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## Occupational Employment and Wages in San Juan-Carolina-Caguas — May 2018

Workers in the San Juan-Carolina-Caguas Metropolitan Statistical Area had an average (mean) hourly wage of \$14.61 in May 2018, about 42 percent below the United States average of \$24.98, 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 lower than their respective U.S. averages in all of the 22 major occupational groups.

When compared to the U.S. distribution, local employment was more highly concentrated in 7 of the 22 occupational groups, including protective service; office and administrative support; and building and grounds cleaning and maintenance. Conversely, 14 groups had employment shares significantly below their U.S. representation, including personal care and service; transportation and material movement; and healthcare support. (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-Carolina-Caguas Metropolitan Statistical Area, and measures of statistical significance, May 2018**

Major occupational group	Percent of total employment		Mean hourly wage		
	United States	San Juan	United States	San Juan	Percent difference <sup>(1)</sup>
Total, all occupations .....	100	100	\$24.98	\$14.61*	-42
Management .....	5.3	4.7*	58.44	38.07*	-35
Business and financial operations.....	5.3	5.8*	36.98	19.20*	-48
Computer and mathematical .....	3.0	1.4*	44.01	21.26*	-52
Architecture and engineering .....	1.8	1.6*	42.01	26.26*	-37
Life, physical, and social science .....	0.8	0.8*	36.62	23.41*	-36
Community and social service.....	1.5	2.0*	23.69	14.14*	-40
Legal.....	0.8	0.7*	52.25	32.67*	-37
Education, training, and library.....	6.1	6.7*	27.22	16.87*	-38
Arts, design, entertainment, sports, and media.....	1.3	0.9*	28.74	17.91*	-38
Healthcare practitioners and technical .....	6.0	5.9	39.42	17.93*	-55
Healthcare support .....	2.8	1.0*	15.57	10.47*	-33
Protective service .....	2.4	7.9*	23.36	12.11*	-48
Food preparation and serving related .....	9.2	7.4*	12.30	9.14*	-26
Building and grounds cleaning and maintenance .....	3.1	4.7*	14.43	9.79*	-32
Personal care and service.....	3.8	1.6*	13.51	9.65*	-29
Sales and related .....	10.0	10.8*	20.09	11.59*	-42
Office and administrative support.....	15.1	18.6*	18.75	12.20*	-35
Farming, fishing, and forestry.....	0.3	0.2*	14.49	11.39*	-21

Note: See footnotes at end of table.

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

Major occupational group	Percent of total employment		Mean hourly wage		
	United States	San Juan	United States	San Juan	Percent difference <sup>(1)</sup>
Construction and extraction.....	4.1	3.2*	24.62	10.87*	-56
Installation, maintenance, and repair .....	3.9	3.5*	23.54	13.18*	-44
Production .....	6.3	5.6*	18.84	12.22*	-35
Transportation and material moving.....	7.1	5.2*	18.41	11.41*	-38

Footnotes:

(1) A positive percent difference measures how much the mean wage in the San Juan-Carolina-Caguas Metropolitan Statistical Area is above the U.S. 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—protective service—was chosen to illustrate the diversity of data available for any of the 22 major occupational categories. San Juan-Carolina-Caguas had 50,700 jobs in protective service, accounting for 7.9 percent of local area employment, significantly higher than the 2.4-percent share in the United States. The average hourly wage for this occupational group locally was \$12.11, significantly below the U.S. wage of \$23.36.

Some of the largest detailed occupations within the protective service group included security guards (24,610), police and sheriff's patrol officers (12,790), and first-line supervisors of police and detectives(2,650). Among the higher-paying jobs in this group were detectives and criminal investigators and first-line supervisors of police and detectives, with mean hourly wages of \$30.55 and \$18.41, respectively. At the lower end of the wage scale were security guards (\$8.77) and gaming surveillance officers and gaming investigators (\$10.19). (Detailed data for the protective service occupations are presented in table 1; for a complete listing of detailed occupations available go to [www.bls.gov/oes/2018/may/oes\\_41980.htm](http://www.bls.gov/oes/2018/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 United States. In the San Juan-Carolina-Caguas Metropolitan Statistical Area, above-average concentrations of employment were found in many of the occupations within the protective service group. For instance, bailiffs were employed at 10.1 times the U.S. rate in San Juan, and first-line supervisors of police and detectives, at 5.1 times the U.S. average. On the other hand, firefighters had a location quotient of 1.1 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.

## **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](http://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](http://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](http://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 San Juan-Carolina-Caguas Metropolitan Statistical Area included 3,697 establishments with a response rate of 81 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).

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](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 **San Juan-Carolina-Caguas, Metropolitan Statistical Area** includes Aguas Buenas, Aibonito, Barceloneta, Barranquitas, Bayamón, Caguas, Canóvanas, Carolina, Cataño, Cayey, Ceiba, Ciales, Cidra, Comerío, Corozal, Dorado, Fajardo, Florida, Guaynabo, Gurabo, Humacao, Juncos, Las Piedras, Loíza, Luquillo, Manatí, Maunabo, Morovis, Naguabo, Naranjito, Orocovis, Río Grande, San Juan, San Lorenzo, Toa Alta, Toa Baja, Trujillo Alto, Vega Alta, Vega Baja, and Yabucoa Municipios.

### **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/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, San Juan-Carolina-Caguas Metropolitan Statistical Area, May 2018**

Occupation <sup>(1)</sup>	Employment		Mean wages	
	Level <sup>(2)</sup>	Location quotient <sup>(3)</sup>	Hourly	Annual <sup>(4)</sup>
Protective service occupations.....	50,700	3.3	\$12.11	\$25,180
First-line supervisors of police and detectives.....	2,650	5.1	18.41	38,290
First-line supervisors of fire fighting and prevention workers.....	210	0.7	15.41	32,050
First-line supervisors of protective service workers, all other.....	670	1.9	15.11	31,440
Firefighters.....	1,600	1.1	12.08	25,120
Bailiffs.....	850	10.1	15.14	31,480
Detectives and criminal investigators.....	530	1.2	30.55	63,530
Police and sheriff's patrol officers.....	12,790	4.4	15.57	32,380
Private detectives and investigators.....	50	0.4	17.09	35,550
Gaming surveillance officers and gaming investigators.....	90	2.0	10.19	21,200
Security guards.....	24,610	5.0	8.77	18,250
Lifeguards, ski patrol, and other recreational protective service workers.....	90	0.1	10.24	21,290
Transportation security screeners.....	430	2.2	18.15	37,350
Protective service workers, all other.....	790	1.3	11.53	23,980

Footnotes:

(1) For a complete listing of all detailed occupations in the San Juan-Carolina-Caguas Metropolitan Statistical Area, 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 average concentration in the United States. 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.