



CAL CIMA

California Construction And
Industrial Materials Association

AGGREGATE AND CONSTRUCTION INDUSTRY 2020
REGIONAL BENEFITS REPORT

AGGREGATES AND CONSTRUCTION INDUSTRIES OUTPUT BY METRO AREA

In California, the metro area with the highest total output for aggregates and construction was the Los Angeles MSA, which includes Los Angeles and Orange counties, with \$64.0 billion in total output. Other MSAs with at least \$10 billion in output include San Francisco, San Jose, Sacramento, San Diego, and Riverside-San Bernardino.

As a percentage of the total metro area output, the aggregates and construction industries comprised over 8.0 percent of the total industry output in the Redding, Riverside, San Luis Obispo, Santa Cruz, and Santa Rosa MSAs. The non-MSA areas of California also had 8.5 percent of the total industry output come from aggregates and construction.

TABLE 1: OUTPUT OF AGGREGATES AND CONSTRUCTION INDUSTRIES BY METRO AREA, 2016

California Metropolitan Statistical Area (MSA)	Const. and Aggregates Output	Total Output	Percent of Total
Bakersfield	\$3,763,238,400	\$63,532,877,955	5.9%
Chico	\$973,183,040	\$15,925,327,889	6.1%
El Centro	\$552,618,176	\$11,359,785,406	4.9%
Fresno	\$3,612,297,472	\$70,246,755,109	5.1%
Hanford-Corcoran	\$252,780,736	\$12,711,115,988	2.0%
Los Angeles- Long Beach- Anaheim	\$63,991,455,744	\$1,523,936,546,904	4.2%
Madera	\$538,471,296	\$9,797,077,995	5.5%
Merced	\$647,928,768	\$16,873,596,810	3.8%
Modesto	\$2,207,003,904	\$41,020,929,715	5.4%
Napa	\$1,268,048,128	\$17,157,272,346	7.4%
Redding	\$962,137,664	\$11,468,051,205	8.4%
Riverside-San Bernardino	\$24,082,503,680	\$278,602,739,676	8.6%
Sacramento-Arden-Roseville	\$14,302,329,856	\$198,742,951,541	7.2%
Salinas	\$1,769,446,144	\$33,903,076,601	5.2%
San Diego-Carlsbad	\$18,057,197,568	\$351,908,657,968	5.1%
San Francisco-Oakland-San Rafael	\$33,320,503,296	\$733,327,596,324	4.5%
San Jose-Sunnyvale-Santa Clara	\$13,345,266,688	\$421,250,521,486	3.2%
San Luis Obispo-Paso Robles-Arroyo Grande	\$2,084,389,888	\$23,172,307,957	9.0%
Santa Barbara-Santa Maria	\$2,262,154,496	\$41,457,271,626	5.5%
Santa Cruz-Watsonville	\$2,038,765,952	\$23,068,316,372	8.8%
Santa Rosa	\$3,887,004,928	\$46,603,762,990	8.3%
Stockton-Lodi	\$2,792,713,472	\$48,561,476,570	5.8%
Vallejo-Fairfield	\$2,644,971,264	\$39,432,416,568	6.7%
Ventura-Oxnard-Thousand Oaks	\$4,032,700,160	\$71,796,559,750	5.6%
Visalia-Tulare	\$1,222,487,296	\$30,481,064,526	4.0%
Yuba City	\$622,262,016	\$10,284,624,759	6.1%
Non-MSA	\$4,574,931,968	\$54,035,399,515	8.5%

Source: ADE, Inc.; data from IMPLAN Pro input-output model



When looking only at aggregates industries, the Riverside-San Bernardino MSA had the largest industry output with \$2.1 billion. The Los Angeles MSA had \$1.9 billion in total industry output. Other MSAs with at least \$400 million in output include San Francisco, Sacramento, San Diego, San Jose, and Bakersfield.

TABLE 2: OUTPUT OF AGGREGATES INDUSTRIES BY METRO AREA, 2016

California Metropolitan Statistical Area (MSA)	Output
Riverside-San Bernardino	\$2,143,441,152
Los Angeles- Long Beach- Anaheim	\$1,929,326,720
San Francisco-Oakland-San Rafael	\$1,140,020,736
Sacramento-Arden-Roseville	\$581,834,304
San Diego-Carlsbad	\$480,158,112
San Jose-Sunnyvale-Santa Clara	\$449,167,968
Bakersfield	\$432,885,056
Stockton-Lodi	\$288,792,128
El Centro	\$217,501,152
Fresno	\$159,943,200
Vallejo-Fairfield	\$140,668,224
Redding	\$137,970,016
Napa	\$135,562,736
Ventura-Oxnard-Thousand Oaks	\$128,393,832
Salinas	\$125,731,336
Santa Barbara-Santa Maria	\$114,024,704
Modesto	\$111,726,152
Santa Rosa	\$99,579,328
San Luis Obispo	\$92,452,824
Merced	\$77,297,736
Madera	\$77,237,432
Yuba City	\$75,794,568
Visalia-Tulare	\$42,383,052
Santa Cruz-Watsonville	\$29,173,378
Hanford-Corcoran	\$26,238,496
Chico	\$12,630,939
Non-MSA	\$228,560,592

Source: ADE, Inc.; data from IMPLAN Pro input-output model

When considering only the construction industries, the MSA with the highest total industry output was the Los Angeles MSA with \$62.1 billion. The other MSAs with at least \$10 billion in output include San Francisco, Riverside-San Bernardino, San Diego, Sacramento, and San Jose.

TABLE 3: OUTPUT OF CONSTRUCTION INDUSTRIES BY METRO AREA, 2016

California Metropolitan Statistical Area (MSA)	Output
Los Angeles- Long Beach- Anaheim	\$62,062,129,152
San Francisco-Oakland-San Rafael	\$32,180,484,096
Riverside-San Bernardino	\$21,939,062,784
San Diego-Carlsbad	\$17,577,039,872
Sacramento-Arden-Roseville	\$13,720,495,104
San Jose-Sunnyvale-Santa Clara	\$12,896,098,304
Ventura-Oxnard-Thousand Oaks	\$3,904,306,176
Santa Rosa	\$3,787,425,536
Fresno	\$3,452,354,304
Bakersfield	3,330,353,408
Vallejo-Fairfield	\$2,504,303,104
Stockton-Lodi	\$2,503,921,152
Santa Barbara-Santa Maria	\$2,148,129,792
Modesto	\$2,095,277,568
Santa Cruz-Watsonville	\$2,009,592,704
San Luis Obispo-Paso Robles- Arroyo Grande	\$1,991,937,024
Salinas	\$1,643,714,816
Visalia-Tulare	\$1,180,104,192
Napa	\$1,132,485,376
Chico	960,552,128
Redding	\$824,167,680
Merced	\$570,631,040
Yuba City	\$546,467,392
Madera	\$461,233,888
El Centro	335,116,992
Hanford-Corcoran	226,542,240
Non-MSA	\$4,346,371,584

Source: ADE, Inc.; data from IMPLAN Pro input-output model

On a per capita basis (construction and aggregates output divided by MSA population), the highest output came from the Napa MSA with an output of nearly \$9,000 per capita. Other MSAs with a per capita industry output for aggregates and construction of at least \$7,000 include Santa Rosa, San Luis Obispo, Santa Cruz, and San Francisco-Oakland.

TABLE 4: PER CAPITA OUTPUT OF AGGREGATES AND CONSTRUCTION INDUSTRIES BY METRO AREA, 2016

California Metropolitan Statistical Area (MSA)	Population	Output Per Capita
Napa	141,711	\$8,948
Santa Rosa	502,475	\$7,736
San Luis Obispo	278,141	\$7,494
Santa Cruz-Watsonville	275,737	\$7,394
San Francisco-Oakland-San Rafael	4,652,525	\$7,162
San Jose-Sunnyvale-Santa Clara	1,981,206	\$6,736
Sacramento-Arden-Roseville	2,271,103	\$6,298
Vallejo-Fairfield	430,907	\$6,138
San Diego-Carlsbad	3,284,477	\$5,498
Redding	177,874	\$5,409
Riverside-San Bernardino	4,480,623	\$5,375
Santa Barbara-Santa Maria	447,073	\$5,060
Los Angeles- Long Beach-Anaheim	13,352,391	\$4,793
Ventura-Oxnard-Thousand Oaks	853,961	\$4,722
Chico	224,432	\$4,336
Bakersfield	886,153	\$4,247
Modesto	541,006	\$4,079
Salinas	438,175	\$4,038
Stockton-Lodi	735,319	\$3,798
Fresno	984,537	\$3,669
Yuba City	170,942	\$3,640
Madera	154,906	\$3,476
El Centro	186,019	\$2,971
Visalia-Tulare	466,431	\$2,621
Merced	271,500	\$2,386
Hanford-Corcoran	149,744	\$1,688
Non-MSA	840,259	\$5,445

Source: ADE, Inc.; data from IMPLAN Pro input-output model

With aggregates industries, the highest per capita output came from the El Centro MSA (Imperial County) with about \$1,170 per capita. Other MSAs with a per capita output for aggregates of at least \$400 include Napa, Redding, Madera, Bakersfield, Riverside-San Bernardino, and Yuba City.

TABLE 5: PER CAPITA OUTPUT OF AGGREGATES INDUSTRIES BY METRO AREA, 2016

California Metropolitan Statistical Area (MSA)	Population	Output Per Capita
El Centro	186,019	\$1,169
Napa	141,711	\$957
Redding	177,874	\$776
Madera	154,906	\$499
Bakersfield	886,153	\$488
Riverside-San Bernardino	4,480,623	\$478
Yuba City	170,942	\$443
Stockton-Lodi	735,319	\$393
San Luis Obispo	278,141	\$332
Vallejo-Fairfield	430,907	\$326
Salinas	438,175	\$287
Merced	271,500	\$285
Sacramento-Arden-Roseville	2,271,103	\$256
Santa Barbara-Santa Maria	447,073	\$255
San Francisco-Oakland-San Rafael	4,652,525	\$245
San Jose-Sunnyvale-Santa Clara	1,981,206	\$227
Modesto	541,006	\$207
Santa Rosa	502,475	\$198
Hanford-Corcoran	149,744	\$175
Fresno	984,537	\$162
Ventura-Oxnard-Thousand Oaks	853,961	\$150
San Diego-Carlsbad	3,284,477	\$146
Los Angeles- Long Beach- Anaheim	13,352,391	\$144
Santa Cruz-Watsonville	275,737	\$106
Visalia-Tulare	466,431	\$91
Chico	224,432	\$56
Non-MSA	840,259	\$272

Source: ADE, Inc.; data from IMPLAN Pro input-output model

When considering only construction industries, the highest output per capita came from the Napa MSA with an output of nearly \$8,000 per capita. The other MSAs with a per capita output of at least \$6,000 include Santa Rosa, Santa Cruz, San Luis Obispo, San Francisco, San Jose, and Sacramento.

TABLE 6: PER CAPITA OUTPUT OF CONSTRUCTION INDUSTRIES BY METRO AREA, 2016

California Metropolitan Statistical Area (MSA)	Population	Output Per Capita
Napa	141,711	\$7,992
Santa Rosa	502,475	\$7,538
Santa Cruz-Watsonville	275,737	\$7,288
San Luis Obispo	278,141	\$7,162
San Francisco-Oakland-San Rafael	4,652,525	\$6,917
San Jose-Sunnyvale-Santa Clara	1,981,206	\$6,509
Sacramento-Arden-Roseville	2,271,103	\$6,041
Vallejo-Fairfield	430,907	\$5,812
San Diego-Carlsbad	3,284,477	\$5,352
Riverside-San Bernardino	4,480,623	\$4,896
Santa Barbara-Santa Maria	447,073	\$4,805
Los Angeles- Long Beach-Anaheim	13,352,391	\$4,648
Redding	177,874	\$4,633
Ventura-Oxnard-Thousand Oaks	853,961	\$4,572
Chico	224,432	\$4,280
Modesto	541,006	\$3,873
Bakersfield	886,153	\$3,758
Salinas	438,175	\$3,751
Fresno	984,537	\$3,507
Stockton-Lodi	735,319	\$3,405
Yuba City	170,942	\$3,197
Madera	154,906	\$2,978
Visalia-Tulare	466,431	\$2,530
Merced	271,500	\$2,102
El Centro	186,019	\$1,802
Hanford-Corcoran	149,744	\$1,513
Non-MSA	840,259	\$5,173

Source: ADE, Inc.; data from IMPLAN Pro input-output model

LABOR INCOME OF AGGREGATES AND CONSTRUCTION INDUSTRIES BY METRO AREA

The MSAs with the highest total labor income for the construction and aggregates industries tends to follow the same trend as the industry output, with the Los Angeles, Riverside-San Bernardino, Sacramento, San Diego, San Francisco, and San Jose MSAs topping the list.

On an average basis per worker, the MSAs with the highest incomes tended to come from the San Francisco Bay Area and adjacent MSAs. The Santa Cruz MSA had the highest average annual income with over \$119,400. Other MSAs with average incomes of over \$70,000 in aggregates and construction include San Francisco-Oakland, San Jose, Napa, Santa Rosa, and Vallejo-Fairfield.

TABLE 7: LABOR INCOME FOR AGGREGATES AND CONSTRUCTION INDUSTRIES BY METRO AREA, 2016

California Metropolitan Statistical Area (MSA)	Labor Income	Average Income
Santa Cruz-Watsonville	\$1,056,177,728	\$119,411
San Francisco-Oakland-San Rafael	\$13,453,599,744	\$83,503
San Jose-Sunnyvale-Santa Clara	\$5,387,149,312	\$82,902
Napa	\$500,707,424	\$78,382
Santa Rosa	\$1,541,934,208	\$74,608
Vallejo-Fairfield	\$993,331,968	\$71,097
Salinas	\$641,156,480	\$65,458
Sacramento-Arden-Roseville	\$5,124,590,080	\$63,403
Los Angeles- Long Beach-Anaheim	\$22,636,103,680	\$62,689
Ventura-Oxnard-Thousand Oaks	\$1,429,390,592	\$61,043
Santa Barbara-Santa Maria	\$790,139,008	\$60,105
San Luis Obispo	\$718,625,216	\$59,450
Hanford-Corcoran	\$85,210,632	\$58,886
Bakersfield	\$1,222,343,552	\$57,609
Modesto	\$750,380,800	\$57,531
Yuba City	\$200,898,448	\$57,183
Fresno	\$1,225,966,976	\$56,381
San Diego-Carlsbad	\$5,971,715,584	\$55,664
Riverside-San Bernardino	\$7,767,579,648	\$55,030
Stockton-Lodi	\$893,783,296	\$54,015
Merced	\$199,193,856	\$51,588
Madera	\$164,108,272	\$51,421
Chico	\$315,498,528	\$51,251
Redding	\$281,890,560	\$49,868
Visalia-Tulare	\$372,116,160	\$46,857
El Centro	\$125,290,472	\$45,785
Non-MSA	\$1,542,945,408	\$57,261

Source: ADE, Inc.; data from IMPLAN Pro input-output model

For only aggregates industries, the highest average labor income came from the Salinas MSA, with around \$105,250 of labor income per worker. The MSAs with the highest overall labor income include Riverside-San Bernardino, Los Angeles, San Francisco, Sacramento, and San Jose.

TABLE 8: LABOR INCOME FOR AGGREGATES INDUSTRIES BY METRO AREA, 2016

California Metropolitan Statistical Area (MSA)	Labor Income	Average Income
Salinas	\$28,001,888	\$105,259
San Francisco-Oakland-San Rafael	\$253,312,864	\$99,599
San Jose-Sunnyvale-Santa Clara	\$107,919,952	\$92,873
Santa Barbara-Santa Maria	\$28,002,368	\$89,954
Fresno	\$31,599,142	\$81,598
Sacramento-Arden-Roseville	\$134,872,912	\$79,147
Vallejo-Fairfield	\$32,062,992	\$78,282
Los Angeles- Long Beach-Anaheim	\$340,117,056	\$77,863
Riverside-San Bernardino	\$425,338,208	\$73,756
Stockton-Lodi	\$68,524,720	\$73,238
San Diego-Carlsbad	\$92,671,216	\$72,171
Bakersfield	\$64,685,652	\$71,518
Hanford-Corcoran	\$4,829,634	\$69,242
San Luis Obispo	\$16,644,442	\$68,574
Santa Cruz-Watsonville	\$5,411,496	\$67,670
Santa Rosa	\$22,147,788	\$66,130
Napa	\$33,076,900	\$65,524
Yuba City	\$13,532,302	\$64,401
El Centro	\$28,136,656	\$64,087
Ventura-Oxnard-Thousand Oaks	\$23,944,028	\$61,507
Modesto	\$18,480,772	\$61,372
Redding	\$23,275,272	\$61,040
Visalia-Tulare	\$7,694,394	\$59,749
Merced	\$12,556,328	\$59,083
Madera	\$13,959,031	\$50,812
Non-MSA	\$39,532,092	\$48,697

Source: ADE, Inc.; data from IMPLAN Pro input-output model

For the construction industries, the average labor income was highest in the Santa Cruz MSA, with \$119,900 per worker. The highest labor income overall was the Los Angeles MSA.

TABLE 8: LABOR INCOME FOR CONSTRUCTION INDUSTRIES BY METRO AREA, 2016

California Metropolitan Statistical Area (MSA)	Labor Income	Average Income
Santa Cruz-Watsonville	\$1,050,766,208	\$119,883
San Francisco-Oakland-San Rafael	\$13,200,286,720	\$83,244
San Jose-Sunnyvale-Santa Clara	\$5,279,229,440	\$82,720
Napa	\$467,630,528	\$79,485
Santa Rosa	\$1,519,786,368	\$74,747
Vallejo-Fairfield	\$961,268,992	\$70,880
Salinas	\$613,154,624	\$64,346
Sacramento-Arden-Roseville	\$4,989,718,016	\$63,064
Los Angeles- Long Beach-Anaheim	\$22,295,986,176	\$62,503
Ventura-Oxnard-Thousand Oaks	\$1,405,446,528	\$61,035
Santa Barbara-Santa Maria	\$762,136,640	\$59,381
San Luis Obispo	\$701,980,800	\$59,263
Hanford-Corcoran	\$80,381,008	\$58,362
Modesto	\$731,900,032	\$57,440
Bakersfield	\$1,157,657,856	\$56,990
Yuba City	\$187,366,144	\$56,724
Fresno	\$1,194,367,744	\$55,923
San Diego-Carlsbad	\$5,879,044,608	\$55,464
Riverside-San Bernardino	\$7,342,241,280	\$54,233
Stockton-Lodi	\$825,258,624	\$52,863
Madera	\$150,149,248	\$51,478
Chico	\$313,450,272	\$51,334
Merced	\$186,637,520	\$51,151
Redding	\$258,615,264	\$49,060
Visalia-Tulare	\$364,421,760	\$46,644
El Centro	\$97,153,816	\$42,288
Non-MSA	\$1,503,413,376	\$57,527

Source: ADE, Inc.; data from IMPLAN Pro input-output model