



# Supplemental Data

Labor Market Analysis: South Central Valley /  
Southern Mother Lode Subregion August, 2017

The following tables are to serve as replacements for the occupational demand tables contained in the original South Central Valley/Southern Mother Lode Overview. These have come about as the result of a significant change in how the Bureau of Labor Statistics is calculating occupational separations. Details on this new methodology can be found at [https://www.bls.gov/emp/ep\\_separations\\_methods.htm](https://www.bls.gov/emp/ep_separations_methods.htm)

**Table 1: Agriculture, water and environmental technologies occupational projections**

SOC	Occupation	2016 Jobs	5-Yr Change	5-Yr % Change	Annual Openings
45-2091	Agricultural Equipment Operators	5,946	724	12%	1,118
11-9013	Farmers, Ranchers and Other Agricultural Managers	11,201	(923)	(8%)	869
53-7051	Industrial Truck and Tractor Operators	5,491	409	7%	680
45-2041	Graders and Sorters, Agricultural Products	4,676	280	6%	643
45-1011	First-Line Supervisors of Farming, Fishing and Forestry Workers	3,787	54	1%	469
49-3041	Farm Equipment Mechanics and Service Technicians	1,125	115	10%	134
13-1041	Compliance Officers	1,280	107	8%	117
19-4093	Forest and Conservation Technicians	969	(72)	(7%)	106
37-1012	First-Line Supervisors of Landscaping, Lawn Service, and Groundskeeping Workers	1,151	32	3%	102
37-2021	Pest Control Workers	739	24	3%	97
31-9096	Veterinary Assistants and Laboratory Animal Caretakers	500	32	6%	94
45-2011	Agricultural Inspectors	905	17	2%	87
51-8031	Water and Wastewater Treatment Plant and System Operators	848	38	4%	81
37-3012	Pesticide Handlers, Sprayers and Applicators, Vegetation	527	69	13%	80
39-2011	Animal Trainers	486	(21)	(4%)	61
19-4011	Agricultural and Food Science Technicians	543	17	3%	60
45-4011	Forest and Conservation Workers	316	(4)	(1%)	42
19-4091	Environmental Science and Protection Technicians, Including Health	296	12	4%	37
19-4099	Life, Physical and Social Science Technicians, All Other	223	21	9%	31
19-1012	Food Scientists and Technologists	271	11	4%	29

Source: EMSI, 2017.3 – QCEW Employees, Non-QCEW Employees, and Self-Employed

**Table 2: Business and office occupational projections**

SOC	Occupation	2016 Jobs	5-Yr Change	5-Yr % Change	Annual Openings
43-6014	Secretaries and Administrative Assistants, Except Legal, Medical and Executive	13,577	997	7%	1,636
43-4051	Customer Service Representatives	9,432	1,482	16%	1,543
43-3031	Bookkeeping, Accounting and Auditing Clerks	11,166	(50)	(0%)	1,220
43-1011	First-Line Supervisors of Office and Administrative Support Workers	8,161	759	9%	936
13-1199	Business Operations Specialists, All Other	5,467	315	6%	524
43-3021	Billing and Posting Clerks	2,765	306	11%	355
43-6011	Executive Secretaries and Executive Administrative Assistants	2,775	90	3%	307
41-3021	Insurance Sales Agents	2,556	117	5%	272
43-3071	Tellers	2,324	(310)	(13%)	263
43-9041	Insurance Claims and Policy Processing Clerks	2,629	(6)	(0%)	255
43-9199	Office and Administrative Support Workers, All Other	2,105	124	6%	246
43-4061	Eligibility Interviewers, Government Programs	2,645	93	4%	229
43-3051	Payroll and Timekeeping Clerks	1,847	28	2%	189
41-1012	First-Line Supervisors of Non-Retail Sales Workers	1,990	84	4%	189
41-9022	Real Estate Sales Agents	1,950	(26)	(1%)	182
43-9021	Data Entry Keyers	1,635	7	0%	182
11-3011	Administrative Services Managers	1,679	124	7%	159
37-1011	First-Line Supervisors of Housekeeping and Janitorial Workers	1,258	101	8%	153
43-3011	Bill and Account Collectors	1,224	4	0%	139
13-1051	Cost Estimators	1,326	59	4%	134
43-4111	Interviewers, Except Eligibility and Loan	1,036	80	8%	133
11-9141	Property, Real Estate and Community Association Managers	1,564	45	3%	130
13-1031	Claims Adjusters, Examiners and Investigators	1,555	18	1%	125
43-6012	Legal Secretaries	1,061	26	2%	116
13-1023	Purchasing Agents, Except Wholesale, Retail and Farm Products	1,082	62	6%	101
13-2081	Tax Examiners and Collectors, and Revenue Agents	1,534	(32)	(2%)	101
13-2072	Loan Officers	1,137	(45)	(4%)	91
43-4161	Human Resources Assistants, Except Payroll and Timekeeping	759	42	6%	83
13-2082	Tax Preparers	668	5	1%	72
43-4031	Court, Municipal and License Clerks	633	66	10%	66
43-4131	Loan Interviewers and Clerks	553	(1)	(0%)	54

SOC	Occupation	2016 Jobs	5-Yr Change	5-Yr % Change	Annual Openings
43-3061	Procurement Clerks	445	5	1%	42
13-1141	Compensation, Benefits and Job Analysis Specialists	303	21	7%	29
13-2021	Appraisers and Assessors of Real Estate	382	2	1%	26

Source: EMSI, 2017.3 – QCEW Employees, Non-QCEW Employees, and Self-Employed

**Table 3: Energy, construction and utilities occupational projections**

SOC	Occupation	2016 Jobs	5-Yr Change	5-Yr % Change	Annual Openings
47-2031	Carpenters	5,046	(168)	(3%)	456
47-2111	Electricians	3,446	256	7%	404
47-1011	First-Line Supervisors of Construction Trades and Extraction Workers	3,752	27	1%	369
47-2152	Plumbers, Pipefitters and Steamfitters	2,169	278	13%	285
47-2073	Operating Engineers and Other Construction Equipment Operators	2,408	147	6%	282
49-9021	Heating, Air Conditioning and Refrigeration Mechanics and Installers	2,096	250	12%	263
47-2051	Cement Masons and Concrete Finishers	1,972	27	1%	212
47-2141	Painters, Construction and Maintenance	2,404	(131)	(5%)	205
11-9021	Construction Managers	2,018	(117)	(6%)	135
47-5013	Service Unit Operators, Oil, Gas and Mining	1,289	(160)	(12%)	114
47-2181	Roofers	918	18	2%	105
47-5071	Roustabouts, Oil and Gas	1,029	(107)	(10%)	103
47-2081	Drywall and Ceiling Tile Installers	1,038	(17)	(2%)	94
47-4041	Hazardous Materials Removal Workers	437	146	33%	84
51-7011	Cabinetmakers and Bench Carpenters	835	(18)	(2%)	82
49-9051	Electrical Power-Line Installers and Repairers	641	(22)	(3%)	62
47-4071	Septic Tank Servicers and Sewer Pipe Cleaners	379	103	27%	59
47-4051	Highway Maintenance Workers	436	73	17%	59
47-2044	Tile and Marble Setters	635	(27)	(4%)	53
47-5012	Rotary Drill Operators, Oil and Gas	607	(84)	(14%)	53
47-4011	Construction and Building Inspectors	442	31	7%	50
19-4041	Geological and Petroleum Technicians	481	(5)	(1%)	45
47-5021	Earth Drillers, Except Oil and Gas	315	6	2%	33
53-7072	Pump Operators, Except Wellhead Pumpers	231	(3)	(1%)	27
53-7073	Wellhead Pumpers	134	15	11%	19

Source: EMSI, 2017.3 – QCEW Employees, Non-QCEW Employees, and Self-Employed

**Table 4: Global trade and logistics occupational projections**

<b>SOC</b>	<b>Occupation</b>	<b>2016 Jobs</b>	<b>5-Yr Change</b>	<b>5-Yr % Change</b>	<b>Annual Openings</b>
53-3032	Heavy and Tractor-Trailer Truck Drivers	17,042	1,423	8%	2,151
41-4012	Sales Representatives, Wholesale and Manufacturing, Except Technical and Scientific Products	7,084	524	7%	834
41-4011	Sales Representatives, Wholesale and Manufacturing, Technical and Scientific Products	1,454	85	6%	165
53-1021	First-Line Supervisors of Helpers, Laborers and Material Movers, Hand	1,357	118	9%	164
53-1031	First-Line Supervisors of Transportation and Material-Moving Machine and Vehicle Operators	1,259	121	10%	155
13-1022	Wholesale and Retail Buyers, Except Farm Products	617	28	5%	71
11-3071	Transportation, Storage and Distribution Managers	860	39	5%	70
13-1081	Logisticians	696	26	4%	63
53-2012	Commercial Pilots	293	55	19%	40
43-5011	Cargo and Freight Agents	251	19	8%	25

Source: EMSI, 2017.3 – QCEW Employees, Non-QCEW Employees, and Self-Employed

**Table 5: Health care occupational projections**

SOC	Occupation	2016 Jobs	5-Yr Change	5-Yr % Change	Annual Openings
29-1141	Registered Nurses	16,996	2,551	15%	1,441
31-1014	Nursing Assistants	6,963	1,261	18%	1,130
31-9092	Medical Assistants	5,751	745	13%	819
43-6013	Medical Secretaries	4,115	508	12%	548
31-1011	Home Health Aides	1,648	1,251	76%	516
31-9091	Dental Assistants	2,962	221	7%	384
29-2061	Licensed Practical and Licensed Vocational Nurses	4,228	555	13%	372
29-2052	Pharmacy Technicians	2,363	224	9%	210
31-9099	Healthcare Support Workers, All Other	1,135	93	8%	159
29-2053	Psychiatric Technicians	1,638	(18)	(1%)	125
31-9097	Phlebotomists	790	117	15%	108
31-9011	Massage Therapists	781	95	12%	100
29-2071	Medical Records and Health Information Technicians	1,226	143	12%	99
29-2034	Radiologic Technologists	1,218	133	11%	91
31-9095	Pharmacy Aides	614	8	1%	89
29-2055	Surgical Technologists	695	105	15%	71
29-2012	Medical and Clinical Laboratory Technicians	792	123	16%	69
29-2021	Dental Hygienists	840	92	11%	69
29-1126	Respiratory Therapists	865	98	11%	63
31-2022	Physical Therapist Aides	427	66	15%	63
29-2011	Medical and Clinical Laboratory Technologists	564	100	18%	52
31-9093	Medical Equipment Preparers	328	47	14%	51
31-2021	Physical Therapist Assistants	228	70	31%	42
29-2081	Opticians, Dispensing	289	102	35%	41
31-9094	Medical Transcriptionists	334	10	3%	40
31-1015	Orderlies	238	34	14%	36
29-2032	Diagnostic Medical Sonographers	390	73	19%	36
31-1013	Psychiatric Aides	150	68	45%	35
29-2056	Veterinary Technologists and Technicians	338	46	14%	33
29-2057	Ophthalmic Medical Technicians	314	52	17%	33
29-2031	Cardiovascular Technologists and Technicians	326	57	17%	29
31-2011	Occupational Therapy Assistants	109	37	34%	20
29-9099	Healthcare Practitioners and Technical Workers, All Other	276	28	10%	19

Source: EMSI, 2017.3 – QCEW Employees, Non-QCEW Employees, and Self-Employed

**Table 6: ICT/digital media occupational projections**

<b>SOC</b>	<b>Occupation</b>	<b>2016 Jobs</b>	<b>5-Yr Change</b>	<b>5-Yr % Change</b>	<b>Annual Openings</b>
49-2022	Telecommunications Equipment Installers and Repairers, Except Line Installers	1,816	252	14%	233
15-1151	Computer User Support Specialists	2,277	218	10%	208
27-1024	Graphic Designers	1,067	27	3%	108
15-1142	Network and Computer Systems Administrators	1,215	101	8%	96
15-1199	Computer Occupations, All Other	1,226	27	2%	83
15-1152	Computer Network Support Specialists	583	68	12%	56
49-2011	Computer, Automated Teller and Office Machine Repairers	476	14	3%	52
27-4011	Audio and Video Equipment Technicians	378	44	12%	46
15-1134	Web Developers	430	50	12%	42
15-1143	Computer Network Architects	252	39	15%	23

Source: EMSI, 2017.3 – QCEW Employees, Non-QCEW Employees, and Self-Employed

**Table 7: Manufacturing occupational projections**

SOC	Occupation	2016 Jobs	5-Yr Change	5-Yr % Change	Annual Openings
51-9111	Packaging and Filling Machine Operators and Tenders	5,297	513	10%	731
51-2092	Team Assemblers	3,100	287	9%	432
51-9061	Inspectors, Testers, Sorters, Samplers and Weighers	2,916	201	7%	397
49-9041	Industrial Machinery Mechanics	3,128	460	15%	376
51-1011	First-Line Supervisors of Production and Operating Workers	3,337	227	7%	374
51-3092	Food Batchmakers	2,425	124	5%	367
49-1011	First-Line Supervisors of Mechanics, Installers and Repairers	2,879	229	8%	297
51-9199	Production Workers, All Other	1,661	109	7%	217
43-5061	Production, Planning and Expediting Clerks	1,411	114	8%	158
51-2099	Assemblers and Fabricators, All Other	1,114	103	9%	155
51-9023	Mixing and Blending Machine Setters, Operators and Tenders	1,001	62	6%	124
51-9012	Separating, Filtering, Clarifying, Precipitating and Still Machine Setters, Operators and Tenders	1,012	63	6%	119
51-3093	Food Cooking Machine Operators and Tenders	702	53	8%	99
49-9043	Maintenance Workers, Machinery	782	79	10%	95
51-3099	Food Processing Workers, All Other	705	71	10%	93
11-3051	Industrial Production Managers	851	62	7%	71
51-9196	Paper Goods Machine Setters, Operators and Tenders	524	63	12%	70
51-3091	Food and Tobacco Roasting, Baking and Drying Machine Operators and Tenders	502	32	6%	69
51-8093	Petroleum Pump System Operators, Refinery Operators and Gaugers	525	52	10%	67
51-9192	Cleaning, Washing and Metal Pickling Equipment Operators and Tenders	469	45	10%	57
51-5112	Printing Press Operators	477	(17)	(4%)	51
51-8013	Power Plant Operators	493	(79)	(16%)	46
51-4011	Computer-Controlled Machine Tool Operators, Metal and Plastic	255	43	17%	36
51-6052	Tailors, Dressmakers and Custom Sewers	263	3	1%	32
51-9121	Coating, Painting and Spraying Machine Setters, Operators and Tenders	249	25	10%	32
51-9041	Extruding, Forming, Pressing and Compacting Machine Setters, Operators and Tenders	199	13	7%	24
51-9195	Molders, Shapers and Casters, Except Metal and Plastic	177	6	3%	19
51-9011	Chemical Equipment Operators and Tenders	117	16	14%	16
51-8092	Gas Plant Operators	72	30	42%	15

Source: EMSI, 2017.3 – QCEW Employees, Non-QCEW Employees, and Self-Employed



**Table 8: Multi-sector occupational projections**

SOC	Occupation	2016 Jobs	5-Yr Change	5-Yr % Change	Annual Openings
49-9071	Maintenance and Repair Workers, General	9,312	704	8%	1,009
51-4121	Welders, Cutters, Solderers, and Brazers	2,503	89	4%	296
49-3031	Bus and Truck Mechanics and Diesel Engine Specialists	1,634	188	12%	184
51-4041	Machinists	1,373	89	6%	165
49-3042	Mobile Heavy Equipment Mechanics, Except Engines	1,542	37	2%	154
49-9099	Installation, Maintenance, and Repair Workers, All Other	1,329	56	4%	139
47-2211	Sheet Metal Workers	861	59	7%	93
49-9052	Telecommunications Line Installers and Repairers	756	81	11%	93
17-3023	Electrical and Electronics Engineering Technicians	1,029	9	1%	72
49-3011	Aircraft Mechanics and Service Technicians	830	(13)	(2%)	65
17-3029	Engineering Technicians, Except Drafters, All Other	735	10	1%	51
53-7021	Crane and Tower Operators	419	(1)	(0%)	47
49-2094	Electrical and Electronics Repairers, Commercial and Industrial Equipment	402	15	4%	39
19-4031	Chemical Technicians	352	24	7%	38
49-9012	Control and Valve Installers and Repairers, Except Mechanical Door	290.6	57	0.19588	36
51-2041	Structural Metal Fabricators and Fitters	328	16	5%	33
49-2098	Security and Fire Alarm Systems Installers	242	8	3%	28
49-9062	Medical Equipment Repairers	145	27	19%	20

Source: EMSI, 2017.3 – QCEW Employees, Non-QCEW Employees, and Self-Employed

**Table 9: Other occupational projections**

SOC	Occupation	2016 Jobs	5-Yr Change	5-Yr % Change	Annual Openings
25-9041	Teacher Assistants	12,960	1,191	9%	1,535
39-9011	Childcare Workers	9,509	(470)	(5%)	1,331
49-3023	Automotive Service Technicians and Mechanics	5,974	346	6%	624
53-3022	Bus Drivers, School or Special Client	2,778	389	14%	446
25-2011	Preschool Teachers, Except Special Education	2,734	174	6%	300
25-2012	Kindergarten Teachers, Except Special Education	1,437	136	9%	167
43-5032	Dispatchers, Except Police, Fire and Ambulance	1,445	121	8%	158
53-3021	Bus Drivers, Transit and Intercity	844	68	8%	122
13-1151	Training and Development Specialists	1,044	115	11%	118
25-4031	Library Technicians	760	44	6%	116
43-5111	Weighers, Measurers, Checkers and Samplers, Recordkeeping	1,046	61	6%	111
49-3021	Automotive Body and Related Repairers	939	51	5%	95
23-2011	Paralegals and Legal Assistants	1,010	77	8%	94
51-2022	Electrical and Electronic Equipment Assemblers	656	49	7%	88
43-4121	Library Assistants, Clerical	381	36	9%	62
27-4021	Photographers	557	17	3%	55
39-4021	Funeral Attendants	253	16	6%	48
49-9031	Home Appliance Repairers	375	46	12%	43
51-9122	Painters, Transportation Equipment	350	17	5%	40
25-2032	Career/Technical Education Teachers, Secondary School	359	46	13%	37
17-3022	Civil Engineering Technicians	399	43	11%	36
11-9031	Education Administrators, Preschool and Childcare Center/Program	453	15	3%	36
25-2051	Special Education Teachers, Preschool	179	42	23%	23

Source: EMSI, 2017.3 – QCEW Employees, Non-QCEW Employees, and Self-Employed

**Table 10: Retail, hospitality and tourism occupational projections**

SOC	Occupation	2016 Jobs	5-Yr Change	5-Yr % Change	Annual Openings
41-1011	First-Line Supervisors of Retail Sales Workers	9,078	611	7%	1,133
35-1012	First-Line Supervisors of Food Preparation and Serving Workers	5,546	693	12%	951
35-2014	Cooks, Restaurant	5,377	698	13%	950
41-3099	Sales Representatives, Services, All Other	4,399	390	9%	596
39-5012	Hairdressers, Hairstylists and Cosmetologists	3,672	264	7%	532
35-2012	Cooks, Institution and Cafeteria	2,061	288	14%	371
41-2022	Parts Salespersons	2,326	190	8%	314
11-9051	Food Service Managers	2,381	127	5%	278
39-9031	Fitness Trainers and Aerobics Instructors	1,346	145	11%	254
25-3021	Self-Enrichment Education Teachers	1,592	205	13%	222
51-3011	Bakers	1,285	119	9%	215
51-3021	Butchers and Meat Cutters	1,131	122	11%	171
39-5092	Manicurists and Pedicurists	1,032	102	10%	143
39-1021	First-Line Supervisors of Personal Service Workers	856	187	22%	129
41-9011	Demonstrators and Product Promoters	525	11	2%	91
27-2042	Musicians and Singers	767	50	7%	83
27-3091	Interpreters and Translators	576	87	15%	70
41-3011	Advertising Sales Agents	468	(8)	(2%)	58
27-1026	Merchandise Displayers and Window Trimmers	508	27	5%	55
39-5094	Skincare Specialists	343	41	12%	49
39-5011	Barbers	427	28	7%	48
39-7011	Tour Guides and Escorts	230	22	10%	46
27-1025	Interior Designers	336	18	5%	36

Source: EMSI, 2017.3 – QCEW Employees, Non-QCEW Employees, and Self-Employed