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## Occupational Employment and Wages in Elkhart-Goshen — May 2014

Workers in the Elkhart-Goshen Metropolitan Statistical Area had an average (mean) hourly wage of \$18.12 in May 2014, about 20 percent below the nationwide average of \$22.71, according to the U.S. Bureau of Labor Statistics. Regional Commissioner Charlene Peiffer noted that, after testing for statistical significance, no wages in the local area were higher than their respective national averages in 22 major occupational groups. Seventeen groups had significantly lower wages than their respective national averages, including legal; computer and mathematical; and architecture and engineering.

When compared to the nationwide distribution, local employment was more highly concentrated in 1 of the 22 occupational groups: production. Conversely, 19 groups had employment shares significantly below their national representation, including office and administrative support; food preparation and serving related; and sales and related. (See [table A](#) and [box note](#) at end of release.)

**Table A. Occupational employment and wages by major occupational group, United States and the Elkhart-Goshen Metropolitan Statistical Area, and measures of statistical significance, May 2014**

Major occupational group	Percent of total employment		Mean hourly wage		Percent difference <sup>(1)</sup>
	United States	Elkhart	United States	Elkhart	
Total, all occupations .....	100.0%	100.0%	\$22.71	\$18.12*	-20
Management .....	5.0	4.3*	54.08	44.70*	-17
Business and financial operations .....	5.1	2.4*	34.81	28.33*	-19
Computer and mathematical .....	2.8	0.7*	40.37	28.76*	-29
Architecture and engineering .....	1.8	1.5*	39.19	28.50*	-27
Life, physical, and social science .....	0.8	0.2*	33.69	25.73*	-24
Community and social services .....	1.4	0.6*	21.79	19.22*	-12
Legal .....	0.8	0.4*	48.61	29.87*	-39
Education, training, and library .....	6.2	4.1*	25.10	19.48*	-22
Arts, design, entertainment, sports, and media .....	1.3	0.7*	26.82	20.31*	-24
Healthcare practitioners and technical .....	5.8	3.4*	36.54	31.98*	-12
Healthcare support .....	2.9	1.5*	13.86	13.13*	-5
Protective service .....	2.4	0.7*	21.14	19.13*	-10
Food preparation and serving related .....	9.1	5.6*	10.57	9.84*	-7
Building and grounds cleaning and maintenance .....	3.2	1.9*	12.68	12.44	-2
Personal care and service .....	3.1	1.4*	12.01	11.46	-5
Sales and related .....	10.5	7.7*	18.59	19.01	2
Office and administrative support .....	16.0	12.4*	17.08	15.55*	-9
Farming, fishing, and forestry .....	0.3	0.1*	12.09	11.98	-1
Construction and extraction .....	3.9	2.9*	22.40	21.47	-4
Installation, maintenance, and repair .....	3.9	4.2	21.74	17.97*	-17
Production .....	6.6	35.3*	17.06	14.90*	-13
Transportation and material moving .....	6.8	7.8	16.57	15.29*	-8

Note: See footnotes at end of table.

Footnotes:

(1) A positive percent difference measures how much the mean wage in Elkhart 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. Elkhart-Goshen had 42,270 jobs in production, accounting for 35.3 percent of local area employment, significantly higher than the 6.6-percent share nationally. The average hourly wage for this occupational group locally was \$14.90, significantly below the national wage of \$17.06.

Some of the largest detailed occupations within the production group included team assemblers (13,210); helpers--production workers (3,140); and welders, cutters, solderers, and brazers (2,280). Among the higher paying jobs were chemical equipment operators and tenders; and tool and die makers, with mean hourly wages of \$25.11 and \$24.52, respectively. At the lower end of the wage scale were laundry and dry-cleaning workers (\$9.51) and bakers (\$10.60). (Detailed occupational data for production are presented in [table 1](#); for a complete listing of detailed occupations available go to [www.bls.gov/oes/2014/may/oes\\_21140.htm](http://www.bls.gov/oes/2014/may/oes_21140.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 Elkhart-Goshen Metropolitan Statistical Area, above-average concentrations of employment were found in many of the occupations within the production group. For instance, fiberglass laminators and fabricators were employed at 73.9 times the national rate in Elkhart, and upholsterers, at 24.9 times the U.S. average. On the other hand, bakers had a location quotient of 0.9 in Elkhart, 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 Indiana Department of Workforce Development.

### 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 are also 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 sampled establishments in May and November each year. May 2014 estimates are

based on responses from six semiannual panels collected over a 3-year period: May 2014, November 2013, May 2013, November 2012, May 2012, and November 2011. The overall national response rate for the six panels is 74.3 percent based on establishments and 70.5 percent based on weighted sampled employment. The unweighted employment of sampled establishments across all six semiannual panels represents approximately 57.1 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 Elkhart-Goshen Metropolitan Statistical Area included 1,361 establishments with a response rate of 77 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 OES survey provides estimates of employment and hourly and annual wages for wage and salary workers in 22 major occupational groups and 821 detailed occupations for the nation, states, metropolitan statistical areas, metropolitan divisions, and nonmetropolitan areas. In addition, employment and wage estimates for 94 minor groups and 458 broad occupations are available in the national data. OES data by state and metropolitan/nonmetropolitan area are available from [www.bls.gov/oes/current/oessrcst.htm](http://www.bls.gov/oes/current/oessrcst.htm) and [www.bls.gov/oes/current/oessrcma.htm](http://www.bls.gov/oes/current/oessrcma.htm), respectively.

The May 2014 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).

### **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 **Elkhart-Goshen, Ind. Metropolitan Statistical Area** includes Elkhart County.

### **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/2014/may/methods\\_statement.pdf](http://www.bls.gov/oes/2014/may/methods_statement.pdf).

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**Table 1. Employment and wage data from the Occupational Employment Statistics survey, by occupation, Elkhart-Goshen Metropolitan Statistical Area, May 2014**

Occupation <sup>(1)</sup>	Employment		Mean wages	
	Level <sup>(2)</sup>	Location quotient <sup>(3)</sup>	Hourly	Annual <sup>(4)</sup>
Production Occupations .....	42,270	5.3	\$14.90	\$30,990
First-Line Supervisors of Production and Operating Workers .....	1,830	3.5	23.67	49,230
Electrical and Electronic Equipment Assemblers .....	330	1.8	13.96	29,040
Structural Metal Fabricators and Fitters .....	340	4.9	16.75	34,830
Fiberglass Laminators and Fabricators .....	1,230	73.9	13.66	28,410
Team Assemblers .....	13,210	13.2	14.02	29,160
Assemblers and Fabricators, All Other .....	3,290	15.5	13.89	28,900
Bakers .....	140	0.9	10.60	22,060
Butchers and Meat Cutters .....	90	0.7	11.81	24,560
Food Batchmakers .....	60	0.5	14.06	29,240
Food Cooking Machine Operators and Tenders .....	110	3.5	11.68	24,290
Computer-Controlled Machine Tool Operators, Metal and Plastic .....	620	4.7	16.80	34,950
Computer Numerically Controlled Machine Tool Programmers, Metal and Plastic .....	80	3.8	21.04	43,750
Extruding and Drawing Machine Setters, Operators, and Tenders, Metal and Plastic .....	520	8.2	14.21	29,560
Forging Machine Setters, Operators, and Tenders, Metal and Plastic .....	(5)	(5)	17.94	37,320
Rolling Machine Setters, Operators, and Tenders, Metal and Plastic .....	150	5.2	18.59	38,670
Cutting, Punching, and Press Machine Setters, Operators, and Tenders, Metal and Plastic .....	1,360	8.1	12.66	26,340
Drilling and Boring Machine Tool Setters, Operators, and Tenders, Metal and Plastic .....	(5)	(5)	16.50	34,330
Grinding, Lapping, Polishing, and Buffing Machine Tool Setters, Operators, and Tenders, Metal and Plastic .....	240	3.8	15.53	32,300
Lathe and Turning Machine Tool Setters, Operators, and Tenders, Metal and Plastic .....	230	6.2	14.19	29,510
Milling and Planing Machine Setters, Operators, and Tenders, Metal and Plastic .....	(5)	(5)	12.01	24,980
Machinists .....	840	2.4	16.72	34,780
Model Makers, Metal and Plastic .....	40	7.6	23.14	48,130
Molding, Coremaking, and Casting Machine Setters, Operators, and Tenders, Metal and Plastic .....	420	3.7	14.23	29,590
Multiple Machine Tool Setters, Operators, and Tenders, Metal and Plastic .....	270	3.1	18.01	37,460
Tool and Die Makers .....	290	4.3	24.52	51,000
Welders, Cutters, Solderers, and Brazers .....	2,280	7.0	15.53	32,300
Welding, Soldering, and Brazing Machine Setters, Operators, and Tenders .....	120	2.4	14.01	29,140
Heat Treating Equipment Setters, Operators, and Tenders, Metal and Plastic .....	40	2.4	19.01	39,550
Plating and Coating Machine Setters, Operators, and Tenders, Metal and Plastic .....	140	4.3	13.20	27,450
Metal Workers and Plastic Workers, All Other .....	250	12.6	13.76	28,610
Printing Press Operators .....	(5)	(5)	15.50	32,250
Laundry and Dry-Cleaning Workers .....	100	0.6	9.51	19,780
Sewing Machine Operators .....	690	5.5	12.29	25,560
Textile Cutting Machine Setters, Operators, and Tenders .....	130	9.9	13.18	27,420
Extruding and Forming Machine Setters, Operators, and Tenders, Synthetic and Glass Fibers .....	90	4.9	16.58	34,490
Upholsterers .....	660	24.9	13.63	28,340
Cabinetmakers and Bench Carpenters .....	1,810	23.2	18.06	37,570
Furniture Finishers .....	130	9.8	13.28	27,630
Sawing Machine Setters, Operators, and Tenders, Wood .....	170	4.2	13.45	27,970

Note: See footnotes at end of table.

**Table 1. Employment and wage data from the Occupational Employment Statistics survey, by occupation, Elkhart-Goshen Metropolitan Statistical Area, May 2014 - Continued**

Occupation <sup>(1)</sup>	Employment		Mean wages	
	Level <sup>(2)</sup>	Location quotient <sup>(3)</sup>	Hourly	Annual <sup>(4)</sup>
Woodworking Machine Setters, Operators, and Tenders, Except Sawing .....	580	9.2	13.89	28,900
Water and Wastewater Treatment Plant and System Operators .....	80	0.8	20.99	43,660
Chemical Equipment Operators and Tenders .....	80	1.4	25.11	52,240
Grinding and Polishing Workers, Hand .....	360	13.9	13.20	27,450
Mixing and Blending Machine Setters, Operators, and Tenders.....	100	0.9	16.88	35,110
Cutters and Trimmers, Hand .....	50	3.4	14.32	29,790
Cutting and Slicing Machine Setters, Operators, and Tenders.....	370	6.6	13.09	27,230
Extruding, Forming, Pressing, and Compacting Machine Setters, Operators, and Tenders.....	(5)	(5)	15.52	32,290
Inspectors, Testers, Sorters, Samplers, and Weighers ...	1,380	3.2	15.60	32,460
Dental Laboratory Technicians .....	(5)	(5)	18.13	37,720
Packaging and Filling Machine Operators and Tenders..	770	2.3	13.96	29,050
Coating, Painting, and Spraying Machine Setters, Operators, and Tenders.....	630	7.8	14.95	31,090
Painters, Transportation Equipment .....	350	8.0	19.66	40,890
Painting, Coating, and Decorating Workers .....	60	4.0	13.78	28,660
Adhesive Bonding Machine Operators and Tenders.....	290	17.8	13.13	27,310
Cleaning, Washing, and Metal Pickling Equipment Operators and Tenders.....	90	5.6	(5)	(5)
Molders, Shapers, and Casters, Except Metal and Plastic .....	50	1.7	14.57	30,300
Paper Goods Machine Setters, Operators, and Tenders ..	160	2.0	15.27	31,760
Helpers--Production Workers .....	3,140	8.4	12.53	26,070
Production Workers, All Other .....	390	2.0	15.80	32,870

Footnotes:

(1) For a complete listing of all detailed occupations in Elkhart-Goshen, IN, see [www.bls.gov/oes/current/oes\\_21140.htm](http://www.bls.gov/oes/current/oes_21140.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.