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## **Occupational Employment and Wages in Dutchess County-Putnam County — May 2015**

Workers in the Dutchess County-Putnam County Metropolitan Division had an average (mean) hourly wage of \$24.63 in May 2015, about 6 percent above the nationwide average of \$23.23, according to the U.S. Bureau of Labor Statistics. Chief Regional Economist Martin Kohli noted that, after testing for statistical significance, wages in the local area were higher than their respective national averages in 12 of the 22 major occupational groups, including protective service; education, training, and library; and construction and extraction. No group had an hourly wage significantly lower than its respective national average.

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

**Table A. Occupational employment and wages by major occupational group, United States and the Dutchess County-Putnam County Metropolitan Division, and measures of statistical significance, May 2015**

Major occupational group	Percent of total employment		Mean hourly wage		
	United States	Dutchess County - Putnam County	United States	Dutchess County - Putnam County	Percent difference <sup>(1)</sup>
Total, all occupations .....	100.0%	100.0%	\$23.23	\$24.63*	6
Management .....	5.0	4.3*	55.30	56.27	2
Business and Financial Operations.....	5.1	2.8*	35.48	35.36	0
Computer and Mathematical .....	2.9	1.7*	41.43	41.22	-1
Architecture and Engineering .....	1.8	3.2	39.89	41.81*	5
Life, Physical, and Social Science.....	0.8	0.4*	34.24	36.59	7
Community and Social Service .....	1.4	2.0*	22.19	26.29*	18
Legal.....	0.8	0.5*	49.74	50.80	2
Education, Training, and Library.....	6.2	9.9*	25.48	29.64*	16
Arts, Design, Entertainment, Sports, and Media .....	1.3	1.3	27.39	27.77	1
Healthcare Practitioners and Technical .....	5.8	7.0*	37.40	39.96	7
Healthcare Support .....	2.9	3.9*	14.19	14.95*	5
Protective Service .....	2.4	3.5*	21.45	27.37*	28
Food Preparation and Serving Related .....	9.1	8.7	10.98	11.88*	8
Building and Grounds Cleaning and Maintenance..	3.2	4.1*	13.02	14.26*	10
Personal Care and Service .....	3.1	5.1*	12.33	14.34*	16
Sales and Related .....	10.5	9.4*	18.90	17.56	-7
Office and Administrative Support .....	15.8	15.5	17.47	18.54*	6
Farming, Fishing, and Forestry .....	0.3	0.1*	12.67	15.00*	18
Construction and Extraction .....	4.0	5.0*	22.88	26.98*	18

Note: See footnotes at end of table.

**Table A. Occupational employment and wages by major occupational group, United States and the Dutchess County-Putnam County Metropolitan Division, and measures of statistical significance, May 2015 - Continued**

Major occupational group	Percent of total employment		Mean hourly wage		
	United States	Dutchess County - Putnam County	United States	Dutchess County - Putnam County	Percent difference <sup>(1)</sup>
Installation, Maintenance, and Repair .....	3.9	4.0	22.11	24.99*	13
Production .....	6.6	3.2*	17.41	18.24	5
Transportation and Material Moving .....	6.9	4.4*	16.90	17.48	3

Footnotes:

(1) A positive percent difference measures how much the mean wage in Dutchess County 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—education, training, and library—was chosen to illustrate the diversity of data available for any of the 22 major occupational categories. Dutchess County-Putnam County had 13,650 jobs in education, training, and library, accounting for 9.9 percent of local area employment, significantly higher than the 6.2-percent share nationally. The average hourly wage for this occupational group locally was \$29.64, significantly above the national wage of \$25.48.

Some of the larger detailed occupations within the education, training, and library group included teacher assistants (2,320), secondary school teachers, except special and career/technical education (1,580), and elementary school teachers, except special education (1,330). Among the higher paying jobs were postsecondary physics teachers and postsecondary economics teachers, with mean annual wages of \$98,480 and \$98,380, respectively. At the lower end of the wage scale were preschool teachers, except special education (\$26,150) and substitute teachers (\$30,210). (Detailed occupational data for education, training, and library are presented in [table 1](#); for a complete listing of detailed occupations available go to [www.bls.gov/oes/2015/may/oes\\_20524.htm](http://www.bls.gov/oes/2015/may/oes_20524.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 Dutchess County-Putnam County Metropolitan Division, above-average concentrations of employment were found in many of the occupations within the education, training, and library group. For instance, secondary school special education teachers were employed at 3.7 times the national rate in Dutchess County-Putnam County, and postsecondary art, drama, and music teachers, at 3.6 times the U.S. average. On the other hand, elementary school teachers, except special education had a location quotient of 1.0 in Dutchess County-Putnam County, 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 New York State Department of Labor.

## Notes on Occupational Employment Statistics Data

With the issuance of data for May 2015, the OES program has incorporated redefined metropolitan area definitions as designated by the Office of Management and Budget. OES data are available for 394 metropolitan areas, 38 metropolitan divisions, and 167 OES-defined nonmetropolitan areas. A listing of the areas and their definitions can be found at [www.bls.gov/oes/current/msa\\_def.htm](http://www.bls.gov/oes/current/msa_def.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 mail survey measuring occupational employment and wage rates for wage and salary workers in nonfarm establishments in the United States. The OES program produces employment and wage estimates for over 800 occupations for all industries combined in the nation; the 50 states and the District of Columbia; 432 metropolitan areas and divisions; 167 nonmetropolitan areas; and Guam, Puerto Rico, and the U.S. Virgin Islands. National estimates are also available by industry for NAICS sectors, 3-, 4-, and selected 5- and 6-digit industries, and 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. Forms are mailed to approximately 200,000 sampled establishments in May and November each year. May 2015 estimates are based on responses from six semiannual panels collected over a 3-year period: May 2015, November 2014, May 2014, November 2013, May 2013, and November 2012. The overall national response rate for the six panels is 73.5 percent based on establishments and 69.6 percent based on weighted sampled employment. The unweighted employment of sampled establishments across all six semiannual panels represents approximately 57.9 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 Dutchess County-Putnam County Metropolitan Division included 1,378 establishments with a response rate of 78 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 May 2015 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).

### 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 **Dutchess County-Putnam County, N.Y. Metropolitan Division** includes Dutchess and Putnam Counties.

## **Additional information**

OES data are available on our regional web page at [www.bls.gov/regions/new-york-new-jersey](http://www.bls.gov/regions/new-york-new-jersey). 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/2015/may/methods\\_statement.pdf](http://www.bls.gov/oes/2015/may/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, Dutchess County-Putnam County Metropolitan Division, May 2015**

Occupation <sup>(1)</sup>	Employment		Mean wages	
	Level <sup>(2)</sup>	Location quotient <sup>(3)</sup>	Hourly	Annual <sup>(4)</sup>
Education, Training, and Library Occupations.....	13,650	1.6	\$29.64	\$61,640
Business Teachers, Postsecondary .....	(5)	(5)	(5)	86,700
Computer Science Teachers, Postsecondary .....	(5)	(5)	(5)	81,130
Mathematical Science Teachers, Postsecondary .....	(5)	(5)	(5)	72,460
Biological Science Teachers, Postsecondary.....	100	2.0	(5)	87,390
Chemistry Teachers, Postsecondary .....	60	2.9	(5)	95,490
Physics Teachers, Postsecondary.....	60	3.9	(5)	98,480
Anthropology and Archeology Teachers, Postsecondary.....	30	5.2	(5)	96,240
Economics Teachers, Postsecondary .....	60	4.7	(5)	98,380
Political Science Teachers, Postsecondary.....	50	3.0	(5)	96,580
Psychology Teachers, Postsecondary.....	120	3.0	(5)	93,330
Sociology Teachers, Postsecondary .....	60	3.8	(5)	73,420
Art, Drama, and Music Teachers, Postsecondary .....	350	3.6	(5)	71,960
English Language and Literature Teachers, Postsecondary.....	250	3.3	(5)	93,420
Foreign Language and Literature Teachers, Postsecondary.....	90	3.1	(5)	79,850
History Teachers, Postsecondary.....	50	2.2	(5)	88,640
Philosophy and Religion Teachers, Postsecondary .....	60	2.5	(5)	89,840
Vocational Education Teachers, Postsecondary .....	(5)	(5)	26.47	55,060
Preschool Teachers, Except Special Education .....	780	2.1	12.57	26,150
Kindergarten Teachers, Except Special Education .....	100	0.7	(5)	76,460
Elementary School Teachers, Except Special Education .....	1,330	1.0	(5)	82,380
Middle School Teachers, Except Special and Career/ Technical Education .....	600	1.0	(5)	81,830
Career/Technical Education Teachers, Middle School ....	50	3.4	(5)	79,880
Secondary School Teachers, Except Special and Career/Technical Education .....	1,580	1.6	(5)	82,950
Career/Technical Education Teachers, Secondary School .....	100	1.3	(5)	69,180
Special Education Teachers, Kindergarten and Elementary School .....	530	2.7	(5)	78,610
Special Education Teachers, Middle School .....	100	1.1	(5)	87,030
Special Education Teachers, Secondary School.....	480	3.7	(5)	74,110
Adult Basic and Secondary Education and Literacy Teachers and Instructors.....	170	2.6	25.94	53,960
Self-Enrichment Education Teachers .....	720	3.3	23.99	49,890
Teachers and Instructors, All Other, Except Substitute Teachers.....	110	0.4	(5)	82,930
Substitute Teachers.....	760	1.2	14.52	30,210
Librarians.....	220	1.7	28.57	59,430
Library Technicians.....	240	2.6	15.27	31,760
Instructional Coordinators .....	120	0.9	29.98	62,360
Teacher Assistants .....	2,320	1.9	(5)	25,810

Footnotes:

- (1) For a complete listing of all detailed occupations in the Dutchess County-Putnam County, NY Metropolitan Division, see [www.bls.gov/oes/current/oes\\_20524.htm](http://www.bls.gov/oes/current/oes_20524.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.