

WEST INFORMATION OFFICE
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Technical information: (415) 625-2286
Media contact: (415) 625-2270

• BLSInfoSF@bls.gov

• www.bls.gov/ro9

OCCUPATIONAL EMPLOYMENT AND WAGES IN RIVERSIDE-SAN BERNARDINO-ONTARIO, MAY 2011

Workers in the Riverside-San Bernardino-Ontario Metropolitan Statistical Area had an average (mean) hourly wage of \$21.10 in May 2011, about 3 percent below 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 9 of the 22 major occupational groups, including education, training, and library; healthcare practitioners and technical; and community and social service. Six groups had significantly lower wages than their respective national averages, including arts, design, entertainment, sports, and media; management; and sales and related.

When compared to the nationwide distribution, local employment was more highly concentrated in 7 of the 22 occupational groups, including transportation and material moving; education, training, and library; and food preparation and serving related. Conversely, nine groups had employment shares significantly below their national representation, including computer and mathematical, business and financial operations, and production. (See table A and box note at end of release.)

Table A. Occupational employment and wages by major occupational group, United States and the Riverside-San Bernardino-Ontario Metropolitan Statistical Area, and measures of statistical significance, May 2011

Major occupational group	Percent of total employment		Mean hourly wage		
	United States	Riverside	United States	Riverside	Percent difference ¹
Total, all occupations	100.0%	100.0%	\$21.74	\$21.10 *	-3
Management	4.8	4.3 *	51.64	49.25 *	-5
Business and financial operations	4.8	3.5 *	33.05	31.42 *	-5
Computer and mathematical	2.7	1.3 *	37.85	35.35	-7
Architecture and engineering	1.8	1.1 *	37.08	37.48	1
Life, physical, and social science	0.8	0.8	32.44	32.65	1
Community and social service	1.5	1.4	21.07	24.73 *	17
Legal	0.8	0.4 *	47.30	44.48	-6
Education, training, and library	6.6	7.9 *	24.46	29.02 *	19
Arts, design, entertainment, sports, and media	1.3	0.9 *	25.89	22.65 *	-13
Healthcare practitioners and technical	5.9	5.4 *	34.97	38.98 *	11
Healthcare support	3.1	2.9 *	13.16	13.76 *	5
Protective service	2.5	3.0 *	20.54	23.73 *	16
Food preparation and serving related	8.7	10.1 *	10.30	10.18	-1
Building and grounds cleaning and maintenance	3.3	3.5 *	12.29	12.71 *	3
Personal care and service	2.8	2.7	11.84	11.72	-1
Sales and related	10.6	10.8	18.04	16.05 *	-11
Office and administrative support	16.7	17.0	16.40	16.58 *	1
Farming, fishing, and forestry	0.3	0.6 *	11.68	10.21 *	-13
Construction and extraction	3.9	4.2 *	21.46	24.74 *	15
Installation, maintenance, and repair	3.9	3.7	20.86	22.11 *	6
Production	6.5	5.6 *	16.45	15.16 *	-8
Transportation and material moving	6.7	9.1 *	15.96	16.02	0

* 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.

¹ A positive percent difference measures how much the mean wage in Riverside is above the national mean wage, while a negative difference reflects a lower wage.

One occupational group—transportation and material moving—was chosen to illustrate the diversity of data available for any of the 22 major occupational categories. Riverside-San Bernardino-Ontario had 104,220 jobs in transportation and material moving, accounting for 9.1 percent of local area employment, significantly higher than the 6.7-percent share nationally. The average hourly wage for this occupational group locally was \$16.02, compared to the national wage of \$15.96.

With employment of 31,890, laborers and freight, stock, and material movers by hand was the largest occupation within the transportation and material moving group, followed by heavy and tractor-trailer truck drivers (21,000) and packers and packagers by hand (9,940). Among the higher paying jobs were air traffic controllers and transportation inspectors, with mean hourly wages of \$39.72 and \$30.03, respectively. At the lower end of the wage scale were cleaners of vehicles and equipment (\$10.07) and parking lot attendants (\$10.34). (Detailed occupational data for transportation and material moving are presented in table 1; for a complete listing of detailed occupations available go to www.bls.gov/oes/current/oes_40140.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 Riverside-San Bernardino-Ontario Metropolitan Statistical Area, above average concentrations of employment were found in some of the occupations within the transportation and material moving group. For instance, first-line supervisors of helpers, laborers, and material movers by hand were employed at 1.9 times the national rate in Riverside, and industrial truck and tractor operators, at 1.8 times the U.S. average. On the other hand, first-line supervisors of transportation and material-moving machine and vehicle operators had a location quotient of 1.1 in Riverside, 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 Riverside Metropolitan Statistical Area 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 Riverside-San Bernardino-Ontario Metropolitan Statistical Area included 6,038 establishments with a response rate of 76 percent. For more information about OES concepts and methodology, go to 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.

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 **Riverside-San Bernardino-Ontario, Calif. Metropolitan Statistical Area** includes Riverside and San Bernardino Counties.

Additional information

OES data are available on our regional web page at 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, Riverside-San Bernardino-Ontario Metropolitan Statistical Area, May 2011

Occupation ^[1]	Employment		Mean Wages	
	Level ^[2]	Location quotient ^[3]	Hourly	Annual ^[4]
Transportation and material moving occupations	104,220	1.4	\$16.02	\$33,320
Aircraft cargo handling supervisors	*[5]	*[5]	20.10	41,810
First-line supervisors of helpers, laborers, and material movers, hand	2,810	1.9	23.91	49,740
First-line supervisors of transportation and material-moving machine and vehicle operators	1,980	1.1	25.08	52,160
Airline pilots, copilots, and flight engineers	940	1.6	*[5]	104,100
Commercial pilots	80	0.3	*[5]	91,010
Air traffic controllers	90	0.4	39.72	82,610
Airfield operations specialists	40	0.7	28.22	58,690
Ambulance drivers and attendants, except emergency medical technicians	90	0.5	12.31	25,600
Bus drivers, transit and intercity	1,020	0.7	17.79	37,010
Bus drivers, school or special client	3,210	0.8	15.41	32,040
Driver/sales workers	1,870	0.5	14.59	30,350
Heavy and tractor-trailer truck drivers	21,000	1.6	20.95	43,570
Light truck or delivery services drivers	9,300	1.4	16.00	33,290
Taxi drivers and chauffeurs	710	0.5	11.96	24,880
Motor vehicle operators, all other	1,130	2.1	14.88	30,950
Parking lot attendants	500	0.4	10.34	21,500
Automotive and watercraft service attendants	1,340	1.5	10.67	22,200
Transportation inspectors	170	0.8	30.03	62,460
Transportation attendants, except flight attendants	300	1.2	10.49	21,830
Transportation workers, all other	360	1.3	14.24	29,630
Conveyor operators and tenders	240	0.7	15.81	32,880
Crane and tower operators	150	0.4	24.59	51,150
Excavating and loading machine and dragline operators	210	0.5	26.03	54,140
Industrial truck and tractor operators	7,950	1.8	15.88	33,030
Cleaners of vehicles and equipment	3,730	1.4	10.07	20,950
Laborers and freight, stock, and material movers, hand	31,890	1.7	12.85	26,730
Machine feeders and offbearers	1,390	1.4	15.77	32,810
Packers and packagers, hand	9,940	1.7	11.12	23,120
Pump operators, except wellhead pumpers	*[5]	*[5]	21.52	44,770
Refuse and recyclable material collectors	510	0.5	18.72	38,930
Tank car, truck, and ship loaders	*[5]	*[5]	22.51	46,820
Material moving workers, all other	460	1.8	20.29	42,190

[1] For a complete listing of all detailed occupations in Riverside-San Bernardino-Ontario, see www.bls.gov/oes/current/oes_40140.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.