Appendix I Updated Tables for the 2024 Final PEIR





As discussed in Chapter 9, *Clarifications and Revisions*, the following PEIR tables are updated based on the final modeling results for traffic, criteria pollutant emissions, GHG emissions, and SPM data for Connect SoCal 2024. These are the latest tables and should be used as the basis for future environmental reviews; they do not differ substantially from those circulated with the 2024 Draft PEIR and do not substantially affect the PEIR analyses or conclusions. For legibility, the updated tables are reproduced in their entirety and are not shown in underline or strikethrough mode. Tables duplicated in multiple sections are presented only once with both table numbers added to the title.

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COUNTY NAME	POPULATION 2019	POPULATION 2050	PERCENTAGE Increase	HOUSEHOLDS 2019	HOUSEHOLDS 2050	PERCENTAGE Increase	EMPLOYMENT 2019	EMPLOYMENT 2050	PERCENTAGE Increase
Imperial	181,000	210,000	16%	52,000	72,000	39%	69,000	91,000	32%
Los Angeles	10,046,000	10,793,000	7%	3,393,000	4,155,000	23%	5,031,000	5,461,000	9%
Orange	3,191,000	3,439,000	8%	1,069,000	1,253,000	17%	1,805,000	2,019,000	12%
Riverside	2,386,000	2,992,000	25%	744,000	1,062,000	43%	847,000	1,185,000	40%
San Bernardino	2,175,000	2,623,000	21%	657,000	953,000	45%	860,000	1,145,000	33%
Ventura	849,000	852,000	<1%	278,000	318,000	14%	363,000	376,000	4%
SCAG Region	18,827,000	20,909,000	11%	6,193,000	7,814,000	26%	8,976,000	10,276,000	14%

TABLES ES-1 & 2-1 2019–2050 Population, Households, and Employment Projections in the SCAG Region

Source: SCAG 2023

	TABLE 2-4 Connect SoCal 2024 Revenue Sources (in billi	-
REVENUE SOURCE		AMOUNT
Local	Sales Tax:	\$256.8
	Local Option Sales Tax Measures	\$207.6
	Transportation Development Act (TDA)—Local Transportation Fund	\$49.2
	Transit Farebox Revenue	\$29.7
	Highway Tolls (in core revenue forecast)	\$27.3
	Mitigation Fees	\$5.7
	Other Local Sources	\$38.4
	Local Revenue Subtotal	\$357.9
State	State Transportation Improvement Program (STIP):	\$6.9
	Regional Transportation Improvement Program (RTIP)	\$5.7
	Interregional Transportation Improvement Program (ITIP)	\$1.1
	State Highway Operation and Protection Plan (SHOPP)	\$70.4
	Highway Users Tax Account (HUTA)	\$42.2
	Road Maintenance and Rehabilitation Account (RMRA)	\$33.8
	State Transit Assistance Fund (STA)	\$18.8
	Cap-and-Trade Auction Proceeds	\$1.8
	Other State Sources	\$15.3
	State Revenue Subtotal	\$189.0
Federal	Federal Transit:	\$24.9
	Federal Transit Formula	\$16.7
	Federal Transit Non-Formula	\$8.2
	Federal Highway & Other:	\$17.6
	Congestion Mitigation and Air Quality (CMAQ)	\$5.1
	Surface Transportation Block Grant (STBG)	\$6.6
	Other Federal Sources	\$5.9
	Federal Revenue Subtotal	\$42.5
New	Federal Gas Excise Tax Adjustment	\$7.6
Reasonably Available	Mileage-Based User Fee (Replacement)	\$48.0
	Federal Credit Assistance; Bond Proceeds	\$2.2
	Private Equity Participation	\$9.3
	Local Road Charge Program	\$92.2
	Value Capture Strategies	\$3.0
	New Revenue Subtotal	\$162.2
Revenue Tota	1	\$751.7

TABLE 2-4	Connect SoCal 2024 Revenue Sources (in billions)

Source: SCAG 2023b

EXPENDITURE TYPE	AMOUNT
Capital Projects and Other Programs	
Arterials	\$25.3
Goods Movement (including Grade Separations)	\$62.6
High-Occupancy Vehicle/Express Lanes	\$10.0
Mixed-Flow and Interchange Improvements	\$11.9
Transportation System Management (Including ITS)	\$11.9
Transit	\$54.6
Passenger Rail	\$45.0
Active Transportation	\$29.2
Transportation Demand Management	\$17.4
Other*	\$10.0
Subtotal Capital Projects and Other Programs	\$277.7
Operations and Maintenance	
State Highways	\$75.4
Transit	\$248.7
Passenger Rail	\$42.5
Regionally Significant Local Streets and Roads**	\$87.7
Subtotal Operations and Maintenance	\$454.3
Debt Service	\$19.7
Cost Total	\$751.7

TABLE 2-5 Connect 2024 SoCal Expenditure (in billions)

Source: SCAG 2023b

- * Includes Mobility Equity Fund, Regional Advance Mitigation, and Others
- ** Includes \$8.8 billion for active transportation in addition to capital project investment of \$29.2 billion for a total of \$38 billion for active transportation improvements.

TABLE 3.2-4SCAG Region Estimated Maximum Direct Potential Loss of Important Agricultural Land,
2019–2050

	IMPORTANT FARMLAND) (ACRES)		TOTAL OF	
PRIME FARMLAND	FARMLAND OF Statewide importance	UNIQUE Farmland	FARMLAND OF Local importance	IMPORTANT FARMLAND (ACRES)	PERCENT POTENTIALLY Lost in scag region
-1,868	-288	-1,147	-10,647	-13,950	0.71%

Source: SCAG Scenario Planning Model

	(TONS/DAY)									
	ROG			NOX		CO	PM10	PM2.5	SOX	
COUNTY	SUMMER	ANNUAL	SUMMER	ANNUAL	WINTER	WINTER	ANNUAL	ANNUAL	ANNUAL	
Imperial	2	2	5	6	6	16	0.3	0.1	<0.1	
Los Angeles	53	52	84	92	91	498	6.9	2.9	1.0	
Orange	16	16	22	24	24	150	2.2	0.9	0.3	
Riverside	14	13	28	30	30	115	2.0	0.9	0.3	
San Bernardino	16	15	32	34	34	129	2.2	1.0	0.3	
Ventura	3	3	6	6	6	25	0.5	0.2	0.1	

TABLE 3.3-7On-Road Transportation Criteria Pollutant Emissions by County –
Existing Conditions (2019)

Source: SCAG 2023b

COUNTY	Existing	(TONS/DAY)								
		R)G		NOX		CO	PM10	PM2.5	SOX
		SUMMER	ANNUAL	SUMMER	ANNUAL	WINTER	WINTER	ANNUAL	ANNUAL	ANNUAL
Imperial	Existing	2	2	5	6	6	16	0.3	0.1	<0.1
	Plan (Year 2030)	1	1	2	2	2	7	0.3	0.1	<0.1
	Plan (Year 2040)	1	1	2	2	2	6	0.3	0.1	<0.1
	Plan (Year 2050)	1	1	2	2	2	6	0.3	0.1	<0.1
	Difference (Year 2030)	-1	-1	-3	-4	-4	-9	-<0.1	-<0.1	-<0.1
	Difference (Year 2040)	-1	-1	-4	-4	-4	-10	-<0.1	-<0.1	-<0.1
	Difference (Year 2050)	-2	-1	-4	-4	-4	-10	<0.1	-<0.1	-<0.1
Los Angeles	Existing	53	52	84	92	91	498	6.9	2.9	1.0
	Plan (Year 2030)	26	26	27	30	30	234	5.7	2.0	0.7
	Plan (Year 2040)	20	20	19	21	21	175	5.5	1.9	0.6
	Plan (Year 2050)	18	18	18	19	19	161	5.6	1.9	0.6
	Difference (Year 2030)	-26	-26	-57	-62	-61	-264	-1.2	-0.9	-0.2
	Difference (Year 2040)	-33	-32	-65	-71	-70	-324	-1.4	-1.0	-0.3
	Difference (Year 2050)	-34	-34	-66	-73	-71	-338	-1.2	-1.0	-0.4
Orange	Existing	16	16	22	24	24	150	2.2	0.9	0.3
	Plan (Year 2030)	9	9	8	9	9	77	1.9	0.7	0.2
	Plan (Year 2040)	7	7	5	6	6	58	1.8	0.6	0.2
	Plan (Year 2050)	6	6	5	5	5	54	1.8	0.6	0.2
	Difference (Year 2030)	-7	-7	-14	-16	-15	-73	-0.3	-0.2	-0.1
	Difference (Year 2040)	-9	-9	-17	-18	-18	-92	-0.4	-0.3	-0.1
	Difference (Year 2050)	-10	-10	-18	-19	-19	-95	-0.4	-0.3	-0.1
Riverside	Existing	14	13	28	30	30	115	2.0	0.9	0.3
	Plan (Year 2030)	8	8	11	12	12	62	1.8	0.7	0.2
	Plan (Year 2040)	7	6	9	9	9	52	1.9	0.7	0.2
	Plan (Year 2050)	6	6	9	10	10	52	2.1	0.7	0.2
	Difference (Year 2030)	-6	-5	-17	-19	-18	-52	-0.2	-0.2	0.0
	Difference (Year 2040)	-7	-6	-20	-21	-21	-62	-0.1	-0.2	-0.1
	Difference (Year 2050)	-8	-7	-19	-21	-20	-63	0.1	-0.2	-<0.1
San Bernardino	Existing	16	15	32	34	34	129	2.2	1.0	0.3
	Plan (Year 2030)	9	8	12	13	12	64	1.9	0.7	0.2
	Plan (Year 2040)	6	6	9	10	10	52	2.0	0.7	0.2
	Plan (Year 2050)	6	6	9	10	10	51	2.2	0.8	0.2
	Difference (Year 2030)	-7	-7	-20	-22	-21	-65	-0.3	-0.3	-0.1
	_									

TABLE 3.3-14On-Road Mobile Source Criteria Air Pollutant Emissions by County –
Existing Condition (2019) vs Year 2030, 2040, and 2050 Plan

COUNTY		(TONS/DAY)									
		RC)G		NOX		CO	PM10	PM2.5	SOX	
		SUMMER	ANNUAL	SUMMER	ANNUAL	WINTER	WINTER	ANNUAL	ANNUAL	ANNUAL	
	Difference (Year 2040)	-10	-9	-23	-25	-24	-77	-0.2	-0.3	-0.1	
	Difference (Year 2050)	-10	-9	-23	-25	-24	-78	0.0	-0.2	-0.1	
Ventura	Existing	3	3	6	6	6	25	0.5	0.2	0.1	
	Plan (Year 2030)	2	2	2	2	2	12	0.4	0.1	<0.1	
	Plan (Year 2040)	1	1	1	1	1	9	0.4	0.1	<0.1	
	Plan (Year 2050)	1	1	1	1	1	8	0.4	0.1	<0.1	
	Difference (Year 2030)	-1	-1	-4	-4	-4	-13	-0.1	-0.1	-<0.1	
	Difference (Year 2040)	-2	-2	-5	-5	-5	-17	-0.1	-0.1	-<0.1	
	Difference (Year 2050)	-2	-2	-5	-5	-5	-18	-0.1	-0.1	0.0	

Source: SCAG 2023b

	2019	PLAN 2050	PERCENTAGE DIFFERENCE FROM 2019 TO PLAN
Residential energy use per household (Btu in millions)	61.2	44.7	-27.0%
Residential electricity use per household (kWh)	6,962	5,155	-26.0%
Number of households	6,193,000	7,814,000	26.2%
Residential energy use (Btu in trillions)	379	349	-7.9%
Residential energy cost (in billions \$)	9.0	11.0	22.2%

TABLE 3.6-1 Residential Energy Use and Cost per Household

Source: SCAG Scenario Planning Model

	BASE YEAR (2019)	PLAN (2050)	PERCENTAGE DIFFERENCE FROM 2019 TO PLAN
Residential energy cost per household	\$1,453	\$1,409	-3.0%
Residential water cost per household	\$308	\$293	-4.9%
Total utilities (energy + water) cost per household	\$1,761	\$1,702	-3.4%

TABLE 3.6-2 Residential Energy and Water Cost per Household

Source: SCAG Scenario Planning Model

	BASE YEAR (2019)	PLAN (2050)	PERCENTAGE DIFFERENCE FROM BASE YEAR
Residential electricity consumed (GWh)	43,116	40,284	-6.6%
Residential natural gas consumed (therms in billions)	2.3	2.1	-8.7%
Residential energy consumed (Btu in trillions)	379	349	-7.9%
Commercial electricity consumed (GWh)	81,589	68,906	-15.5%
Commercial natural gas consumed (therms in billions)	2.6	2.6	—
Commercial energy consumed (Btu in trillions)	536	498	-7.1%
Total energy consumed (Btu in trillions)	915	846	-7.5%

TABLE 3.6-3 Building Energy Consumption – Residential and Commercial

Source: SCAG Scenario Planning Model

	FUEL CO	NSUMED	PERCENTAGE REDUCTION
	BILLION GALLONS PER YEAR	THOUSAND GALLONS PER DAY	COMPARED TO 2019
2019	7.6	20,771	
2050 Plan	5.2	14,331	-31.2%

TABLE 3.6-4 SCAG Region Estimated Transportation Fuel Consumption

Source: SCAG 2023b

	2019	2050 PLAN	PERCENTAGE DIFFERENCE FROM 2019
Indoor residential water use (af)	1,036,738	954,553	-8.0%
Outdoor residential water use (af)	1,024,858	834,481	-18.6%
Residential water use (af)	2,061,596	1,789,034	-13.2%
Indoor commercial water use (af)	574,080	893,448	53.3%
Outdoor commercial water use (af)	389,727	446,990	14.7%
Commercial water use (af)	963,807	1,340,438	39.1%
Total water use (af)	3,025,403	3,129,472	3.4%

TABLE 3.6-5 Water Use – Residential and Commercial

Source: SCAG Scenario Planning Model

TABLE 3.6-6	Water-Related Energy Use				
	2019	2050 PLAN	PERCENTAGE DIFFERENCE FROM 2019		
Water-related electricity use (GWh)	12,475	13,023	4.4%		

2.6.6 Weter Delated I

Source: SCAG Scenario Planning Model

Table Note: Numbers may not sum to total due to rounding.

I-15

	201	2019 (MMT/YEAR)		2030 (PLAN) (MMT/YEAR)		2045 (PLAN) (MMT/YEAR)		2050 (PLAN) (MMT/YEAR)				
ON-ROAD VEHICLES	C02	CH4	N20	C02	CH4	N20	C02	CH4	N20	C02	CH4	N20
Light- and Medium-Duty Vehicles	49.38	0.0025	0.0010	36.78	0.0011	0.0004	32.87	0.0007	0.0002	32.85	0.0007	0.0002
Heavy-Duty Vehicles	12.31	0.0005	0.0014	11.87	0.0003	0.0006	10.29	0.0002	0.0005	10.50	0.0002	0.0005
Buses	1.54	0.0008	0.0001	1.22	0.0008	0.0000	0.61	0.0001	0.0000	0.58	0.0001	0.0000
Subtotal On-Road Vehicles in CO2	63.23	0.0039	0.0025	49.87	0.00	0.00	<u>43.77</u>	0.00	0.00	43.94	0.00	0.00
Subtotal On-Road Vehicles in CO2e*	63.23	0.0812	0.78	49.87	0.05	0.32	43.77	0.02	0.23	43.94	0.02	0.24
Total GHG Emissions from On- Road Vehicles in CO2e		64.09			50.23			44.03			44.20	

TABLE 3.8-7Greenhouse Gas Emissions from All On-Road Vehicles in the SCAG Region
(million metric tons per year)

Source: SCAG Modeling (2023)

Table Notes: Numbers may not sum to total due to rounding.

* CO2 was converted to CO2e based on the Global Warming Potential (GWP) (CARB, undated[b]).

TABLE 3.8-9Greenhouse Gas Emissions (CO2e) from All On-Road and Other Transportation
Sources in the SCAG Region (million metric tons per year)

	2019 BASE YEAR	2030 (PLAN)	2045 (Plan)	2050 (PLAN)
Total GHG Emissions from On-Road Vehicles in CO2e	64.09	50.23	44.03	44.20
Total GHG Emissions from Other Transportation Sources in CO2e*	2.07	2.51	3.03	3.21
All Transportation Sector (On-Road and Other Sources) in CO2e	66.42	52.74	47.06	47.41
2030, 2045, 205 Plan vs. 2019 Base Year		-20.6%	- 29 .1%	-28.62%

Source: SCAG Modeling (2023)

Table Notes: CO2 was converted to CO2e based on the Global Warming Potential (GWP) (CARB, undated[b]). Numbers may not sum to total due to rounding.

* Emission sources include rail, aviation, GSE, and ocean-going vessels. Rail, aviation, and ocean-going vessels are regulated at the federal level. Airport Ground Support (GSE) sources are regulated at the state level.

TABLE 3.8-10Greenhouse Gas Emissions Light-, Medium-, and Heavy-Duty On-Road Vehicle
Transportation by County and Other Transportation Sources in the SCAG
Region (CO2e) (million metric tons per year)

COUNTY	2005 BASE Year	2019 PEIR Base year	2030 PLAN	2045 PLAN	2050 PLAN	2019 COMPARED TO Plan Year (2050)	2005 COMPARED To plan year (2050)
	Light-, l	Medium-, and	l Heavy-Dut	y On-Road V	ehicle Trans	portation	
Imperial	1.27	1.26	1.10	1.08	1.11	-11.8%	-12.7%
Los Angeles	42.47	30.98	23.24	19.85	19.75	-36.3%	-53.5%
Orange	12.77	10.12	7.72	6.57	6.45	-36.3%	-49.5%
Riverside	10.70	8.99	7.75	7.47	7.71	-14.3%	-28.0%
San Bernardino	11.84	9.60	7.94	7.43	7.62	-20.6%	-35.6%
Ventura	3.34	1.55	1.23	1.01	0.98	-36.7%	-70.5%
SCAG Subtotal	82.39	62.50	48.98	43.41	43.61	-30.2%	-47.1%
			Other Tra	nsportation			
Bus (Region)	—	1.59	1.25	0.62	0.59	-63.0%	—
Rail (Region)	—	0.20	0.23	0.14	0.12	-38.1%	—
Aviation*	—	1.29	1.66	2.17	2.34	81.3%	—
Airport Ground Support (GSE)	—	0.12	0.14	0.16	0.16	32.7%	—
OGV (Region)	—	0.47	0.48	0.57	0.59	26.8%	—
Total All Sectors	—	66.17	52.74	47.07	47.41	-28.6%	—

Source: SCAG Modeling (2023)

Table Notes: On-Road Transportation sources include light- and medium-duty vehicles and heavy-duty trucks.

No Plan emissions were not presented as they incrementally as compared to Plan emissions. For discussion of emissions related to Plan Alternatives please refer to Chapter 4, Alternatives, of this PEIR.

Other Transportation Sources include bus rail, aviation, GSE, and ocean-going vessels. Rail, aviation, and ocean-going vessels are regulated at the federal level. Airport Ground Support (GSE) sources are regulated at the state level.

Numbers may not sum to total due to rounding.

* Aviation CO2 MMT values linearly interpolated from presented years 2012 and 2040 for the SCAQMD. Note CH4 and N2O not presented. Aviation GHG emissions from other jurisdictions unavailable.

AREA	2005 BASE YEAR	2019 BASE YEAR	2030 PLAN	2045 PLAN	2050 PLAN	2019 VS 2050 Plan	2005 VS 2050 Plan
Transportation ^a	82.39	66.17	52.74	47.07	47.41	-28.4%	-42.5%
Building Energy ^b	44.50	64.64	57.30	47.30	44.02	-31.9%	-1.08%
Water-Related Energy ^c	3.82	2.89	2.26	1.40	1.12	-61.3%	-70.8%
Total	130.71	133.70	112.30	95.77	92.55	-30.8%	-29.2%

TABLE 3.8-11 Greenhouse Gas Emissions for the SCAG Region from Three Primary Sources (CO2e) (million metric tons per year)

Source: SCAG Modeling (2023)

Table Notes: Numbers may not sum to total due to rounding.

The Scenario Planning Model provides estimates of energy and water consumption; it is a scenario planning tool used for developing scenarios for the Plan during the scenario planning process to compare relative differences among scenarios and does not account for emissions reductions from cleaner fuels and technologies in the future.

The estimates of GHG emissions in this table do not include the following sources: construction, solid waste, agriculture, wildfires, industrial process or other sources.

a. Transportation emissions include On-Road and Other Transportation Sources. On-Road Transportation sources include light- and medium-duty vehicles and heavy-duty trucks. On-road transportation based on EMFAC and conversion from CO2 to CO2e. Other Transportation Sources include bus rail, aviation, GSE, and ocean-going vessels. Rail, aviation, and ocean-going vessels are regulated at the federal level. Airport Ground Support (GSE) sources are regulated at the state level. Note, transportation source emissions from the 2005 Base Year do not include emissions from Other Transportation Sources as these emissions are unavailable.

b. Includes estimates of emissions from energy used in the region but generated outside the region. Values for 2030 and 2045 are linearly interpolated from SCAG SPM Modeling results for year 2019 and 2050. The 2005 base year value is from the 2012 RTP/SCS PEIR.

c. Water related estimates of energy consumption includes the electricity used in the transport, treatment, and distribution of water. Values for 2030 and 2045 are linearly interpolated from SCAG SPM Modeling results for year 2019 and 2050. The 2005 base year value is from the 2012 RTP/SCS PEIR.

TABLES 3.8-12 & 3.17-14	Population and VMT (2019 and 2050)					
	2019	2050	2050 VS 2019			
Total Population	18,827,000	20,909,000	11.1%			
Light Duty Vehicle VMT	413,950,174	406,531,128	-1.79%			
Total VMT	444,221,295	449,922,574	1.28%			
VMT Per Capita Light Duty Vehicles	21.99	19.44	-11.6%			
VMT Per Capita All Vehicles	23.60	21.52	-8.80%			

Source: SCAG modeling (2023)

COUNTY	2000 (JOBS)1	2019 (Jobs)²	2000-2019 GROWTH (Jobs)	PERCENT CHANGE (2000–2019)
Imperial	56,000	70,000	14,000	25.00%
Los Angeles	4,504,000	5,031,000	527,000	11.70%
Orange	1,522,000	1,805,000	283,000	18.59%
Riverside	520,000	847,000	327,000	62.88%
San Bernardino	589,000	860,000	271,000	46.01%
Ventura	325,000	363,000	38,000	11.69%
SCAG	7,516,000	8,976,000	1,460,000	19.43

TABLE 3.14-6 Employment Growth for 2000 to 2019

 Sources:
 1. CA EDD 2019, Wage and Salary employment plus self-employment, as processed by SCAG.
 2. Based on 2020 decennial Census PL-94 redistricting file and 2019 DOF E-5 estimates.

Table Notes: Numbers are rounded to the nearest thousand. Numbers may not sum to total due to rounding.

COUNTY NAME	POPULATION 2019	POPULATION 2020	POPULATION 2030	POPULATION 2045	POPULATION 2050	PERCENTAGE Increase 2019- 2050
Imperial	181,000	180,000	193,000	207,000	210,000	16.0%
Los Angeles	10,046,000	10,018,000	10,214,000	10,757,000	10,793,000	7.4%
Orange	3,191,000	3,188,000	3,247,000	3,401,000	3,439,000	7.8%
Riverside	2,386,000	2,418,000	2,674,000	2,927,000	2,992,000	25.4%
San Bernardino	2,175,000	2,182,000	2,298,000	2,534,000	2,623,000	20.6%
Ventura	849,000	844,000	849,000	858,000	852,000	0.4%
SCAG Region	18,827,000	18,830,000	19,476,000	20,684,000	20,909,000	11.1%

TABLE 3.14-8	Population Projections in the SCAG Region (2019, 2020, 2030, 2045, and 2050)

Source: SCAG 2023a, Table 12: Region and county forecast of population, households, and employment

Table Note: Numbers are rounded to the nearest thousand and may not sum to total.

COUNTY NAME	HOUSEHOLDS 2019	HOUSEHOLDS 2020	HOUSEHOLDS 2030	HOUSEHOLDS 2045	HOUSEHOLDS 2050	PERCENTAGE Increase 2019-2050
Imperial	52,000	52,000	61,000	70,000	72,000	38.5%
Los Angeles	3,393,000	3,423,000	3,784,000	4,120,000	4,155,000	22.5%
Orange	1,069,000	1,080,000	1,164,000	1,239,000	1,253,000	17.2%
Riverside	744,000	763,000	903,000	1,033,000	1,062,000	42.7%
San Bernardino	657,000	668,000	786,000	918,000	953,000	45.1%
Ventura	278,000	280,000	307,000	321,000	318,000	14.4%
SCAG Region	6,193,000	6,265,000	7,006,000	7,701,000	7,814,000	26.2%

TABLE 3.14-9 Household Projections in the SCAG Region (2019, 2020, 2030, 2045, and 2050)

Source: SCAG 2023a, Table 12: Region and county forecast of population, households, and employment

Table Note: Numbers are rounded to the nearest thousand and may not sum to total.

COUNTY NAME	EMPLOYMENT 2019	EMPLOYMENT 2022	EMPLOYMENT 2030	EMPLOYMENT 2045	EMPLOYMENT 2050	PERCENTAGE Increase 2019-2050
Imperial	69,000	70,000	78,000	88,000	91,000	31.9%
Los Angeles	5,031,000	4,942,000	5,277,000	5,497,000	5,461,000	8.6%
Orange	1,805,000	1,806,000	1,903,000	1,998,000	2,019,000	11.9%
Riverside	847,000	897,000	983,000	1,147,000	1,185,000	39.9%
San Bernardino	860,000	856,000	962,000	1,079,000	1,145,000	33.1%
Ventura	363,000	367,000	379,000	380,000	376,000	3.6%
SCAG Region	8,976,000	8,937,000	9,581,000	10,190,000	10,276,000	14.5%

TABLE 3.14-10	Employment Projections in the SCAG Region (2019, 2022, 2030, 2045,
	and 2050)

Source: SCAG 2023a, Table 12: Region and county forecast of population, households, and employment Table Note: Numbers are rounded to the nearest thousand and may not sum to total.

	VEHICLE MILES OF TRAVEL (VMT)						PER CAPITA VMT		
	A.M. PEAK PE	RIOD	P.M. PEAK PERIOD		DAILY		2019 POPULATION	DAILY	
COUNTY	MILES	%1	MILES	% ¹	MILES	% ¹	PERSONS	MILES	
Imperial	1,198,378	1%	1,806,535	1%	6,962,616	2%	181,000	38.47	
Los Angeles	44,031,036	50%	62,685,241	50%	220,260,539	50%	10,046,000	21.93	
Orange	15,239,282	17%	21,583,718	17%	76,501,002	17%	3,191,000	23.97	
Riverside	11,435,005	13%	16,225,311	13%	59,085,390	13%	2,386,000	24.76	
San Bernardino	11,945,291	14%	16,680,845	13%	62,790,479	14%	2,175,000	28.87	
Ventura	3,813,047	4%	5,321,262	4%	18,621,270	4%	846,000	22.01	
Total	87,662,040	100%	124,302,913	100%	444,221,295	100%	18,827,000	23.60	

TABLE 3.17-1 Summary of Existing (2019) Daily and per Capita Vehicle Miles of Travel

Source: SCAG Modeling (2023)

Table Notes: Numbers may not sum to total due to rounding.

1. Percentage of region

	VEHICLE HOURS OF TRAVEL (VHT)						PER CAPITA VHT	
	A.M. PEAK P	ERIOD	P.M. PEAK P	ERIOD	DAILY		2019 POPULATION	DAILY
COUNTY	HOURS	%1	HOURS	%1	HOURS	%1	PERSONS	HOURS
Imperial	23,677	1%	36,894	1%	132,302	1%	181,000	0.73
Los Angeles	1,548,505	57%	2,270,723	57%	6,774,989	55%	10,046,000	0.67
Orange	458,256	17%	664,112	17%	2,082,081	17%	3,191,000	0.65
Riverside	292,394	11%	403,386	10%	1,354,690	11%	2,386,000	0.57
San Bernardino	306,933	11%	428,382	11%	1,452,496	12%	2,175,000	0.67
Ventura	101,859	4%	147,158	4%	462,101	4%	846,000	0.55
Total	<mark>2,731,623</mark>	100%	,950,655	100%	12,258,659	100%	18,827,000	0.65

TABLE 3.17-2 Summary of Existing (2019) Daily and Percentage Vehicle Hours of Travel

Source: SCAG Modeling (2023)

Table Notes: Numbers may not sum to total due to rounding.

1. Percentage of region

	AVERAGE PERSON TRIP	PLENGTH	AVERAGE HOME	-TO-WORK TRIP DU	RATION (MINUTES)
COUNTY	TRIP PURPOSE	AVERAGE PERSON Trip Length (Miles)	VEHICLE TRIPS (A.M. ONLY)	TRANSIT TRIPS (A.M. ONLY)	WALK/BIKE TRIPS (Am only)
Imperial	Home-Based Work Trips	15.20	17.83	57.56	20.64
трена	Non-Work Trips	3.77			
	Home-Based Work Trips	15.32	29.35	65.56	25.26
Los Angeles	Non-Work Trips	6.12			
Orongo	Home-Based Work Trips	15.20	23.45	81.66	22.82
Orange	Non-Work Trips	6.09			
Riverside	Home-Based Work Trips	21.11	31.77	93.25	22.97
Riverside	Non-Work Trips	6.28			
San Bernardino	Home-Based Work Trips	21.51	32.52	108.95	22.86
San Bernardino	Non-Work Trips	6.12			
Montura	Home-Based Work Trips	16.50	28.51	107.99	21.22
Ventura	Non-Work Trips	5.73			
Pasian	Home-Based Work Trips	16.63	28.73	69.56	24.24
Region	Non-Work Trips	6.10	—	—	_

Source: SCAG Modeling (2023)

Table Notes: Only considers Home to work/business direct trips. Numbers may not sum to total due to rounding.

COUNTY	PERSON TRIP TYPE	DRIVE Alone	2-PERSON Carpool	3-PERSON Carpool	AUTO Passenger trip	TRANSIT	NON-MOTORIZED	TOTAL
Imperial	Home Based Work	61.6%	11.2%	10.9%	4.5%	0.2%	11.6%	100.0%
	All Daily Trips	30.2%	13.3%	10.4%	27.9%	1.1%	17.1%	100.0%
Los Angeles	Home Based Work	65.5%	9.6%	7.4%	6.5%	5.4%	5.7%	100.0%
	All Daily Trips	35.9%	12.8%	9.2%	27.8%	3.5%	10.9%	100.0%
Orange	Home Based Work	72.9%	9.1%	7.5%	5.4%	0.9%	4.2%	100.0%
	All Daily Trips	39.5%	12.5%	9.1%	28.1%	1.2%	9.5%	100.0%
Riverside	Home Based Work	71.8%	10.3%	8.7%	4.8%	0.8%	3.6%	100.0%
	All Daily Trips	35.3%	12.9%	10.3%	31.3%	1.4%	8.8%	100.0%
San Bernardino	Home Based Work	71.3%	10.5%	8.7%	5.0%	1.1%	3.3%	100.0%
	All Daily Trips	37.1%	13.5%	10.1%	28.8%	1.5%	9.0%	100.0%
Ventura	Home Based Work	72.2%	8.4%	6.7%	4.7%	0.6%	7.5%	100.0%
	All Daily Trips	37.4%	12.0%	9.2%	28.0%	1.2%	12.3%	100.0%
Total	Home Based Work	68.4%	9.6%	7.7%	5.8%	3.4%	5.1%	100.0%
	All Daily Trips	36.6%	12.8%	9.5%	28.4%	2.5%	10.3%	100.0%

TABLE 3.17-4 Existing (2019) Travel Mode Split (Percentage of County Total)

Source: SCAG Modeling (2023)

Table Note: Numbers in each column may not add up precisely due to rounding.

	,	5
DAILY TRANSIT BOARDING	EXISTING (2019)	2050 PLAN
Commuter Rail	46,537	232,397
Local Bus	1,238,924	3,009,374
Local Rail	330,055	894,343
Bus Rapid Transit	25,615	92,091
Express Bus	18,717	25,604
HSR	0	10,779
Rapid Bus	187,831	125,549
Transitway	40,568	47,835
Total (Transit)	1,888,246	4,437,972

Source: SCAG Modeling (2023)

	IN THOUSANDS ¹						
	2019		2050 PLAN				
COUNTY	LIGHT-MEDIUM DUTY VEHICLES	ALL VEHICLES	LIGHT-MEDIUM DUTY VEHICLES	ALL VEHICLES			
Imperial	6,000	7,000	7,000	9,000			
Los Angeles	207,000	220,000	188,000	206,000			
Orange	72,000	77,000	70,000	75,000			
Riverside	54,000	59,000	63,000	72,000			
San Bernardino	57,000	63,000	63,000	72,000			
Ventura	18,000	19,000	16,000	17,000			
SCAG Region	414,000	444,000	407,000	450,000			

TABLE 3.17-13 VMT 2019 and 2050 by County

Source: SCAG modeling (2023)

Table Notes: Numbers may not sum to total due to rounding.

1. Numbers are rounded to nearest thousand.

	TOTAL VMT PER CAPITA						
	LIGHT/MEDIUM	DUTY VEHICLES	ALL VE	HICLES			
COUNTY	2019	2050	2019	2050			
Imperial	32.98	35.04	38.47	42.31			
Los Angeles	20.61	17.40	21.93	19.05			
Orange	22.65	20.28	23.97	21.82			
Riverside	22.67	21.18	24.77	23.95			
San Bernardino	26.24	23.83	28.87	27.27			
Ventura	20.63	18.54	21.94	20.16			
Regional	21.99	19.44	23.60	21.52			

TABLE 3.17-15 VMT per Capita by County (2019 and 2050)

Source: SCAG modeling (2023); SCAG 2023c

COUNTY	2019	2050 PLAN
Imperial	6,726	11,207
Los Angeles	1,533,818	1,095,027
Orange	364,635	242,399
Riverside	142,765	167,402
San Bernardino	169,850	161,121
Ventura	64,782	33,840
Regional	2,282,577	1,710,995

TABLE 3.17-16 Total Daily Vehicle Hours of Delay (2019 and 2050)

Source: SCAG modeling (2023)

COUNTY20192050 PLAN89.09%85.32%Imperial89.09%85.32%Los Angeles74.04%84.50%Orange85.98%91.30%Riverside71.16%83.74%San Bernardino68.41%80.86%Ventura77.34%86.16%Region75.69%83.35%Imperial88.87%78.40%Los Angeles71.48%83.35%Orange86.19%90.18%Riverside72.22%80.94%Yentura79.83%87.36%Region77.01%84.44%Imperial46.00%25.40%Imperial44.00%45.40%Imperial44.00%55.06%Kerside37.22%39.54%Imperial42.07%45.40%Imperial55.06%47.72%Kan Bernardino55.06%47.72%Kiverside55.06%47.72%Kiverside55.06%47.72%Kiverside55.06%47.72%Kiverside55.06%47.72%Kiverside55.06%47.72%Kiverside55.06%47.72%Kiverside46.63%54.04%Kiverside46.63%54.04%		within 45 windles				
Imperial89.09%85.32%Los Angeles74.04%84.50%Orange85.98%91.30%Riverside71.16%83.74%San Bernardino68.41%80.86%Ventura77.34%86.16%Kegion75.69%85.31%Imperial88.87%78.40%Los Angeles75.80%83.35%Orange86.19%90.18%Riverside71.48%83.42%San Bernardino72.22%80.94%Ventura79.83%87.36%Region77.01%84.44%Los Angeles37.22%39.54%Corange46.00%25.40%Corange37.22%39.54%Grange59.56%55.90%San Bernardino55.06%47.72%Kiverside55.06%47.72%	COUNTY	2019	2050 PLAN			
Los Angeles74.04%84.50%Orange85.98%91.30%Riverside71.16%83.74%San Bernardino68.41%80.86%Ventura77.34%86.16%Region75.69%85.31%Imperial88.87%78.40%Los Angeles75.80%83.35%Orange86.19%90.18%Riverside71.48%83.42%San Bernardino72.22%80.94%Ventura79.83%87.36%Kegion77.01%84.44%Los Angeles37.22%39.54%Corange46.00%25.40%Corange42.07%45.40%San Bernardino59.56%55.90%Keyerside59.56%47.72%Kiverside55.06%47.72%San Bernardino55.06%47.72%	Single Occupant Vehicles					
Orange85.98%91.30%Riverside71.16%83.74%San Bernardino68.41%80.86%Ventura77.34%86.16%Region75.69%85.31%Imperial88.87%78.40%Los Angeles75.80%83.35%Orange86.19%90.18%Riverside71.48%83.42%San Bernardino72.22%80.94%Ventura79.83%87.36%Kegion77.01%84.44%Los Angeles37.22%39.54%Orange42.07%45.40%Riverside59.56%55.90%San Bernardino55.06%47.72%Kiverside55.06%47.72%	Imperial	89.09%	85.32%			
Riverside 71.16% 83.74% San Bernardino 68.41% 80.86% Ventura 77.34% 86.16% Region 75.69% 85.31% Region 75.69% 85.31% Imperial 88.87% 78.40% Los Angeles 75.80% 83.35% Orange 86.19% 90.18% Riverside 71.48% 83.42% San Bernardino 72.22% 80.94% Ventura 79.83% 87.36% Region 77.01% 84.44% Imperial 46.00% 25.40% Los Angeles 37.22% 39.54% Orange 42.07% 45.40% Riverside 59.56% 55.90% San Bernardino 55.06% 47.72% Ventura 46.63% 54.04%	Los Angeles	74.04%	84.50%			
San Bernardino 68.41% 80.86% Ventura 77.34% 86.16% Region 75.69% 85.31% Imperial 88.87% 78.40% Los Angeles 75.80% 83.35% Orange 86.19% 90.18% Riverside 71.48% 83.42% San Bernardino 72.22% 80.94% Ventura 79.83% 87.36% Kegion 77.01% 84.44% Corange 37.22% 39.54% Imperial 46.00% 25.40% Corange 37.22% 39.54% Grange 42.07% 45.40% Grange 59.56% 55.90% Grange 55.06% 47.72%	Orange	85.98%	91.30%			
Ventura 77.34% 86.16% Region 75.69% 85.31% Imperial 88.87% 78.40% Los Angeles 75.80% 83.35% Orange 86.19% 90.18% Riverside 71.48% 83.42% San Bernardino 72.22% 80.94% Ventura 79.83% 87.36% Region 77.01% 84.44% Imperial 46.00% 25.40% Corange 37.22% 39.54% Grange 42.07% 45.40% Grange 59.56% 55.90% San Bernardino 55.06% 47.72% Wentura 65.06% 54.04%	Riverside	71.16%	83.74%			
Region75.69%85.31%High Occurry VehiclesImperial88.87%78.40%Los Angeles75.80%83.35%Orange86.19%90.18%Riverside71.48%83.42%San Bernardino72.22%80.94%Ventura79.83%87.36%Region77.01%84.44%Imperial46.00%25.40%Los Angeles37.22%39.54%Orange42.07%45.40%Riverside59.56%55.90%San Bernardino55.06%47.72%Ventura46.63%54.04%	San Bernardino	68.41%	80.86%			
High Occupancy Vehicles Imperial 88.87% 78.40% Los Angeles 75.80% 83.35% Orange 86.19% 90.18% Riverside 71.48% 83.42% San Bernardino 72.22% 80.94% Ventura 79.83% 87.36% Region 77.01% 84.44% Imperial 46.00% 25.40% Los Angeles 37.22% 39.54% Orange 42.07% 45.40% Riverside 59.56% 55.90% San Bernardino 55.06% 47.72%	Ventura	77.34%	86.16%			
Imperial 88.87% 78.40% Los Angeles 75.80% 83.35% Orange 86.19% 90.18% Riverside 71.48% 83.42% San Bernardino 72.22% 80.94% Ventura 79.83% 87.36% Region 77.01% 84.44% Los Angeles 37.22% 39.54% Orange 42.07% 45.40% Riverside 59.56% 55.90% San Bernardino 55.06% 47.72% Ventura 46.63% 54.04%	Region	75.69%	85.31%			
Los Angeles 75.80% 83.35% Orange 86.19% 90.18% Riverside 71.48% 83.42% San Bernardino 72.22% 80.94% Ventura 79.83% 87.36% Region 77.01% 84.44% Imperial 46.00% 25.40% Corange 37.22% 39.54% Orange 42.07% 45.40% Riverside 59.56% 55.90% San Bernardino 55.06% 47.72% Ventura 46.63% 54.04%	High Occu	pancy Vehicles				
Orange 86.19% 90.18% Riverside 71.48% 83.42% San Bernardino 72.22% 80.94% Ventura 79.83% 87.36% Region 77.01% 84.44% Imperial 46.00% 25.40% Los Angeles 37.22% 39.54% Orange 42.07% 45.40% Riverside 59.56% 55.90% San Bernardino 55.06% 47.72% Ventura 46.63% 54.04%	Imperial	88.87%	78.40%			
Riverside 71.48% 83.42% San Bernardino 72.22% 80.94% Ventura 79.83% 87.36% Region 77.01% 84.44% Imperial 46.00% 25.40% Los Angeles 37.22% 39.54% Orange 42.07% 45.40% Riverside 59.56% 55.90% San Bernardino 55.06% 47.72% Ventura 46.63% 54.04%	Los Angeles	75.80%	83.35%			
San Bernardino 72.22% 80.94% Ventura 79.83% 87.36% Region 77.01% 84.44% Imperial 46.00% 25.40% Los Angeles 37.22% 39.54% Orange 42.07% 45.40% Riverside 59.56% 55.90% San Bernardino 55.06% 47.72% Ventura 46.63% 54.04%	Orange	86.19%	90.18%			
Ventura 79.83% 87.36% Region 77.01% 84.44% Imperial 46.00% 25.40% Los Angeles 37.22% 39.54% Orange 42.07% 45.40% Riverside 59.56% 55.90% San Bernardino 55.06% 47.72% Ventura 46.63% 54.04%	Riverside	71.48%	83.42%			
Region 77.01% 84.44% Fransit Imperial 46.00% 25.40% Los Angeles 37.22% 39.54% Orange 42.07% 45.40% Riverside 59.56% 55.90% San Bernardino 55.06% 47.72% Ventura 46.63% 54.04%	San Bernardino	72.22%	80.94%			
Transit Imperial 46.00% 25.40% Los Angeles 37.22% 39.54% Orange 42.07% 45.40% Riverside 59.56% 55.90% San Bernardino 55.06% 47.72% Ventura 46.63% 54.04%	Ventura	79.83%	87.36%			
Imperial 46.00% 25.40% Los Angeles 37.22% 39.54% Orange 42.07% 45.40% Riverside 59.56% 55.90% San Bernardino 55.06% 47.72% Ventura 46.63% 54.04%	Region	77.01%	84.44%			
Los Angeles 37.22% 39.54% Orange 42.07% 45.40% Riverside 59.56% 55.90% San Bernardino 55.06% 47.72% Ventura 46.63% 54.04%	т	ransit				
Orange 42.07% 45.40% Riverside 59.56% 55.90% San Bernardino 55.06% 47.72% Ventura 46.63% 54.04%	Imperial	46.00%	25.40%			
Riverside 59.56% 55.90% San Bernardino 55.06% 47.72% Ventura 46.63% 54.04%	Los Angeles	37.22%	39.54%			
San Bernardino 55.06% 47.72% Ventura 46.63% 54.04%	Orange	42.07%	45.40%			
Ventura 46.63% 54.04%	Riverside	59.56%	55.90%			
	San Bernardino	55.06%	47.72%			
Region 38.87% 41.70%	Ventura	46.63%	54.04%			
	Region	38.87%	41.70%			

TABLE 3.17-17 Percent of PM Work Trips Completed within 45 Minutes

Source: SCAG Modeling (2023)

						and which by	county			
COUNTY	FREEWAY (MIXED-FLOW)	TOLL*	TRUCK	EXPRESSWAY/ Parkway	PRINCIPAL Arterial	MINOR Arterial	COLLECTOR	FREEWAY (Hov)	RAMP	TOTAL (All facilities)
Imperial	417	—	—	324	413	529	2,479	—	38	4,199
Los Angeles	4,684	376	141	206	7,909	8,965	7,085	354	925	30,645
Orange	1,424	521	16	4	3,853	3,087	1,101	145	376	10,525
Riverside	1,937	221	13	122	1,359	3,695	5,837	80	361	13,625
San Bernardino	2,596	280	55	263	1,992	4,623	6,800	138	352	17,098
Ventura	570	—	—	—	848	989	1,076	68	122	3,673
Total	11,627	1,398	224	918	16,372	21,888	24,377	786	2,173	79,764

TABLE 3.19-11 2050 Plan Lane Miles by County

Source: SCAG Transportation Modeling (2023)

Table Notes: Numbers may not sum to total due to rounding.

* Toll includes truck and High-occupancy toll (HOT)

	TABLE 4-0 VINT 2050 By County				
	IN THOUSANDS ^a				
	2050 NO PLAN		2050 PLAN		
COUNTY	LIGHT-MEDIUM-DUTY VEHICLES	ALL VEHICLES	LIGHT-MEDIUM-DUTY VEHICLES	ALL VEHICLES	
Imperial	7,000	9,000	7,000	9,000	
Los Angeles	205,000	223,000	188,000	206,000	
Orange	73,000	78,000	70,000	75,000	
Riverside	65,000	73,000	63,000	72,000	
San Bernardino	67,000	76,000	63,000	72,000	
Ventura	17,000	18,000	16,000	17,000	
SCAG Region	434,000	477,000	407,000	450,000	

TABLE 4-6VMT 2050 by County

Source: SCAG Connect SoCal 2024 modeling (2023)

Table Note:

a. Numbers are rounded to nearest thousand and may not sum to totals.

TADLE 4-7	Population	Population and VIVIT (2030)		
	2050 NO PLAN	2050 PLAN	2050 PLAN VS. 2050 NO PLAN	
Total Population	20,909,000	20,909,000	0%	
Light-Duty Vehicle VMT	433,567,363	406,531,128	-6.2%	
Total VMT	477,132,165	449,922,574	-5.7%	
VMT per Capita Light-Duty Vehic	les 20.74	19.44	-6.2%	
VMT per Capita All Vehicles	22.82	21.52	-5.7%	

TABLE 4-7 Population and VMT (2050)

Source: SCAG Connect SoCal 2024 modeling (2023)

TABLE 4-8 D	Daily Transit Boardings			
DAILY TRANSIT BOARDING	2050 NO PLAN	2050 PLAN		
Commuter Rail	53,011	232,397		
Local Bus	1,933,545	3,009,374		
Local Rail	554,161	894,343		
Bus Rapid Transit	35,658	92,091		
Express Bus	21,876	25,604		
HSR	0	10,779		
Rapid Bus	62,270	125,549		
Transitway	41,514	47,835		
Total (Transit)	2,702,034	4,437,972		

Source: SCAG Connect SoCal 2024 (2023)

MODE SHARE	2050 NO PLAN	2050 PLAN
Walk	8.8%	10.2%
Bike	1.6%	3.5%
Transit	2.9%	4.3%
Total	13.3%	17.9%

TABLE 4-9Percentage of Mode Share on Transit and Active Transportation

Source: SCAG Connect SoCal 2024 modeling (2023)

COUNTY	2050 NO PLAN	2050 PLAN
Imperial	17,139	11,207
Los Angeles	1,321,497	1,095,027
Orange	346,065	242,399
Riverside	237,612	167,402
San Bernardino	295,584	161,121
Ventura	54,020	33,840
Regional	2,271,918	1,710,995

TABLE 4-10Total Daily Vehicle Hours of Delay (2050)

Source: SCAG modeling (2023)

COUNTY	2050 NO PLAN	2050 PLAN			
Autos – Single Occupancy Vehicles					
Imperial	84.82%	85.32%			
Los Angeles	77.98%	84.50%			
Orange	88.12%	91.30%			
Riverside	77.99%	83.74%			
San Bernardino	74.39%	80.86%			
Ventura	81.64%	86.16%			
Region	79.66%	85.31%			
Autos – Hig	h Occupancy Vehicles				
Imperial	80.37%	78.40%			
Los Angeles	79.69%	83.35%			
Orange	88.04%	90.18%			
Riverside	77.95%	83.42%			
San Bernardino	76.06%	80.94%			
Ventura	83.18%	87.36%			
Region	80.67%	84.44%			
	Transit				
Imperial	31.25%	25.40%			
Los Angeles	37.87%	39.54%			
Orange	38.51%	45.40%			
Riverside	54.57%	55.90%			
San Bernardino	47.84%	47.72%			
Ventura	45.49%	54.04%			
Region	38.61%	41.70%			

TABLE 4-11 Percent of PM Work Trips Completed within 45 Minutes

Source: SCAG modeling (2023)

Table Note: Numbers are rounded to nearest thousand and may not sum precisely.