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## Occupational Employment and Wages in San Juan-Caguas-Guaynabo - May 2014

Workers in the San Juan-Caguas-Guaynabo Metropolitan Statistical Area had an average (mean) hourly wage of \$13.52 in May 2014, about 40 percent below the United States average of \$22.71, according to the U.S. Bureau of Labor Statistics. Chief Regional Economist Martin Kohli noted that, after testing for statistical significance, no wages in the local area were higher than their respective U.S. averages in any of the 22 major occupational groups.

When compared to the U.S. distribution, local employment was more highly concentrated in 5 of the 22 occupational groups, including protective service, office and administrative support, and community and social services. Conversely, 15 groups had employment shares significantly below their national representation, including healthcare support, 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 San Juan-Caguas-Guaynabo Metropolitan Statistical Area, and measures of statistical significance, May 2014**

Major occupational group	Percent of total employment		Mean hourly wage		
	United States	San Juan	United States	San Juan	Percent difference (1)
Total, all occupations .....	100.0%	100.0%	\$22.71	\$13.52*	-40
Management .....	5.0	4.5*	54.08	34.76*	-36
Business and Financial Operations.....	5.1	5.0	34.81	18.41*	-47
Computer and Mathematical .....	2.8	1.2*	40.37	20.73*	-49
Architecture and Engineering .....	1.8	1.4*	39.19	26.25*	-33
Life, Physical, and Social Science.....	0.8	0.8	33.69	21.91*	-35
Community and Social Services.....	1.4	1.9*	21.79	13.36*	-39
Legal.....	0.8	0.6*	48.61	30.69*	-37
Education, Training, and Library.....	6.2	6.1*	25.10	17.26*	-31
Arts, Design, Entertainment, Sports, and Media .....	1.3	0.9*	26.82	17.73*	-34
Healthcare Practitioner and Technical.....	5.8	5.3*	36.54	17.58*	-52
Healthcare Support .....	2.9	1.2*	13.86	9.67*	-30
Protective Service .....	2.4	7.5*	21.14	9.65*	-54
Food Preparation and Serving Related.....	9.1	7.8*	10.57	8.73*	-17
Building and Grounds Cleaning and Maintenance..	3.2	4.7*	12.68	9.02*	-29
Personal Care and Service .....	3.1	1.8*	12.01	9.05*	-25
Sales and Related .....	10.5	11.9*	18.59	10.96*	-41
Office and Administrative Support.....	16.0	18.9*	17.08	11.46*	-33
Farming, Fishing, and Forestry .....	0.3	0.2*	12.09	11.11	-8
Construction and Extraction .....	3.9	3.4*	22.40	10.61*	-53
Installation, Maintenance, and Repair.....	3.9	3.3*	21.74	13.59*	-37
Production .....	6.6	6.2*	17.06	11.24*	-34
Transportation and Material Moving.....	6.8	5.4*	16.57	10.62*	-36

Note: See footnotes at end of table.

Footnotes:

(1) A positive percent difference measures how much the mean wage in San Juan 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—community and social service—was chosen to illustrate the diversity of data available for any of the 22 major occupational categories. San Juan-Caguas-Guaynabo had 13,260 jobs in community and social service, accounting for 1.9 percent of local area employment, significantly higher than the 1.4-percent U.S. share. The average hourly wage for this occupational group locally was \$13.36, significantly below the U.S. wage of \$21.79.

Some of the largest detailed occupations within the community and social service group included social and human service assistants (5,000); child, family, and school social workers (2,660); and educational, guidance, school, and vocational counselors (810). Among the higher paying jobs were clergy and educational, guidance, school, and vocational counselors, with mean hourly wages of \$16.77 and \$16.20, respectively. At the lower end of the wage scale were social and human service assistants (\$10.99) and mental health and substance abuse social workers (\$12.55). (Detailed occupational data for community and social service are presented in [table 1](#); for a complete listing of detailed occupations available go to [www.bls.gov/oes/2014/may/oes\\_41980.htm](http://www.bls.gov/oes/2014/may/oes_41980.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 U.S. 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 in the U.S. In the San Juan-Caguas-Guaynabo Metropolitan Statistical Area, above-average concentrations of employment were found in many of the occupations within the community and social service group. For instance, social and human service assistants were employed at 2.7 times the U.S. rate in San Juan, and child, family, and school social workers, at 1.8 times the U.S. average. On the other hand, probation officers and correctional treatment specialists had a location quotient of 1.3 in San Juan, indicating that this particular occupation's local and U.S. 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 Puerto Rico Department of Labor and Human Resources.

**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 San Juan-Caguas-Guaynabo Metropolitan Statistical Area included 4,013 establishments with a response rate of 85 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 **San Juan-Caguas-Guaynabo, P.R. Metropolitan Statistical Area** includes Aguas Buenas Municipio, Aibonito Municipio, Arecibo Municipio, Barceloneta Municipio, Barranquitas Municipio, Bayamón Municipio, Caguas Municipio, Camuy Municipio, Canóvanas Municipio, Carolina Municipio, Cataño Municipio, Cayey Municipio, Ciales Municipio, Cidra Municipio, Comerío Municipio, Corozal Municipio, Dorado Municipio, Florida Municipio, Guaynabo Municipio, Gurabo Municipio, Hatillo Municipio, Humacao Municipio, Juncos Municipio, Las Piedras Municipio, Loíza Municipio, Manatí Municipio, Maunabo Municipio, Morovis Municipio, Naguabo Municipio, Naranjito Municipio, Orocovi Municipio, Quebradillas Municipio, Río Grande Municipio, San Juan Municipio, San Lorenzo Municipio, Toa Alta Municipio, Toa Baja Municipio, Trujillo Alto Municipio, Vega Alta Municipio, Vega Baja Municipio, Yabucoa Municipio.

### 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/2014/may/methods\\_statement.pdf](http://www.bls.gov/oes/2014/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, San Juan-Caguas-Guaynabo 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>
Community and Social Service Occupations .....	13,260	1.3	\$13.36	\$27,780
Substance Abuse and Behavioral Disorder Counselors .	80	0.2	13.71	28,510
Educational, Guidance, School, and Vocational Counselors .....	810	0.6	16.20	33,690
Mental Health Counselors .....	130	0.2	15.16	31,530
Rehabilitation Counselors .....	280	0.5	14.70	30,570
Counselors, All Other .....	210	1.5	14.90	31,000
Child, Family, and School Social Workers.....	2,660	1.8	14.88	30,950
Healthcare Social Workers.....	480	0.6	14.13	29,380
Mental Health and Substance Abuse Social Workers.....	260	0.5	12.55	26,100
Social Workers, All Other .....	940	2.9	15.71	32,670
Health Educators.....	460	1.5	14.28	29,700
Probation Officers and Correctional Treatment Specialists .....	570	1.3	15.01	31,230
Social and Human Service Assistants.....	5,000	2.7	10.99	22,850
Community Health Workers .....	200	0.8	12.81	26,650
Community and Social Service Specialists, All Other .....	1,040	2.1	13.87	28,850
Clergy .....	120	0.5	16.77	34,890

Footnotes:

(1) For a complete listing of all detailed occupations in San Juan-Caguas-Guaynabo, PR, see [www.bls.gov/oes/current/oes\\_41980.htm](http://www.bls.gov/oes/current/oes_41980.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.