



For Release: Monday, June 19, 2017

17-493-CHI

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Occupational Employment and Wages in Cleveland-Elyria — May 2016

Workers in the Cleveland-Elyria Metropolitan Statistical Area had an average (mean) hourly wage of \$23.20 in May 2016, about 3 percent below the nationwide average of \$23.86, according to the U.S. Bureau of Labor Statistics. Assistant Commissioner for Regional Operations Charlene Peiffer noted that, after testing for statistical significance, wages in the local area were lower than their respective national average in 11 of the 22 major groups, including legal; computer and mathematical; and arts, design, entertainment, sports, and media. Nine occupational groups had wages that were not significantly different from their respective national averages, including production; life, physical and social science; and community and social service. Two occupational groups, construction and extraction and sales and related, had wages significantly higher than their respective national averages.

When compared to the nationwide distribution, local employment was more highly concentrated in 4 of the 22 occupational groups, including production, healthcare practitioners and technical, and healthcare support. Conversely, 10 groups had employment shares significantly below their national representation, including construction and extraction, sales and related, and personal care and service. (See [table A](#) and [box note](#) at end of release.)

Table A. Occupational employment and wages by major occupational group, United States and the Cleveland-Elyria Metropolitan Statistical Area, and measures of statistical significance, May 2016

| Major occupational group | Percent of total employment | | Mean hourly wage | | |
|--|-----------------------------|-----------|------------------|-----------|-----------------------------------|
| | United States | Cleveland | United States | Cleveland | Percent difference ⁽¹⁾ |
| Total, all occupations | 100.0 | 100.0 | \$23.86 | \$23.20* | -3 |
| Management | 5.1 | 4.8* | 56.74 | 53.25* | -6 |
| Business and financial operations | 5.2 | 5.4 | 36.09 | 33.36* | -8 |
| Computer and mathematical | 3.0 | 2.8 | 42.25 | 35.46* | -16 |
| Architecture and engineering | 1.8 | 1.8 | 40.53 | 37.49* | -8 |
| Life, physical, and social science | 0.8 | 0.8 | 35.06 | 39.44 | 12 |
| Community and social service | 1.4 | 1.7 | 22.69 | 23.39 | 3 |
| Legal | 0.8 | 0.8 | 50.95 | 41.48* | -19 |
| Education, training, and library | 6.2 | 5.6 | 26.21 | 26.47 | 1 |
| Arts, design, entertainment, sports, and media | 1.4 | 1.2* | 28.07 | 21.96* | -22 |
| Healthcare practitioners and technical | 5.9 | 7.4* | 38.06 | 36.36 | -4 |
| Healthcare support | 2.9 | 3.7* | 14.65 | 13.42* | -8 |
| Protective service | 2.4 | 2.7* | 22.03 | 19.98* | -9 |
| Food preparation and serving related | 9.2 | 9.0* | 11.47 | 10.94* | -5 |
| Building and grounds cleaning and maintenance | 3.2 | 3.0* | 13.47 | 13.00* | -3 |
| Personal care and service | 3.2 | 2.4* | 12.74 | 12.66 | -1 |
| Sales and related | 10.4 | 9.5* | 19.50 | 21.17* | 9 |
| Office and administrative support | 15.7 | 15.8 | 17.91 | 17.63* | -2 |

Note: See footnotes at end of table.

Table A. Occupational employment and wages by major occupational group, United States and the Cleveland-Elyria Metropolitan Statistical Area, and measures of statistical significance, May 2016 - Continued

| Major occupational group | Percent of total employment | | Mean hourly wage | | |
|---|-----------------------------|-----------|------------------|-----------|-----------------------------------|
| | United States | Cleveland | United States | Cleveland | Percent difference ⁽¹⁾ |
| Farming, fishing, and forestry | 0.3 | (2)* | 13.37 | 13.47 | 1 |
| Construction and extraction..... | 4.0 | 3.0* | 23.51 | 24.91* | 6 |
| Installation, maintenance, and repair | 3.9 | 3.6* | 22.45 | 22.25 | -1 |
| Production | 6.5 | 8.7* | 17.88 | 18.19 | 2 |
| Transportation and material moving | 6.9 | 6.4* | 17.34 | 16.92 | -2 |

Footnotes:

(1) A positive percent difference measures how much the mean wage in the Cleveland-Elyria Metropolitan Statistical Area is above the national mean wage, while a negative difference reflects a lower wage.

(2) Indicates a value of less than 0.05 percent

* 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. Cleveland-Elyria had 89,180 jobs in production, accounting for 8.7 percent of local area employment, significantly higher than the 6.5-percent share nationally. The average hourly wage for this occupational group locally was \$18.19, compared to the national wage of \$17.88.

Some of the largest detailed occupations within the production group included team assemblers (6,710); inspectors, testers, sorters, samplers, and weighers (6,580); and machinists (5,890). Among the higher paying jobs were power distributors and dispatchers with mean hourly wages of \$36.02 and model makers, metal and plastic, \$32.54. At the lower end of the wage scale were pressers, textile, garment, and related materials (\$10.83) and laundry and dry-cleaning workers (\$10.96). (Detailed occupational data for production are presented in [table 1](#); for a complete listing of detailed occupations available go to www.bls.gov/oes/2016/may/oes_17460.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 Cleveland-Elyria Metropolitan Statistical Area, above-average concentrations of employment were found in many of the occupations within the production group. For instance, foundry mold and coremakers in Cleveland were employed at 5.2 times the national rate, and engine and other machine assemblers, at 4.4 times the U.S. average. On the other hand, butchers and meat cutters in Cleveland had a location quotient of 1.0, 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 Ohio Department of Job & Family Services.

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. 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 Cleveland-Elyria Metropolitan Statistical Area included 5,564 establishments with a response rate of 75 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 **Cleveland-Elyria, Ohio Metropolitan Statistical Area** includes Cuyahoga, Geauga, Lake, Lorain, and Medina Counties of Ohio.

Additional information

OES data are available on our regional web page at www.bls.gov/regions/midwest. 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, Cleveland-Elyria Metropolitan Statistical Area, May 2016

| Occupation ⁽¹⁾ | Employment | | Mean wages | |
|---|----------------------|----------------------------------|------------|-----------------------|
| | Level ⁽²⁾ | Location quotient ⁽³⁾ | Hourly | Annual ⁽⁴⁾ |
| Production occupations | 89,180 | 1.3 | \$18.19 | \$37,830 |
| First-line supervisors of production and operating workers | 5,780 | 1.3 | 30.02 | 62,440 |
| Aircraft structure, surfaces, rigging, and systems assemblers | 150 | 0.5 | 23.76 | 49,410 |
| Coil winders, tapers, and finishers | 90 | 0.9 | 16.93 | 35,220 |
| Electrical and electronic equipment assemblers | 1,950 | 1.2 | 15.20 | 31,610 |
| Electromechanical equipment assemblers | 470 | 1.4 | 16.18 | 33,650 |
| Engine and other machine assemblers | 1,230 | 4.4 | 24.48 | 50,930 |
| Structural metal fabricators and fitters | 310 | 0.6 | 18.48 | 38,430 |
| Fiberglass laminators and fabricators | (5) | (5) | 13.00 | 27,030 |
| Team assemblers | 6,710 | 0.8 | 15.98 | 33,230 |
| Assemblers and fabricators, all other | 4,160 | 2.5 | 13.90 | 28,910 |
| Bakers | 1,410 | 1.1 | 12.23 | 25,450 |
| Butchers and meat cutters | 970 | 1.0 | 17.91 | 37,250 |
| Meat, poultry, and fish cutters and trimmers | 140 | 0.1 | 15.34 | 31,900 |
| Slaughterers and meat packers | 140 | 0.2 | 11.78 | 24,490 |
| Food and tobacco roasting, baking, and drying machine operators and tenders | 70 | 0.5 | 14.46 | 30,080 |
| Food batchmakers | 490 | 0.5 | 13.72 | 28,540 |
| Food cooking machine operators and tenders | 180 | 0.7 | 13.12 | 27,280 |
| Food processing workers, all other | 420 | 1.3 | 11.42 | 23,760 |
| Computer-controlled machine tool operators, metal and plastic | 4,120 | 3.9 | 19.25 | 40,040 |
| Computer numerically controlled machine tool programmers, metal and plastic | 740 | 4.0 | 22.71 | 47,240 |
| Extruding and drawing machine setters, operators, and tenders, metal and plastic | 1,420 | 2.7 | 15.91 | 33,090 |
| Forging machine setters, operators, and tenders, metal and plastic | 380 | 2.7 | 21.54 | 44,800 |
| Rolling machine setters, operators, and tenders, metal and plastic | 550 | 2.6 | 19.34 | 40,220 |
| Cutting, punching, and press machine setters, operators, and tenders, metal and plastic | 3,330 | 2.4 | 15.58 | 32,410 |
| Drilling and boring machine tool setters, operators, and tenders, metal and plastic | 290 | 3.2 | 20.44 | 42,510 |
| Grinding, lapping, polishing, and buffing machine tool setters, operators, and tenders, metal and plastic | 1,640 | 3.0 | 17.02 | 35,400 |
| Lathe and turning machine tool setters, operators, and tenders, metal and plastic | 540 | 2.2 | 19.09 | 39,710 |
| Machinists | 5,890 | 2.1 | 19.41 | 40,370 |
| Metal-refining furnace operators and tenders | 280 | 2.1 | 18.33 | 38,120 |
| Pourers and casters, metal | (5) | (5) | 20.11 | 41,830 |
| Model makers, metal and plastic | (5) | (5) | 32.54 | 67,690 |
| Foundry mold and coremakers | 480 | 5.2 | 15.43 | 32,100 |
| Molding, coremaking, and casting machine setters, operators, and tenders, metal and plastic | 1,950 | 1.8 | 15.24 | 31,700 |
| Multiple machine tool setters, operators, and tenders, metal and plastic | 1,820 | 2.1 | 16.28 | 33,860 |
| Tool and die makers | 2,260 | 4.3 | 25.70 | 53,460 |
| Welders, cutters, solderers, and brazers | 2,520 | 0.9 | 19.08 | 39,680 |
| Welding, soldering, and brazing machine setters, operators, and tenders | 430 | 1.3 | 16.30 | 33,910 |
| Heat treating equipment setters, operators, and tenders, metal and plastic | 380 | 2.6 | 18.82 | 39,150 |
| Plating and coating machine setters, operators, and tenders, metal and plastic | 350 | 1.4 | 15.26 | 31,750 |
| Tool grinders, filers, and sharpeners | 210 | 3.1 | 17.25 | 35,880 |
| Metal workers and plastic workers, all other | 320 | 1.9 | 14.60 | 30,380 |

Note: See footnotes at end of table.

Table 1. Employment and wage data from the Occupational Employment Statistics survey, by occupation, Cleveland-Elyria Metropolitan Statistical Area, May 2016 - Continued

| Occupation ⁽¹⁾ | Employment | | Mean wages | |
|--|----------------------|----------------------------------|------------|-----------------------|
| | Level ⁽²⁾ | Location quotient ⁽³⁾ | Hourly | Annual ⁽⁴⁾ |
| Prepress technicians and workers | 510 | 2.1 | 18.73 | 38,950 |
| Printing press operators | 1,660 | 1.3 | 17.55 | 36,500 |
| Print binding and finishing workers..... | 510 | 1.3 | 14.47 | 30,090 |
| Laundry and dry-cleaning workers | 1,100 | 0.7 | 10.96 | 22,800 |
| Pressers, textile, garment, and related materials | 370 | 1.1 | 10.83 | 22,530 |
| Sewing machine operators..... | 710 | 0.7 | 11.88 | 24,720 |
| Tailors, dressmakers, and custom sewers | 100 | 0.6 | 15.46 | 32,150 |
| Cabinetmakers and bench carpenters | 650 | 0.9 | 17.40 | 36,190 |
| Furniture finishers..... | (5) | (5) | 15.60 | 32,450 |
| Sawing machine setters, operators, and tenders, wood | 30 | 0.1 | 17.97 | 37,370 |
| Woodworking machine setters, operators, and tenders, except sawing..... | 460 | 0.8 | 16.39 | 34,100 |
| Woodworkers, all other..... | (5) | (5) | 17.44 | 36,270 |
| Power distributors and dispatchers | 200 | 2.4 | 36.02 | 74,920 |
| Stationary engineers and boiler operators | 250 | 1.0 | 28.11 | 58,460 |
| Water and wastewater treatment plant and system operators | 690 | 0.8 | 25.13 | 52,270 |
| Chemical plant and system operators | 150 | 0.6 | 21.47 | 44,660 |
| Plant and system operators, all other..... | 80 | 1.0 | 27.19 | 56,550 |
| Chemical equipment operators and tenders | 1,710 | 3.2 | 21.21 | 44,110 |
| Separating, filtering, clarifying, precipitating, and still machine setters, operators, and tenders..... | 220 | 0.7 | 19.88 | 41,340 |
| Crushing, grinding, and polishing machine setters, operators, and tenders | 210 | 1.0 | 17.25 | 35,870 |
| Grinding and polishing workers, hand | (5) | (5) | 15.34 | 31,900 |
| Mixing and blending machine setters, operators, and tenders | 1,530 | 1.6 | 17.85 | 37,130 |
| Cutters and trimmers, hand | 80 | 0.7 | 13.87 | 28,850 |
| Cutting and slicing machine setters, operators, and tenders | 640 | 1.4 | 15.69 | 32,630 |
| Extruding, forming, pressing, and compacting machine setters, operators, and tenders | 910 | 1.8 | 14.23 | 29,600 |
| Furnace, kiln, oven, drier, and kettle operators and tenders | (5) | (5) | 15.33 | 31,890 |
| Inspectors, testers, sorters, samplers, and weighers..... | 6,580 | 1.7 | 19.98 | 41,550 |
| Jewelers and precious stone and metal workers | 90 | 0.5 | (5) | (5) |
| Dental laboratory technicians | 370 | 1.4 | 19.60 | 40,760 |
| Medical appliance technicians..... | 220 | 2.0 | 15.33 | 31,880 |
| Ophthalmic laboratory technicians | 220 | 1.0 | 14.27 | 29,690 |
| Packaging and filling machine operators and tenders | 1,730 | 0.6 | 14.29 | 29,720 |
| Coating, painting, and spraying machine setters, operators, and tenders | 1,300 | 2.1 | 17.64 | 36,690 |
| Painters, transportation equipment | 220 | 0.6 | 22.00 | 45,760 |
| Semiconductor processors..... | 70 | 0.4 | 17.65 | 36,710 |
| Photographic process workers and processing machine operators | 130 | 0.7 | (5) | (5) |
| Adhesive bonding machine operators and tenders..... | 160 | 1.3 | 14.66 | 30,490 |
| Cleaning, washing, and metal pickling equipment operators and tenders | 230 | 1.8 | 12.87 | 26,780 |
| Etchers and engravers | (5) | (5) | 20.65 | 42,950 |
| Molders, shapers, and casters, except metal and plastic | 280 | 1.0 | 17.93 | 37,290 |
| Paper goods machine setters, operators, and tenders ... | 770 | 1.1 | 19.03 | 39,590 |
| Helpers--production workers | 2,660 | 0.8 | 13.71 | 28,520 |
| Production workers, all other..... | 4,340 | 2.4 | 13.59 | 28,260 |

Footnotes:

(1) For a complete listing of all detailed occupations in the Cleveland-Elyria, OH, see www.bls.gov/oes/current/oes_17460.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.