

APPENDIX F

Energy Calculations

| Phase | Worker Trips/Day | Worker Trip Length | Worker VMT/Day | Phase Length (Days) | Work VMT (Total) | Vendor Trips (Total) | Vendor Trip Length | Vendor VMT (Total) | Hauling Trips | Hauling Trip Length | Hauling VMT (Total) |
|---|------------------|--------------------|----------------|---------------------|------------------|----------------------|--------------------|--------------------|---------------|---------------------|---------------------|
| Pipeline Grubbing and Clearing | 28 | 18.5 | 518.00 | 27 | 13,986.00 | 0 | 10.2 | 0 | 0 | 20 | 0 |
| Pipeline Grading and Excavation | 28 | 18.5 | 518.00 | 117 | 60,606.00 | 0 | 10.2 | 0 | 21 | 20 | 420 |
| Pipeline Drainage, Utilities, Sub-Grade | 30 | 18.5 | 555.00 | 78 | 43,290.00 | 0 | 10.2 | 0 | 0 | 20 | 0 |
| Pipeline Paving | 30 | 18.5 | 555.00 | 39 | 21,645.00 | 0 | 10.2 | 0 | 0 | 20 | 0 |
| Lift Station Grubbing and Clearing | 28 | 18.5 | 518.00 | 11 | 5,698.00 | 0 | 10.2 | 0 | 0 | 20 | 0 |
| Lift Station Grading and Excavation | 28 | 18.5 | 518.00 | 49 | 25,382.00 | 0 | 10.2 | 0 | 0 | 20 | 0 |
| Lift Station Construction | 5 | 18.5 | 92.50 | 180 | 16,650.00 | 2 | 10.2 | 20.4 | 0 | 20 | 0 |
| Lift Station Paving | 30 | 18.5 | 555.00 | 21 | 11,655.00 | 0 | 10.2 | 0 | 0 | 20 | 0 |
| | | | | | 198,912.00 | | | 20.40 | | | 420.00 |
| | | | | | | | | | | | 199,352.40 |

Source: EMFAC2025 (v2.0.0) Emissions Inventory
 Region Type: Sub-Area
 Region: Riverside (SC)
 Calendar Year: 2027
 Season: Annual
 Vehicle Classification: EMFAC202Y Categories
 Units: miles/day for Combustion VMT and Electric VMT, trips/day for Trips, tons/day for Emissions, 1000 gallons/day for Fuel Consumption, kWh/day for Energy Consumption, kg/day for Hydrogen Consumption

| Region | CalYr | VehClass | Fuel | Population | Pop % | Total VMT | Fuel VMT | Elec VMT | Fuel Consumption (1,000 gal/day) | Fuel Efficiency (mpg) | Elec Efficiency (mpkWh) | Worker VMT | Total Fuel Consumption | Total kWh Consumption |
|-------------------------|-------|--|----------------|---------------|-------|---------------|---------------|--------------|----------------------------------|-----------------------|-------------------------|------------|------------------------|-----------------------|
| Workers | | | | | | | | | | | | | | |
| Riverside (SC) | 2027 | LDA | Gasoline | 379450.5983 | 50.3% | 11,927,956.60 | 11,927,956.60 | 0.00 | 442.59 | 26.95 | | 100,068.81 | 3,713.10 | |
| Riverside (SC) | 2027 | LDA | Diesel | 990,240,3645 | 0.1% | 25,424.08 | 25,424.08 | 0.00 | 0.65 | 39.15 | | 261.15 | 6.67 | |
| Riverside (SC) | 2027 | LDA | Electricity | 57349.29633 | 7.6% | 2,526,778.21 | 0.00 | 2,526,778.21 | 0.00 | | 3.01 | 15,124.17 | 5,026.97 | |
| Riverside (SC) | 2027 | LDA | Plug-in Hybrid | 11855.6252 | 1.6% | 491,187.93 | 232,903.43 | 0.00 | 8.41 | 27.70 | 2.72 | 3,126.57 | 112.88 | |
| Riverside (SC) | 2027 | LDT1 | Gasoline | 36646.92342 | 4.9% | 1,096,110.76 | 1,096,110.76 | 0.00 | 48.27 | 22.71 | | 9,664.54 | 425.63 | |
| Riverside (SC) | 2027 | LDT1 | Diesel | 13,116,094,52 | 0.0% | 282.19 | 282.19 | 0.00 | 0.01 | 23.40 | | 3.46 | 0.15 | |
| Riverside (SC) | 2027 | LDT1 | Electricity | 680,904,8233 | 0.1% | 34,678.91 | 0.00 | 34,678.91 | 0.00 | | 2.68 | 179.57 | 67.12 | |
| Riverside (SC) | 2027 | LDT1 | Plug-in Hybrid | 68,272,44591 | 0.0% | 3,358.07 | 1,668.12 | 1,689.95 | 0.06 | 27.72 | 2.33 | 18.00 | 0.65 | |
| Riverside (SC) | 2027 | LDT2 | Gasoline | 210661.7851 | 27.9% | 7,499,385.21 | 7,499,385.21 | 0.00 | 326.63 | 22.96 | | 55,555.78 | 2,419.72 | |
| Riverside (SC) | 2027 | LDT2 | Diesel | 420,658,7929 | 0.1% | 14,854.85 | 14,854.85 | 0.00 | 0.47 | 31.90 | | 110.94 | 3.48 | |
| Riverside (SC) | 2027 | LDT2 | Electricity | 9299.370614 | 1.2% | 448,905.64 | 0.00 | 448,905.64 | 0.00 | | 2.41 | 2,452.43 | 1,018.24 | |
| Riverside (SC) | 2027 | LDT2 | Plug-in Hybrid | 2763.192249 | 0.4% | 127,677.88 | 64,929.50 | 62,748.38 | 2.35 | 27.58 | 2.04 | 728.71 | 26.43 | 356.37 |
| Riverside (SC) | 2027 | LHD1 Other | Gasoline | 15630.00911 | 2.1% | 467,379.49 | 467,379.49 | 0.00 | 32.96 | 14.18 | | 4,121.95 | 290.69 | |
| Riverside (SC) | 2027 | LHD1 Other | Diesel | 13201.64254 | 1.8% | 386,080.92 | 386,080.92 | 0.00 | 18.63 | 20.72 | | 3,481.54 | 168.01 | |
| Riverside (SC) | 2027 | LHD1 Other | Electricity | 330,236,4756 | 0.0% | 16,654.79 | 0.00 | 16,654.79 | 0.00 | | 1.77 | 87.09 | 49.16 | |
| Riverside (SC) | 2027 | LHD1 Public | Gasoline | 1073.513786 | 0.1% | 32,100.96 | 32,100.96 | 0.00 | 2.26 | 14.18 | | 283.11 | 19.97 | |
| Riverside (SC) | 2027 | LHD1 Public | Diesel | 78,391,25018 | 0.0% | 2,292.25 | 2,292.25 | 0.00 | 0.11 | 20.72 | | 20.67 | 1.00 | |
| Riverside (SC) | 2027 | LHD1 Public | Electricity | 12,937,47004 | 0.0% | 652.47 | 0.00 | 652.47 | 0.00 | | 1.77 | 3.41 | 1.93 | |
| Riverside (SC) | 2027 | LHD2 Other | Gasoline | 2927.586124 | 0.4% | 102,460.78 | 102,460.78 | 0.00 | 7.53 | 13.61 | | 772.06 | 56.74 | |
| Riverside (SC) | 2027 | LHD2 Other | Diesel | 9944.033594 | 1.3% | 367,327.37 | 367,327.37 | 0.00 | 20.29 | 18.10 | | 2,622.44 | 144.89 | |
| Riverside (SC) | 2027 | LHD2 Other | Electricity | 289,092,0076 | 0.0% | 15,270.68 | 0.00 | 15,270.68 | 0.00 | | 1.77 | 76.24 | 43.03 | |
| Riverside (SC) | 2027 | LHD2 Public | Gasoline | 467.1763994 | 0.1% | 16,350.42 | 16,350.42 | 0.00 | 1.20 | 13.61 | | 123.20 | 9.06 | |
| Riverside (SC) | 2027 | LHD2 Public | Diesel | 85,495,59829 | 0.0% | 3,158.16 | 3,158.16 | 0.00 | 0.17 | 18.10 | | 22.55 | 1.25 | |
| Riverside (SC) | 2027 | LHD2 Public | Electricity | 13,682,59915 | 0.0% | 722.75 | 0.00 | 722.75 | 0.00 | | 1.77 | 3.61 | 2.04 | |
| Delivery/Hauling | | | | | | | | | | | | | | |
| Riverside (SC) | 2027 | T6 CAIRP Class 4 | Diesel | 8.55 | 0.0% | 474.86 | 474.86 | 0.00 | 0.05 | 9.35 | | 0.10 | 0.01 | |
| Riverside (SC) | 2027 | T6 CAIRP Class 5 | Diesel | 15.41 | 0.0% | 860.63 | 860.63 | 0.00 | 0.09 | 9.38 | | 0.19 | 0.02 | |
| Riverside (SC) | 2027 | T6 CAIRP Class 6 | Diesel | 37.55 | 0.1% | 2,074.34 | 2,074.34 | 0.00 | 0.22 | 9.40 | | 0.45 | 0.05 | |
| Riverside (SC) | 2027 | T6 CAIRP Class 7 | Diesel | 58.93 | 0.2% | 10,679.00 | 10,679.00 | 0.00 | 1.05 | 10.17 | | 0.71 | 0.07 | |
| Riverside (SC) | 2027 | T6 Instate Delivery Class 4 | Diesel | 333.13 | 0.9% | 9,658.09 | 9,658.09 | 0.00 | 1.10 | 8.79 | | 4.03 | 0.46 | |
| Riverside (SC) | 2027 | T6 Instate Delivery Class 5 | Diesel | 368.24 | 1.0% | 10,751.64 | 10,751.64 | 0.00 | 1.22 | 8.81 | | 4.45 | 0.50 | |
| Riverside (SC) | 2027 | T6 Instate Delivery Class 6 | Diesel | 1,370.69 | 3.8% | 40,236.41 | 40,236.41 | 0.00 | 4.47 | 8.99 | | 16.56 | 1.84 | |
| Riverside (SC) | 2027 | T6 Instate Delivery Class 7 | Diesel | 179.66 | 0.5% | 9,224.36 | 9,224.36 | 0.00 | 1.01 | 9.16 | | 2.17 | 0.24 | |
| Riverside (SC) | 2027 | T6 Instate Other Class 4 | Diesel | 1,159.84 | 3.2% | 41,451.09 | 41,451.09 | 0.00 | 4.81 | 8.61 | | 14.02 | 1.63 | |
| Riverside (SC) | 2027 | T6 Instate Other Class 5 | Diesel | 4,745.50 | 13.0% | 175,278.16 | 175,278.16 | 0.00 | 20.01 | 8.76 | | 57.35 | 6.55 | |
| Riverside (SC) | 2027 | T6 Instate Other Class 6 | Diesel | 3,206.21 | 8.8% | 117,334.58 | 117,334.58 | 0.00 | 13.29 | 8.83 | | 38.75 | 4.39 | |
| Riverside (SC) | 2027 | T6 Instate Other Class 7 | Diesel | 1,298.70 | 3.6% | 52,477.23 | 52,477.23 | 0.00 | 5.85 | 8.97 | | 15.69 | 1.75 | |
| Riverside (SC) | 2027 | T6 Instate Tractor Class 6 | Diesel | 12.66 | 0.0% | 790.77 | 790.77 | 0.00 | 0.09 | 8.75 | | 0.15 | 0.02 | |
| Riverside (SC) | 2027 | T6 Instate Tractor Class 7 | Diesel | 352.42 | 1.0% | 20,787.53 | 20,787.53 | 0.00 | 2.03 | 10.26 | | 4.26 | 0.42 | |
| Riverside (SC) | 2027 | T6 OOS Class 4 | Diesel | 5.04 | 0.0% | 286.63 | 286.63 | 0.00 | 0.03 | 9.68 | | 0.06 | 0.01 | |
| Riverside (SC) | 2027 | T6 OOS Class 5 | Diesel | 9.03 | 0.0% | 518.83 | 518.83 | 0.00 | 0.05 | 9.72 | | 0.11 | 0.01 | |
| Riverside (SC) | 2027 | T6 OOS Class 6 | Diesel | 22.00 | 0.1% | 1,241.77 | 1,241.77 | 0.00 | 0.13 | 9.71 | | 0.27 | 0.03 | |
| Riverside (SC) | 2027 | T6 OOS Class 7 | Diesel | 33.66 | 0.1% | 7,201.34 | 7,201.34 | 0.00 | 0.69 | 10.51 | | 0.41 | 0.04 | |
| Riverside (SC) | 2027 | T6 Public Class 4 | Diesel | 35.35 | 0.1% | 1,096.13 | 1,096.13 | 0.00 | 0.13 | 8.42 | | 0.43 | 0.05 | |
| Riverside (SC) | 2027 | T6 Public Class 5 | Diesel | 76.61 | 0.2% | 2,395.07 | 2,395.07 | 0.00 | 0.28 | 8.41 | | 0.93 | 0.11 | |
| Riverside (SC) | 2027 | T6 Public Class 6 | Diesel | 83.71 | 0.2% | 2,284.18 | 2,284.18 | 0.00 | 0.28 | 8.30 | | 1.01 | 0.12 | |
| Riverside (SC) | 2027 | T6 Public Class 7 | Diesel | 144.99 | 0.4% | 4,994.30 | 4,994.30 | 0.00 | 0.59 | 8.42 | | 1.75 | 0.21 | |
| Riverside (SC) | 2027 | T6 Utility Class 5 | Diesel | 91.50 | 0.3% | 3,627.26 | 3,627.26 | 0.00 | 0.41 | 8.85 | | 1.11 | 0.12 | |
| Riverside (SC) | 2027 | T6 Utility Class 6 | Diesel | 17.42 | 0.0% | 613.88 | 613.88 | 0.00 | 0.07 | 9.23 | | 0.21 | 0.02 | |
| Riverside (SC) | 2027 | T6 Utility Class 7 | Diesel | 15.43 | 0.0% | 695.34 | 695.34 | 0.00 | 0.07 | 9.33 | | 0.19 | 0.02 | |
| Riverside (SC) | 2027 | T7 CAIRP Class 8 | Diesel | 5,388.07 | 14.8% | 837,437.24 | 837,437.24 | 0.00 | 134.63 | 6.22 | | 65.11 | 10.47 | |
| Riverside (SC) | 2027 | T7 NNOOS Class 8 | Diesel | 4,121.87 | 11.3% | 967,632.28 | 967,632.28 | 0.00 | 143.36 | 6.75 | | 49.81 | 7.38 | |
| Riverside (SC) | 2027 | T7 NOOS Class 8 | Diesel | 1,602.46 | 4.4% | 343,250.55 | 343,250.55 | 0.00 | 53.33 | 6.44 | | 19.37 | 3.01 | |
| Riverside (SC) | 2027 | T7 POLA Class 8 | Diesel | 2,022.88 | 5.6% | 426,874.17 | 426,874.17 | 0.00 | 67.10 | 6.36 | | 24.45 | 3.84 | |
| Riverside (SC) | 2027 | T7 Public Class 8 | Diesel | 333.58 | 0.9% | 11,844.10 | 11,844.10 | 0.00 | 2.05 | 5.77 | | 4.03 | 0.70 | |
| Riverside (SC) | 2027 | T7 Single Concrete/Transit Mix Class 8 | Diesel | 1,112.59 | 3.1% | 59,057.35 | 59,057.35 | 0.00 | 9.78 | 6.04 | | 13.45 | 2.23 | |
| Riverside (SC) | 2027 | T7 Single Dump Class 8 | Diesel | 1,298.15 | 3.6% | 65,942.39 | 65,942.39 | 0.00 | 11.03 | 5.98 | | 15.69 | 2.62 | |
| Riverside (SC) | 2027 | T7 Single Other Class 8 | Diesel | 1,116.50 | 3.1% | 62,930.58 | 62,930.58 | 0.00 | 10.26 | 6.13 | | 13.49 | 2.20 | |
| Riverside (SC) | 2027 | T7 SWCV Class 8 | Diesel | 16.35 | 0.0% | 1,054.44 | 1,054.44 | 0.00 | 0.38 | 2.76 | | 0.20 | 0.07 | |
| Riverside (SC) | 2027 | T7 Tractor Class 8 | Diesel | 5,658.60 | 15.5% | 466,616.76 | 466,616.76 | 0.00 | 71.04 | 6.57 | | 68.38 | 10.41 | |
| Riverside (SC) | 2027 | T7 Utility Class 8 | Diesel | 88.58 | 0.2% | 3,811.13 | 3,811.13 | 0.00 | 0.60 | 6.38 | | 1.07 | 0.17 | |

| Total |
|-------------------------|
| GAS 7,074.85 |
| DSL 387.21 |
| ELEC 7,720.22 |
| DSL 61.78 |

10667 Quail Valley Subarea 4 - Energy

| Equipment | Amount | Daily Usage Hours | Days per Year | Years | Gallons per Hour | Gallons per Day | Gallons per Year | Total Fuel Consumption (Gallons) |
|----------------------------------|--------|-------------------|---------------|-------|------------------|-----------------|------------------|----------------------------------|
| Tractors/Loaders/Backhoes | 2 | 8 | 261 | 20 | 1.74 | 28 | 7,279 | 145,583 |
| Excavators | 2 | 8 | 261 | 20 | 2.30 | 37 | 9,607 | 192,132 |
| Off-Highway Trucks–Water Truck | 2 | 8 | 261 | 20 | 4.91 | 79 | 20,492 | 409,838 |
| Off-Highway Trucks–Utility Truck | 2 | 8 | 261 | 20 | 6.66 | 107 | 27,777 | 555,544 |
| Air Compressors | 2 | 8 | 261 | 20 | 1.14 | 18 | 4,755 | 95,095 |
| Concrete/Industrial Saws | 2 | 8 | 261 | 20 | 1.39 | 22 | 5,790 | 115,794 |
| Sweepers/Scrubbers | 2 | 8 | 261 | 20 | 1.05 | 17 | 4,377 | 87,535 |
| Bore/Drill Rigs | 2 | 8 | 261 | 20 | 3.35 | 54 | 13,959 | 279,175 |
| Dumpers/Tenders | 2 | 8 | 261 | 20 | 6.66 | 107 | 27,777 | 555,544 |
| Generator Sets | 2 | 8 | 261 | 20 | 2.98 | 48 | 12,428 | 248,551 |
| Dozer | 2 | 8 | 261 | 20 | 4.16 | 67 | 17,361 | 347,218 |
| Crane | 2 | 8 | 261 | 20 | 4.25 | 68 | 17,715 | 354,309 |
| Paver | 2 | 8 | 261 | 20 | 2.27 | 36 | 9,467 | 189,335 |
| | | | | | 42.86 | 686 | 178,783 | 3,575,655 |

10667 Quail Valley Subarea 4 - Energy

Source: EMFAC2025 (v2.0.0) Emissions Inventory

Region Type: Sub-Area

Region: Riverside (SC)

Calendar Year: 2027

Season: Annual

Vehicle Classification: EMFAC202Y Categories

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

| Region | Calendar Year | Vehicle Category | Fuel | CVMT | Fuel Consumption | MPG |
|----------------|---------------|------------------|---------------------------------|----------------|------------------|-------|
| Riverside (SC) | 2027 | LDA | Gasoline | 11,927,956.60 | 442.59 | 26.95 |
| Riverside (SC) | 2027 | LDA | Diesel | 25,424.08 | 0.65 | 39.15 |
| Riverside (SC) | 2027 | LDT1 | Gasoline | 1,096,110.76 | 48.27 | 22.71 |
| Riverside (SC) | 2027 | LDT1 | Diesel | 282.19 | 0.01 | 23.40 |
| Riverside (SC) | 2027 | LDT2 | Gasoline | 7,499,385.21 | 326.63 | 22.96 |
| Riverside (SC) | 2027 | LDT2 | Diesel | 14,854.85 | 0.47 | 31.90 |
| Riverside (SC) | 2027 | LHD1 Other | Gasoline | 467,379.49 | 32.96 | 14.18 |
| Riverside (SC) | 2027 | LHD1 Other | Diesel | 386,080.92 | 18.63 | 20.72 |
| Riverside (SC) | 2027 | LHD1 Public | Gasoline | 32,100.96 | 2.26 | 14.18 |
| Riverside (SC) | 2027 | LHD1 Public | Diesel | 2,292.25 | 0.11 | 20.72 |
| Riverside (SC) | 2027 | LHD2 Other | Gasoline | 102,460.78 | 7.53 | 13.61 |
| Riverside (SC) | 2027 | LHD2 Other | Diesel | 367,327.37 | 20.29 | 18.10 |
| Riverside (SC) | 2027 | LHD2 Public | Gasoline | 16,350.42 | 1.20 | 13.61 |
| Riverside (SC) | 2027 | LHD2 Public | Diesel | 3,158.16 | 0.17 | 18.10 |
| | | | Total Gasoline | 21,141,744.21 | 861.46 | 24.54 |
| | | | Total Diesel | 799,419.83 | 40.34 | 19.82 |
| | | | Worker Trips per Year | 521.43 | | |
| | | | Worker VMT per Year | 10,428.57 | | |
| | | | Total Fuel if Gasoline Vehicles | 424.93 gallons | | |
| | | | Total Fuel if Diesel Vehicles | 526.20 gallons | | |

| | |
|-------------|----------------------|
| Electricity | 105,259.78 kWh/year |
| Natural Gas | 472,453.59 kBTU/year |

Emergency Generators

| | |
|------------------------|-----------------|
| Number | 5 generators |
| Hours per Day | 1 hour each |
| Hours per Year | 50 hours each |
| Total Hours per Year | 250 hours total |
| Gallons per Hour | 2.98 GPH |
| Total Gallons per Year | 744.80 gallons |

10667 Quail Valley Subarea 4 - Energy

Source: EMFAC2025 (v2.0.0) Emissions Inventory

Region Type: Sub-Area
Region: Riverside (SC)

Calendar Year: 2027

Season: Annual

Vehicle Classification: EMFAC202Y Categories

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

| Region | Calendar Year | Vehicle Category | Model Year | Speed | Fuel | Population | Total VMT | CVMT | EVMT | Trips | Energy Consumption | Fuel Consumption | MPG | Miles per kWh |
|----------------|---------------|-----------------------------|------------|-----------|----------------|------------|---------------|---------------|--------------|--------------|--------------------|------------------|--------|---------------|
| Riverside (SC) | 2027 | LDA | Aggregate | Aggregate | Gasoline | 379,450.60 | 11,927,956.60 | 11,927,956.60 | 0.00 | 1,651,028.73 | 0.00 | 442.59 | 26.95 | |
| Riverside (SC) | 2027 | LDA | Aggregate | Aggregate | Diesel | 990.24 | 25,424.08 | 25,424.08 | 0.00 | 4,141.80 | 0.00 | 0.65 | 39.15 | |
| Riverside (SC) | 2027 | LDA | Aggregate | Aggregate | Electricity | 57,349.30 | 2,526,778.21 | 0.00 | 2,526,778.21 | 282,432.53 | 839,850.73 | 0.00 | | 3.01 |
| Riverside (SC) | 2027 | LDA | Aggregate | Aggregate | Plug-in Hybrid | 11,855.63 | 491,187.93 | 232,903.43 | 258,284.50 | 45,828.80 | 94,806.65 | 8.41 | 27.70 | 2.72 |
| Riverside (SC) | 2027 | LDT1 | Aggregate | Aggregate | Gasoline | 36,646.92 | 1,096,110.76 | 1,096,110.76 | 0.00 | 147,966.91 | 0.00 | 48.27 | 22.71 | |
| Riverside (SC) | 2027 | LDT1 | Aggregate | Aggregate | Diesel | 13.12 | 282.19 | 282.19 | 0.00 | 35.25 | 0.00 | 0.01 | 23.40 | |
| Riverside (SC) | 2027 | LDT1 | Aggregate | Aggregate | Electricity | 680.90 | 34,678.91 | 0.00 | 34,678.91 | 3,406.17 | 12,962.55 | 0.00 | | 2.68 |
| Riverside (SC) | 2027 | LDT1 | Aggregate | Aggregate | Plug-in Hybrid | 68.27 | 3,358.07 | 1,668.12 | 1,689.95 | 277.49 | 724.34 | 0.06 | 27.72 | 2.33 |
| Riverside (SC) | 2027 | LDT2 | Aggregate | Aggregate | Gasoline | 210,661.79 | 7,499,385.21 | 7,499,385.21 | 0.00 | 1,012,054.70 | 0.00 | 326.63 | 22.96 | |
| Riverside (SC) | 2027 | LDT2 | Aggregate | Aggregate | Diesel | 420.66 | 14,854.85 | 14,854.85 | 0.00 | 2,056.84 | 0.00 | 0.47 | 31.90 | |
| Riverside (SC) | 2027 | LDT2 | Aggregate | Aggregate | Electricity | 9,299.37 | 448,905.64 | 0.00 | 448,905.64 | 49,373.02 | 186,383.52 | 0.00 | | 2.41 |
| Riverside (SC) | 2027 | LDT2 | Aggregate | Aggregate | Plug-in Hybrid | 2,763.19 | 127,677.88 | 64,929.50 | 62,748.38 | 11,729.81 | 30,686.73 | 2.35 | 27.58 | 2.04 |
| Riverside (SC) | 2027 | LHD1 Other | Aggregate | Aggregate | Gasoline | 15,630.01 | 467,379.49 | 467,379.49 | 0.00 | 223,361.43 | 0.00 | 32.96 | 14.18 | |
| Riverside (SC) | 2027 | LHD1 Other | Aggregate | Aggregate | Diesel | 13,201.64 | 386,080.92 | 386,080.92 | 0.00 | 159,283.68 | 0.00 | 18.63 | 20.72 | |
| Riverside (SC) | 2027 | LHD1 Other | Aggregate | Aggregate | Electricity | 330.24 | 16,654.79 | 0.00 | 16,654.79 | 4,339.19 | 9,400.94 | 0.00 | | 1.77 |
| Riverside (SC) | 2027 | LHD1 Public | Aggregate | Aggregate | Gasoline | 1,073.51 | 32,100.96 | 32,100.96 | 0.00 | 15,341.10 | 0.00 | 2.26 | 14.18 | |
| Riverside (SC) | 2027 | LHD1 Public | Aggregate | Aggregate | Diesel | 78.38 | 2,292.25 | 2,292.25 | 0.00 | 945.70 | 0.00 | 0.11 | 20.72 | |
| Riverside (SC) | 2027 | LHD1 Public | Aggregate | Aggregate | Electricity | 12.94 | 652.47 | 0.00 | 652.47 | 169.99 | 368.29 | 0.00 | | 1.77 |
| Riverside (SC) | 2027 | LHD2 Other | Aggregate | Aggregate | Gasoline | 2,927.59 | 102,460.78 | 102,460.78 | 0.00 | 47,539.71 | 0.00 | 7.53 | 13.61 | |
| Riverside (SC) | 2027 | LHD2 Other | Aggregate | Aggregate | Diesel | 9,944.03 | 367,327.37 | 367,327.37 | 0.00 | 136,333.89 | 0.00 | 20.29 | 18.10 | |
| Riverside (SC) | 2027 | LHD2 Other | Aggregate | Aggregate | Electricity | 289.09 | 15,270.68 | 0.00 | 15,270.68 | 4,316.36 | 8,619.66 | 0.00 | | 1.77 |
| Riverside (SC) | 2027 | LHD2 Public | Aggregate | Aggregate | Gasoline | 467.18 | 16,350.42 | 16,350.42 | 0.00 | 7,586.26 | 0.00 | 1.20 | 13.61 | |
| Riverside (SC) | 2027 | LHD2 Public | Aggregate | Aggregate | Diesel | 85.50 | 3,158.16 | 3,158.16 | 0.00 | 1,172.15 | 0.00 | 0.17 | 18.10 | |
| Riverside (SC) | 2027 | LHD2 Public | Aggregate | Aggregate | Electricity | 13.68 | 722.75 | 0.00 | 722.75 | 204.29 | 407.96 | 0.00 | | 1.77 |
| Riverside (SC) | 2027 | MCY | Aggregate | Aggregate | Gasoline | 24,668.31 | 127,056.66 | 127,056.66 | 0.00 | 47,160.50 | 0.00 | 3.16 | 40.21 | |
| Riverside (SC) | 2027 | MDV | Aggregate | Aggregate | Gasoline | 161,575.25 | 5,401,269.37 | 5,401,269.37 | 0.00 | 730,868.72 | 0.00 | 293.54 | 18.40 | |
| Riverside (SC) | 2027 | MDV | Aggregate | Aggregate | Diesel | 5,389.36 | 208,193.38 | 208,193.38 | 0.00 | 25,805.07 | 0.00 | 8.45 | 24.63 | |
| Riverside (SC) | 2027 | MDV | Aggregate | Aggregate | Electricity | 6,001.34 | 288,877.02 | 0.00 | 288,877.02 | 30,567.26 | 143,217.22 | 0.00 | | 2.02 |
| Riverside (SC) | 2027 | MDV | Aggregate | Aggregate | Plug-in Hybrid | 1,732.10 | 75,139.27 | 38,935.97 | 36,203.30 | 7,147.76 | 22,121.13 | 1.43 | 27.28 | 1.64 |
| Riverside (SC) | 2027 | MH | Aggregate | Aggregate | Gasoline | 5,000.54 | 38,839.43 | 38,839.43 | 0.00 | 528.92 | 0.00 | 7.95 | 4.88 | |
| Riverside (SC) | 2027 | MH | Aggregate | Aggregate | Diesel | 2,033.93 | 15,710.50 | 15,710.50 | 0.00 | 215.05 | 0.00 | 1.52 | 10.33 | |
| Riverside (SC) | 2027 | Motor Coach | Aggregate | Aggregate | Diesel | 22.98 | 2,581.04 | 2,581.04 | 0.00 | 528.13 | 0.00 | 0.44 | 5.84 | |
| Riverside (SC) | 2027 | Motor Coach | Aggregate | Aggregate | Electricity | 0.00 | 0.04 | 0.00 | 0.04 | 0.01 | 0.05 | 0.00 | | 0.79 |
| Riverside (SC) | 2027 | OBUS | Aggregate | Aggregate | Gasoline | 328.14 | 7,706.25 | 7,706.25 | 0.00 | 2,921.63 | 0.00 | 1.50 | 5.14 | |
| Riverside (SC) | 2027 | OBUS | Aggregate | Aggregate | Diesel | 210.06 | 9,227.28 | 9,227.28 | 0.00 | 1,869.53 | 0.00 | 0.99 | 9.31 | |
| Riverside (SC) | 2027 | OBUS | Aggregate | Aggregate | Electricity | 10.41 | 636.08 | 0.00 | 636.08 | 92.68 | 798.11 | 0.00 | | 0.80 |
| Riverside (SC) | 2027 | OBUS | Aggregate | Aggregate | Natural Gas | 70.92 | 3,411.92 | 3,411.92 | 0.00 | 631.16 | 0.00 | 0.01 | 321.11 | |
| Riverside (SC) | 2027 | PTO | Aggregate | Aggregate | Diesel | 0.00 | 40,755.39 | 40,755.39 | 0.00 | 0.00 | 0.00 | 7.92 | 5.15 | |
| Riverside (SC) | 2027 | PTO | Aggregate | Aggregate | Electricity | 0.00 | 1,296.84 | 0.00 | 1,296.84 | 0.00 | 2,686.42 | 0.00 | | 0.48 |
| Riverside (SC) | 2027 | SBUS | Aggregate | Aggregate | Gasoline | 366.14 | 11,820.36 | 11,820.36 | 0.00 | 1,464.57 | 0.00 | 1.33 | 8.91 | |
| Riverside (SC) | 2027 | SBUS | Aggregate | Aggregate | Diesel | 399.95 | 7,989.17 | 7,989.17 | 0.00 | 5,791.30 | 0.00 | 1.08 | 7.40 | |
| Riverside (SC) | 2027 | SBUS | Aggregate | Aggregate | Electricity | 31.48 | 880.63 | 0.00 | 880.63 | 412.29 | 1,210.22 | 0.00 | | 0.73 |
| Riverside (SC) | 2027 | SBUS | Aggregate | Aggregate | Natural Gas | 541.16 | 12,272.08 | 12,272.08 | 0.00 | 7,836.00 | 0.00 | 2.87 | 4.28 | |
| Riverside (SC) | 2027 | T6 CAIRP Class 4 | Aggregate | Aggregate | Diesel | 8.55 | 474.86 | 474.86 | 0.00 | 196.59 | 0.00 | 0.05 | 9.35 | |
| Riverside (SC) | 2027 | T6 CAIRP Class 4 | Aggregate | Aggregate | Electricity | 0.29 | 20.96 | 0.00 | 20.96 | 6.76 | 26.34 | 0.00 | | 0.80 |
| Riverside (SC) | 2027 | T6 CAIRP Class 5 | Aggregate | Aggregate | Diesel | 15.41 | 860.63 | 860.63 | 0.00 | 354.05 | 0.00 | 0.09 | 9.38 | |
| Riverside (SC) | 2027 | T6 CAIRP Class 5 | Aggregate | Aggregate | Electricity | 0.52 | 37.11 | 0.00 | 37.11 | 12.06 | 46.64 | 0.00 | | 0.80 |
| Riverside (SC) | 2027 | T6 CAIRP Class 6 | Aggregate | Aggregate | Diesel | 37.55 | 2,074.34 | 2,074.34 | 0.00 | 862.92 | 0.00 | 0.22 | 9.40 | |
| Riverside (SC) | 2027 | T6 CAIRP Class 6 | Aggregate | Aggregate | Electricity | 1.28 | 85.68 | 0.00 | 85.68 | 29.47 | 107.68 | 0.00 | | 0.80 |
| Riverside (SC) | 2027 | T6 CAIRP Class 7 | Aggregate | Aggregate | Diesel | 58.93 | 10,679.00 | 10,679.00 | 0.00 | 1,354.19 | 0.00 | 1.05 | 10.17 | |
| Riverside (SC) | 2027 | T6 CAIRP Class 7 | Aggregate | Aggregate | Electricity | 1.18 | 232.58 | 0.00 | 232.58 | 27.07 | 292.28 | 0.00 | | 0.80 |
| Riverside (SC) | 2027 | T6 CAIRP Class 7 | Aggregate | Aggregate | Natural Gas | 0.05 | 9.19 | 9.19 | 0.00 | 1.24 | 0.00 | 0.00 | 10.47 | |
| Riverside (SC) | 2027 | T6 Instate Delivery Class 4 | Aggregate | Aggregate | Diesel | 333.13 | 9,658.09 | 9,658.09 | 0.00 | 4,753.77 | 0.00 | 1.10 | 8.79 | |
| Riverside (SC) | 2027 | T6 Instate Delivery Class 4 | Aggregate | Aggregate | Electricity | 9.79 | 314.97 | 0.00 | 314.97 | 139.72 | 393.91 | 0.00 | | 0.80 |
| Riverside (SC) | 2027 | T6 Instate Delivery Class 4 | Aggregate | Aggregate | Natural Gas | 0.85 | 26.74 | 26.74 | 0.00 | 12.08 | 0.00 | 0.00 | 8.87 | |
| Riverside (SC) | 2027 | T6 Instate Delivery Class 5 | Aggregate | Aggregate | Diesel | 368.24 | 10,751.64 | 10,751.64 | 0.00 | 5,254.83 | 0.00 | 1.22 | 8.81 | |
| Riverside (SC) | 2027 | T6 Instate Delivery Class 5 | Aggregate | Aggregate | Electricity | 11.27 | 370.46 | 0.00 | 370.46 | 160.85 | 463.32 | 0.00 | | 0.80 |
| Riverside (SC) | 2027 | T6 Instate Delivery Class 5 | Aggregate | Aggregate | Natural Gas | 0.96 | 30.45 | 30.45 | 0.00 | 13.74 | 0.00 | 0.00 | 8.87 | |
| Riverside (SC) | 2027 | T6 Instate Delivery Class 6 | Aggregate | Aggregate | Diesel | 1,370.69 | 40,236.41 | 40,236.41 | 0.00 | 19,559.75 | 0.00 | 4.47 | 8.99 | |
| Riverside (SC) | 2027 | T6 Instate Delivery Class 6 | Aggregate | Aggregate | Electricity | 41.02 | 1,378.32 | 0.00 | 1,378.32 | 585.38 | 1,723.79 | 0.00 | | 0.80 |
| Riverside (SC) | 2027 | T6 Instate Delivery Class 6 | Aggregate | Aggregate | Natural Gas | 4.60 | 144.33 | 144.33 | 0.00 | 65.60 | 0.00 | 0.02 | 8.81 | |
| Riverside (SC) | 2027 | T6 Instate Delivery Class 7 | Aggregate | Aggregate | Diesel | 179.66 | 9,224.36 | 9,224.36 | 0.00 | 2,563.82 | 0.00 | 1.01 | 9.16 | |
| Riverside (SC) | 2027 | T6 Instate Delivery Class 7 | Aggregate | Aggregate | Electricity | 2.61 | 135.31 | 0.00 | 135.31 | 37.27 | 169.22 | 0.00 | | 0.80 |
| Riverside (SC) | 2027 | T6 Instate Delivery Class 7 | Aggregate | Aggregate | Natural Gas | 4.14 | 214.03 | 214.03 | 0.00 | 59.02 | 0.00 | 0.02 | 9.13 | |
| Riverside (SC) | 2027 | T6 Instate Other Class 4 | Aggregate | Aggregate | Diesel | 1,159.84 | 41,451.09 | 41,451.09 | 0.00 | 13,407.77 | 0.00 | 4.81 | 8.61 | |
| Riverside (SC) | 2027 | T6 Instate Other Class 4 | Aggregate | Aggregate | Electricity | 8.78 | 346.65 | 0.00 | 346.65 | 101.50 | 434.00 | 0.00 | | 0.80 |
| Riverside (SC) | 2027 | T6 Instate Other Class 4 | Aggregate | Aggregate | Natural Gas | 1.12 | 39.39 | 39.39 | 0.00 | 12.90 | 0.00 | 0.00 | 8.82 | |
| Riverside (SC) | 2027 | T6 Instate Other Class 5 | Aggregate | Aggregate | Diesel | 4,745.50 | 175,278.16 | 175,278.16 | 0.00 | 54,857.94 | 0.00 | 20.01 | 8.76 | |
| Riverside (SC) | 2027 | T6 Instate Other Class 5 | Aggregate | Aggregate | Electricity | 30.23 | 1,287.78 | 0.00 | 1,287.78 | 349.47 | 1,612.27 | 0.00 | | 0.80 |
| Riverside (SC) | 2027 | T6 Instate Other Class 5 | Aggregate | Aggregate | Natural Gas | 6.46 | 238.37 | 238.37 | 0.00 | 74.70 | 0.00 | 0.03 | 8.93 | |
| Riverside (SC) | 2027 | T6 Instate Other Class 6 | Aggregate | Aggregate | Diesel | 3,206.21 | 117,334.58 | 117,334.58 | 0.00 | 37,063.77 | 0.00 | 13.29 | 8.83 | |
| Riverside (SC) | 2027 | T6 Instate Other Class 6 | Aggregate | Aggregate | Electricity | 18.31 | 665.50 | 0.00 | 665.50 | 211.63 | 833.20 | 0.00 | | 0.80 |
| Riverside (SC) | 2027 | T6 Instate Other Class 6 | Aggregate | Aggregate | Natural Gas | 6.02 | 219.12 | 219.12 | 0.00 | 69.64 | 0.00 | 0.02 | 8.91 | |
| Riverside (SC) | 2027 | T6 Instate Other Class 7 | Aggregate | Aggregate | Diesel | 1,298.70 | 52,477.23 | 52,477.23 | 0.00 | 15,012.96 | 0.00 | 5.85 | 8.97 | |
| Riverside (SC) | 2027 | T6 Instate Other Class 7 | Aggregate | Aggregate | Electricity | 27.29 | | | | | | | | |

10667 Quail Valley Subarea 4 - Energy

Model Output: Off-Road Web Query (v1.1.2) Emissions Inventory

Region Type: Sub-Area

Region: Riverside (SC)

Calendar Year: 2027

Scenario: All Adopted Rules - Exhaust

Vehicle Classification: Off-Road Web Query Equipment Types

Units: tons/day for Emissions, gallons/year for Fuel, hours/year for Activity, Horsepower-hours/year for Horsepower-hours

| Region | Calendar Year | Vehicle Category | Model Year | Horsepower Bin | Fuel | Fuel Consumption | Total_Activity_hpy | Total_Population | Horsepower_Hours_hhpy | Gallons per Hour |
|----------------|---------------|---|------------|----------------|--------|------------------|--------------------|------------------|-----------------------|------------------|
| Riverside (SC) | 2027 | Construction and Mining - Bore/Drill Rigs | Aggregate | Aggregate | Diesel | 3,833.93 | 1,145.73 | 1.15 | 75,097.95 | 3.35 |
| Riverside (SC) | 2027 | Construction and Mining - Cranes | Aggregate | Aggregate | Diesel | 3,345.31 | 787.71 | 3.06 | 65,959.35 | 4.25 |
| Riverside (SC) | 2027 | Construction and Mining - Excavators | Aggregate | Aggregate | Diesel | 31,038.00 | 13,477.45 | 18.09 | 603,321.15 | 2.30 |
| Riverside (SC) | 2027 | Construction and Mining - Misc - Concrete/Industrial Saws | Aggregate | Aggregate | Diesel | 1,833.89 | 1,321.30 | 3.35 | 43,602.90 | 1.39 |
| Riverside (SC) | 2027 | Construction and Mining - Off-Highway Trucks | Aggregate | Aggregate | Diesel | 13,381.05 | 2,009.49 | 1.95 | 264,420.26 | 6.66 |
| Riverside (SC) | 2027 | Construction and Mining - Pavers | Aggregate | Aggregate | Diesel | 1,999.19 | 880.93 | 1.27 | 38,720.77 | 2.27 |
| Riverside (SC) | 2027 | Construction and Mining - Rubber Tired Dozers | Aggregate | Aggregate | Diesel | 1,236.28 | 297.05 | 0.40 | 24,337.92 | 4.16 |
| Riverside (SC) | 2027 | Construction and Mining - Tractors/Loaders/Backhoes | Aggregate | Aggregate | Diesel | 30,232.27 | 17,325.11 | 27.01 | 570,592.92 | 1.74 |
| Riverside (SC) | 2027 | Construction and Mining - Water Truck | Aggregate | Aggregate | Diesel | 1,019.62 | 207.56 | 0.27 | 20,107.18 | 4.91 |
| Riverside (SC) | 2027 | Light Commercial - Misc - Air Compressors | Aggregate | Aggregate | Diesel | 31,594.12 | 27,718.10 | 41.64 | 1,025,569.70 | 1.14 |
| Riverside (SC) | 2027 | Light Commercial - Misc - Generator Sets | Aggregate | Aggregate | Diesel | 166,189.09 | 55,782.95 | 601.90 | 1,840,837.35 | 2.98 |
| Riverside (SC) | 2028 | Industrial - Sweepers/Scrubbers | Aggregate | Aggregate | Diesel | 134.65 | 128.34 | 0.29 | 2,448.61 | 1.05 |