

Vehicle Fuels

Construction Phase (gallons/construction period)	Gasoline	Diesel
Construction Vehicles	0	16,661
Worker Trips	3,234	4
Vendor Trips	169	2
Haul Trucks	280	24,990
Total	3,682	41,657

Operations Phase (gallons/year)	Gasoline	Diesel	Natural Gas (kBTU/yr)	Electricity (kWh/yr)
University/College (4Yr)	143,083	5,437	0	133,200

All Land Uses	143,083	5,437	0	133,200
---------------	---------	-------	---	---------

Gallons of Gasoline and Diesel

Vehicle Types	2021						
	MPG by Fuel Type			Population by Fuel Type			
	GAS	DSL	ELEC	GAS	DSL	ELEC	
LDA	28.4	38.1		6,129,320	60,806	185,241	6,190,126
LDT1	23.9	27.0		516,238	611	374	516,850
LDT2	21.4	28.9		2,174,513	3,911		2,178,424
LHDT1	11.0	20.6		113,026	92,129		205,155
LHDT2	10.2	18.9		23,842	39,243		63,084
MCY	35.1			291,015			291,015
MDV	15.7	22.3		1,429,997	23,971		1,453,967
MH	7.4	10.2		35,927	9,422		45,349
MHDT	7.0	8.7		19,583	131,577		150,880
HHDT	4.7	5.8		794	87,478		88,273
OBUS	7.2	7.3		8,463	5,410		13,873
SBUS	11.4	7.2		2,317	5,168		7,485
UBUS	5.0	4.8		2,327	4,338		6,665

Trips/Day Land Use Soccer Fields	Trips/Day Weekday	Trips/Day Saturday	Trips/Day Sunday
	571	3,239	2,303
Total	571	3,239	2,303

Fleet Mix Land Use University/College (4Yr)	LDA	LDT1	LDT2	MDV	LHDT1	LHDT2	MHDT	HHDT	OBUS	UBUS	MCY	SBUS	MH	Total
	0.598831	0.040287	0.194963	0.12954	0.018656	0.002716	0.001085	0.001085	0.001463	0.001744	0.006511	0.000881	0.001096	100.0%
														0.0%
														0.0%
														0.0%

Vehicle Trips Weekday Trips Soccer Fields	LDA	LDT1	LDT2	MDV	LHDT1	LHDT2	MHDT	HHDT	Obus	Ubus	MCY	Sbus	MH	Total	Weekday	
															Daily VMT	Annual VMT
	341	23	111	74	11	3	1	1	1	4	1	1	1	571	9,483.32	2,465,864
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	0
Total	341	23	111	74	11	3	1	1	1	4	1	1	1	571		2,465,864

Saturday Trips University/College (4Yr)	LDA	LDT1	LDT2	MDV	LHDT1	LHDT2	MHDT	HHDT	Obus	Ubus	MCY	Sbus	MH	Total	Saturday	
															Daily VMT	Annual VMT
	1933	130	631	420	61	19	4	4	5	6	21	3	4	3,239	9,483	483,133
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	0
Total	1933	130	631	420	61	19	4	4	5	6	21	3	4	3,239		483,133

Sunday Trips University/College (4Yr)	LDA	LDT1	LDT2	MDV	LHDT1	LHDT2	MHDT	HHDT	Obus	Ubus	MCY	Sbus	MH	Total	Sunday	
															Daily VMT	Annual VMT
	1375	93	449	299	43	13	2	2	3	4	15	2	3	2,303	9,483	483,133
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	0
Total	1375	93	449	299	43	13	2	2	3	4	15	2	3	2,303		483,133

Gallons of Fuel Gasoline University/College (4Yr)	LDA	LDT1	LDT2	MDV	LHDT1	LHDT2	MHDT	HHDT	Obus	Ubus	MCY	Sbus	MH	Total	Total Gallons Gasoline	
															Daily VMT	Annual VMT
	71,830	5,812	31,392	28,034	3,233	731	68	7	428	420	640	83	405	143,083		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	0
Total	71,830	5,812	31,392	28,034	3,233	731	68	7	428	420	640	83	405	143,083		143,083

Diesel University/College (4Yr)	LDA	LDT1	LDT2	MDV	OBUS	LHDT2	MHDT	HHDT	Obus	Ubus	MCY	Sbus	MH	Total	Total Gallons Diesel	
															Daily VMT	Annual VMT
	531	6	42	331	1,407	649	376	640	270	816	0	292	77	5,437		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	0
Total	531	6	42	331	1,407	649	376	640	270	816	0	292	77	5,437		5,437

148,520 Total Gallons of Diesel and Gasoline

23 Average MPG

Utilities

	Natural Gas Use	Electricity Use
Land Use	kBTU/yr	kWh/yr
Soccer Fields	0	133,200
Total	0	133,200

EMFAC2014 (v1.0.7) Emissions Inventory

Region Type: Air Basin

Region: South Coast

Calendar Year: 2019, 2021

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	MdlYr	Speed	Fuel	Population	VMT	Trips	Fuel_Cons	Fuel_Consumption (mpg)
South Coa	2019	HHDT	Aggregate	Aggregate	GAS	760.1068149	97093.24411	15208.21715	20.93908	4.6
South Coa	2019	HHDT	Aggregate	Aggregate	DSL	82923.99003	11260491.75	0	1970.735	5.7
South Coa	2019	LDA	Aggregate	Aggregate	GAS	5980840.202	208813623	37720472.98	7773.186	26.9
South Coa	2019	LDA	Aggregate	Aggregate	DSL	52672.89405	1989324.277	326978.0645	55.20089	36.0
South Coa	2019	LDA	Aggregate	Aggregate	ELEC	94014.36646	4447285.892	612658.2477	0	#DIV/0!
South Coa	2019	LDT1	Aggregate	Aggregate	GAS	511602.2596	17332147.22	3105638.035	765.2238	22.6
South Coa	2019	LDT1	Aggregate	Aggregate	DSL	663.5524116	17789.40286	3429.3973	0.684673	26.0
South Coa	2019	LDT1	Aggregate	Aggregate	ELEC	408.7296559	12775.93149	2471.379468	0	#DIV/0!
South Coa	2019	LDT2	Aggregate	Aggregate	GAS	2084013.156	78122888.55	13175061.38	3885.932	20.1
South Coa	2019	LDT2	Aggregate	Aggregate	DSL	3286.082304	137297.708	21206.99925	4.962145	27.7
South Coa	2019	LHDT1	Aggregate	Aggregate	GAS	125322.1636	3677883.76	1867113.507	338.1223	10.9
South Coa	2019	LHDT1	Aggregate	Aggregate	DSL	87814.66959	3185947.117	1104598.073	157.9334	20.2
South Coa	2019	LHDT2	Aggregate	Aggregate	GAS	24738.91967	860280.2339	368573.0421	85.18335	10.1
South Coa	2019	LHDT2	Aggregate	Aggregate	DSL	36213.94114	1443309.659	455525.8224	78.17042	18.5
South Coa	2019	MCY	Aggregate	Aggregate	GAS	272368.9084	1832494.707	544683.343	51.99806	35.2
South Coa	2019	MDV	Aggregate	Aggregate	GAS	1430730.588	47981753.87	8907055.986	3207.346	15.0
South Coa	2019	MDV	Aggregate	Aggregate	DSL	19777.72781	796290.6324	127083.6955	37.31627	21.3
South Coa	2019	MH	Aggregate	Aggregate	GAS	37614.74032	306253.881	3762.978621	41.69436	7.3
South Coa	2019	MH	Aggregate	Aggregate	DSL	9461.666118	81403.44168	946.1666118	7.980653	10.2
South Coa	2019	MHDT	Aggregate	Aggregate	GAS	19037.42033	937806.8442	380900.706	135.2491	6.9
South Coa	2019	MHDT	Aggregate	Aggregate	DSL	126666.8857	6973371.058	0	802.1786	8.7
South Coa	2019	OBUS	Aggregate	Aggregate	GAS	7989.769365	370502.5846	159859.3054	51.98432	7.1
South Coa	2019	OBUS	Aggregate	Aggregate	DSL	4914.333955	409995.1496	0	56.87007	7.2
South Coa	2019	SBUS	Aggregate	Aggregate	GAS	2082.560611	79169.09813	8330.242442	7.006711	11.3
South Coa	2019	SBUS	Aggregate	Aggregate	DSL	5135.229702	196273.7834	0	27.25578	7.2
South Coa	2019	UBUS	Aggregate	Aggregate	GAS	2195.840662	251022.3672	8783.362647	50.53798	5.0
South Coa	2019	UBUS	Aggregate	Aggregate	DSL	4691.488612	539067.0204	18765.95445	114.0498	4.7
South Coa	2021	HHDT	Aggregate	Aggregate	GAS	794.3344011	102368.0206	15893.0427	21.59117	4.7
South Coa	2021	HHDT	Aggregate	Aggregate	DSL	87478.43574	12125606.5	0	2073.184	5.8
South Coa	2021	LDA	Aggregate	Aggregate	GAS	6129320.41	210280085	38690906.61	7396.917	28.4
South Coa	2021	LDA	Aggregate	Aggregate	DSL	60805.77235	2218008.422	379671.0751	58.25928	38.1
South Coa	2021	LDA	Aggregate	Aggregate	ELEC	185240.5375	8480463.106	1207126.871	0	#DIV/0!
South Coa	2021	LDT1	Aggregate	Aggregate	GAS	516238.3996	17365475.45	3138697.285	727.8426	23.9
South Coa	2021	LDT1	Aggregate	Aggregate	DSL	611.2529551	16312.40511	3163.715855	0.603979	27.0
South Coa	2021	LDT1	Aggregate	Aggregate	ELEC	373.6071642	11577.4823	2253.435841	0	#DIV/0!
South Coa	2021	LDT2	Aggregate	Aggregate	GAS	2174512.844	80418424.29	13771040.1	3764.218	21.4
South Coa	2021	LDT2	Aggregate	Aggregate	DSL	3910.542673	155343.4187	25178.53675	5.371731	28.9
South Coa	2021	LHDT1	Aggregate	Aggregate	GAS	113025.4594	3215840.851	1683910.936	293.6121	11.0
South Coa	2021	LHDT1	Aggregate	Aggregate	DSL	92129.21869	3261305.269	1158869.673	158.6404	20.6
South Coa	2021	LHDT2	Aggregate	Aggregate	GAS	23841.54127	822565.6592	355203.441	80.43535	10.2
South Coa	2021	LHDT2	Aggregate	Aggregate	DSL	39242.91455	1527691.523	493626.4975	80.94701	18.9
South Coa	2021	MCY	Aggregate	Aggregate	GAS	291014.9991	1909912.74	581971.7953	54.37014	35.1
South Coa	2021	MDV	Aggregate	Aggregate	GAS	1429996.825	47281662.99	8897781.164	3003.175	15.7
South Coa	2021	MDV	Aggregate	Aggregate	DSL	23970.56655	919215.3527	153769.6909	41.13188	22.3
South Coa	2021	MH	Aggregate	Aggregate	GAS	35926.66558	290848.752	3594.103625	39.30996	7.4
South Coa	2021	MH	Aggregate	Aggregate	DSL	9422.313034	79339.11483	942.2313034	7.74153	10.2
South Coa	2021	MHDT	Aggregate	Aggregate	GAS	19102.86501	931271.2373	382210.1231	132.8434	7.0
South Coa	2021	MHDT	Aggregate	Aggregate	DSL	131577.0427	7496367.422	0	858.1763	8.7
South Coa	2021	OBUS	Aggregate	Aggregate	GAS	8463.305578	382011.8401	169333.818	53.09061	7.2
South Coa	2021	OBUS	Aggregate	Aggregate	DSL	5409.759663	443311.1096	0	60.66222	7.3
South Coa	2021	SBUS	Aggregate	Aggregate	GAS	2316.943348	86265.44811	9267.773392	7.582652	11.4
South Coa	2021	SBUS	Aggregate	Aggregate	DSL	5167.595164	196514.7008	0	27.15574	7.2
South Coa	2021	UBUS	Aggregate	Aggregate	GAS	2326.48048	260196.854	9305.921918	51.78467	5.0
South Coa	2021	UBUS	Aggregate	Aggregate	DSL	4338.227621	487717.8262	17352.91049	101.1923	4.8

Fuel Use

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Horsepower Category	Load Factor	Num Days	Year	Fuel Consumption Rate (gal/hour)	Total Fuel Consumption (gal/construction period)
Site Preparation	Rubber Tired Dozers	3	8	247	300	0.4	52	2019	4.5	2,226
Site Preparation	Tractors/Loaders/Backhoes	4	8	97	100	0.37	52	2019	1.6	978
Grading	Excavators	2	8	158	175	0.38	78	2019	2.9	1,368
Grading	Graders	1	8	187	175	0.41	78	2019	3.1	806
Grading	Rubber Tired Dozers	1	8	247	300	0.4	78	2019	4.5	1,113
Grading	Scrapers	2	8	367	300	0.48	78	2019	5.6	3,338
Grading	Tractors/Loaders/Backhoes	2	8	97	100	0.37	78	2019	1.6	734
Building Construction	Cranes	1	7	231	300	0.29	78	2019	3.3	523
Building Construction	Forklifts	3	8	89	100	0.2	78	2019	2.0	749
Building Construction	Generator Sets	1	8	84	100	0.74	78	2019	5.2	2,410
Building Construction	Tractors/Loaders/Backhoes	3	7	97	100	0.37	78	2019	1.6	963
Building Construction	Welders	1	8	46	50	0.45	78	2019	2.4	678
Paving	Pavers	2	8	130	100	0.42	22	2019	1.7	258
Paving	Paving Equipment	2	8	132	100	0.36	22	2019	1.6	208
Paving	Rollers	2	8	80	100	0.38	22	2019	1.7	226
Architectural Coating	Air Compressors	1	6	78	100	0.48	22	2019	1.3	84
Total										16,661

