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## Occupational Employment and Wages in Elgin — May 2017

Workers in the Elgin Metropolitan Division had an average (mean) hourly wage of \$23.51 in May 2017, about 3 percent below the nationwide average of \$24.34, 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 averages in 8 of the 22 major occupational groups, including management; legal; and arts, design, entertainment, sports, and media. Seven groups had significantly higher wages than their respective national averages, including construction and extraction; education, training, and library; and protective service.

When compared to the nationwide distribution, local employment was more highly concentrated in 4 of the 22 occupational groups, including production; transportation and material moving; and education, training, and library. Conversely, 14 groups had employment shares significantly below their national representation, including business and financial operations; computer and mathematical; 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 Elgin Metropolitan Division, and measures of statistical significance, May 2017**

Major occupational group	Percent of total employment		Mean hourly wage		
	United States	Elgin	United States	Elgin	Percent difference <sup>(1)</sup>
Total, all occupations .....	100.0	100.0	\$24.34	\$23.51*	-3
Management .....	5.1	6.8*	57.65	49.04*	-15
Business and financial operations.....	5.2	3.4*	36.70	30.76*	-16
Computer and mathematical .....	3.0	1.5*	43.18	37.62*	-13
Architecture and engineering .....	1.8	1.4*	41.44	36.25*	-13
Life, physical, and social science .....	0.8	0.4*	35.76	31.47*	-12
Community and social service.....	1.5	1.5	23.10	24.01	4
Legal.....	0.8	0.4*	51.62	43.67*	-15
Education, training, and library.....	6.1	7.9*	26.67	31.40*	18
Arts, design, entertainment, sports, and media.	1.4	1.1*	28.34	22.33*	-21
Healthcare practitioners and technical .....	6.0	5.2*	38.83	38.05	-2
Healthcare support .....	2.9	2.5*	15.05	16.11*	7
Protective service .....	2.4	1.9*	22.69	26.92*	19
Food preparation and serving related .....	9.3	8.4*	11.88	11.00*	-7
Building and grounds cleaning and maintenance.....	3.1	3.0	13.91	14.94*	7
Personal care and service.....	3.6	2.5*	13.11	13.51	3
Sales and related .....	10.2	9.2*	19.56	18.96	-3
Office and administrative support.....	15.4	14.5*	18.24	18.05	-1
Farming, fishing, and forestry.....	0.3	0.1*	13.87	15.40*	11

Note: See footnotes at end of table.

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

Major occupational group	Percent of total employment		Mean hourly wage		
	United States	Elgin	United States	Elgin	Percent difference (1)
Construction and extraction.....	4.0	3.9	24.01	31.33*	30
Installation, maintenance, and repair .....	3.9	4.0	23.02	25.11*	9
Production .....	6.3	10.6*	18.30	17.99	-2
Transportation and material moving.....	7.0	9.7*	17.82	16.17	-9

Footnotes:

(1) A positive percent difference measures how much the mean wage in the Elgin Metropolitan Division 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. Elgin had 26,820 jobs in production, accounting for 10.6 percent of local area employment, significantly higher than the 6.3-percent share nationally. The average hourly wage for this occupational group locally was \$17.99, compared to the national wage of \$18.30.

Some of the larger detailed occupations within the production group included machinists (3,110); assemblers and fabricators, all other, including team assemblers (2,310); and packaging and filling machine operators and tenders (1,830). Among the higher paying jobs in this group were water and wastewater treatment plant and system operators with mean hourly wages of \$28.81 and first-line supervisors of production and operating workers, \$27.97. At the lower end of the wage scale were meat, poultry, and fish cutters and trimmers (\$10.42) and pressers, textile, garment, and related materials (\$10.49). (Detailed data for production occupations are presented in [table 1](#); for a complete listing of detailed occupations available go to [www.bls.gov/oes/current/oes\\_20994.htm](http://www.bls.gov/oes/current/oes_20994.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 Elgin Metropolitan Division, above-average concentrations of employment were found in many of the occupations within the production group. For instance, multiple machine tool setters, operators, and tenders, metal and plastic were employed at 4.8 times the national rate in Elgin, and machinists, at 4.7 times the U.S. average. On the other hand, assemblers and fabricators, all other, including team assemblers had a location quotient of 1.0 in Elgin, 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 Illinois Department of Employment Security.

## Notes 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 Elgin Metropolitan Division included 2,433 establishments with a response rate of 66 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 **Elgin, Ill. Metropolitan Division** includes DeKalb and Kane Counties.

### **Additional information**

OES data are available on our regional web page at [www.bls.gov/regions/midwest](http://www.bls.gov/regions/midwest). 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, Elgin Metropolitan Division, May 2017**

Occupation (1)	Employment		Mean wages	
	Level (2)	Location quotient (3)	Hourly	Annual (4)
Production occupations .....	26,820	1.7	\$17.99	\$37,420
First-line supervisors of production and operating workers .....	1,500	1.4	27.97	58,180
Coil winders, tapers, and finishers .....	(5)	(5)	18.72	38,930
Electrical, electronic, and electromechanical assemblers, except coil winders, tapers, and finishers .....	430	0.9	17.34	36,070
Engine and other machine assemblers .....	(5)	(5)	20.98	43,650
Structural metal fabricators and fitters .....	60	0.4	18.04	37,530
Assemblers and fabricators, all other, including team assemblers .....	2,310	1.0	15.84	32,940
Bakers .....	180	0.6	11.57	24,060
Butchers and meat cutters .....	400	1.7	14.06	29,250
Meat, poultry, and fish cutters and trimmers .....	70	0.3	10.42	21,680
Slaughterers and meat packers .....	250	1.9	13.90	28,920
Food and tobacco roasting, baking, and drying machine operators and tenders .....	80	2.1	16.16	33,620
Food batchmakers .....	220	0.8	17.65	36,710
Computer-controlled machine tool operators, metal and plastic .....	200	0.8	19.31	40,170
Computer numerically controlled machine tool programmers, metal and plastic .....	60	1.5	25.63	53,320
Extruding and drawing machine setters, operators, and tenders, metal and plastic .....	110	0.8	14.35	29,850
Forging machine setters, operators, and tenders, metal and plastic .....	40	1.4	14.44	30,030
Cutting, punching, and press machine setters, operators, and tenders, metal and plastic .....	650	2.0	18.31	38,090
Grinding, lapping, polishing, and buffing machine tool setters, operators, and tenders, metal and plastic .....	140	1.1	16.65	34,620
Lathe and turning machine tool setters, operators, and tenders, metal and plastic .....	130	2.5	20.58	42,800
Milling and planing machine setters, operators, and tenders, metal and plastic .....	50	1.6	19.94	41,480
Machinists .....	3,110	4.7	16.77	34,890
Molding, coremaking, and casting machine setters, operators, and tenders, metal and plastic .....	370	1.4	16.35	34,000
Multiple machine tool setters, operators, and tenders, metal and plastic .....	1,030	4.8	17.08	35,530
Tool and die makers .....	310	2.4	27.01	56,170
Welders, cutters, solderers, and brazers .....	560	0.8	19.67	40,920
Welding, soldering, and brazing machine setters, operators, and tenders .....	70	1.0	20.23	42,080
Heat treating equipment setters, operators, and tenders, metal and plastic .....	(5)	(5)	17.52	36,450
Plating and coating machine setters, operators, and tenders, metal and plastic .....	200	3.0	14.70	30,580
Prepress technicians and workers .....	50	0.9	22.65	47,100
Printing press operators .....	860	2.8	19.81	41,210
Print binding and finishing workers .....	(5)	(5)	17.80	37,030
Laundry and dry-cleaning workers .....	210	0.6	11.09	23,080
Pressers, textile, garment, and related materials .....	40	0.6	10.49	21,810
Sewing machine operators .....	330	1.4	11.86	24,660
Cabinetmakers and bench carpenters .....	80	0.5	17.88	37,200
Sawing machine setters, operators, and tenders, wood .....	40	0.4	15.89	33,060
Woodworking machine setters, operators, and tenders, except sawing .....	70	0.5	13.96	29,030

Note: See footnotes at end of table.

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

Occupation <sup>(1)</sup>	Employment		Mean wages	
	Level <sup>(2)</sup>	Location quotient <sup>(3)</sup>	Hourly	Annual <sup>(4)</sup>
Water and wastewater treatment plant and system operators .....	180	0.9	28.81	59,910
Chemical equipment operators and tenders .....	80	0.6	17.72	36,850
Separating, filtering, clarifying, precipitating, and still machine setters, operators, and tenders.....	70	0.9	23.02	47,870
Crushing, grinding, and polishing machine setters, operators, and tenders .....	50	0.8	15.99	33,260
Mixing and blending machine setters, operators, and tenders .....	450	2.0	17.00	35,360
Cutting and slicing machine setters, operators, and tenders .....	220	2.1	22.35	46,500
Extruding, forming, pressing, and compacting machine setters, operators, and tenders.....	140	1.0	17.45	36,290
Inspectors, testers, sorters, samplers, and weighers .....	1,650	1.7	18.40	38,280
Jewelers and precious stone and metal workers .....	30	0.7	23.43	48,740
Dental laboratory technicians .....	(5)	(5)	18.50	38,480
Packaging and filling machine operators and tenders .....	1,830	2.6	14.22	29,580
Coating, painting, and spraying machine setters, operators, and tenders .....	120	0.8	16.44	34,190
Painters, transportation equipment .....	80	0.9	26.92	55,990
Cleaning, washing, and metal pickling equipment operators and tenders .....	50	1.7	14.09	29,300
Etchers and engravers .....	(5)	(5)	10.95	22,780
Molders, shapers, and casters, except metal and plastic .....	180	2.5	15.77	32,800
Paper goods machine setters, operators, and tenders .....	300	1.8	17.85	37,140
Helpers--production workers .....	880	1.2	12.96	26,960
Production workers, all other.....	(5)	(5)	18.78	39,070

Footnotes:

(1) For a complete listing of all detailed occupations in Elgin, IL Metropolitan Division, see [www.bls.gov/oes/current/oes\\_20994.htm](http://www.bls.gov/oes/current/oes_20994.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.