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Occupational Employment and Wages in Anaheim-Santa Ana-Irvine — May 2016

Workers in the Anaheim-Santa Ana-Irvine Metropolitan Division had an average (mean) hourly wage of \$26.87 in May 2016, about 13 percent above the nationwide average of \$23.86, according to the U.S. Bureau of Labor Statistics. Assistant Commissioner for Regional Operations Richard Holden noted that, after testing for statistical significance, wages in the local area were higher than their respective national averages in 16 of the 22 major occupational groups, including legal; management; and healthcare practitioners and technical.

When compared to the nationwide distribution, local employment was more highly concentrated in 10 of the 22 occupational groups, including business and financial operations; management; and office and administrative support. Conversely, eight groups had employment shares significantly below their national representation, including transportation and material moving; healthcare practitioners and technical; and education, training, and library. (See [table A](#) and [box note](#) at end of release.)

Table A. Occupational employment and wages by major occupational group, United States and the Anaheim-Santa Ana-Irvine Metropolitan Division, and measures of statistical significance, May 2016

Major occupational group	Percent of total employment		Mean hourly wage		
	United States	Anaheim	United States	Anaheim	Percent difference ⁽¹⁾
Total, all occupations	100.0	100.0	\$23.86	\$26.87*	13
Management	5.1	6.5*	56.74	63.08*	11
Business and financial operations	5.2	7.0*	36.09	38.74*	7
Computer and mathematical	3.0	3.5*	42.25	45.57*	8
Architecture and engineering	1.8	2.4*	40.53	44.47*	10
Life, physical, and social science	0.8	0.8	35.06	35.75	2
Community and social service.....	1.4	1.1*	22.69	26.39*	16
Legal.....	0.8	0.8	50.95	57.42*	13
Education, training, and library.....	6.2	5.0*	26.21	30.34*	16
Arts, design, entertainment, sports, and media.....	1.4	1.5*	28.07	27.66	-1
Healthcare practitioners and technical	5.9	4.7*	38.06	42.32*	11
Healthcare support	2.9	2.2*	14.65	16.65*	14
Protective service	2.4	1.6*	22.03	23.98	9
Food preparation and serving related	9.2	9.6*	11.47	12.82*	12
Building and grounds cleaning and maintenance ...	3.2	3.4*	13.47	14.17*	5
Personal care and service.....	3.2	2.9	12.74	13.48*	6
Sales and related	10.4	10.7*	19.50	22.55*	16
Office and administrative support.....	15.7	16.8*	17.91	19.67*	10
Farming, fishing, and forestry	0.3	0.1*	13.37	13.07	-2
Construction and extraction.....	4.0	4.6*	23.51	26.15*	11
Installation, maintenance, and repair	3.9	2.9*	22.45	24.43*	9
Production	6.5	6.7	17.88	16.87*	-6
Transportation and material moving.....	6.9	5.1*	17.34	15.39*	-11

Note: See footnotes at end of table.

Footnotes:

(1) A positive percent difference measures how much the mean wage in the Anaheim-Santa Ana-Irvine Metropolitan Division is above the national mean wage, while a negative difference reflects a lower wage.

* The percent share of employment or mean hourly wage for this area is significantly different from the national average of all areas at the 90-percent confidence level.

One occupational group—business and financial operations—was chosen to illustrate the diversity of data available for any of the 22 major occupational categories. Anaheim-Santa Ana-Irvine had 109,150 jobs in business and financial operations, accounting for 7.0 percent of local area employment, significantly higher than the 5.2-percent share nationally. The average hourly wage for this occupational group locally was \$38.74, significantly above the national wage of \$36.09.

Some of the largest detailed occupations within the business and financial operations group included accountants and auditors (15,710), market research analysts and marketing specialists (10,970), and management analysts (10,520). Among the higher paying jobs were personal financial advisors and financial examiners, with mean hourly wages of \$59.67 and \$50.86, respectively. At the lower end of the wage scale were meeting, convention, and event planners (\$26.27) and tax preparers (\$27.78). (Detailed occupational data for business and financial operations are presented in [table 1](#); for a complete listing of detailed occupations available go to www.bls.gov/oes/2016/may/oes_11244.htm.)

Location quotients allow us to explore the occupational make-up of a metropolitan area by comparing the composition of jobs in an area relative to the national average. (See [table 1](#).) For example, a location quotient of 2.0 indicates that an occupation accounts for twice the share of employment in the area than it does nationally. In the Anaheim-Santa Ana-Irvine Metropolitan Division, above-average concentrations of employment were found in some of the occupations within the business and financial operations group. For instance, market research analysts and marketing specialists were employed at 1.8 times the national rate in Anaheim, and personal financial advisors, at 1.5 times the U.S. average. On the other hand, training and development specialists had a location quotient of 0.9 in Anaheim, indicating that this particular occupation's local and national employment shares were similar.

These statistics are from the Occupational Employment Statistics (OES) survey, a federal-state cooperative program between BLS and State Workforce Agencies, in this case, the California Employment Development Department.

Notes on Occupational Employment Statistics Data

A value that is statistically different from another does not necessarily mean that the difference has economic or practical significance. Statistical significance is concerned with the ability to make confident statements about a universe based on a sample. It is entirely possible that a large difference between two values is not significantly different statistically, while a small difference is, since both the size and heterogeneity of the sample affect the relative error of the data being tested.

Technical Note

The Occupational Employment Statistics (OES) survey is a semiannual mail survey measuring occupational employment and wage rates for wage and salary workers in nonfarm establishments in the United States. The OES data available from BLS include cross-industry occupational employment and wage estimates for the nation; over 650 areas, including states and the District of Columbia, metropolitan statistical areas (MSAs), metropolitan divisions, nonmetropolitan areas, and territories; national industry-specific estimates at the NAICS sector, 3-, 4-, and selected 5- and 6-digit industry levels, and national estimates by ownership across all industries and for schools and hospitals. OES data are available at www.bls.gov/oes/tables.htm.

OES estimates are constructed from a sample of about 1.2 million establishments. Each year, two semiannual panels of approximately 200,000 sampled establishments are contacted, one panel in May and the other in November. Responses are obtained by mail, Internet or other electronic means, email, telephone, or personal visit. The May 2016 estimates are based on responses from six semiannual panels collected over a 3-year period: May 2016, November 2015, May 2015, November 2014, May 2014, and November 2013. The overall national response rate for the six panels, based on the 50 states and the District of Columbia, is 73 percent based on establishments and 69 percent based on weighted sampled employment. The unweighted employment of sampled establishments across all six semiannual panels represents approximately 58 percent of total national employment. The sample in the Anaheim-Santa Ana-Irvine Metropolitan Division included 7,162 establishments with a response rate of 56 percent. For more information about OES concepts and methodology, go to www.bls.gov/news.release/ocwage.tn.htm.

The May 2016 OES estimates are based on the 2010 Standard Occupational Classification (SOC) system and the 2012 North American Industry Classification System (NAICS). Information about the 2010 SOC is available on the BLS website at www.bls.gov/soc and information about the 2012 NAICS is available at www.bls.gov/bls/naics.htm.

Metropolitan area definitions

The substate area data published in this release reflect the standards and definitions established by the U.S. Office of Management and Budget.

The **Anaheim-Santa Ana-Irvine, Calif. Metropolitan Division** includes Orange County.

Additional information

OES data are available on our regional web page at www.bls.gov/regions/west. Answers to frequently asked questions about the OES data are available at www.bls.gov/oes/oes_ques.htm. Detailed technical information about the OES survey is available in our Survey Methods and Reliability Statement on the BLS website at www.bls.gov/oes/current/methods_statement.pdf.

Information in this release will be made available to sensory impaired individuals upon request. Voice phone: (202) 691-5200; Federal Relay Service: (800) 877-8339.

Table 1. Employment and wage data from the Occupational Employment Statistics survey, by occupation, Anaheim-Santa Ana-Irvine Metropolitan Division, May 2016

Occupation ⁽¹⁾	Employment		Mean wages	
	Level ⁽²⁾	Location quotient ⁽³⁾	Hourly	Annual ⁽⁴⁾
Business and financial operations occupations	109,150	1.4	\$38.74	\$80,570
Agents and business managers of artists, performers, and athletes	90	0.6	50.34	104,710
Buyers and purchasing agents, farm products	50	0.4	34.98	72,750
Wholesale and retail buyers, except farm products	1,780	1.5	35.22	73,260
Purchasing agents, except wholesale, retail, and farm products	4,240	1.3	33.87	70,460
Claims adjusters, examiners, and investigators	4,120	1.4	36.47	75,860
Insurance appraisers, auto damage	280	1.6	31.42	65,350
Compliance officers	3,820	1.3	39.75	82,680
Cost estimators	3,100	1.3	36.57	76,060
Human resources specialists	6,960	1.2	35.86	74,580
Labor relations specialists	610	0.7	35.03	72,870
Logisticians	2,030	1.3	38.95	81,010
Management analysts	10,520	1.5	45.18	93,970
Meeting, convention, and event planners	1,780	1.7	26.27	54,640
Fundraisers	350	0.5	34.83	72,440
Compensation, benefits, and job analysis specialists	870	1.0	34.04	70,810
Training and development specialists	2,780	0.9	32.64	67,900
Market research analysts and marketing specialists	10,970	1.8	34.36	71,470
Business operations specialists, all other	14,000	1.3	38.94	81,000
Accountants and auditors	15,710	1.1	37.64	78,290
Appraisers and assessors of real estate	530	0.8	39.57	82,310
Budget analysts	700	1.2	46.64	97,000
Credit analysts	1,400	1.7	45.12	93,840
Financial analysts	3,810	1.2	46.20	96,090
Personal financial advisors	3,450	1.5	59.67	124,120
Insurance underwriters	1,460	1.4	38.04	79,130
Financial examiners	550	1.0	50.86	105,800
Credit counselors	450	1.2	28.51	59,290
Loan officers	(5)	(5)	38.37	79,800
Tax examiners and collectors, and revenue agents	410	0.6	39.97	83,130
Tax preparers	1,450	1.9	27.78	57,780
Financial specialists, all other	1,870	1.4	40.58	84,400

Footnotes:

(1) For a complete listing of all detailed occupations in the Anaheim-Santa Ana-Irvine, CA Metropolitan Division, see www.bls.gov/oes/current/oes_11244.htm

(2) Estimates for detailed occupations do not sum to the totals because the totals include occupations not shown separately. Estimates do not include self-employed workers.

(3) The location quotient is the ratio of the area concentration of occupational employment to the national average concentration. A location quotient greater than one indicates the occupation has a higher share of employment than average, and a location quotient less than one indicates the occupation is less prevalent in the area than average.

(4) Annual wages have been calculated by multiplying the hourly mean wage by a "year-round, full-time" hours figure of 2,080 hours; for those occupations where there is not an hourly mean wage published, the annual wage has been directly calculated from the reported survey data.

(5) Estimate not released.