

# **Appendix E**

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## Energy Worksheet

**Operational Transportation Energy Worksheet**

Source: EMFAC2025 (v2.0.0) Emissions Inventory

Region Type: County

Region: Riverside

Calendar Year: 2027

Season: Annual

Vehicle Classification: EMFAC2007 Categories

Units: miles/year for Combustion VMT and Electric VMT, trips/year for Trips, tons/year for Emissions, 1000 gallons/year for Fuel Consumption, kWh/year for Energy Consumption, kg/yr

Region	Calendar Year	Vehicle Category	Model Year	Speed	Fuel	Total VMT	Fuel Consumption	MPG
Riverside	2027	HHDT	Aggregate	Aggregate	Diesel	1640887972	255243.694	6.4287111
Riverside	2027	HHDT	Aggregate	Aggregate	Diesel	11212303.78	287.8694343	38.949268
Riverside	2027	HHDT	Aggregate	Aggregate	Diesel	155147.1385	6.658637123	23.300134
Riverside	2027	HHDT	Aggregate	Aggregate	Diesel	6867346.473	216.0915695	31.779798
Riverside	2027	HHDT	Aggregate	Aggregate	Diesel	158452925.5	7642.863707	20.732141
Riverside	2027	LDA	Aggregate	Aggregate	Diesel	152870479.3	8430.228244	18.133611
Riverside	2027	LDA	Aggregate	Aggregate	Diesel	92072384.34	3726.340142	24.708529
Riverside	2027	LDA	Aggregate	Aggregate	Diesel	6609478.414	639.0942542	10.341946
Riverside	2027	LDA	Aggregate	Aggregate	Diesel	196453259.2	22022.64376	8.9205121
Riverside	2027	LDA	Aggregate	Aggregate	Diesel	4590102.934	566.5557516	8.1017674
Riverside	2027	LDT1	Aggregate	Aggregate	Diesel	3523061.673	477.4907505	7.3782826
						<b>Total Fuel:</b>	<b>299,259,530</b>	
Riverside	2027	MDV	Aggregate	Aggregate	Gasoline	102064.2086	26.74551535	3.8161242
Riverside	2027	MH	Aggregate	Aggregate	Gasoline	5401881704	202335.3317	26.697669
Riverside	2027	MH	Aggregate	Aggregate	Gasoline	506097626.8	22506.02315	22.487208
Riverside	2027	MHDT	Aggregate	Aggregate	Gasoline	3466667674	152315.4131	22.759796
Riverside	2027	MHDT	Aggregate	Aggregate	Gasoline	214951381.7	15164.63325	14.174519
Riverside	2027	MHDT	Aggregate	Aggregate	Gasoline	53331097.04	3959.903906	13.467776
Riverside	2027	MHDT	Aggregate	Aggregate	Gasoline	56042296.75	1391.453438	40.276085
Riverside	2027	MHDT	Aggregate	Aggregate	Gasoline	2444336664	133646.9568	18.289505
Riverside	2027	OBUS	Aggregate	Aggregate	Gasoline	15600041.2	3203.289126	4.8700072
Riverside	2027	OBUS	Aggregate	Aggregate	Gasoline	32784784.27	6062.625646	5.4076874
Riverside	2027	OBUS	Aggregate	Aggregate	Gasoline	4293335.493	841.4403251	5.1023648
Riverside	2027	OBUS	Aggregate	Aggregate	Gasoline	5554462.979	611.4618082	9.0839083
Riverside	2027	OBUS	Aggregate	Aggregate	Gasoline	75082.7843	19.80954877	3.7902319
						<b>Total Fuel:</b>	<b>542,085,087</b>	
Riverside	2027	LDT1	Aggregate	Aggregate	Electricity	10967760.72		0
Riverside	2027	LDT1	Aggregate	Aggregate	Electricity	1158626464		0
Riverside	2027	LDT1	Aggregate	Aggregate	Electricity	16020434.53		0
Riverside	2027	LDT2	Aggregate	Aggregate	Electricity	207794100.2		0
Riverside	2027	LDT2	Aggregate	Aggregate	Electricity	7507455.774		0
Riverside	2027	LDT2	Aggregate	Aggregate	Electricity	6941212.888		0
Riverside	2027	LDT2	Aggregate	Aggregate	Electricity	133937378.8		0
Riverside	2027	LHDT1	Aggregate	Aggregate	Electricity	6376832.267		0
Riverside	2027	LHDT1	Aggregate	Aggregate	Electricity	249451.9978		0
Riverside	2027	LHDT1	Aggregate	Aggregate	Electricity	324077.4423		0
Riverside	2027	LHDT1	Aggregate	Aggregate	Electricity	826554.3308		0
Riverside	2027	LHDT2	Aggregate	Aggregate	Fuel Cell Electric V	1470980.452		0
Riverside	2027	LHDT2	Aggregate	Aggregate	Fuel Cell Electric V	5221959.004		0
Riverside	2027	LHDT2	Aggregate	Aggregate	Fuel Cell Electric V	268130.3611		0
Riverside	2027	LHDT2	Aggregate	Aggregate	Fuel Cell Electric V	257443.8355		0
Riverside	2027	MCY	Aggregate	Aggregate	Fuel Cell Electric V	317947.1614		0
Riverside	2027	MDV	Aggregate	Aggregate	Fuel Cell Electric V	5947.219573		0
Riverside	2027	MDV	Aggregate	Aggregate	Fuel Cell Electric V	6087.984858		0
Riverside	2027	MDV	Aggregate	Aggregate	Fuel Cell Electric V	7139.115999		0
Riverside	2027	SBUS	Aggregate	Aggregate	Natural Gas	34386945.37	5286.510596	
Riverside	2027	SBUS	Aggregate	Aggregate	Natural Gas	1632076.907	185.7780544	
Riverside	2027	SBUS	Aggregate	Aggregate	Natural Gas	1187586.315	3.723142381	
Riverside	2027	SBUS	Aggregate	Aggregate	Natural Gas	5298768.192	1242.730441	
Riverside	2027	SBUS	Aggregate	Aggregate	Natural Gas	12181323.96	2420.709329	
Riverside	2027	UBUS	Aggregate	Aggregate	Plug-in Hybrid	224693778.9	3918.096514	
Riverside	2027	UBUS	Aggregate	Aggregate	Plug-in Hybrid	1570906.676	28.82385815	
Riverside	2027	UBUS	Aggregate	Aggregate	Plug-in Hybrid	59571326.51	1122.955804	
Riverside	2027	UBUS	Aggregate	Aggregate	Plug-in Hybrid	34260820.93	662.8789136	
Total VMT	Diesel VMT	Gasoline VMT		Average Diesel MPG*	Average Gasoline MPG*			
16,407,323,567	2,273,694,460	12,201,718,215		9	23			
<b>Percent of Total:</b>	<b>13.86</b>	<b>74.37</b>						

\* weighted by percentage of VMT for each vehicle category