

Existing Annual VMT:

0

Fuel

Fleet Mix	auto	91%	0	gas (mpg)	23.68	0.00
	other	9%	0	diesel (mpg)	9.43	0.00
0.00						

Diesel MPG Source: EMFAC2017 (VMT/Fuel Consumption)
Gasoline MPG Source: EMFAC2017 (VMT/Fuel Consumption)

Project Annual VMT:

1,498,688

Fleet Mix	auto	91%	1,363,806	gas (mpg)	23.69	57,568.85
	other	9%	134,882	diesel (mpg)	9.43	14,303.49
71,872.34						

Net Project Annual VMT:

1,498,688

Fleet Mix	auto	91%	1,363,806	gas (mpg)	23.68	57,593.16
	other	9%	134,882	diesel (mpg)	9.43	14,303.49
71,896.65						

Worker Fuel (Gasoline, on-road)

phase	trips	length (miles)	Days	total Miles	MPG	Gallons
Demolition	10	14.7	44	6,468	23.68	273.14
Building Construction	12	14.7	261	46,040	23.68	1,944.27
Architectural Coating	2	14.7	86	2,528	23.68	106.77
Interior Finishing	12	14.7	64	11,290	23.68	476.76
						2,800.95

Vender Fuel (Diesel, on-road)

phase	trips	length (miles)	days	total Miles	MPG	Gallons
Demolition	0	6.9	44	0	9.43	0.00
Building Construction	5	6.9	261	9,005	9.43	954.88
Architectural Coating	0	6.9	86	0	9.43	0.00
Interior Finishing	5	6.9	64	2,208	9.43	234.15
						1,189.02

Haul Fuel (Diesel, on-road)

phase	trips	length (miles)	days	total Miles	MPG	Gallons
Demolition	48	20	44	42,240	9.43	4,479.32
Building Construction	0	20	261	0	9.43	0.00
Architectural Coating	0	20	86	0	9.43	0.00
Interior Finishing	0	20	64	0	9.43	0.00
						4,479.32

Total On-Road Gas **2,800.95**
Total On-Road Diesel **5,668.35**

489384
126492
615876

Construction Equipment (Diesel, off-road)

Phase	Equipment	Units	Hours	HP	Load Factor	Ave. Daily Load Factor	Days	HP Hours	
Demolition	Forklifts	1	8	89	0.2	0.6	66	5,639.04	
	Concrete/Industrial Saws	2	8	81	0.73	0.6	66	18,732.38	
	Generator Sets	2	8	84	0.74	0.6	66	19,692.29	
	Excavator	3	8	158	0.38	0.6	66	19,020.67	
	Rubber Tired Dozers	2	8	247	0.4	0.6	66	31,299.84	
Building Construction	Cranes	1	8	231	0.29	0.6	239	76,850.93	
	Aerial Lifts	1	8	63	0.31	0.6	239	22,404.82	
	Cement and Mortar Mixers	1	8	9	0.56	0.6	239	5,781.89	
	Concrete/Industrial Saws	1	8	81	0.73	0.6	239	67,833.94	
	Generator Sets	1	8	84	0.74	0.6	239	71,309.95	
	Other Material Handling Equipment	1	8	168	0.4	0.6	239	77,091.84	
	Pumps	1	8	84	0.74	0.6	239	71,309.95	
	Forklifts	3	8	89	0.2	0.6	239	20,420.16	
	Tractors/Loaders/Backhoes	3	7	97	0.37	0.6	239	36,026.38	
	Welders	1	8	46	0.45	0.6	239	23,747.04	
	Architectural Coating	Air Compressors	1	6	78	0.48	0.6	129	17,387.14
		Surfacing Equipment	1	8	263	0.3	0.6	129	48,854.88
	Interior Finishing	Air Compressors	1	8	78	0.48	0.6	238	42,771.46
		Concrete/Industrial Saws	1	8	81	0.73	0.6	238	67,550.11

41489 40659.22
2605000 2552900
2646489 2593559.22

Aerial lifts	1	8	63	0.31	0.6	238	22,311.07
Cranes	1	7	231	0.29	0.6	238	66,963.20
Forklifts	3	8	89	0.2	0.6	238	20,334.72
Generator Sets	1	8	84	0.74	0.6	238	71,011.58
Tractors/Loaders/Backhoes	3	7	97	0.37	0.6	238	
Welders	1	8	46	0.45	0.6	238	23,647.68
Total						947,992.96	

Fuel Usage 47,399.65

53,067.99 Diesel
55,868.94 Total fuel

HP = horsepower. Gallons of diesel fuel per HP-hour - 0.05.

Equipment assumptions are provided in the CalEEMod output files for the Project and fuel usage estimate of 0.05 gallons of diesel fuel per horsepower-hour is from the SCAQMD CEQA Air Quality Handbook, Table A9-3E.

Water Usage for fugitive dust control during construction

Water application rate = 3,020 gallons/acre/day

Each gallon of delivered potable water in Southern California is associated with 0.009727 kWhr of electricity).

$$\text{Grading } 8 \text{ days} \times .0 \text{ acres} \times 3,020 \text{ gallons} = 0 \text{ gallons} \times 0.009727 = 0 \text{ kWhr}$$

Source: EMFAC2017 (v1.0.2) Emissions Inventory

Region Type: County

Region: Los Angeles

Calendar Year: 2019

Season: Annual

Vehicle Classification: EMFAC2011 Categories

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

Region	Calendar Year	Vehicle Category	Model Year	Speed	Fuel	Population	VMT	Trips	Fuel Consumption
Los Angeles	2019	LDA	Aggregate	Aggregate	Gasoline	3,910,632.55	53,977,573,193.21	6,394,948,062.75	1,920,460.37
Los Angeles	2019	LDT1	Aggregate	Aggregate	Gasoline	422,288.36	5,621,892,654.05	671,320,820.87	231,930.16
Los Angeles	2019	LDT2	Aggregate	Aggregate	Gasoline	1,322,658.87	17,942,772,550.67	2,145,355,264.48	819,228.07
Los Angeles	2019	LHD1	Aggregate	Aggregate	Gasoline	109,171.47	1,329,349,609.02	531,862,955.06	130,751.03
Los Angeles	2019	LHD2	Aggregate	Aggregate	Gasoline	17,625.95	206,818,498.24	85,870,326.85	23,352.44
Los Angeles	2019	MCY	Aggregate	Aggregate	Gasoline	159,697.58	409,128,717.51	110,830,118.79	11,410.02
Los Angeles	2019	MDV	Aggregate	Aggregate	Gasoline	910,342.27	11,448,784,479.19	1,458,415,693.59	636,276.49
Los Angeles	2019	MH	Aggregate	Aggregate	Gasoline	19,930.16	64,403,878.40	651,977.07	13,024.82
Los Angeles	2019	OBUS	Aggregate	Aggregate	Gasoline	4,075.44	59,681,305.96	26,664,048.40	12,319.87
Los Angeles	2019	SBUS	Aggregate	Aggregate	Gasoline	1,085.73	15,165,795.22	1,420,130.52	1,693.99
Los Angeles	2019	T6TS	Aggregate	Aggregate	Gasoline	14,514.71	262,880,429.64	94,964,157.25	54,059.34
Los Angeles	2019	T7IS	Aggregate	Aggregate	Gasoline	70.22	1,894,069.19	459,450.61	498.08
Los Angeles	2019	UBUS	Aggregate	Aggregate	Gasoline	451.23	10,789,894.40	590,209.85	2,665.22
						6,892,544.53	91,351,135,074.70	11,523,353,216.07	3,857,669.88
							23.68039201		3,857,669,883.52

Source: EMFAC2017 (v1.0.2) Emissions Inventory

Region Type: County

Region: Los Angeles

Calendar Year: 2019

Season: Annual

Vehicle Classification: EMFAC2011 Categories

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

Region	Calendar Year	Vehicle Category	Model Year	Speed	Fuel	Population	VMT	Trips	Fuel Consumption
Los Angeles	2019	All Other Buse	Aggregate	Aggregate	Diesel	2,295.71	38,937,431.46	5,630,926.41	4,047.50
Los Angeles	2019	LDA	Aggregate	Aggregate	Diesel	28,693.51	403,920,314.37	46,701,174.53	9,236.30
Los Angeles	2019	LDT1	Aggregate	Aggregate	Diesel	354.47	3,100,509.50	438,268.70	145.91
Los Angeles	2019	LDT2	Aggregate	Aggregate	Diesel	6,287.93	100,142,510.43	10,847,829.07	3,132.28
Los Angeles	2019	LHD1	Aggregate	Aggregate	Diesel	52,085.35	748,155,320.60	214,239,988.07	35,959.02
Los Angeles	2019	LHD2	Aggregate	Aggregate	Diesel	20,921.00	290,677,737.09	86,053,276.99	15,505.36
Los Angeles	2019	MDV	Aggregate	Aggregate	Diesel	14,081.22	207,956,253.19	24,211,878.49	8,439.38
Los Angeles	2019	MH	Aggregate	Aggregate	Diesel	5,222.57	18,110,634.14	170,778.04	1,776.64
Los Angeles	2019	Motor Coach	Aggregate	Aggregate	Diesel	697.26	25,691,456.32	2,972,540.08	4,201.37
Los Angeles	2019	PTO	Aggregate	Aggregate	Diesel	0.00	23,980,590.88	0.00	5,104.97
Los Angeles	2019	SBUS	Aggregate	Aggregate	Diesel	3,791.22	39,298,306.86	14,306,286.28	5,301.50
Los Angeles	2019	T6 Ag	Aggregate	Aggregate	Diesel	12.17	34,317.06	16,701.74	4.09
Los Angeles	2019	T6 CAIRP hea	Aggregate	Aggregate	Diesel	314.92	19,731,759.59	1,434,523.86	1,842.34
Los Angeles	2019	T6 CAIRP sm	Aggregate	Aggregate	Diesel	166.11	2,763,320.66	756,678.21	272.89
Los Angeles	2019	T6 instate con	Aggregate	Aggregate	Diesel	2,376.19	49,855,329.90	3,351,717.37	5,245.01
Los Angeles	2019	T6 instate con	Aggregate	Aggregate	Diesel	8,368.61	131,650,036.45	11,804,251.41	13,693.21
Los Angeles	2019	T6 instate hea	Aggregate	Aggregate	Diesel	9,698.88	408,527,284.88	34,920,190.26	40,377.13
Los Angeles	2019	T6 instate sm	Aggregate	Aggregate	Diesel	36,685.48	565,445,083.00	132,083,743.31	58,484.91
Los Angeles	2019	T6 OOS heav	Aggregate	Aggregate	Diesel	180.99	11,369,376.51	824,462.97	1,060.94
Los Angeles	2019	T6 OOS small	Aggregate	Aggregate	Diesel	95.55	1,578,753.04	435,231.09	156.11
Los Angeles	2019	T6 Public	Aggregate	Aggregate	Diesel	4,452.12	21,289,235.04	4,213,482.93	2,754.12
Los Angeles	2019	T6 utility	Aggregate	Aggregate	Diesel	997.19	5,199,387.36	3,577,908.71	577.27
Los Angeles	2019	T7 Ag	Aggregate	Aggregate	Diesel	4.43	39,563.25	6,075.18	7.28
Los Angeles	2019	T7 CAIRP	Aggregate	Aggregate	Diesel	5,716.24	334,942,526.40	26,038,625.05	51,181.77
Los Angeles	2019	T7 CAIRP con	Aggregate	Aggregate	Diesel	604.97	35,811,516.55	853,328.40	5,211.80
Los Angeles	2019	T7 NNOOS	Aggregate	Aggregate	Diesel	6,414.15	408,318,765.03	29,217,746.19	60,519.52
Los Angeles	2019	T7 NOOS	Aggregate	Aggregate	Diesel	2,251.87	131,598,383.68	10,257,718.82	20,571.50
Los Angeles	2019	T7 POLA	Aggregate	Aggregate	Diesel	7,633.85	284,990,016.70	18,101,379.07	52,081.32
Los Angeles	2019	T7 Public	Aggregate	Aggregate	Diesel	5,331.74	33,691,745.88	5,045,959.56	6,040.54
Los Angeles	2019	T7 Single	Aggregate	Aggregate	Diesel	5,725.15	120,771,048.99	20,613,027.21	19,575.19
Los Angeles	2019	T7 single con	Aggregate	Aggregate	Diesel	4,094.91	88,841,785.73	5,776,037.17	14,112.00
Los Angeles	2019	T7 SWCV	Aggregate	Aggregate	Diesel	1,899.13	24,209,415.49	2,310,860.65	11,971.43
Los Angeles	2019	T7 tractor	Aggregate	Aggregate	Diesel	11,387.69	497,333,316.99	45,122,573.10	75,151.59
Los Angeles	2019	T7 tractor con	Aggregate	Aggregate	Diesel	3,351.25	73,286,651.52	4,727,066.73	11,708.58
Los Angeles	2019	T7 utility	Aggregate	Aggregate	Diesel	396.98	2,513,803.06	1,424,371.26	422.66
Los Angeles	2019	UBUS	Aggregate	Aggregate	Diesel	41.19	1,799,973.41	53,882.28	280.17
						252,631.97	5,155,563,460.97	768,540,489.19	546,153.57
							9.43976889		546,153,568.04