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Occupational Employment and Wages in Duluth — May 2018

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Workers in the Duluth Metropolitan Statistical Area had an average (mean) hourly wage of \$22.63 in May 2018, about 9 percent below the nationwide average of \$24.98, 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 12 of the 22 major occupational groups, including management, legal, and computer and mathematical. Three groups had significantly higher wages than their respective national averages, including construction and extraction, production, and healthcare support.

When compared to the nationwide distribution, local employment was more highly concentrated in 8 of the 22 occupational groups, including healthcare practitioners and technical, community and social service, and personal care and service. Conversely, 10 groups had employment shares significantly below their national representation, including business and financial operations, computer and mathematical, and transportation and material moving. (See [table A](#) and [box note](#) at end of release.)

Table A. Occupational employment and wages by major occupational group, United States and the Duluth Metropolitan Statistical Area, and measures of statistical significance, May 2018

Major occupational group	Percent of total employment		Mean hourly wage		
	United States	Duluth	United States	Duluth	Percent difference (1)
Total, all occupations	100.0	100.0	\$24.98	\$22.63*	-9
Management	5.3	5.0	58.44	44.95*	-23
Business and financial operations	5.3	3.6*	36.98	30.22*	-18
Computer and mathematical	3.0	1.4*	44.01	33.18*	-25
Architecture and engineering	1.8	1.6	42.01	35.75*	-15
Life, physical, and social science	0.8	1.0*	36.62	32.24*	-12
Community and social service	1.5	3.6*	23.69	21.21*	-10
Legal	0.8	0.4*	52.25	39.42*	-25
Education, training, and library	6.1	6.1	27.22	24.73*	-9
Arts, design, entertainment, sports, and media	1.3	0.9*	28.74	22.88*	-20
Healthcare practitioners and technical	6.0	8.1*	39.42	39.00	-1
Healthcare support	2.8	4.3*	15.57	16.14*	4
Protective service	2.4	2.1*	23.36	24.42	5
Food preparation and serving related	9.2	10.1*	12.30	12.12	-1
Building and grounds cleaning and maintenance	3.1	3.4*	14.43	14.25	-1
Personal care and service	3.8	5.4*	13.51	13.18*	-2
Sales and related	10.0	9.4*	20.09	17.12*	-15
Office and administrative support	15.1	14.0*	18.75	17.88*	-5

Note: See footnotes at end of table.

Table A. Occupational employment and wages by major occupational group, United States and the Duluth Metropolitan Statistical Area, and measures of statistical significance, May 2018 - Continued

Major occupational group	Percent of total employment		Mean hourly wage		
	United States	Duluth	United States	Duluth	Percent difference ⁽¹⁾
Farming, fishing, and forestry.....	0.3	0.1*	14.49	17.49	21
Construction and extraction.....	4.1	4.3	24.62	27.49*	12
Installation, maintenance, and repair	3.9	4.6*	23.54	23.17	-2
Production	6.3	5.0*	18.84	21.69*	15
Transportation and material moving.....	7.1	5.7*	18.41	18.70	2

Footnotes:

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

* The mean hourly wage or percent share of employment is significantly different from the national average of all areas at the 90-percent confidence level.

One occupational group—healthcare practitioners and technical—was chosen to illustrate the diversity of data available for any of the 22 major occupational categories. Duluth had 10,300 jobs in healthcare practitioners and technical, accounting for 8.1 percent of local area employment, significantly higher than the 6.0-percent share nationally. The average hourly wage for this occupational group locally was \$39.00, compared to the national wage of \$39.42.

Some of the larger detailed occupations within the healthcare practitioners and technical group included registered nurses (4,190), licensed practical and licensed vocational nurses (760), and pharmacy technicians (480). Among the higher-paying jobs in this group were family and general practitioners and nurse anesthetists, with mean hourly wages of \$109.28 and \$97.13, respectively. At the lower end of the wage scale were opticians, dispensing (\$16.40) and veterinary technologists and technicians (\$16.63). (Detailed data for the healthcare practitioners and technical occupations are presented in [table 1](#); for a complete listing of detailed occupations available go to www.bls.gov/oes/current/oes_20260.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 Duluth Metropolitan Statistical Area, above-average concentrations of employment were found in some of the occupations within the healthcare practitioners and technical group. For instance, nurse practitioners were employed at 2.1 times the national rate in Duluth, and physician assistants, at 1.9 times the U.S. average. On the other hand, clinical laboratory technologists and technicians had a location quotient of 1.0 in Duluth, 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 Minnesota Department of Employment & Economic Development and the Wisconsin Department of Workforce Development.

Area Changes to the May 2018 Occupational Employment Statistics (OES)

OES continues to publish data for metropolitan and nonmetropolitan areas that cover the full geography of the United States. However, the level of detail available has decreased.

OES no longer publishes data for metropolitan divisions. Data for the 11 large metropolitan areas that contain divisions are now available at the Metropolitan Statistical Area (MSA) or New England City and Town Area (NECTA) level only.

In addition, some smaller nonmetropolitan areas have been combined to form larger nonmetropolitan areas. The May 2018 OES estimates contain data for 134 nonmetropolitan areas, compared with 167 nonmetropolitan areas in the May 2017 estimates.

More information on these area changes is available at www.bls.gov/oes/areas_2018.htm.

Implementing the 2018 Standard Occupational Classification (SOC) System

The OES program plans to begin implementing the 2018 Standard Occupational Classification (SOC) system with the May 2019 estimates, to be released by early April of 2020. Because each set of OES estimates is produced by combining three years of survey data, estimates for May 2019 and May 2020 will be based on a combination of survey data collected under the 2010 SOC and data collected under the 2018 SOC, and will use a hybrid of the two classification systems. The May 2021 OES estimates, to be released by early April of 2022, will be the first set of estimates based fully on the 2018 SOC. For more information, please see www.bls.gov/oes/soc_2018.htm.

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 580 areas, including states and the District of Columbia, metropolitan statistical areas (MSAs), nonmetropolitan areas, and territories; national industry-specific estimates at the NAICS sector, 3-digit, most 4-digit, 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.

The OES survey is a cooperative effort between BLS and the State Workforce Agencies (SWAs). BLS funds the survey and provides the procedures and technical support, while the State Workforce Agencies collect most of the data. OES estimates are constructed from a sample of about 1.2 million establishments. Each year, two semiannual panels of approximately 180,000 to 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 2018 estimates are based on responses from six semiannual panels collected over a 3-year period: May 2018, November 2017, May 2017, November 2016, May 2016, and November 2015. The unweighted sample employment of 83 million across all six semiannual panels represents approximately 58 percent of total national employment. The overall national response rate for the six panels, based on the 50 states and the District of Columbia, is 71 percent based on establishments and 68

percent based on weighted sampled employment. The sample in the Duluth Metropolitan Statistical Area included 1,807 establishments with a response rate of 75 percent. For more information about OES concepts and methodology, go to www.bls.gov/oes/current/oes_tec.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.

The May 2018 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 and information about the 2017 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 **Duluth, MN-WI Metropolitan Statistical Area** includes Carlton and St. Louis Counties of Minnesota and Douglas County of Wisconsin.

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, Duluth Metropolitan Statistical Area, May 2018

Occupation ⁽¹⁾	Employment		Mean wages	
	Level ⁽²⁾	Location quotient ⁽³⁾	Hourly	Annual ⁽⁴⁾
Healthcare practitioners and technical occupations	10,300	1.4	\$39.00	\$81,120
Dentists, general	50	0.5	87.10	181,170
Dietitians and nutritionists	60	1.0	28.59	59,480
Pharmacists.....	340	1.2	68.43	142,340
Family and general practitioners	130	1.3	109.28	227,310
Pediatricians, general.....	(5)	(5)	90.52	188,290
Surgeons	70	2.3	(7)	(7)
Physicians and surgeons, all other.....	(5)	(5)	122.25	254,280
Physician assistants	190	1.9	55.09	114,600
Occupational therapists.....	100	0.9	33.62	69,930
Physical therapists	250	1.3	38.64	80,370
Recreational therapists.....	(5)	(5)	30.31	63,050
Respiratory therapists	120	1.1	31.57	65,670
Speech-language pathologists	90	0.7	33.73	70,150
Veterinarians	80	1.3	39.53	82,210
Registered nurses	4,190	1.6	32.07	66,700
Nurse anesthetists.....	70	1.9	97.13	202,040
Nurse practitioners	320	2.1	56.08	116,640
Audiologists	40	3.0	39.87	82,930
Clinical laboratory technologists and technicians.....	280	1.0	25.53	53,100
Dental hygienists	260	1.4	29.61	61,590
Cardiovascular technologists and technicians	40	0.9	33.95	70,610
Diagnostic medical sonographers	50	0.8	37.78	78,590
Radiologic technologists.....	230	1.3	30.89	64,260
Emergency medical technicians and paramedics	300	1.3	18.26	37,990
Pharmacy technicians	480	1.3	17.16	35,700
Surgical technologists	180	1.8	27.23	56,650
Veterinary technologists and technicians	90	1.0	16.63	34,580
Ophthalmic medical technicians.....	60	1.3	25.25	52,520
Licensed practical and licensed vocational nurses	760	1.2	21.82	45,380
Medical records and health information technicians	200	1.1	22.43	46,660
Opticians, dispensing	130	2.0	16.40	34,120
Health technologists and technicians, all other	80	0.7	26.54	55,200
Occupational health and safety specialists	130	1.7	36.62	76,170
Athletic trainers.....	50	2.2	(6)	46,580

Footnotes:

- (1) For a complete listing of all detailed occupations in the Duluth, MN-WI Metropolitan Statistical Area, see www.bls.gov/oes/current/oes_20260.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.
- (6) Wages for some occupations that do not generally work year-round, full time, are reported either as hourly wages or annual salaries depending on how they are typically paid.
- (7) This wage is equal to or greater than \$80.00 per hour or \$166,400 per year.