294.18587	1886856.709	0	1886857	222787.3	0	728482.4206
Orange (SC)	2021	LDA	Aggregate	Aggregate	Plug-in Hybrid	22574.81209	1052467.152	558790.7337	493676.4	93346.85	19.4308254	149104.9923
Orange (SC)	2021	LDT1	Aggregate	Aggregate	Gasoline	102523.449	3577318.473	3577318.473	0	456678	149.4256675	0
Orange (SC)	2021	LDT1	Aggregate	Aggregate	Diesel	42.58947452	678.5450332	678.5450332	0	128.1372	0.028516564	0
Orange (SC)	2021	LDT1	Aggregate	Aggregate	Electricity	140.3238171	4475.070318	0	4475.07	641.9904	0	1727.74649
Orange (SC)	2021	LDT1	Aggregate	Aggregate	Plug-in Hybrid	23.3316832	1241.103723	631.5140154	609.5897	96.47651	0.021982823	184.1142603
Orange (SC)	2021	LDT2	Aggregate	Aggregate	Gasoline	503142.934	19959930.23	19959930.23	0	2366576	878.2016339	0
Orange (SC)	2021	LDT2	Aggregate	Aggregate	Diesel	1846.123046	79445.67731	79445.67731	0	8963.886	2.593613223	0
Orange (SC)	2021	LDT2	Aggregate	Aggregate	Electricity	531.6371243	19581.85577	0	19581.86	2742.965	0	7560.212505
Orange (SC)	2021	LDT2	Aggregate	Aggregate	Plug-in Hybrid	1738.317605	89578.17416	46278.29716	43299.88	7187.943	1.616658534	13077.8534
Orange (SC)	2021	LHD1	Aggregate	Aggregate	Gasoline	41441.97753	1595265.594	1595265.594	0	617423.7	123.3619418	0
Orange (SC)	2021	LHD1	Aggregate	Aggregate	Diesel	18981.08789	775995.3009	775995.3009	0	238758.2	38.49916886	0
Orange (SC)	2021	LHD2	Aggregate	Aggregate	Gasoline	6812.798295	251543.6671	251543.6671	0	101500.5	21.84737862	0
Orange (SC)	2021	LHD2	Aggregate	Aggregate	Diesel	7682.248801	316850.7942	316850.7942	0	96633.03	18.86902707	0
Orange (SC)	2021	MCY	Aggregate	Aggregate	Gasoline	47706.37507	296199.9543	296199.9543	0	95412.75	7.154178514	0
Orange (SC)	2021	MDV	Aggregate	Aggregate	Gasoline	320297.633	12124116.26	12124116.26	0	1487618	652.0727803	0
Orange (SC)	2021	MDV	Aggregate	Aggregate	Diesel	4611.608949	186023.099	186023.099	0	22034.3	8.044516418	0
Orange (SC)	2021	MDV	Aggregate	Aggregate	Electricity	543.3903066	20034.03727	0	20034.04	2802.968	0	7734.791884
Orange (SC)	2021	MDV	Aggregate	Aggregate	Plug-in Hybrid	1395.731207	63982.23241	34021.8883	29960.34	5771.349	1.206497487	9048.916881
Orange (SC)	2021	MH	Aggregate	Aggregate	Gasoline	6751.780832	63221.85477	63221.85477	0	675.4482	12.92027062	0
Orange (SC)	2021	MH	Aggregate	Aggregate	Diesel	2890.685667	29583.26588	29583.26588	0	289.0686	2.914183895	0
Orange (SC)	2021	Motor Coach	Aggregate	Aggregate	Diesel	115.3251191	16520.11962	16520.11962	0	2650.171	2.960991456	0
Orange (SC)	2021	OBUS	Aggregate	Aggregate	Gasoline	922.0645125	38774.08914	38774.08914	0	18448.67	7.731963734	0
Orange (SC)	2021	PTO	Aggregate	Aggregate	Diesel	0	43222.80553	43222.80553	0	0	9.076207341	0
Orange (SC)	2021	SBUS	Aggregate	Aggregate	Gasoline	640.7909102	28200.49984	28200.49984	0	2563.164	3.21064936	0
Orange (SC)	2021	SBUS	Aggregate	Aggregate	Diesel	918.1496099	19019.80663	19019.80663	0	13294.81	2.607025361	0
Orange (SC)	2021	SBUS	Aggregate	Aggregate	Natural Gas	646.3086951	16748.32693	16748.32693	0	9358.55	3.983534496	0
Orange (SC)	2021	T6 CAIRP Class 4	Aggregate	Aggregate	Diesel	8.650352331	585.3759986	585.3759986	0	198.7851	0.064719963	0
Orange (SC)	2021	T6 CAIRP Class 5	Aggregate	Aggregate	Diesel	11.68009798	803.0306056	803.0306056	0	268.4087	0.088363357	0
Orange (SC)	2021	T6 CAIRP Class 6	Aggregate	Aggregate	Diesel	33.84886606	2098.341947	2098.341947	0	777.8469	0.229409531	0
Orange (SC)	2021	T6 CAIRP Class 7	Aggregate	Aggregate	Diesel	62.14449237	13148.4708	13148.4708	0	1428.08	1.344424602	0
Orange (SC)	2021	T6 CAIRP Class 7	Aggregate	Aggregate	Natural Gas	0.063565388	13.39050652	13.39050652	0	1.460733	0.001356699	0
Orange (SC)	2021	T6 Instate Delivery Class 4	Aggregate	Aggregate	Diesel	2392.72459	83576.79542	83576.79542	0	34144.18	9.539795897	0
Orange (SC)	2021	T6 Instate Delivery Class 4	Aggregate	Aggregate	Natural Gas	9.064050694	305.9698703	305.9698703	0	129.344	0.038070459	0
Orange (SC)	2021	T6 Instate Delivery Class 5	Aggregate	Aggregate	Diesel	1914.583405	68173.39953	68173.39953	0	27321.11	7.758600489	0
Orange (SC)	2021	T6 Instate Delivery Class 5	Aggregate	Aggregate	Natural Gas	5.311481859	180.9003583	180.9003583	0	75.79485	0.022431767	0
Orange (SC)	2021	T6 Instate Delivery Class 6	Aggregate	Aggregate	Diesel	5986.689205	210524.4622	210524.4622	0	85430.05	24.00826962	0
Orange (SC)	2021	T6 Instate Delivery Class 6	Aggregate	Aggregate	Natural Gas	28.0782458	904.6124395	904.6124395	0	400.6766	0.113609404	0
Orange (SC)	2021	T6 Instate Delivery Class 7	Aggregate	Aggregate	Diesel	805.7337173	44323.61942	44323.61942	0	11497.82	4.810794693	0
Orange (SC)	2021	T6 Instate Delivery Class 7	Aggregate	Aggregate	Natural Gas	18.68744552	1045.33432	1045.33432	0	266.6698	0.123435576	0
Orange (SC)	2021	T6 Instate Other Class 4	Aggregate	Aggregate	Diesel	2176.780504	88472.00811	88472.00811	0	25163.58	10.00702045	0
Orange (SC)	2021	T6 Instate Other Class 4	Aggregate	Aggregate	Natural Gas	6.540029488	276.2179098	276.2179098	0	75.60274	0.033870454	0
Orange (SC)	2021	T6 Instate Other Class 5	Aggregate	Aggregate	Diesel	4764.42967	214291.3282	214291.3282	0	55076.81	24.26483106	0
Orange (SC)	2021	T6 Instate Other Class 5	Aggregate	Aggregate	Natural Gas	12.67962114	551.2907324	551.2907324	0	146.5764	0.067027896	0
Orange (SC)	2021	T6 Instate Other Class 6	Aggregate	Aggregate	Diesel	3994.613141	174634.77	174634.77	0	46177.73	19.72207581	0
Orange (SC)	2021	T6 Instate Other Class 6	Aggregate	Aggregate	Natural Gas	12.64120771	540.9472574	540.9472574	0	146.1324	0.065704649	0
Orange (SC)	2021	T6 Instate Other Class 7	Aggregate	Aggregate	Diesel	1931.423319	97438.04727	97438.04727	0	22327.25	10.87396791	0
Orange (SC)	2021	T6 Instate Other Class 7	Aggregate	Aggregate	Natural Gas	40.1104551	2170.056862	2170.056862	0	463.6769	0.257523854	0
Orange (SC)	2021	T6 Instate Tractor Class 6	Aggregate	Aggregate	Diesel	30.73940598	1592.181109	1592.181109	0	355.3475	0.176806854	0
Orange (SC)	2021	T6 Instate Tractor Class 6	Aggregate	Aggregate	Natural Gas	0.135589043	6.521707184	6.521707184	0	1.567409	0.000784448	0
Orange (SC)	2021	T6 Instate Tractor Class 7	Aggregate	Aggregate	Diesel	1170.020907	78711.73003	78711.73003	0	13525.44	8.294146784	0
Orange (SC)	2021	T6 Instate Tractor Class 7	Aggregate	Aggregate	Natural Gas	23.81996644	1664.970023	1664.970023	0	275.3588	0.192117871	0
Orange (SC)	2021	T6 OOS Class 4	Aggregate	Aggregate	Diesel	5.058042708	340.0388005	340.0388005	0	116.2338	0.037592874	0
Orange (SC)	2021	T6 OOS Class 5	Aggregate	Aggregate	Diesel	6.806081109	466.4720872	466.4720872	0	156.4037	0.051331206	0
Orange (SC)	2021	T6 OOS Class 6	Aggregate	Aggregate	Diesel	19.76938102	1218.90491	1218.90491	0	454.3004	0.133282097	0
Orange (SC)	2021	T6 OOS Class 7	Aggregate	Aggregate	Diesel	35.10749105	8862.954389	8862.954389	0	806.7701	0.904305331	0

Orange (SC)	2021 T6 Utility Class 7	Aggregate	Aggregate	Diesel	23.01625121	1121.847819	1121.847819	0	294.608	0.121180168	0
Orange (SC)	2021 T6 Utility Class 7	Aggregate	Aggregate	Natural Gas	0.34653994	16.17501374	16.17501374	0	4.435711	0.00181568	0
Orange (SC)	2021 T6TS	Aggregate	Aggregate	Gasoline	7844.68263	437283.6243	437283.6243	0	156956.4	86.03064823	0
Orange (SC)	2021 T7 CAIRP Class 8	Aggregate	Aggregate	Diesel	1009.632134	213841.6671	213841.6671	0	23201.35	35.54677905	0
Orange (SC)	2021 T7 CAIRP Class 8	Aggregate	Aggregate	Natural Gas	4.173472585	891.3759355	891.3759355	0	95.9064	0.162436369	0
Orange (SC)	2021 T7 NNOOS Class 8	Aggregate	Aggregate	Diesel	924.1671914	254471.4891	254471.4891	0	21237.36	42.46802984	0
Orange (SC)	2021 T7 NOOS Class 8	Aggregate	Aggregate	Diesel	379.7346919	92398.85915	92398.85915	0	8726.303	15.45434566	0
Orange (SC)	2021 T7 POLA Class 8	Aggregate	Aggregate	Diesel	1194.72132	155551.1046	155551.1046	0	19545.64	26.14415457	0
Orange (SC)	2021 T7 POLA Class 8	Aggregate	Aggregate	Natural Gas	51.64008595	6724.911073	6724.911073	0	844.8318	1.267212763	0
Orange (SC)	2021 T7 Public Class 8	Aggregate	Aggregate	Diesel	857.1563997	34082.42324	34082.42324	0	4397.212	6.02644258	0
Orange (SC)	2021 T7 Public Class 8	Aggregate	Aggregate	Natural Gas	177.103486	9591.891412	9591.891412	0	908.5409	1.627276037	0
Orange (SC)	2021 T7 Single Concrete/Transit I	Aggregate	Aggregate	Diesel	282.8273584	19804.7702	19804.7702	0	2664.234	3.318328059	0
Orange (SC)	2021 T7 Single Concrete/Transit I	Aggregate	Aggregate	Natural Gas	14.79269714	1110.160818	1110.160818	0	139.3472	0.192940233	0
Orange (SC)	2021 T7 Single Dump Class 8	Aggregate	Aggregate	Diesel	951.8387431	59469.89205	59469.89205	0	8966.321	9.991718273	0
Orange (SC)	2021 T7 Single Dump Class 8	Aggregate	Aggregate	Natural Gas	64.14711484	4469.401376	4469.401376	0	604.2658	0.797011805	0
Orange (SC)	2021 T7 Single Other Class 8	Aggregate	Aggregate	Diesel	1985.115063	123227.6299	123227.6299	0	18699.78	20.63616996	0
Orange (SC)	2021 T7 Single Other Class 8	Aggregate	Aggregate	Natural Gas	140.2673336	9596.833774	9596.833774	0	1321.318	1.693276578	0
Orange (SC)	2021 T7 SWCV Class 8	Aggregate	Aggregate	Diesel	352.2641599	22871.65929	22871.65929	0	1620.415	8.567342296	0
Orange (SC)	2021 T7 SWCV Class 8	Aggregate	Aggregate	Natural Gas	623.9343474	40316.49744	40316.49744	0	2870.098	7.297212348	0
Orange (SC)	2021 T7 Tractor Class 8	Aggregate	Aggregate	Diesel	2116.069516	183938.2786	183938.2786	0	30746.49	30.23394931	0
Orange (SC)	2021 T7 Tractor Class 8	Aggregate	Aggregate	Natural Gas	58.39304286	5417.327424	5417.327424	0	848.4509	0.979256044	0
Orange (SC)	2021 T7 Utility Class 8	Aggregate	Aggregate	Diesel	70.93342773	3417.580883	3417.580883	0	907.9479	0.560951689	0
Orange (SC)	2021 T7IS	Aggregate	Aggregate	Gasoline	12.89761328	666.7832283	666.7832283	0	258.0554	0.172963818	0
Orange (SC)	2021 UBUS	Aggregate	Aggregate	Gasoline	254.0729926	41917.28865	41917.28865	0	1016.292	3.648052629	0
Orange (SC)	2021 UBUS	Aggregate	Aggregate	Electricity	4.037405551	77.72005682	0	77.72006	16.14962	0	165.3142978
Orange (SC)	2021 UBUS	Aggregate	Aggregate	Natural Gas	573.2164337	110192.7807	110192.7807	0	2292.866	39.34375732	0

EMFAC Fuel Usage: Year 2045

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	kWh/day	Miles/kWh
All other buses	0	0	0.00	20,914	1,973	10.60	6,451	644	10.01	0	0	0.00
LDA	42,812,884	1,156,546	37.02	24,755	447	55.41	0	0	0.00	7,214,514	2,685,712	2.69
LDT1	3,096,691	97,123	31.88	36	1	29.75	0	0	0.00	140,024	50,448	2.78
LDT2	24,178,583	782,517	30.90	91,794	2,291	40.07	0	0	0.00	1,078,669	383,814	2.81
LHD1	1,027,122	59,399	17.29	769,613	34,777	22.13	0	0	0.00	1,466,281	825,193	1.78
LHD2	142,235	9,271	15.34	356,668	18,835	18.94	0	0	0.00	382,556	215,537	1.77
MCY	377,629	8,692	43.45	0	0	0.00	0	0	0.00	0	0	0.00
MDV	13,680,224	537,144	25.47	147,005	4,788	30.70	0	0	0.00	863,701	313,385	2.76
MH	47,365	9,642	4.91	27,542	2,708	10.17	0	0	0.00	0	0	0.00
Motor coach	0	0	0.00	18,752	2,875	6.52	0	0	0.00	0	0	0.00
OBUS	15,071	2,537	5.94	0	0	0.00	0	0	0.00	17,466	18,206	0.96
PTO	0	0	0.00	35,218	6,050	5.82	0	0	0.00	33,547	69,493	0.48
SBUS	19,804	2,032	9.74	5,851	710	8.24	15,603	3,379	4.62	22,476	25,989	0.86
T6	101,880	17,046	5.98	871,369	86,841	10.03	13,360	1,527	8.75	898,963	943,823	0.95
T7	327	62	5.30	1,670,534	223,086	7.49	88,971	13,008	6.84	409,917	733,360	0.56
UBUS	57,757	3,582	16.12	0	0	0.00	0	0	0.00	165,697	352,519	0.47
Total	85,557,571	2,685,594	31.86	4,040,052	385,381	10.48	124,385	18,558	6.70	12,693,812	6,617,479	1.92

Source: EMFAC2021 (v1.0.2) Emissions Inventory

Region Type: Sub-Area

Region: Orange (SC)

Calendar Year: 2045

Season: Annual

Vehicle Classification: EMFAC202x Categories

Units: miles/day for CVMT and EVMT, trips/day for Trips, kWh/day for Energy Consumption, tons/day for Emissions, 1000 gallons/day for Fuel Consumption

Region	Calendar Year	Vehicle Category	Model Year	Speed	Fuel	Population	Total VMT	CVMT	EVMT	Trips	Fuel Consumption	Energy Consumption
Orange (SC)	2045	All Other Buses	Aggregate	Aggregate	Diesel	409.06532	20913.64387	20913.64387	0	3640.681323	1.973329581	0
Orange (SC)	2045	All Other Buses	Aggregate	Aggregate	Natural Gas	123.6361	6450.842389	6450.842389	0	1100.361323	0.644467599	0
Orange (SC)	2045	LDA	Aggregate	Aggregate	Gasoline	1053319	41995090.86	41995090.86	0	4945583.181	1128.091897	0
Orange (SC)	2045	LDA	Aggregate	Aggregate	Diesel	679.32997	24755.14112	24755.14112	0	3081.023357	0.446735401	0
Orange (SC)	2045	LDA	Aggregate	Aggregate	Electricity	144842.71	6028525.188	0	6028525	686392.2523	0	2327508.284
Orange (SC)	2045	LDA	Aggregate	Aggregate	Plug-in Hybrid	49485.105	2003781.869	817792.6936	1185989	204620.9098	28.45405638	358204.079
Orange (SC)	2045	LDT1	Aggregate	Aggregate	Gasoline	83122.444	3067175.987	3067175.987	0	376080.0051	96.08918919	0
Orange (SC)	2045	LDT1	Aggregate	Aggregate	Diesel	0.9107541	35.55403921	35.55403921	0	4.246627151	0.001195059	0
Orange (SC)	2045	LDT1	Aggregate	Aggregate	Electricity	2348.5909	97044.67421	0	97044.67	11108.32776	0	37467.25378
Orange (SC)	2045	LDT1	Aggregate	Aggregate	Plug-in Hybrid	1796.8347	72494.21372	29514.73552	42979.48	7429.911514	1.034120987	12981.08341
Orange (SC)	2045	LDT2	Aggregate	Aggregate	Gasoline	610149.14	23911281.12	23911281.12	0	2837183.36	773.1215265	0
Orange (SC)	2045	LDT2	Aggregate	Aggregate	Diesel	2337.6936	91794.49758	91794.49758	0	10889.73644	2.290813443	0
Orange (SC)	2045	LDT2	Aggregate	Aggregate	Electricity	23920.815	690328.8106	0	690328.8	113500.9355	0	266523.8968
Orange (SC)	2045	LDT2	Aggregate	Aggregate	Plug-in Hybrid	16404.816	655641.5376	267301.4647	388340.1	67833.91485	9.395174948	117290.2764
Orange (SC)	2045	LHD1	Aggregate	Aggregate	Gasoline	28028.457	1027122.314	1027122.314	0	417582.2466	59.39906203	0
Orange (SC)	2045	LHD1	Aggregate	Aggregate	Diesel	21564.906	769613.3329	769613.3329	0	271259.3854	34.77696716	0
Orange (SC)	2045	LHD1	Aggregate	Aggregate	Electricity	32280.931	1466280.92	0	1466281	449710.853	0	825193.1852
Orange (SC)	2045	LHD2	Aggregate	Aggregate	Gasoline	4126.5143	142234.6482	142234.6482	0	61478.9149	9.271169326	0
Orange (SC)	2045	LHD2	Aggregate	Aggregate	Diesel	10358.615	356668.1211	356668.1211	0	130298.347	18.83472492	0
Orange (SC)	2045	LHD2	Aggregate	Aggregate	Electricity	8793.7774	382556.06	0	382556.1	116379.6805	0	215536.5413
Orange (SC)	2045	MCY	Aggregate	Aggregate	Gasoline	64546.688	377628.7202	377628.7202	0	129093.3753	8.69177562	0
Orange (SC)	2045	MDV	Aggregate	Aggregate	Gasoline	355590.36	13515483.99	13515483.99	0	1639263.291	531.2721865	0
Orange (SC)	2045	MDV	Aggregate	Aggregate	Diesel	3907.347	147004.5775	147004.5775	0	17939.04637	4.788122165	0
Orange (SC)	2045	MDV	Aggregate	Aggregate	Electricity	21911.562	624857.994	0	624858	103518.9819	0	241246.758
Orange (SC)	2045	MDV	Aggregate	Aggregate	Plug-in Hybrid	10391.916	403583.0561	164739.6994	238843.4	42970.57277	5.871910258	72137.81239
Orange (SC)	2045	MH	Aggregate	Aggregate	Gasoline	4301.5516	47365.39933	47365.39933	0	430.3272221	9.642420472	0
Orange (SC)	2045	MH	Aggregate	Aggregate	Diesel	2907.2276	27542.1529	27542.1529	0	290.7227563	2.707640124	0
Orange (SC)	2045	Motor Coach	Aggregate	Aggregate	Diesel	147.65777	18752.40522	18752.40522	0	3393.175664	2.875278993	0
Orange (SC)	2045	OBUS	Aggregate	Aggregate	Gasoline	477.17153	15071.16759	15071.16759	0	9547.247987	2.536585535	0
Orange (SC)	2045	OBUS	Aggregate	Aggregate	Electricity	302.32636	17466.28665	0	17466.29	6048.945763	0	18205.86775
Orange (SC)	2045	PTO	Aggregate	Aggregate	Diesel	0	35217.98662	35217.98662	0	0	6.049522217	0
Orange (SC)	2045	PTO	Aggregate	Aggregate	Electricity	0	33547.10885	0	33547.11	0	0	69493.46559
Orange (SC)	2045	SBUS	Aggregate	Aggregate	Gasoline	445.93357	19804.07941	19804.07941	0	1783.734283	2.032286182	0
Orange (SC)	2045	SBUS	Aggregate	Aggregate	Diesel	289.97698	5850.843356	5850.843356	0	4198.866601	0.71036543	0
Orange (SC)	2045	SBUS	Aggregate	Aggregate	Electricity	755.70297	22476.06333	0	22476.06	9016.65408	0	25989.1022
Orange (SC)	2045	SBUS	Aggregate	Aggregate	Natural Gas	775.26562	15602.58757	15602.58757	0	11225.84619	3.378683696	0
Orange (SC)	2045	T6 CAIRP Class 4	Aggregate	Aggregate	Diesel	5.1521528	363.3311112	363.3311112	0	118.396471	0.035296457	0
Orange (SC)	2045	T6 CAIRP Class 4	Aggregate	Aggregate	Electricity	6.714788	507.1907222	0	507.1907	154.3058293	0	534.9926466
Orange (SC)	2045	T6 CAIRP Class 5	Aggregate	Aggregate	Diesel	6.3385308	499.3815935	499.3815935	0	145.6594388	0.048495916	0
Orange (SC)	2045	T6 CAIRP Class 5	Aggregate	Aggregate	Electricity	8.2244595	694.8178214	0	694.8178	188.9980785	0	732.9046233
Orange (SC)	2045	T6 CAIRP Class 6	Aggregate	Aggregate	Diesel	28.688505	1297.978794	1297.978794	0	659.2618446	0.126476192	0
Orange (SC)	2045	T6 CAIRP Class 6	Aggregate	Aggregate	Electricity	37.715396	1822.498444	0	1822.498	866.6997928	0	1922.399648
Orange (SC)	2045	T6 CAIRP Class 7	Aggregate	Aggregate	Diesel	74.505643	14884.71922	14884.71922	0	1712.139667	1.270230716	0
Orange (SC)	2045	T6 CAIRP Class 7	Aggregate	Aggregate	Electricity	22.484215	4678.693284	0	4678.693	516.6872631	0	4935.158301
Orange (SC)	2045	T6 CAIRP Class 7	Aggregate	Aggregate	Natural Gas	0.0490715	9.797987795	9.797987795	0	1.127662781	0.000911115	0
Orange (SC)	2045	T6 Instate Delivery Class 4	Aggregate	Aggregate	Diesel	1831.8223	60041.22622	60041.22622	0	26140.1042	6.095761032	0
Orange (SC)	2045	T6 Instate Delivery Class 4	Aggregate	Aggregate	Electricity	1817.4241	64256.80409	0	64256.8	25934.64166	0	67429.39216
Orange (SC)	2045	T6 Instate Delivery Class 4	Aggregate	Aggregate	Natural Gas	13.45371	445.3462676	445.3462676	0	191.984448	0.051287358	0
Orange (SC)	2045	T6 Instate Delivery Class 5	Aggregate	Aggregate	Diesel	1495.3932	49002.8745	49002.8745	0	21339.26054	4.974659314	0
Orange (SC)	2045	T6 Instate Delivery Class 5	Aggregate	Aggregate	Electricity	1477.7612	52287.84319	0	52287.84	21087.65214	0	54869.48089
Orange (SC)	2045	T6 Instate Delivery Class 5	Aggregate	Aggregate	Natural Gas	10.862858	360.0342998	360.0342998	0	155.0129874	0.041423823	0
Orange (SC)	2045	T6 Instate Delivery Class 6	Aggregate	Aggregate	Diesel	4620.1378	151411.7773	151411.7773	0	65929.36656	15.37796541	0
Orange (SC)	2045	T6 Instate Delivery Class 6	Aggregate	Aggregate	Electricity	4584.1963	161900.1551	0	161900.2	65416.48134	0	169893.7444
Orange (SC)	2045	T6 Instate Delivery Class 6	Aggregate	Aggregate	Natural Gas	33.393642	1107.562329	1107.562329	0	476.5272676	0.127395381	0
Orange (SC)	2045	T6 Instate Delivery Class 7	Aggregate	Aggregate	Diesel	830.04119	41882.64241	41882.64241	0	11844.68783	4.256945901	0
Orange (SC)	2045	T6 Instate Delivery Class 7	Aggregate	Aggregate	Electricity	453.45737	24506.10151	0	24506.1	6470.836657	0	25716.05533
Orange (SC)	2045	T6 Instate Delivery Class 7	Aggregate	Aggregate	Natural Gas	21.609179	1080.13913	1080.13913	0	308.3629794	0.121234568	0
Orange (SC)	2045	T6 Instate Other Class 4	Aggregate	Aggregate	Diesel	1604.4211	61638.71951	61638.71951	0	18547.10806	6.214573837	0
Orange (SC)	2045	T6 Instate Other Class 4	Aggregate	Aggregate	Electricity	1588.9722	69876.43536	0	69876.44	18368.51904	0	73349.35093
Orange (SC)	2045	T6 Instate Other Class 4	Aggregate	Aggregate	Natural Gas	11.749331	463.724713	463.724713	0	135.8222697	0.052364259	0
Orange (SC)	2045	T6 Instate Other Class 5	Aggregate	Aggregate	Diesel	3888.571	149295.5742	149295.5742	0	44951.88028	15.05999909	0
Orange (SC)	2045	T6 Instate Other Class 5	Aggregate	Aggregate	Electricity	3837.7358	169083.7524	0	169083.8	44364.22614	0	177487.3522
Orange (SC)	2045	T6 Instate Other Class 5	Aggregate	Aggregate	Natural Gas	28.216259	1116.50332	1116.50332	0	326.1799598	0.125939167	0
Orange (SC)	2045	T6 Instate Other Class 6	Aggregate	Aggregate	Diesel	3172.9772	121788.314	121788.314	0	36679.6163	12.28010862	0
Orange (SC)	2045	T6 Instate Other Class 6	Aggregate	Aggregate	Electricity	3132.2424	137805.4417	0	137805.4	36208.72261	0	144654.4841
Orange (SC)	2045	T6 Instate Other Class 6	Aggregate	Aggregate	Natural Gas	23.104389	912.8022784	912.8022784	0	270.0867424	0.102961855	

Orange (SC)	2045 T6 Instate Tractor Class 7	Aggregate	Aggregate	Diesel	1683.1002	95734.63435	95734.63435	0	19456.63787	8.75087654	0
Orange (SC)	2045 T6 Instate Tractor Class 7	Aggregate	Aggregate	Electricity	306.75379	21578.31865	0	21578.32	3546.073837	0	22650.77861
Orange (SC)	2045 T6 Instate Tractor Class 7	Aggregate	Aggregate	Natural Gas	39.174679	2216.498946	2216.498946	0	452.8592927	0.23817573	0
Orange (SC)	2045 T6 OOS Class 4	Aggregate	Aggregate	Diesel	7.0158107	505.6770362	505.6770362	0	161.2233302	0.046096214	0
Orange (SC)	2045 T6 OOS Class 5	Aggregate	Aggregate	Diesel	8.6320171	693.6979609	693.6979609	0	198.3637533	0.063237341	0
Orange (SC)	2045 T6 OOS Class 6	Aggregate	Aggregate	Diesel	39.049342	1812.652619	1812.652619	0	897.3538787	0.165557308	0
Orange (SC)	2045 T6 OOS Class 7	Aggregate	Aggregate	Diesel	48.00223	13180.23855	13180.23855	0	1103.09124	1.07507164	0
Orange (SC)	2045 T6 Public Class 4	Aggregate	Aggregate	Diesel	75.341478	2570.185041	2570.185041	0	386.5017846	0.272063197	0
Orange (SC)	2045 T6 Public Class 4	Aggregate	Aggregate	Electricity	65.649023	2598.089126	0	2598.089	336.7794903	0	2735.568432
Orange (SC)	2045 T6 Public Class 4	Aggregate	Aggregate	Natural Gas	14.815004	504.2872329	504.2872329	0	76.00097293	0.061363146	0
Orange (SC)	2045 T6 Public Class 5	Aggregate	Aggregate	Diesel	72.601092	2477.727585	2477.727585	0	372.4435996	0.262268142	0
Orange (SC)	2045 T6 Public Class 5	Aggregate	Aggregate	Electricity	63.429599	2506.786443	0	2506.786	325.3938405	0	2639.434417
Orange (SC)	2045 T6 Public Class 5	Aggregate	Aggregate	Natural Gas	15.344512	516.3684078	516.3684078	0	78.71734738	0.062864777	0
Orange (SC)	2045 T6 Public Class 6	Aggregate	Aggregate	Diesel	114.69233	3903.048086	3903.048086	0	588.3716491	0.413186477	0
Orange (SC)	2045 T6 Public Class 6	Aggregate	Aggregate	Electricity	98.91894	3896.246668	0	3896.247	507.454164	0	4102.418691
Orange (SC)	2045 T6 Public Class 6	Aggregate	Aggregate	Natural Gas	22.651273	768.6239882	768.6239882	0	116.2010329	0.093490036	0
Orange (SC)	2045 T6 Public Class 7	Aggregate	Aggregate	Diesel	226.75038	9397.064171	9397.064171	0	1163.229438	0.966160122	0
Orange (SC)	2045 T6 Public Class 7	Aggregate	Aggregate	Electricity	157.32107	7594.45786	0	7594.458	807.0570777	0	7996.322748
Orange (SC)	2045 T6 Public Class 7	Aggregate	Aggregate	Natural Gas	43.552471	1807.704261	1807.704261	0	223.4241746	0.211519879	0
Orange (SC)	2045 T6 Utility Class 5	Aggregate	Aggregate	Diesel	49.8251	1973.495602	1973.495602	0	637.7612772	0.195020163	0
Orange (SC)	2045 T6 Utility Class 5	Aggregate	Aggregate	Electricity	68.265536	2812.644246	0	2812.644	873.7988627	0	2961.476854
Orange (SC)	2045 T6 Utility Class 5	Aggregate	Aggregate	Natural Gas	0.2864084	11.34419818	11.34419818	0	3.666028095	0.001216481	0
Orange (SC)	2045 T6 Utility Class 6	Aggregate	Aggregate	Diesel	9.422702	373.1013657	373.1013657	0	120.610586	0.036872058	0
Orange (SC)	2045 T6 Utility Class 6	Aggregate	Aggregate	Electricity	12.896939	531.3813156	0	531.3813	165.080823	0	559.4996484
Orange (SC)	2045 T6 Utility Class 6	Aggregate	Aggregate	Natural Gas	0.0541643	2.144689773	2.144689773	0	0.693302984	0.000229995	0
Orange (SC)	2045 T6 Utility Class 7	Aggregate	Aggregate	Diesel	10.475042	510.9668634	510.9668634	0	134.080539	0.050190401	0
Orange (SC)	2045 T6 Utility Class 7	Aggregate	Aggregate	Electricity	14.362621	747.5157914	0	747.5158	183.8415438	0	787.0709981
Orange (SC)	2045 T6 Utility Class 7	Aggregate	Aggregate	Natural Gas	0.0602134	2.937178759	2.937178759	0	0.770731997	0.000308792	0
Orange (SC)	2045 T6TS	Aggregate	Aggregate	Gasoline	2636.7267	101880.1859	101880.1859	0	52755.62781	17.04628514	0
Orange (SC)	2045 T6TS	Aggregate	Aggregate	Electricity	1722.925	106936.0497	0	106936	34472.28311	0	112424.9489
Orange (SC)	2045 T7 CAIRP Class 8	Aggregate	Aggregate	Diesel	1475.815	313156.8637	313156.8637	0	33914.22839	41.65409949	0
Orange (SC)	2045 T7 CAIRP Class 8	Aggregate	Aggregate	Electricity	415.55407	91444.00049	0	91444	9549.432515	0	163786.854
Orange (SC)	2045 T7 CAIRP Class 8	Aggregate	Aggregate	Natural Gas	5.400182	1145.828434	1145.828434	0	124.0961829	0.182435688	0
Orange (SC)	2045 T7 NNOOS Class 8	Aggregate	Aggregate	Diesel	1652.5678	480834.0794	480834.0794	0	37976.00743	60.7997393	0
Orange (SC)	2045 T7 NOOS Class 8	Aggregate	Aggregate	Diesel	711.57182	174591.3483	174591.3483	0	16351.9205	22.32671747	0
Orange (SC)	2045 T7 POLA Class 8	Aggregate	Aggregate	Diesel	1296.4117	230595.1325	230595.1325	0	21209.2956	31.54893418	0
Orange (SC)	2045 T7 POLA Class 8	Aggregate	Aggregate	Electricity	238.59169	41938.83729	0	41938.84	3903.360095	0	75085.07947
Orange (SC)	2045 T7 POLA Class 8	Aggregate	Aggregate	Natural Gas	50.754754	9025.696248	9025.696248	0	830.3477706	1.291730928	0
Orange (SC)	2045 T7 Public Class 8	Aggregate	Aggregate	Diesel	318.06004	12178.44807	12178.44807	0	1631.648006	1.90258506	0
Orange (SC)	2045 T7 Public Class 8	Aggregate	Aggregate	Electricity	405.47344	19255.05101	0	19255.05	2080.078772	0	34449.63315
Orange (SC)	2045 T7 Public Class 8	Aggregate	Aggregate	Natural Gas	411.37619	16976.46696	16976.46696	0	2110.359876	2.628529053	0
Orange (SC)	2045 T7 Single Concrete/Transit	Aggregate	Aggregate	Diesel	143.97107	9440.211053	9440.211053	0	1356.20748	1.360210737	0
Orange (SC)	2045 T7 Single Concrete/Transit	Aggregate	Aggregate	Electricity	185.87127	13322.46183	0	13322.46	1750.907385	0	23811.88321
Orange (SC)	2045 T7 Single Concrete/Transit	Aggregate	Aggregate	Natural Gas	11.220051	736.2124082	736.2124082	0	105.6928785	0.112603151	0
Orange (SC)	2045 T7 Single Dump Class 8	Aggregate	Aggregate	Diesel	748.50184	36159.5252	36159.5252	0	7050.8873	5.449693183	0
Orange (SC)	2045 T7 Single Dump Class 8	Aggregate	Aggregate	Electricity	510.8153	32823.87261	0	32823.87	4811.88017	0	58667.70204
Orange (SC)	2045 T7 Single Dump Class 8	Aggregate	Aggregate	Natural Gas	59.388969	2855.334082	2855.334082	0	559.4440852	0.465150504	0
Orange (SC)	2045 T7 Single Other Class 8	Aggregate	Aggregate	Diesel	2761.5375	118820.2231	118820.2231	0	26013.68328	17.79440005	0
Orange (SC)	2045 T7 Single Other Class 8	Aggregate	Aggregate	Electricity	2222.6087	122803.6112	0	122803.6	20936.97352	0	219492.86
Orange (SC)	2045 T7 Single Other Class 8	Aggregate	Aggregate	Natural Gas	218.35024	9353.31424	9353.31424	0	2056.859298	1.532379398	0
Orange (SC)	2045 T7 SWCV Class 8	Aggregate	Aggregate	Diesel	31.679142	2056.930388	2056.930388	0	145.7240531	0.754081844	0
Orange (SC)	2045 T7 SWCV Class 8	Aggregate	Aggregate	Electricity	421.51326	27220.3776	0	27220.38	1938.961008	0	48587.38479
Orange (SC)	2045 T7 SWCV Class 8	Aggregate	Aggregate	Natural Gas	628.89861	40762.40635	40762.40635	0	2892.933585	5.472344198	0
Orange (SC)	2045 T7 Tractor Class 8	Aggregate	Aggregate	Diesel	4412.2865	290537.8521	290537.8521	0	64110.52277	39.17524041	0
Orange (SC)	2045 T7 Tractor Class 8	Aggregate	Aggregate	Electricity	806.59881	59141.16258	0	59141.16	11719.88066	0	105960.0817
Orange (SC)	2045 T7 Tractor Class 8	Aggregate	Aggregate	Natural Gas	123.81877	8115.993514	8115.993514	0	1799.086789	1.322330566	0
Orange (SC)	2045 T7 Utility Class 8	Aggregate	Aggregate	Diesel	52.94355	2163.634586	2163.634586	0	677.6774346	0.319807505	0
Orange (SC)	2045 T7 Utility Class 8	Aggregate	Aggregate	Electricity	34.004582	1624.518149	0	1624.518	435.2586472	0	2906.460972
Orange (SC)	2045 T7IS	Aggregate	Aggregate	Gasoline	3.0215996	326.887756	326.887756	0	60.45616518	0.061653013	0
Orange (SC)	2045 T7IS	Aggregate	Aggregate	Electricity	2.2878729	342.7816278	0	342.7816	45.7757619	0	612.3007056
Orange (SC)	2045 UBUS	Aggregate	Aggregate	Gasoline	344.76694	57756.68474	57756.68474	0	1379.067757	3.582233825	0
Orange (SC)	2045 UBUS	Aggregate	Aggregate	Electricity	876.09607	165697.2039	0	165697.2	3504.3843	0	352518.86