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## OCCUPATIONAL EMPLOYMENT AND WAGES IN SAN FRANCISCO-SAN MATEO-REDWOOD CITY, MAY 2011

Workers in the San Francisco-San Mateo-Redwood City Metropolitan Division had an average (mean) hourly wage of \$31.17 in May 2011, about 43 percent above the nationwide average of \$21.74, according to the U.S. Bureau of Labor Statistics. Regional Commissioner Richard J. Holden noted that, after testing for statistical significance, wages in the local area were significantly higher than their respective national averages in all of the 22 major occupational groups.

When compared to the nationwide distribution, local employment was more highly concentrated in 8 of the 22 occupational groups, including business and financial operations, computer and mathematical, and management. Conversely, 13 groups had employment shares significantly below their national representation, including production; transportation and material moving; 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 San Francisco-San Mateo-Redwood City Metropolitan Division, and measures of statistical significance, May 2011**

Major occupational group	Percent of total employment		Mean hourly wage			
	United States	San Francisco	United States	San Francisco	Percent difference <sup>1</sup>	
<b>Total, all occupations</b>	100.0%	100.0%	\$21.74	\$31.17	*	43
Management	4.8	7.5 *	51.64	68.29	*	32
Business and financial operations	4.8	8.5 *	33.05	43.99	*	33
Computer and mathematical	2.7	5.5 *	37.85	47.75	*	26
Architecture and engineering	1.8	1.7 *	37.08	44.70	*	21
Life, physical, and social science	0.8	1.8 *	32.44	42.53	*	31
Community and social service	1.5	1.5	21.07	26.32	*	25
Legal	0.8	1.5 *	47.30	68.55	*	45
Education, training, and library	6.6	4.9 *	24.46	29.54	*	21
Arts, design, entertainment, sports, and media	1.3	2.7 *	25.89	34.32	*	33
Healthcare practitioners and technical	5.9	4.6 *	34.97	46.88	*	34
Healthcare support	3.1	2.2 *	13.16	17.72	*	35
Protective service	2.5	2.3 *	20.54	25.42	*	24
Food preparation and serving related	8.7	9.9 *	10.30	12.69	*	23
Building and grounds cleaning and maintenance	3.3	3.9 *	12.29	14.86	*	21
Personal care and service	2.8	2.5 *	11.84	16.27	*	37
Sales and related	10.6	10.1 *	18.04	25.25	*	40
Office and administrative support	16.7	16.1 *	16.40	21.68	*	32
Farming, fishing, and forestry	0.3	***[2]	11.68	17.43	*	49
Construction and extraction	3.9	2.8 *	21.46	29.59	*	38
Installation, maintenance, and repair	3.9	2.5 *	20.86	26.23	*	26
Production	6.5	2.8 *	16.45	18.66	*	13
Transportation and material moving	6.7	4.7 *	15.96	19.77	*	24

\* 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.

<sup>1</sup> A positive percent difference measures how much the mean wage in San Francisco is above the national mean wage, while a negative difference reflects a lower wage.

\*\*\*[2] Indicates a value of less than 0.05 percent.

One occupational group—business and financial operations—was chosen to illustrate the diversity of data available for any of the 22 major occupational categories. San Francisco-San Mateo-Redwood City had 81,290 jobs in business and financial operations, accounting for 8.5 percent of local area employment, significantly higher than the 4.8-percent share nationally. The average hourly wage for this occupational group locally was \$43.99, measurably above the national wage of \$33.05.

With employment of 13,010, accountants and auditors was one of the largest occupations within the business and financial operations group, as were management analysts (8,440) and market research analysts and marketing specialists (7,800). Among the higher paying jobs were personal financial advisors and management analysts, with mean hourly wages of \$62.54 and \$54.72, respectively. At the lower end of the wage scale were credit counselors (\$20.40) and meeting, convention, and event planners (\$28.82). (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/current/oes\\_41884.htm](http://www.bls.gov/oes/current/oes_41884.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 San Francisco-San Mateo-Redwood City Metropolitan Division, above average concentrations of employment were found in many of the occupations within the business and financial operations group. For instance, personal financial advisors were employed at 3.5 times the national rate in San Francisco, and market research analysts and marketing specialists, at 3.3 times the U.S. average. On the other hand, training and development specialists had a location quotient of 1.1 in San Francisco, 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. The OES survey provides estimates of employment and hourly and annual wages for wage and salary workers in 22 major occupational groups and nearly 800 detailed occupations for the nation, states, metropolitan statistical areas, metropolitan divisions, and nonmetropolitan areas.

OES wage and employment data for the 22 major occupational groups in the San Francisco Metropolitan Division were compared to their respective national averages based on statistical significance testing. Only those occupations with wages or employment shares above or below the national wage or share after testing for significance at the 90-percent confidence level meet the criteria.

NOTE: 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. Guam, Puerto Rico, and the Virgin Islands also are surveyed, but their data are not included in the national estimates. OES estimates are constructed from a sample of about 1.2 million establishments. Forms are mailed to approximately 200,000 establishments in May and November of each year for a 3-year period. The nationwide response rate for the May 2011 survey was 77.3 percent based on establishments and 73.3 percent based on employment. May 2011 estimates are based on responses from six semiannual panels collected over a 3-year period: May 2011, November 2010, May 2010, November 2009, May 2009, and November 2008. The sample in the San Francisco-San Mateo-Redwood City Metropolitan Division included 5,684 establishments with a response rate of 73 percent. For more information about OES concepts and methodology, go to [www.bls.gov/news.release/ocwage.tn.htm](http://www.bls.gov/news.release/ocwage.tn.htm).

The May 2011 OES estimates mark the first set of estimates based in part on data collected using the 2010 Standard Occupational Classification (SOC) system. Nearly all the occupations in this release are 2010 SOC occupations; however, some are not. The May 2012 OES data will reflect the full set of detailed occupations in the 2010 SOC. For a list of all occupations, including 2010 SOC occupations, and how data collected on two structures were combined, see the OES Frequently Asked Questions online at [www.bls.gov/oes/oes\\_ques.htm#Ques41](http://www.bls.gov/oes/oes_ques.htm#Ques41).

### 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 **San Francisco-San Mateo-Redwood City, Calif. Metropolitan Division** includes Marin, San Francisco, and San Mateo Counties.

### Additional information

OES data are available on our regional web page at [www.bls.gov/ro9/home.htm](http://www.bls.gov/ro9/home.htm). If you have additional questions, contact the San Francisco Economic Analysis and Information Unit at (415) 625-2270. Information in this release will be made available to sensory impaired individuals upon request. Voice phone: (202) 691-5200; TDD message referral phone number: 1 (800) 877-8339.

**Table 1. Employment and wage data from the Occupational Employment Statistics survey, by occupation, San Francisco-San Mateo-Redwood City Metropolitan Division, May 2011**

Occupation <sup>[1]</sup>	Employment		Mean Wages	
	Level <sup>[2]</sup>	Location quotient <sup>[3]</sup>	Hourly	Annual <sup>[4]</sup>
Business and financial operations occupations	81,290	1.8	\$43.99	\$91,490
Agents and business managers of artists, performers, and athletes	110	1.3	35.86	74,580
Buyers and purchasing agents, farm products	70	0.9	31.36	65,220
Wholesale and retail buyers, except farm products	960	1.2	30.17	62,750
Purchasing agents, except wholesale, retail, and farm products	1,770	0.9	36.50	75,930
Claims adjusters, examiners, and investigators	1,840	0.9	37.80	78,620
Compliance officers	2,700	1.7	40.41	84,060
Cost estimators	1,420	1.0	40.27	83,750
Human resources, training, and labor relations specialists, all other	4,450	1.4	37.45	77,900
Logisticians	980	1.2	38.48	80,040
Management analysts	8,440	2.1	54.72	113,820
Meeting, convention, and event planners	1,100	2.3	28.82	59,940
Compensation, benefits, and job analysis specialists	1,260	1.8	35.29	73,400
Training and development specialists	1,630	1.1	38.35	79,780
Market research analysts and marketing specialists	7,800	3.3	42.18	87,740
Business operations specialists, all other	14,600	2.0	40.51	84,260
Accountants and auditors	13,010	1.6	41.46	86,230
Appraisers and assessors of real estate	360	0.8	39.53	82,220
Budget analysts	970	2.3	40.57	84,380
Credit analysts	830	1.9	49.01	101,950
Financial analysts	5,120	3.0	54.32	113,000
Personal financial advisors	4,180	3.5	62.54	130,070
Insurance underwriters	910	1.3	40.73	84,710
Financial examiners	950	4.5	51.89	107,930
Credit counselors	400	1.8	20.40	42,430
Loan officers	1,420	0.7	46.08	95,840
Tax preparers	280	0.6	29.91	62,200
Financial specialists, all other	3,290	2.9	47.60	99,010

[1] For a complete listing of all detailed occupations in San Francisco-San Mateo-Redwood City, see [www.bls.gov/oes/current/oes\\_41884.htm](http://www.bls.gov/oes/current/oes_41884.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.