

APPENDIX E
FUEL CONSUMPTION ANALYSIS

EMFAC2021 (v1.0.2) Emissions Inventory

Region Type: South Coast Air Basin
Region: Los Angeles County
Calendar Year: 2024
Vehicle Classification: EMFAC2007 Categories
Los Angeles County value: 93,671,496,157 VMT/Year
Project value: 1,147,401 VMT/Year

Vehicle Class	Fuel Type	County Fuel Consumption		Project VMT	County VMT	Project Fuel Consumption (gal/yr)		
		1000 gallons/year	gallons/year			Total	Gasoline	Diesel
LDA	GAS	1611912.316	1611912315.84	622424.2785	46771340855	21,439	21,408	31
	DSL	2327.610374	2327610.37					
LDT1	GAS	166721.5247	166721524.68	7.31E+04	4038098956	3,020	3,019	1
	DSL	36.85643223	36856.43					
LDT2	GAS	963726.9986	963726998.61	215988.0999	22882364592	9,090	9,067	23
	DSL	2407.999965	2407999.97					
MDV	GAS	661802.2867	661802286.72	145604.1664	12790845644	7,518	7,445	73
	DSL	6476.740182	6476740.18					
LHDT1	GAS	121844.0485	121844048.51	26675.9491	1646057474	1,748	1,309	439
	DSL	40887.19811	40887198.11					
LHDT2	GAS	20050.57488	20050574.88	7158.641078	236565986.2	489	236	253
	DSL	21500.92132	21500921.32					
MHDT	GAS	51731.56744	51731567.44	12296.70723	266806703.8	1,628	591	1,037
	DSL	90738.73357	90738733.57					
HHDT	GAS	239.4037812	239403.78	9269.860758	970620.5334	1,533	1	1,532
	DSL	353542.7179	353542717.94					
OBUS	GAS	9706.981815	9706981.82	1059.052046	48870040.79	181	104	77
	DSL	7208.978834	7208978.83					
UBUS	GAS	2208.412104	2208412.10	693.030808	10131910.28	144	126	18
	DSL	319.848708	319848.71					
MCY	GAS	8357.054605	8357054.61	28449.83259	344477993.3	650	650	0
SBUS	GAS	2395.942818	2395942.82	805.476204	21534384.51	97	56	41
	DSL	1785.746114	1785746.11					
MH	GAS	10594.77164	10594771.64	3846.091504	51318722.2	682	577	105
	DSL	1937.106336	1937106.34					
Project Totals				1,147,401	93,671,496,157	48,219	44,589	3,630

Notes: Onroad Motor Vehicle Fuel Consumption calculated by UltraSystems using EMFAC2021(v1.0.2) emissions inventory web platform tool (ARB, 2022) and CalEEMod (2020.4.0) (CAPCOA, 2022).

Source: EMFAC2021 (v1.0.2) Emissions Inventory

Region Type: County

Region: Los Angeles

Calendar Year: 2024

Season: Annual

Vehicle Classification: EMFAC2007 Categories

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

Region	Calendar Yr	Vehicle Cat	Model Year	Speed	Fuel	Population	Total VMT	Fuel Consumption
Los Angeles	2024	HHDT	Aggregate	Aggregate	Gasoline	43.6959	970620.5334	239.4037812
Los Angeles	2024	HHDT	Aggregate	Aggregate	Diesel	53754.41	2138217940	353542.7179
Los Angeles	2024	LDA	Aggregate	Aggregate	Gasoline	3388823	46771340855	1611912.316
Los Angeles	2024	LDA	Aggregate	Aggregate	Diesel	9079.361	93785850.82	2327.610374
Los Angeles	2024	LDT1	Aggregate	Aggregate	Gasoline	318252.8	4038098956	166721.5247
Los Angeles	2024	LDT1	Aggregate	Aggregate	Diesel	122.4469	850865.2138	36.85643223
Los Angeles	2024	LDT2	Aggregate	Aggregate	Gasoline	1590817	22882364592	963726.9986
Los Angeles	2024	LDT2	Aggregate	Aggregate	Diesel	5015.834	75858778.92	2407.999965
Los Angeles	2024	LHDT1	Aggregate	Aggregate	Gasoline	126446.9	1646057474	121844.0485
Los Angeles	2024	LHDT1	Aggregate	Aggregate	Diesel	57966.32	836838983.6	40887.19811
Los Angeles	2024	LHDT2	Aggregate	Aggregate	Gasoline	19310.4	236565986.2	20050.57488
Los Angeles	2024	LHDT2	Aggregate	Aggregate	Diesel	26105.21	370815358.5	21500.92132
Los Angeles	2024	MCY	Aggregate	Aggregate	Gasoline	150984	344477993.3	8357.054605
Los Angeles	2024	MDV	Aggregate	Aggregate	Gasoline	961865.5	12790845644	661802.2867
Los Angeles	2024	MDV	Aggregate	Aggregate	Diesel	11173.42	152691946.9	6476.740182
Los Angeles	2024	MH	Aggregate	Aggregate	Gasoline	15893.53	51318722.2	10594.77164
Los Angeles	2024	MH	Aggregate	Aggregate	Diesel	5642.202	19330213.56	1937.106336
Los Angeles	2024	MHDT	Aggregate	Aggregate	Gasoline	14868.36	266806703.8	51731.56744
Los Angeles	2024	MHDT	Aggregate	Aggregate	Diesel	60973.56	808797477.5	90738.73357
Los Angeles	2024	OBUS	Aggregate	Aggregate	Gasoline	3744.202	48870040.79	9706.981815
Los Angeles	2024	OBUS	Aggregate	Aggregate	Diesel	2141.033	49722688.4	7208.978834
Los Angeles	2024	SBUS	Aggregate	Aggregate	Gasoline	1423.941	21534384.51	2395.942818
Los Angeles	2024	SBUS	Aggregate	Aggregate	Diesel	1963.212	13158807.91	1785.746114
Los Angeles	2024	UBUS	Aggregate	Aggregate	Gasoline	437.5652	10131910.28	2208.412104
Los Angeles	2024	UBUS	Aggregate	Aggregate	Diesel	38.73107	2043363.748	319.848708
							93671496157	4160462.341

Emissions Inventory

This tool provides emissions from onroad and offroad mobile sources in California. Please note that emissions extracted from this web tool are exactly the same as those provided by EMFAC2021 software.

Output

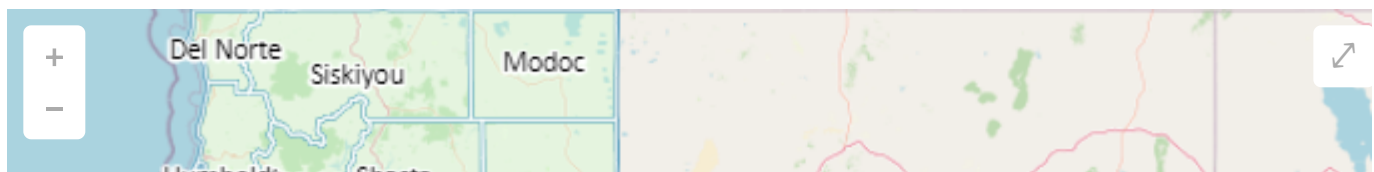
Model Version

Region Type

Region

Please be mindful not to choose too many regions and calendar years at the same time. It can cause a download failure. See more info here:

Los Angeles





Calendar Year

Select Range **Select All**

2024 x

Season

Annual Summer Winter

Vehicle Category

EMFAC202x EMFAC2011 EMFAC2007 **Deselect All**

LDA x LDT1 x LDT2 x MDV x MH x MCY x LHDT1 x LHDT2 x
MHDT x HHDT x SBUS x UBUS x OBUS x

Model Year

Aggregate Select Range

Speed



Select All

Gasoline x Diesel x

Output Unit ?

tons / operation day tons / year

Show Results

Download as CSV

Results ?

Shareable link: <https://arb.ca.gov/emfac/emissions-inventory/4b31ec8d34d24fe633d0300c783ab16b0c0f7b6f>

Request Summary

Source
EMFAC2021 (v1.0.2) Emissions Inventory

Region Type
County

Region
Los Angeles

Calendar Year
2024



Vehicle Classification
EMFAC2007 Categories

Model Year
Aggregate

Speed
Aggregate

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

Output Table

Vehicle Population and Activities All

- Population Total Vehicle Miles Travelled (Total VMT)
- Combustion Vehicle Miles Travelled (CVMT) Electric Vehicle Miles Travelled (EVMT)
- Trips Fuel Consumption Energy Consumption for EVMT

Pollutants All

- NOx PM2.5 PM10 CO2 CH4 N2O ROG
- TOG CO SOx NH3

Emissions Processes All

- RUNEX IDLEX STREX TOTEX DIURN HOTSOAK
- RUNLOSS PMTW PMBW TOTAL

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2	HHDT	Diesel	5.38e+4	2.14e+9	3.32e+2
3	LDA	Gasoline	3.39e+6	4.68e+10	9.54e+2
4	LDA	Diesel	9.08e+3	9.38e+7	4.61e+0
5	LDT1	Gasoline	3.18e+5	4.04e+9	9.70e+1
6	LDT1	Diesel	1.22e+2	8.51e+5	2.69e-1
7	LDT2	Gasoline	1.59e+6	2.29e+10	5.08e+2
8	LDT2	Diesel	5.02e+3	7.59e+7	2.00e+0
9	LHDT1	Gasoline	1.26e+5	1.65e+9	1.58e+2
10	LHDT1	Diesel	5.80e+4	8.37e+8	1.03e+2
11	LHDT2	Gasoline	1.93e+4	2.37e+8	2.61e+1
12	LHDT2	Diesel	2.61e+4	3.71e+8	5.09e+1
13	MCY	Gasoline	1.51e+5	3.44e+8	7.35e+0
14	MDV	Gasoline	9.62e+5	1.28e+10	2.88e+2
15	MDV	Diesel	1.12e+4	1.53e+8	4.58e+0
16	MH	Gasoline	1.59e+4	5.13e+7	3.22e+0
17	MH	Diesel	5.64e+3	1.93e+7	3.18e+0
18	MHDT	Gasoline	1.49e+4	2.67e+8	1.67e+1
19	MHDT	Diesel	6.10e+4	8.09e+8	6.13e+1



21	OBUS	Diesel	2.14e+3	4.97e+7	6.26e+0
22	SBUS	Gasoline	1.42e+3	2.15e+7	1.33e+0
23	SBUS	Diesel	1.96e+3	1.32e+7	1.58e+0
24	UBUS	Gasoline	4.38e+2	1.01e+7	1.31e+0
25	UBUS	Diesel	3.87e+1	2.04e+6	3.42e-1

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