

Energy Calculations

Construction Fuel Consumption and Operational Energy Calculations

Phase 1 Construction Offroad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor	Number of days	Diesel Fuel Usage
Demolition	Concrete/Industrial Saws	1	8	81	0.73	20	473
Demolition	Rubber Tired Dozers	2	8	247	0.4	20	1,581
Demolition	Excavators	3	8	158	0.38	20	1,441
Site Preparation	Rubber Tired Dozers	3	8	247	0.4	10	1,186
Site Preparation	Bore/Drill Rigs	2	8	221	0.5	10	884
Site Preparation	Tractors/Loaders/Balckhoes	4	8	97	0.37	10	574
Grading	Excavators	2	8.00	158	0.38	20	961
Grading	Rubber Tired Dozers	2	8.00	247	0.40	20	1,581
Grading	Scrapers	3	8.00	367	0.48	20	4,228
Grading	Tractors/Loaders/Balckhoes	1	8.00	97	0.37	20	287
TOTAL							6,139

Notes: Equipment assumptions are consistent with CalEEMod. Fuel usage average of 0.05 gallons of diesel fuel per horsepower-hour is from the SCAQMD CEQA Air Quality Handbook, Table A9-3E.

Trips and VMT

Phase Name	Daily Worker Trip	Daily Vendor Trip	Daily Hauling Trip	Days per Year	Total Worker Trips	Total Vendor Trips	Total Haul Trips	Worker Trip Length (miles)	Vendor Trip Length (miles)	Haul Trip Length (miles)	Total Worker Trip Length (miles)	Total Vendor Trip Length (miles)	Total Haul Trip Length (miles)	Total gallons of gasoline	Total gallons of diesel
Site Preparation	23	0	0	20	460	0	0	16.80	6.60	20.00	7728	0	-	288	0
Demolition	15	0	7	20	300	0	140	16.80	6.60	20.00	5040	0	2,800.00	188	471
Grading	15	0	0	20	300	0	0	16.80	6.60	20.00	5040	0		188	0
TOTAL													664	471	

Notes: Consistent with CalEEMod, worker vehicles assumed to be gasoline and 50% LDA, 25% LDT1, and 25% LDT2. Vendor and haul trips are assumed to be 100% diesel Heavy-Duty Trucks (T7).

2019

Phase 1 Construction Offroad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor	Number of days	Diesel Fuel Usage
Building Construction	Cranes	1	7.00	231	0.29	230	2,696
Building Construction	Forklifts	3	8.00	89	0.20	230	2,456
Building Construction	Generator Sets	1	8.00	84	0.74	230	2,859
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37	230	4,334
Building Construction	Welders	1	8.00	46	0.45	230	952

13,298

Trips and VMT

Phase Name	Daily Worker Trip	Daily Vendor Trip	Daily Hauling Trip	Days per Year	Total Worker Trips	Total Vendor Trips	Total Haul Trips	Worker Trip Length (miles)	Vendor Trip Length (miles)	Haul Trip Length (miles)	Total Worker Trip Length (miles)	Total Vendor Trip Length (miles)	Total Haul Trip Length (miles)	Total gallons of gasoline	Total gallons of diesel	
Building Construction	119	47	0	230	27,370	10,810	0	16.80	6.60	20.00	459,816.00	71,346.00	-	5,706	3,998	
														TOTAL	5,706	3,998

Notes: Consistent with CalEEMod, worker vehicles assumed to be gasoline and 50% LDA, 25% LDT1, and 25% LDT2. Vendor and haul trips are assumed to be 100% diesel Heavy-Duty Trucks (T7).

17,296

2020

Phase 1 Construction Offroad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor	Number of days	Diesel Fuel Usage
Building Construction	Cranes	1	7.00	231	0.29	206	2,415
Building Construction	Forklifts	3	8.00	89	0.20	206	2,200
Building Construction	Generator Sets	1	8.00	84	0.74	206	2,561
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37	206	3,882
Building Construction	Welders	1	8.00	46	0.45	206	853
Paving	Pavers	2	8.00	130	0.42	14	612
Paving	Paving Equipment	2	8.00	132	0.36	14	532
Paving	Rollers	2	8.00	80	0.38	14	340
Architectural Coating	Air Compressors	1	6.00	78	0.48	14	157
TOTAL							13,552

Trips and VMT

Phase Name	Daily Worker Trip	Daily Vendor Trip	Daily Hauling Trip	Days per Year	Total Worker Trips	Total Vendor Trips	Total Haul Trips	Worker Trip Length (miles)	Vendor Trip Length (miles)	Haul Trip Length (miles)	Total Worker Trip Length (miles)	Total Vendor Trip Length (miles)	Total Haul Trip Length (miles)	Total gallons of gasoline	Total gallons of diesel
Architectural Coating	24	0	0	20	480	0	0	16.80	6.60	20.00	8,064.00	0.00	-	301	0
Building Construction	119	47	0	230	27,370	10,810	0	16.80	6.60	20.00	459,816.00	71,346.00	-	5,706	3,998
Paving	15	0	0	20	300	0	0	16.80	6.60	20.00	5,040.00	0.00	-	188	0
TOTAL													6,195	3,998	

Notes: Consistent with CalEEMod, worker vehicles assumed to be gasoline and 50% LDA, 25% LDT1, and 25% LDT2. Vendor and haul trips are assumed to be 100% diesel Heavy-Duty Trucks (T7).

EMFAC2014 (v1.0.7) Emissions Inventory

Region Type: County

Region: Placer

Calendar Year: 2020

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	CalYr	VehClass	MdlYr	Speed miles/hr	Fuel	Population vehicles	VMT miles/day	Trips trips/day	Fuel gas 1,000 gallons/day	Diesel gas 1,000 gallons/day	Miles per gallon	Gasoline miles per gallon	Diesel miles per gallon
Placer	2020	LDA	Aggregated	Aggregated	GAS	121903.62	4524746.657	769126.4563	150.6865793	0	30.03	26.83	5.94
Placer	2020	LDT1	Aggregated	Aggregated	GAS	11477.806	397027.6168	69593.54114	15.7911174	0	25.14		
Placer	2020	LDT2	Aggregated	Aggregated	GAS	54294.769	2118337.857	341405.0898	95.71380191	0	22.13		
Placer	2020	T7 tractor construction	Aggregated	Aggregated	DSL	122.01867	10948.84642	0	0	1.842281119	5.94		

Notes: Consistent with CalEEMod, worker vehicles assumed to be gasoline and 50% LDA, 25% LDT1, and 25% LDT2. Vendor trips are assumed to be 100% diesel Heavy-Duty Trucks (T7).

Energy Consumption

Electricity		EF (lb/CO2/MWh)	GWP	EF (lb CH4/MWh)	GWP	EF N2)/MWh)	GWP	Total Emissions (MTCO2E)
	MWh/year		913.9	1	0.035	21	0.0042	310
CO2	150.53		913.9	1				62.4
CH4	1,199.79				0.035	21		0.4
N2O	0.17						0.0042	0.0001
	1,350.49							

Natural Gas		MT CO2/therm	MT CH4/therm	GWP	MT N2O/therm	Total Emissions (MTCO2E)
	therm/year	0.005302	0.000001		0.000001	
CO2	282.91	0.005302				1.5
CH4	-		0.000001			0
N2O	-				0.000001	0
	282.91					
	282.91					

Operational Mobile Energy Calculations

Energy Calculations Summary

Operational Fuel Use Summary

Vehicle Class	Diesel Gallons	Gasoline Gallons
Passenger	113	13,088
Truck	5,096	12,663
Bus	243	213
Other	10	46
Total	5,463	26,010

1. Fleet mix calculated from CalEEMod default values.
2. Gallons per mile calculated from EMFAC 2014.
3. Annual VMT obtained from CalEEMod output file.

EMFAC2014 (v1.0.7) Emissions Inventory

Region Type: County

Region: Placer

Calendar Year: 2020

Season: Annual

Vehicle Classification: EMFAC2007 Categories

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

Region	CalYr	VehClass	Class	Mdlyr	Speed	Fuel
Placer	2020	HHDT	Truck	Aggregatec	Aggregatec	GAS
Placer	2020	HHDT	Truck	Aggregatec	Aggregatec	DSL
Placer	2020	LDA	Passenger	Aggregatec	Aggregatec	GAS
Placer	2020	LDA	Passenger	Aggregatec	Aggregatec	DSL
Placer	2020	LDA	Passenger	Aggregatec	Aggregatec	ELEC
Placer	2020	LDT1	Truck	Aggregatec	Aggregatec	GAS
Placer	2020	LDT1	Truck	Aggregatec	Aggregatec	DSL
Placer	2020	LDT1	Truck	Aggregatec	Aggregatec	ELEC
Placer	2020	LDT2	Truck	Aggregatec	Aggregatec	GAS
Placer	2020	LDT2	Truck	Aggregatec	Aggregatec	DSL
Placer	2020	LHDT1	Truck	Aggregatec	Aggregatec	GAS
Placer	2020	LHDT1	Truck	Aggregatec	Aggregatec	DSL
Placer	2020	LHDT2	Truck	Aggregatec	Aggregatec	GAS
Placer	2020	LHDT2	Truck	Aggregatec	Aggregatec	DSL
Placer	2020	MCY	Passenger	Aggregatec	Aggregatec	GAS
Placer	2020	MDV	Truck	Aggregatec	Aggregatec	GAS
Placer	2020	MDV	Truck	Aggregatec	Aggregatec	DSL
Placer	2020	MH	Other	Aggregatec	Aggregatec	GAS
Placer	2020	MH	Other	Aggregatec	Aggregatec	DSL
Placer	2020	MHDT	Truck	Aggregatec	Aggregatec	GAS
Placer	2020	MHDT	Truck	Aggregatec	Aggregatec	DSL
Placer	2020	OBUS	Bus	Aggregatec	Aggregatec	GAS
Placer	2020	OBUS	Bus	Aggregatec	Aggregatec	DSL
Placer	2020	SBUS	Bus	Aggregatec	Aggregatec	GAS
Placer	2020	SBUS	Bus	Aggregatec	Aggregatec	DSL
Placer	2020	UBUS	Bus	Aggregatec	Aggregatec	GAS
Placer	2020	UBUS	Bus	Aggregatec	Aggregatec	DSL

Project VMT (mi/yr)	702,000	From CalEEMod output
Project Mobile Emissions (MT/yr)	517	From CalEEMod output

	Gas (gal)	Diesel (gal)
Passenger	13,088	113
Truck	12,663	5,096
Bus	213	243
Other	46	10
Total	26,010	5,463

EMFAC2014 (v1.0.7) Emissions Inventory

Region Type: County

Region: Placer

Calendar Year: 2020

Season: Annual

Vehicle Classification: EMFAC2007 Categories

Units: miles/day for VMT, trips/day for Trips, tons/day for Emissions, 1000 gallon

Region	CalYr	VehClass	Class	Population
Placer	2020	HHDT	Truck	17.37292
Placer	2020	HHDT	Truck	2922.412
Placer	2020	LDA	Passenger	121903.6
Placer	2020	LDA	Passenger	1344.102
Placer	2020	LDA	Passenger	2772.034
Placer	2020	LDT1	Truck	11477.81
Placer	2020	LDT1	Truck	21.69756
Placer	2020	LDT1	Truck	7.304798
Placer	2020	LDT2	Truck	54294.77
Placer	2020	LDT2	Truck	80.7911
Placer	2020	LHDT1	Truck	3464.398
Placer	2020	LHDT1	Truck	4790.234
Placer	2020	LHDT2	Truck	504.731
Placer	2020	LHDT2	Truck	1253.803
Placer	2020	MCY	Passenger	8965.353
Placer	2020	MDV	Truck	38373.01
Placer	2020	MDV	Truck	545.6453
Placer	2020	MH	Other	1234.051
Placer	2020	MH	Other	384.1994
Placer	2020	MHDT	Truck	301.9648
Placer	2020	MHDT	Truck	4377.383
Placer	2020	OBUS	Bus	174.4437
Placer	2020	OBUS	Bus	65.17103
Placer	2020	SBUS	Bus	42.92651
Placer	2020	SBUS	Bus	149.0248
Placer	2020	UBUS	Bus	38.94367
Placer	2020	UBUS	Bus	56.5765

Project VMT (mi/yr)	702,000	From CalEEMod output
Project Mobile Emissions (MT/yr)	517	From CalEEMod output

	Gas (gal)	Diesel (gal)
Passenger	13,088	113
Truck	12,663	5,096
Bus	213	243
Other	46	10
Total	26,010	5,463

EMFAC2014 (v1.0.7) Emissions Inventory

Region Type: County

Region: Placer

Calendar Year: 2020

Season: Annual

Vehicle Classification: EMFAC2007 Categories

Units: miles/day for VMT, trips/day for Trips, tons/day for Emissions, 1000 gallon

Region	CalYr	VehClass	Class	VMT (mi/day)
Placer	2020	HHDT	Truck	2018.141073
Placer	2020	HHDT	Truck	437341.6755
Placer	2020	LDA	Passenger	4524746.657
Placer	2020	LDA	Passenger	51110.52022
Placer	2020	LDA	Passenger	139935.7543
Placer	2020	LDT1	Truck	397027.6168
Placer	2020	LDT1	Truck	399.1991381
Placer	2020	LDT1	Truck	234.2654412
Placer	2020	LDT2	Truck	2118337.857
Placer	2020	LDT2	Truck	3676.495994
Placer	2020	LHDT1	Truck	100354.7471
Placer	2020	LHDT1	Truck	148231.3838
Placer	2020	LHDT2	Truck	17956.01264
Placer	2020	LHDT2	Truck	45525.4531
Placer	2020	MCY	Passenger	58815.38576
Placer	2020	MDV	Truck	1255456.532
Placer	2020	MDV	Truck	22882.04443
Placer	2020	MH	Other	9719.970627
Placer	2020	MH	Other	3129.09341
Placer	2020	MHDT	Truck	14706.80657
Placer	2020	MHDT	Truck	253549.7464
Placer	2020	OBUS	Bus	8927.133928
Placer	2020	OBUS	Bus	5211.05532
Placer	2020	SBUS	Bus	1877.012852
Placer	2020	SBUS	Bus	5670.136084
Placer	2020	UBUS	Bus	4807.005954
Placer	2020	UBUS	Bus	7043.286432

Project VMT (mi/yr)	702,000	From CalEEMod output
Project Mobile Emissions (MT/yr)	517	From CalEEMod output

	Gas (gal)	Diesel (gal)
Passenger	13,088	113
Truck	12,663	5,096
Bus	213	243
Other	46	10
Total	26,010	5,463

EMFAC2014 (v1.0.7) Emissions Inventory

Region Type: County

Region: Placer

Calendar Year: 2020

Season: Annual

Vehicle Classification: EMFAC2007 Categories

Units: miles/day for VMT, trips/day for Trips, tons/day for Emissions, 1000 gallon

Region	CalYr	VehClass	Class	Trips
Placer	2020	HHDT	Truck	347.5974
Placer	2020	HHDT	Truck	0
Placer	2020	LDA	Passenger	769126.5
Placer	2020	LDA	Passenger	8303.705
Placer	2020	LDA	Passenger	18009.49
Placer	2020	LDT1	Truck	69593.54
Placer	2020	LDT1	Truck	103.0691
Placer	2020	LDT1	Truck	44.80507
Placer	2020	LDT2	Truck	341405.1
Placer	2020	LDT2	Truck	517.2816
Placer	2020	LHDT1	Truck	51614.37
Placer	2020	LHDT1	Truck	60255.12
Placer	2020	LHDT2	Truck	7519.74
Placer	2020	LHDT2	Truck	15771.26
Placer	2020	MCY	Passenger	17928.91
Placer	2020	MDV	Truck	237046.4
Placer	2020	MDV	Truck	3462.006
Placer	2020	MH	Other	123.4544
Placer	2020	MH	Other	38.41994
Placer	2020	MHDT	Truck	6041.711
Placer	2020	MHDT	Truck	0
Placer	2020	OBUS	Bus	3490.27
Placer	2020	OBUS	Bus	0
Placer	2020	SBUS	Bus	171.706
Placer	2020	SBUS	Bus	0
Placer	2020	UBUS	Bus	155.7747
Placer	2020	UBUS	Bus	226.306

Project VMT (mi/yr)	702,000	From CalEEMod output
Project Mobile Emissions (MT/yr)	517	From CalEEMod output

	Gas (gal)	Diesel (gal)
Passenger	13,088	113
Truck	12,663	5,096
Bus	213	243
Other	46	10
Total	26,010	5,463

EMFAC2014 (v1.0.7) Emissions Inventory

Region Type: County

Region: Placer

Calendar Year: 2020

Season: Annual

Vehicle Classification: EMFAC2007 Categories

Units: miles/day for VMT, trips/day for Trips, tons/day for Emissions, 1000 gallon

Region	CalYr	VehClass	Class	Fuel_Consumption (1000 gal/day)
Placer	2020	HHDT	Truck	0.438914027
Placer	2020	HHDT	Truck	74.6025815
Placer	2020	LDA	Passenger	150.6865793
Placer	2020	LDA	Passenger	1.316117443
Placer	2020	LDA	Passenger	0
Placer	2020	LDT1	Truck	15.7911174
Placer	2020	LDT1	Truck	0.014080625
Placer	2020	LDT1	Truck	0
Placer	2020	LDT2	Truck	95.71380191
Placer	2020	LDT2	Truck	0.121406821
Placer	2020	LHDT1	Truck	10.47762702
Placer	2020	LHDT1	Truck	8.627323026
Placer	2020	LHDT2	Truck	2.054534889
Placer	2020	LHDT2	Truck	2.926862871
Placer	2020	MCY	Passenger	1.594784853
Placer	2020	MDV	Truck	77.22549683
Placer	2020	MDV	Truck	1.000651368
Placer	2020	MH	Other	1.488151266
Placer	2020	MH	Other	0.330131946
Placer	2020	MHDT	Truck	2.3122925
Placer	2020	MHDT	Truck	30.46094141
Placer	2020	OBUS	Bus	1.376865673
Placer	2020	OBUS	Bus	0.79300174
Placer	2020	SBUS	Bus	0.164700454
Placer	2020	SBUS	Bus	0.785866155
Placer	2020	UBUS	Bus	0.962185972
Placer	2020	UBUS	Bus	1.566974906

Project VMT (mi/yr)	702,000	From CalEEMod output
Project Mobile Emissions (MT/yr)	517	From CalEEMod output

	Gas (gal)	Diesel (gal)
Passenger	13,088	113
Truck	12,663	5,096
Bus	213	243
Other	46	10
Total	26,010	5,463

EMFAC2014 (v1.0.7) Emissions Inventory

Region Type: County

Region: Placer

Calendar Year: 2020

Season: Annual

Vehicle Classification: EMFAC2007 Categories

Units: miles/day for VMT, trips/day for Trips, tons/day for Emissions, 1000 gallon

Region	CalYr	VehClass	Class	Fuel (gal/day)	mi/gal
Placer	2020	HHDT	Truck	438.914027	4.598032756
Placer	2020	HHDT	Truck	74602.5815	5.862286086
Placer	2020	LDA	Passenger	150686.5793	30.02753582
Placer	2020	LDA	Passenger	1316.117443	38.83431565
Placer	2020	LDA	Passenger	0	0
Placer	2020	LDT1	Truck	15791.1174	25.14246502
Placer	2020	LDT1	Truck	14.080625	28.35095304
Placer	2020	LDT1	Truck	0	0
Placer	2020	LDT2	Truck	95713.80191	22.13199993
Placer	2020	LDT2	Truck	121.406821	30.28245006
Placer	2020	LHDT1	Truck	10477.62702	9.578003388
Placer	2020	LHDT1	Truck	8627.323026	17.18161976
Placer	2020	LHDT2	Truck	2054.534889	8.739697114
Placer	2020	LHDT2	Truck	2926.862871	15.55435123
Placer	2020	MCY	Passenger	1594.784853	36.87982467
Placer	2020	MDV	Truck	77225.49683	16.25702111
Placer	2020	MDV	Truck	1000.651368	22.8671495
Placer	2020	MH	Other	1488.151266	6.531574343
Placer	2020	MH	Other	330.131946	9.478311469
Placer	2020	MHDT	Truck	2312.2925	6.360270844
Placer	2020	MHDT	Truck	30460.94141	8.323765933
Placer	2020	OBUS	Bus	1376.865673	6.483663659
Placer	2020	OBUS	Bus	793.00174	6.571303765
Placer	2020	SBUS	Bus	164.700454	11.39652506
Placer	2020	SBUS	Bus	785.866155	7.215142232
Placer	2020	UBUS	Bus	962.185972	4.995921884
Placer	2020	UBUS	Bus	1566.974906	4.494830393

Project VMT (mi/yr)	702,000	From CalEEMod output
Project Mobile Emissions (MT/yr)	517	From CalEEMod output

	Gas (gal)	Diesel (gal)
Passenger	13,088	113
Truck	12,663	5,096
Bus	213	243
Other	46	10
Total	26,010	5,463

EMFAC2014 (v1.0.7) Emissions Inventory

Region Type: County

Region: Placer

Calendar Year: 2020

Season: Annual

Vehicle Classification: EMFAC2007 Categories

Units: miles/day for VMT, trips/day for Trips, tons/day for Emissions, 1000 gallon

Region	CalYr	VehClass	Class	CO2_RUNEX (tons/day)
Placer	2020	HHDT	Truck	3.909692561
Placer	2020	HHDT	Truck	774.7503365
Placer	2020	LDA	Passenger	1354.111579
Placer	2020	LDA	Passenger	14.62352714
Placer	2020	LDA	Passenger	0
Placer	2020	LDT1	Truck	141.0337704
Placer	2020	LDT1	Truck	0.156451391
Placer	2020	LDT1	Truck	0
Placer	2020	LDT2	Truck	861.9315716
Placer	2020	LDT2	Truck	1.348964673
Placer	2020	LHDT1	Truck	93.73818984
Placer	2020	LHDT1	Truck	95.11844546
Placer	2020	LHDT2	Truck	18.57700029
Placer	2020	LHDT2	Truck	32.21263144
Placer	2020	MCY	Passenger	10.64954167
Placer	2020	MDV	Truck	689.7701256
Placer	2020	MDV	Truck	11.11834854
Placer	2020	MH	Other	13.87979267
Placer	2020	MH	Other	3.668132728
Placer	2020	MHDT	Truck	20.51345475
Placer	2020	MHDT	Truck	335.2125775
Placer	2020	OBUS	Bus	12.48681922
Placer	2020	OBUS	Bus	8.547516284
Placer	2020	SBUS	Bus	1.37322319
Placer	2020	SBUS	Bus	8.113332145
Placer	2020	UBUS	Bus	8.94376053
Placer	2020	UBUS	Bus	17.41083229

Project VMT (mi/yr)	702,000	From CalEEMod output
Project Mobile Emissions (MT/yr)	517	From CalEEMod output

	Gas (gal)	Diesel (gal)
Passenger	13,088	113
Truck	12,663	5,096
Bus	213	243
Other	46	10
Total	26,010	5,463

EMFAC2014 (v1.0.7) Emissions Inventory

Region Type: County

Region: Placer

Calendar Year: 2020

Season: Annual

Vehicle Classification: EMFAC2007 Categories

Units: miles/day for VMT, trips/day for Trips, tons/day for Emissions, 1000 gallon

Region	CalYr	VehClass	Class	CO2 (lb/day)
Placer	2020	HHDT	Truck	7,819
Placer	2020	HHDT	Truck	1,549,501
Placer	2020	LDA	Passenger	2,708,223
Placer	2020	LDA	Passenger	29,247
Placer	2020	LDA	Passenger	0
Placer	2020	LDT1	Truck	282,068
Placer	2020	LDT1	Truck	313
Placer	2020	LDT1	Truck	0
Placer	2020	LDT2	Truck	1,723,863
Placer	2020	LDT2	Truck	2,698
Placer	2020	LHDT1	Truck	187,476
Placer	2020	LHDT1	Truck	190,237
Placer	2020	LHDT2	Truck	37,154
Placer	2020	LHDT2	Truck	64,425
Placer	2020	MCY	Passenger	21,299
Placer	2020	MDV	Truck	1,379,540
Placer	2020	MDV	Truck	22,237
Placer	2020	MH	Other	27,760
Placer	2020	MH	Other	7,336
Placer	2020	MHDT	Truck	41,027
Placer	2020	MHDT	Truck	670,425
Placer	2020	OBUS	Bus	24,974
Placer	2020	OBUS	Bus	17,095
Placer	2020	SBUS	Bus	2,746
Placer	2020	SBUS	Bus	16,227
Placer	2020	UBUS	Bus	17,888
Placer	2020	UBUS	Bus	34,822

Project VMT (mi/yr)	702,000	From CalEEMod output
Project Mobile Emissions (MT/yr)	517	From CalEEMod output

	Gas (gal)	Diesel (gal)
Passenger	13,088	113
Truck	12,663	5,096
Bus	213	243
Other	46	10
Total	26,010	5,463

EMFAC2014 (v1.0.7) Emissions Inventory

Region Type: County

Region: Placer

Calendar Year: 2020

Season: Annual

Vehicle Classification: EMFAC2007 Categories

Units: miles/day for VMT, trips/day for Trips, tons/day for Emissions, 1000 gallon

Region	CalYr	VehClass	Class	% of vehicle class EMFAC
Placer	2020	HHDT	Truck	0.004593367
Placer	2020	HHDT	Truck	0.995406633
Placer	2020	LDA	Passenger	0.959487985
Placer	2020	LDA	Passenger	0.01083816
Placer	2020	LDA	Passenger	0.029673855
Placer	2020	LDT1	Truck	0.998407024
Placer	2020	LDT1	Truck	0.001003868
Placer	2020	LDT1	Truck	0.000589108
Placer	2020	LDT2	Truck	0.99826745
Placer	2020	LDT2	Truck	0.00173255
Placer	2020	LHDT1	Truck	0.403702116
Placer	2020	LHDT1	Truck	0.596297884
Placer	2020	LHDT2	Truck	0.282854412
Placer	2020	LHDT2	Truck	0.717145588
Placer	2020	MCY	Passenger	1
Placer	2020	MDV	Truck	0.982100169
Placer	2020	MDV	Truck	0.017899831
Placer	2020	MH	Other	0.756473047
Placer	2020	MH	Other	0.243526953
Placer	2020	MHDT	Truck	0.054823662
Placer	2020	MHDT	Truck	0.945176338
Placer	2020	OBUS	Bus	0.631419892
Placer	2020	OBUS	Bus	0.368580108
Placer	2020	SBUS	Bus	0.248704891
Placer	2020	SBUS	Bus	0.751295109
Placer	2020	UBUS	Bus	0.405644502
Placer	2020	UBUS	Bus	0.594355498

Project VMT (mi/yr)	702,000	From CalEEMod output
Project Mobile Emissions (MT/yr)	517	From CalEEMod output

	Gas (gal)	Diesel (gal)
Passenger	13,088	113
Truck	12,663	5,096
Bus	213	243
Other	46	10
Total	26,010	5,463

EMFAC2014 (v1.0.7) Emissions Inventory

Region Type: County

Region: Placer

Calendar Year: 2020

Season: Annual

Vehicle Classification: EMFAC2007 Categories

Units: miles/day for VMT, trips/day for Trips, tons/day for Emissions, 1000 gallon

Region	CalYr	VehClass	Class	% vehicle class CalEEMod
Placer	2020	HHDT	Truck	0.026318
Placer	2020	HHDT	Truck	0.026318
Placer	2020	LDA	Passenger	0.578893
Placer	2020	LDA	Passenger	0.578893
Placer	2020	LDA	Passenger	0.578893
Placer	2020	LDT1	Truck	0.033999
Placer	2020	LDT1	Truck	0.033999
Placer	2020	LDT1	Truck	0.033999
Placer	2020	LDT2	Truck	0.21284
Placer	2020	LDT2	Truck	0.21284
Placer	2020	LHDT1	Truck	0.010628
Placer	2020	LHDT1	Truck	0.010628
Placer	2020	LHDT2	Truck	0.004325
Placer	2020	LHDT2	Truck	0.004325
Placer	2020	MCY	Passenger	0.005392
Placer	2020	MDV	Truck	0.104491
Placer	2020	MDV	Truck	0.104491
Placer	2020	MH	Other	0.000566
Placer	2020	MH	Other	0.000566
Placer	2020	MHDT	Truck	0.018736
Placer	2020	MHDT	Truck	0.018736
Placer	2020	OBUS	Bus	0.001852
Placer	2020	OBUS	Bus	0.001852
Placer	2020	SBUS	Bus	0.000598
Placer	2020	SBUS	Bus	0.000598
Placer	2020	UBUS	Bus	0.001362
Placer	2020	UBUS	Bus	0.001362

Project VMT (mi/yr)	702,000	From CalEEMod output
Project Mobile Emissions (MT/yr)	517	From CalEEMod output

	Gas (gal)	Diesel (gal)
Passenger	13,088	113
Truck	12,663	5,096
Bus	213	243
Other	46	10
Total	26,010	5,463

EMFAC2014 (v1.0.7) Emissions Inventory

Region Type: County

Region: Placer

Calendar Year: 2020

Season: Annual

Vehicle Classification: EMFAC2007 Categories

Units: miles/day for VMT, trips/day for Trips, tons/day for Emissions, 1000 gallon

Region	CalYr	VehClass	Class	% vehicle class project
Placer	2020	HHDT	Truck	0.000120888
Placer	2020	HHDT	Truck	0.026197112
Placer	2020	LDA	Passenger	0.555440878
Placer	2020	LDA	Passenger	0.006274135
Placer	2020	LDA	Passenger	0.017177987
Placer	2020	LDT1	Truck	0.03394484
Placer	2020	LDT1	Truck	3.41305E-05
Placer	2020	LDT1	Truck	2.00291E-05
Placer	2020	LDT2	Truck	0.212471244
Placer	2020	LDT2	Truck	0.000368756
Placer	2020	LHDT1	Truck	0.004290546
Placer	2020	LHDT1	Truck	0.006337454
Placer	2020	LHDT2	Truck	0.001223345
Placer	2020	LHDT2	Truck	0.003101655
Placer	2020	MCY	Passenger	0.005392
Placer	2020	MDV	Truck	0.102620629
Placer	2020	MDV	Truck	0.001870371
Placer	2020	MH	Other	0.000428164
Placer	2020	MH	Other	0.000137836
Placer	2020	MHDT	Truck	0.001027176
Placer	2020	MHDT	Truck	0.017708824
Placer	2020	OBUS	Bus	0.00116939
Placer	2020	OBUS	Bus	0.00068261
Placer	2020	SBUS	Bus	0.000148726
Placer	2020	SBUS	Bus	0.000449274
Placer	2020	UBUS	Bus	0.000552488
Placer	2020	UBUS	Bus	0.000809512

Project VMT (mi/yr)	702,000	From CalEEMod output
Project Mobile Emissions (MT/yr)	517	From CalEEMod output

	Gas (gal)	Diesel (gal)
Passenger	13,088	113
Truck	12,663	5,096
Bus	213	243
Other	46	10
Total	26,010	5,463

EMFAC2014 (v1.0.7) Emissions Inventory

Region Type: County

Region: Placer

Calendar Year: 2020

Season: Annual

Vehicle Classification: EMFAC2007 Categories

Units: miles/day for VMT, trips/day for Trips, tons/day for Emissions, 1000 gallon

Region	CalYr	VehClass	Class	VMT by project vehicle class (mi/yr)
Placer	2020	HHDT	Truck	84.86354737
Placer	2020	HHDT	Truck	18390.37245
Placer	2020	LDA	Passenger	389919.4964
Placer	2020	LDA	Passenger	4404.442904
Placer	2020	LDA	Passenger	12058.94672
Placer	2020	LDT1	Truck	23829.27797
Placer	2020	LDT1	Truck	23.95961093
Placer	2020	LDT1	Truck	14.0604232
Placer	2020	LDT2	Truck	149154.8133
Placer	2020	LDT2	Truck	258.8666732
Placer	2020	LHDT1	Truck	3011.963356
Placer	2020	LHDT1	Truck	4448.892644
Placer	2020	LHDT2	Truck	858.7884218
Placer	2020	LHDT2	Truck	2177.361578
Placer	2020	MCY	Passenger	3785.184
Placer	2020	MDV	Truck	72039.68139
Placer	2020	MDV	Truck	1313.000608
Placer	2020	MH	Other	300.5709488
Placer	2020	MH	Other	96.76105117
Placer	2020	MHDT	Truck	721.0776432
Placer	2020	MHDT	Truck	12431.59436
Placer	2020	OBUS	Bus	820.9115273
Placer	2020	OBUS	Bus	479.1924727
Placer	2020	SBUS	Bus	104.4053183
Placer	2020	SBUS	Bus	315.3906817
Placer	2020	UBUS	Bus	387.8464439
Placer	2020	UBUS	Bus	568.2775561

Project VMT (mi/yr)

702,000

From CalEEMod output

Project Mobile Emissions (MT/yr)

517

From CalEEMod output

Gasoline Sum

Diesel Sum

	Gas (gal)	Diesel (gal)
Passenger	13,088	113
Truck	12,663	5,096
Bus	213	243
Other	46	10
Total	26,010	5,463

EMFAC2014 (v1.0.7) Emissions Inventory

Region Type: County

Region: Placer

Calendar Year: 2020

Season: Annual

Vehicle Classification: EMFAC2007 Categories

Units: miles/day for VMT, trips/day for Trips, tons/day for Emissions, 1000 gallon

Region	CalYr	VehClass	Class	Gallons of fuel
Placer	2020	HHDT	Truck	18.45649039
Placer	2020	HHDT	Truck	3137.064992
Placer	2020	LDA	Passenger	12985.39776
Placer	2020	LDA	Passenger	113.4162616
Placer	2020	LDA	Passenger	0
Placer	2020	LDT1	Truck	947.770155
Placer	2020	LDT1	Truck	0.845107778
Placer	2020	LDT1	Truck	0
Placer	2020	LDT2	Truck	6739.328294
Placer	2020	LDT2	Truck	8.548405847
Placer	2020	LHDT1	Truck	314.4667248
Placer	2020	LHDT1	Truck	258.9332499
Placer	2020	LHDT2	Truck	98.26295015
Placer	2020	LHDT2	Truck	139.984082
Placer	2020	MCY	Passenger	102.6356289
Placer	2020	MDV	Truck	4431.29654
Placer	2020	MDV	Truck	57.41863927
Placer	2020	MH	Other	46.01814709
Placer	2020	MH	Other	10.20868026
Placer	2020	MHDT	Truck	113.3721599
Placer	2020	MHDT	Truck	1493.505999
Placer	2020	OBUS	Bus	126.6122937
Placer	2020	OBUS	Bus	72.92197863
Placer	2020	SBUS	Bus	9.161153751
Placer	2020	SBUS	Bus	43.71233047
Placer	2020	UBUS	Bus	77.63260773
Placer	2020	UBUS	Bus	126.4291434

Project VMT (mi/yr)	702,000	From CalEEMod output	26,010
Project Mobile Emissions (MT/yr)	517	From CalEEMod output	5,463

	Gas (gal)	Diesel (gal)
Passenger	13,088	113
Truck	12,663	5,096
Bus	213	243
Other	46	10
Total	26,010	5,463