



**For Release: Thursday, July 07, 2016**

**16-1361-SAN**

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## Occupational Employment and Wages in Bellingham — May 2015

Workers in the Bellingham Metropolitan Statistical Area had an average (mean) hourly wage of \$22.17 in May 2015, about 5 percent below the nationwide average of \$23.23, 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 lower than their respective national averages in 7 of the 22 major occupational groups, including legal; computer and mathematical; and management. Ten groups had significantly higher wages than their respective national averages, including protective service; construction and extraction; and healthcare practitioners and technical.

When compared to the nationwide distribution, local employment was more highly concentrated in 5 of the 22 occupational groups, including construction and extraction; food preparation and serving related; and production. Conversely, six groups had employment shares significantly below their national representation, including computer and mathematical; business and financial operations; and management. (See [table A](#) and [box note](#) at end of release.)

**Table A. Occupational employment and wages by major occupational group, United States and the Bellingham Metropolitan Statistical Area, and measures of statistical significance, May 2015**

Major occupational group	Percent of total employment		Mean hourly wage		
	United States	Bellingham	United States	Bellingham	Percent difference <sup>(1)</sup>
Total, all occupations .....	100.0%	100.0%	\$23.23	\$22.17*	-5
Management .....	5.0	4.1*	55.30	47.96*	-13
Business and Financial Operations .....	5.1	4.2*	35.48	31.16*	-12
Computer and Mathematical .....	2.9	1.5*	41.43	33.29*	-20
Architecture and Engineering .....	1.8	1.3*	39.89	38.50	-3
Life, Physical, and Social Science .....	0.8	0.8	34.24	31.41*	-8
Community and Social Services .....	1.4	1.6	22.19	21.63	-3
Legal .....	0.8	0.4*	49.74	38.31*	-23
Education, Training, and Library .....	6.2	6.9	25.48	24.79	-3
Arts, Design, Entertainment, Sports, and Media .....	1.3	1.6	27.39	21.96*	-20
Healthcare Practitioner and Technical .....	5.8	4.8	37.40	41.59*	11
Healthcare Support .....	2.9	2.5	14.19	17.13*	21
Protective Service .....	2.4	2.0*	21.45	29.22*	36
Food Preparation and Serving Related .....	9.1	10.6*	10.98	12.57*	14
Building and Grounds Cleaning and Maintenance .....	3.2	3.7*	13.02	14.06*	8
Personal Care and Service .....	3.1	2.8	12.33	13.58*	10
Sales and Related .....	10.5	11.2	18.90	16.78*	-11
Office and Administrative Support .....	15.8	15.0	17.47	17.55	0
Farming, Fishing, and Forestry .....	0.3	0.5*	12.67	18.13*	43
Construction and Extraction .....	4.0	6.0*	22.88	27.61*	21
Installation, Maintenance, and Repair .....	3.9	4.0	22.11	23.78*	8

Note: See footnotes at end of table.

**Table A. Occupational employment and wages by major occupational group, United States and the Bellingham Metropolitan Statistical Area, and measures of statistical significance, May 2015 - Continued**

Major occupational group	Percent of total employment		Mean hourly wage		
	United States	Bellingham	United States	Bellingham	Percent difference <sup>(1)</sup>
Production .....	6.6	7.8*	17.41	19.31*	11
Transportation and Material Moving .....	6.9	6.8	16.90	16.91	0

Footnotes:

(1) A positive percent difference measures how much the mean wage in Bellingham 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—construction and extraction—was chosen to illustrate the diversity of data available for any of the 22 major occupational categories. Bellingham had 4,860 jobs in construction and extraction, accounting for 6.0 percent of local area employment, significantly higher than the 4.0-percent share nationally. The average hourly wage for this occupational group locally was \$27.61, significantly above the national wage of \$22.88.

Some of the largest detailed occupations within the construction and extraction group included carpenters (1,120), construction laborers (860), and electricians (410). Among the higher paying jobs were plumbers, pipefitters, and steamfitters, and sheet metal workers, with mean hourly wages of \$48.95 and \$39.03, respectively. At the lower end of the wage scale were construction and maintenance painters (\$17.46) and roofers (\$19.64). (Detailed occupational data for construction and extraction are presented in [table 1](#); for a complete listing of detailed occupations available go to [www.bls.gov/oes/2015/may/oes\\_13380.htm](http://www.bls.gov/oes/2015/may/oes_13380.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 Bellingham Metropolitan Statistical Area, above-average concentrations of employment were found in many of the occupations within the construction and extraction group. For instance, carpenters were employed at 3.0 times the national rate in Bellingham, and construction and maintenance painters, at 1.9 times the U.S. average. On the other hand, sheet metal workers had a location quotient of 1.1 in Bellingham, 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 Washington Employment Security Department.

## Notes on Occupational Employment Statistics Data

With the issuance of data for May 2015, the OES program has incorporated redefined metropolitan area definitions as designated by the Office of Management and Budget. OES data are available for 394 metropolitan areas, 38 metropolitan divisions, and 167 OES-defined nonmetropolitan areas. A listing of the areas and their definitions can be found at [www.bls.gov/oes/current/msa\\_def.htm](http://www.bls.gov/oes/current/msa_def.htm).

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 program produces employment and wage estimates for over 800 occupations for all industries combined in the nation; the 50 states and the District of Columbia; 432 metropolitan areas and divisions; 167 nonmetropolitan areas; and Guam, Puerto Rico, and the U.S. Virgin Islands. National estimates are also available by industry for NAICS sectors, 3-, 4-, and selected 5- and 6-digit industries, and by ownership across all industries and for schools and hospitals. OES data are available at [www.bls.gov/oes/tables.htm](http://www.bls.gov/oes/tables.htm).

OES estimates are constructed from a sample of about 1.2 million establishments. Forms are mailed to approximately 200,000 sampled establishments in May and November each year. May 2015 estimates are based on responses from six semiannual panels collected over a 3-year period: May 2015, November 2014, May 2014, November 2013, May 2013, and November 2012. The overall national response rate for the six panels is 73.5 percent based on establishments and 69.6 percent based on weighted sampled employment. The unweighted employment of sampled establishments across all six semiannual panels represents approximately 57.9 percent of total national employment. (Response rates are slightly lower for these estimates due to the federal shutdown in October 2013.) The sample in the Bellingham Metropolitan Statistical Area included 1,413 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](http://www.bls.gov/news.release/ocwage.tn.htm).

The May 2015 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](http://www.bls.gov/soc) and information about the 2012 NAICS is available at [www.bls.gov/bls/naics.htm](http://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 **Bellingham, Wash. Metropolitan Statistical Area** includes Whatcom County.

## **Additional information**

OES data are available on our regional web page at [www.bls.gov/regions/west](http://www.bls.gov/regions/west). Answers to frequently asked questions about the OES data are available at [www.bls.gov/oes/oes\\_ques.htm](http://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/2015/may/methods\\_statement.pdf](http://www.bls.gov/oes/2015/may/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, Bellingham Metropolitan Statistical Area, May 2015**

Occupation <sup>(1)</sup>	Employment		Mean wages	
	Level <sup>(2)</sup>	Location quotient <sup>(3)</sup>	Hourly	Annual <sup>(4)</sup>
Construction and Extraction Occupations .....	4,860	1.5	\$27.61	\$57,430
First-Line Supervisors of Construction Trades and Extraction Workers .....	350	1.2	32.61	67,840
Carpenters.....	1,120	3.0	26.77	55,680
Cement Masons and Concrete Finishers .....	180	1.9	29.32	60,980
Construction Laborers .....	860	1.7	21.66	45,050
Operating Engineers and Other Construction Equipment Operators .....	250	1.2	31.06	64,610
Drywall and Ceiling Tile Installers.....	110	2.2	27.85	57,920
Tapers.....	50	4.9	28.35	58,970
Electricians .....	410	1.2	29.16	60,660
Glaziers .....	(5)	(5)	21.33	44,370
Painters, Construction and Maintenance .....	230	1.9	17.46	36,310
Plumbers, Pipefitters, and Steamfitters .....	410	1.8	48.95	101,810
Roofers.....	150	2.3	19.64	40,860
Sheet Metal Workers.....	90	1.1	39.03	81,170
Construction and Building Inspectors.....	110	2.0	27.52	57,250
Highway Maintenance Workers.....	100	1.2	23.99	49,900
Construction and Related Workers, All Other.....	(5)	(5)	13.57	28,220

**Footnotes:**

(1) For a complete listing of all detailed occupations in Bellingham, WA, see [www.bls.gov/oes/current/oes\\_13380.htm](http://www.bls.gov/oes/current/oes_13380.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.