



**For Release: Thursday, May 24, 2018**

**18-902-PHI**

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## Occupational Employment and Wages in Reading – May 2017

Workers in the Reading Metropolitan Statistical Area had an average (mean) hourly wage of \$22.16 in May 2017, 9 percent below the nationwide average of \$24.34, according to the U.S. Bureau of Labor Statistics. Sheila Watkins, the Bureau’s regional commissioner, noted that after testing for statistical significance, 13 of the 22 major occupational groups had average wages in the local area that were significantly lower than their respective national averages, including arts, design, entertainment, sports, and media; life, physical, and social science; and legal.

When compared to the nationwide distribution, local employment shares were significantly higher in 4 of the 22 occupational groups, including production and transportation and material moving. Conversely, 11 groups had employment shares significantly below their national representation; these groups included business and financial operations, management, and computer and mathematical. (See [table A](#) and box note at end of release.)

**Table A. Occupational employment and wages by major occupational group, United States and the Reading Metropolitan Statistical Area, and measures of statistical significance, May 2017**

Major occupational group	Percent of total employment			Mean hourly wage		
	United States	Reading		United States	Reading	Percent difference <sup>(1)</sup>
Total, all occupations .....	100	100		\$24.34	\$22.16	* -9
Management .....	5.1	3.8	*	57.65	57.58	0
Business and financial operations.....	5.2	3.7	*	36.70	32.19	* -12
Computer and mathematical .....	3.0	1.7	*	43.18	37.41	* -13
Architecture and engineering .....	1.8	2.0	*	41.44	38.07	* -8
Life, physical, and social science .....	0.8	0.4	*	35.76	29.57	* -17
Community and social service.....	1.5	1.6		23.10	21.99	* -5
Legal.....	0.8	0.4	*	51.62	43.76	* -15
Education, training, and library.....	6.1	5.9		26.67	24.53	* -8
Arts, design, entertainment, sports, and media.....	1.4	0.7	*	28.34	21.42	* -24
Healthcare practitioners and technical .....	6.0	6.3		38.83	37.78	-3
Healthcare support .....	2.9	2.9		15.05	15.49	3
Protective service .....	2.4	1.6	*	22.69	20.19	* -11
Food preparation and serving related .....	9.3	8.1	*	11.88	10.84	* -9
Building and grounds cleaning and maintenance.....	3.1	3.0		13.91	13.45	-3
Personal care and service.....	3.6	3.7		13.11	12.47	* -5
Sales and related .....	10.2	9.6	*	19.56	18.07	* -8
Office and administrative support.....	15.4	14.7		18.24	17.47	* -4
Farming, fishing, and forestry.....	0.3	0.1	*	13.87	17.59	* 27
Construction and extraction.....	4.0	3.3	*	24.01	23.22	* -3

Note: See footnotes at end of table.

**Table A. Occupational employment and wages by major occupational group, United States and the Reading Metropolitan Statistical Area, and measures of statistical significance, May 2017 - Continued**

Major occupational group	Percent of total employment			Mean hourly wage			
	United States	Reading		United States	Reading		Percent difference <sup>(1)</sup>
Installation, maintenance, and repair .....	3.9	4.5	*	23.02	23.33		1
Production .....	6.3	11.9	*	18.30	19.57	*	7
Transportation and material moving.....	7.0	10.0	*	17.82	18.06		1

Footnotes:

(1) A positive percent difference measures how much the mean wage in the Reading Metropolitan Statistical Area 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—production—was chosen to illustrate the diversity of data available for any of the 22 major occupational categories. Reading had 20,600 jobs in production occupations, accounting for 11.9 percent of local area employment, nearly twice the 6.3-percent share nationally. The average hourly wage for this occupational group locally was \$19.57, measurably higher than the national wage of \$18.30.

With employment of 1,750, production worker helpers was the largest occupation within the production group, followed by first-line supervisors of production and operating workers (1,680). Among the higher-paying jobs in this group were first-line supervisors of production and operating workers and metal-refining furnace operators and tenders, with mean hourly wages of \$27.62 and \$22.14, respectively. At the lower end of the wage scale were bakers (\$12.68) and sewing machine operators (\$11.57). (Detailed occupational data for production are presented in [table 1](#); for a complete listing of detailed occupations available go to [www.bls.gov/oes/current/oes\\_39740.htm](http://www.bls.gov/oes/current/oes_39740.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 as it does nationally. In the Reading area, above-average concentrations of employment were found in many of the occupations within the production group. For instance, welders, cutters, solderers, and brazers were employed at 2.4 times the national rate in Reading, and metal-refining furnace operators and tenders at 14.1 times the U.S. average. On the other hand, inspectors, testers, sorters, samplers, and weighers had a location quotient of 1.2 in Reading, 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 Pennsylvania Department of Labor and Industry.

## **Note on Occupational Employment Statistics Data**

With the release of the May 2017 estimates, the OES program has replaced 21 detailed occupations found in the 2010 Standard Occupational Classification (SOC) with 10 new aggregations of those occupations. In addition, selected 4- and 5-digit North American Industry Classification System (NAICS) industries previously published by OES will no longer be published separately. Some of the 4-digit NAICS industries that are no longer being published separately will instead be published as OES-specific industry aggregations. More information about the new occupational and industry aggregations is available at [www.bls.gov/oes/changes\\_2017.htm](http://www.bls.gov/oes/changes_2017.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 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](http://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 2017 estimates are based on responses from six semiannual panels collected over a 3-year period: May 2017, November 2016, May 2016, November 2015, May 2015, and November 2014. The overall national response rate for the six panels, based on the 50 states and the District of Columbia, is 72 percent based on establishments and 68 percent based on weighted sampled employment. The unweighted sample employment of 82 million across all six semiannual panels represents approximately 58 percent of total national employment. The sample in the Reading Metropolitan Statistical Area included 1,941 establishments with a response rate of 74 percent. For more information about OES concepts and methodology, go to [www.bls.gov/oes/current/oes\\_tec.htm](http://www.bls.gov/oes/current/oes_tec.htm).

The May 2017 OES estimates are based on the 2010 Standard Occupational Classification (SOC) system and the 2017 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 2017 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 **Reading, PA Metropolitan Statistical Area** includes Berks County in Pennsylvania.

### **Additional information**

OES data are available on our regional web page at [www.bls.gov/regions/mid-atlantic](http://www.bls.gov/regions/mid-atlantic). 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/current/methods\\_statement.pdf](http://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, Reading Metropolitan Statistical Area, May 2017**

Occupation (1)	Employment (2)		Mean wage	
	Level	Location quotient (3)	Hourly	Annual (4)
Production occupations .....	20,600	1.9	\$19.57	\$40,700
First-line supervisors of production and operating workers .....	1,680	2.3	27.62	57,460
Structural metal fabricators and fitters .....	100	1.1	19.67	40,920
Assemblers and fabricators, all other .....	1,610	1.0	15.77	32,790
Bakers .....	370	1.7	12.68	26,380
Butchers and meat cutters .....	50	0.3	13.51	28,100
Meat, poultry, and fish cutters and trimmers .....	(5)	(5)	12.67	26,360
Slaughterers and meat packers .....	80	0.8	17.34	36,080
Food batchmakers .....	300	1.6	16.73	34,790
Computer-controlled machine tool operators, metal and plastic .....	400	2.3	20.15	41,920
Extruding and drawing machine setters, operators, and tenders, metal and plastic .....	220	2.5	20.79	43,240
Cutting, punching, and press machine setters, operators, and tenders, metal and plastic .....	260	1.1	21.17	44,040
Lathe and turning machine tool setters, operators, and tenders, metal and plastic .....	40	1.2	(5)	(5)
Milling and planing machine setters, operators, and tenders, metal and plastic .....	(5)	(5)	18.30	38,070
Machinists .....	850	1.9	19.10	39,730
Metal-refining furnace operators and tenders .....	300	14.1	22.14	46,050
Foundry mold and coremakers .....	60	3.3	16.34	33,980
Molding, coremaking, and casting machine setters, operators, and tenders, metal and plastic .....	330	1.7	14.98	31,160
Multiple machine tool setters, operators, and tenders, metal and plastic .....	300	2.0	20.72	43,100
Tool and die makers .....	70	0.8	24.99	51,980
Welders, cutters, solderers, and brazers .....	1,110	2.4	19.02	39,570
Plating and coating machine setters, operators, and tenders, metal and plastic .....	60	1.4	23.61	49,110
Metal workers and plastic workers, all other .....	60	2.3	(5)	(5)
Prepress technicians and workers .....	30	0.9	21.83	45,400
Printing press operators .....	(5)	(5)	26.28	54,670
Print binding and finishing workers .....	60	1.0	16.80	34,940
Laundry and dry-cleaning workers .....	190	0.7	13.00	27,030
Pressers, textile, garment, and related materials .....	40	0.8	11.63	24,180
Sewing machine operators .....	380	2.3	11.57	24,070
Textile cutting machine setters, operators, and tenders .....	(5)	(5)	13.88	28,870
Textile knitting and weaving machine setters, operators, and tenders .....	130	5.2	16.42	34,150
Cabinetmakers and bench carpenters .....	310	2.6	19.12	39,770
Woodworking machine setters, operators, and tenders, except sawing .....	110	1.1	16.72	34,770
Stationary engineers and boiler operators .....	50	1.2	22.34	46,470
Water and wastewater treatment plant and system operators .....	190	1.4	21.86	45,470
Chemical equipment operators and tenders .....	370	3.9	16.37	34,040
Separating, filtering, clarifying, precipitating, and still machine setters, operators, and tenders .....	50	0.8	18.96	39,440
Grinding and polishing workers, hand .....	80	2.2	15.07	31,340
Mixing and blending machine setters, operators, and tenders .....	120	0.8	17.97	37,380
Cutting and slicing machine setters, operators, and tenders .....	270	3.7	13.64	28,370
Inspectors, testers, sorters, samplers, and weighers .....	770	1.2	20.83	43,320
Dental laboratory technicians .....	(5)	(5)	19.32	40,180
Packaging and filling machine operators and tenders .....	1,070	2.2	14.75	30,680

Note: See footnotes at end of table.

**Table 1. Employment and wage data from the Occupational Employment Statistics survey, by occupation, Reading Metropolitan Statistical Area, May 2017 - Continued**

Occupation <sup>(1)</sup>	Employment <sup>(2)</sup>		Mean wage	
	Level	Location quotient <sup>(3)</sup>	Hourly	Annual <sup>(4)</sup>
Coating, painting, and spraying machine setters, operators, and tenders .....	300	2.8	16.70	34,740
Painters, transportation equipment .....	(5)	(5)	23.99	49,910
Photographic process workers and processing machine operators .....	40	1.5	13.73	28,550
Cooling and freezing equipment operators and tenders .	30	3.0	13.45	27,980
Molders, shapers, and casters, expect metal and plastic .....	(5)	(5)	16.92	35,200
Paper goods machine setters, operators, and tenders ...	250	2.2	19.47	40,490
Helpers--production workers .....	1,750	3.6	17.46	36,310
Production workers, all other.....	100	0.3	14.01	29,140

Footnotes:

(1) For a complete listing of all detailed occupations in the Reading Metropolitan Statistical Area, see [www.bls.gov/oes/current/oes\\_39740.htm](http://www.bls.gov/oes/current/oes_39740.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.