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## OCCUPATIONAL EMPLOYMENT AND WAGES IN CHICAGO-JOLIET-NAPERVILLE, ILL. METROPOLITAN DIVISION — MAY 2011

Workers in the Chicago-Joliet-Naperville Metropolitan Division had an average (mean) hourly wage of \$23.57 in May 2011, about 8 percent above the nationwide average of \$21.74, the U.S. Bureau of Labor Statistics reported today. Regional Commissioner Charlene Peiffer noted that, after testing for statistical significance, wages in the local area were significantly higher than their respective national averages in 15 of the 22 major occupational groups, including legal; construction and extraction; and sales and related. Only one group—architecture and engineering—had significantly lower wages 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 business and financial operations; transportation and material moving; and management. Conversely, 10 groups had employment shares significantly below their national representation, including food preparation and serving related occupations; installation, maintenance, and repair; and office and administrative 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 Chicago-Joliet-Naperville Metropolitan Division, and measures of statistical significance, May 2011**

| Major occupational group                       | Percent of total employment |         | Mean hourly wage |           |                                   |
|--|-----------------------------|---------|------------------|-----------|-----------------------------------|
|  | United States               | Chicago | United States    | Chicago   | Percent difference <sup>[1]</sup> |
| <b>Total, all occupations</b>                  | 100.0%                      | 100.0%  | \$21.74          | \$23.57 * | 8                                 |
| Management                                     | 4.8                         | 5.9 *   | 51.64            | 51.07     | -1                                |
| Business and financial operations              | 4.8                         | 6.0 *   | 33.05            | 34.34 *   | 4                                 |
| Computer and mathematical                      | 2.7                         | 2.6     | 37.85            | 37.91     | [3]                               |
| Architecture and engineering                   | 1.8                         | 1.4 *   | 37.08            | 35.67 *   | -4                                |
| Life, physical, and social science             | 0.8                         | 0.5 *   | 32.44            | 35.06 *   | 8                                 |
| Community and social service                   | 1.5                         | 1.3 *   | 21.07            | 22.59 *   | 7                                 |
| Legal  | 0.8                         | 1.0 *   | 47.30            | 56.31 *   | 19                                |
| Education, training, and library               | 6.6                         | 7.0 *   | 24.46            | 27.27 *   | 11                                |
| Arts, design, entertainment, sports, and media | 1.3                         | 1.4     | 25.89            | 25.32     | -2                                |
| Healthcare practitioners and technical         | 5.9                         | 5.8     | 34.97            | 35.62     | 2                                 |
| Healthcare support                             | 3.1                         | 2.8 *   | 13.16            | 13.42     | 2                                 |
| Protective service                             | 2.5                         | 2.7 *   | 20.54            | 21.96     | 7                                 |
| Food preparation and serving related           | 8.7                         | 7.5 *   | 10.30            | 10.56 *   | 3                                 |
| Building and grounds cleaning and maintenance  | 3.3                         | 3.3     | 12.29            | 13.09 *   | 7                                 |
| Personal care and service                      | 2.8                         | 2.6 *   | 11.84            | 12.47 *   | 5                                 |
| Sales and related                              | 10.6                        | 11.0 *  | 18.04            | 20.95 *   | 16                                |
| Office and administrative support              | 16.7                        | 15.9 *  | 16.40            | 17.34 *   | 6                                 |
| Farming, fishing, and forestry                 | 0.3                         | [2] *   | 11.68            | 14.03 *   | 20                                |
| Construction and extraction                    | 3.9                         | 3.3 *   | 21.46            | 26.97 *   | 26                                |
| Installation, maintenance, and repair          | 3.9                         | 3.0 *   | 20.86            | 22.47 *   | 8                                 |
| Production                                     | 6.5                         | 6.9 *   | 16.45            | 16.73 *   | 2                                 |
| Transportation and material moving             | 6.7                         | 7.9 *   | 15.96            | 16.81 *   | 5                                 |

\* 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.

[1] A positive percent difference measures how much the mean wage in Chicago is above the national mean wage, while a negative difference reflects a lower wage.

[2] Indicates a value of less than 0.05 percent. [3] Indicates a value of less than 1.0 percent.

One occupational group—transportation and material moving—was chosen to illustrate the diversity of data available for any of the 22 major occupational categories. Chicago-Joliet-Naperville had 283,130 jobs in transportation and material moving, accounting for 7.9 percent of local area employment, significantly higher than the 6.7-percent share nationally. The average hourly wage for this occupational group locally was \$16.81, measurably above the national wage of \$15.96.

With employment of 76,910, hand laborers and freight, stock, and material movers was the largest occupation within the transportation and material moving group, followed by heavy and tractor-trailer truck drivers (35,760) and hand packers and packagers (34,420). Among the higher paying jobs were air traffic controllers and ship engineers, with mean hourly wages of \$68.48 and \$35.19, respectively. At the lower end of the wage scale were automotive and watercraft service attendants (\$10.35) and cleaners of vehicles and equipment (\$10.88). (Detailed occupational data for transportation and material moving are presented in table 1; for a complete listing of detailed occupations available go to [www.bls.gov/oes/current/oes\\_16974.htm](http://www.bls.gov/oes/current/oes_16974.htm) )

Location quotients allow for the exploration of an area's occupational make-up 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 Chicago-Joliet-Naperville Metropolitan Division, above average concentrations of employment were found in some of the occupations within the transportation and material moving group. For instance, flight attendants were employed at 3.3 times the national rate in Chicago, and airline pilots, copilots, and flight engineers, at 3.0 times the U.S. average. On the other hand, school or special client bus drivers had a location quotient of 1.0 in Chicago, 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 Illinois Department of Employment Security. The OES survey provides estimates of employment and hourly and annual wages for wage and salary workers in 22 major occupational groups and nearly 800 detailed occupations for the nation, states, metropolitan statistical areas, metropolitan divisions, and nonmetropolitan areas.

OES wage and employment data for the 22 major occupational groups in the Chicago Metropolitan Division were compared to their respective national averages based on statistical significance testing. Only those occupations with wages or employment shares above or below the national wage or share after testing for significance at the 90-percent confidence level meet the criteria.

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 also are 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 establishments in May and November of each year for a 3-year period. The nationwide response rate for the May 2011 survey was 77.3 percent based on establishments and 73.3 percent based on employment. May 2011 estimates are based on responses from six semiannual panels collected over a 3-year period: May 2011, November 2010, May 2010, November 2009, May 2009, and November 2008. The sample in the Chicago-Joliet-Naperville Metropolitan Division included 11,483 establishments with a response rate of 76 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 2011 OES estimates mark the first set of estimates based in part on data collected using the 2010 Standard Occupational Classification (SOC) system. Nearly all the occupations in this release are 2010 SOC occupations; however, some are not. The May 2012 OES data will reflect the full set of detailed occupations in the 2010 SOC. For a list of all occupations, including 2010 SOC occupations, and how data collected on two structures were combined, see the OES Frequently Asked Questions online at [www.bls.gov/oes/oes\\_ques.htm#Ques41](http://www.bls.gov/oes/oes_ques.htm#Ques41).

### 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 **Chicago-Joliet-Naperville, Ill. Metropolitan Division** includes Cook, DeKalb, DuPage, Grundy, Kane, Kendall, McHenry, and Will Counties.

### Additional information

OES data are available on our regional web page at [www.bls.gov/ro5/home.htm](http://www.bls.gov/ro5/home.htm). If you have additional questions, contact the Chicago Economic Analysis and Information Unit at (312) 353-1880. Information in this release will be made available to sensory impaired individuals upon request. Voice phone: (202) 691-5200; TDD message referral phone number: 1 (800) 877-8339.

**Table 1. Employment and wage data from the Occupational Employment Statistics survey, by occupation, Chicago-Joliet-Naperville Metropolitan Division, May 2011**

| Occupation <sup>[1]</sup>  | Employment           |                                  | Mean Wages |                       |
|--|----------------------|----------------------------------|------------|-----------------------|
|  | Level <sup>[2]</sup> | Location quotient <sup>[3]</sup> | Hourly     | Annual <sup>[4]</sup> |
| Transportation and material moving occupations   | 283,130              | 1.2                              | \$16.81    | \$34,970              |
| Aircraft cargo handling supervisors  | 80                   | 0.5                              | 29.45      | 61,260                |
| First-line supervisors of helpers, laborers, and material movers, hand                     | 5,040                | 1.1                              | 23.98      | 49,870                |
| First-line supervisors of transportation and material-moving machine and vehicle operators | 4,020                | 0.7                              | 28.86      | 60,040                |
| Airline pilots, copilots, and flight engineers   | 5,650                | 3.0                              | [5]        | 124,860               |
| Commercial pilots  | 220                  | 0.3                              | [5]        | 67,870                |
| Air traffic controllers  | 850                  | 1.3                              | 68.48      | 142,440               |
| Flight attendants  | 8,130                | 3.3                              | [5]        | 33,950                |
| Ambulance drivers and attendants, except emergency medical technicians                     | 250                  | 0.5                              | 13.80      | 28,710                |
| Bus drivers, transit and intercity   | 9,260                | 1.9                              | 19.87      | 41,320                |
| Bus drivers, school or special client  | 13,800               | 1.0                              | 13.79      | 28,690                |
| Driver/sales workers   | 9,750                | 0.9                              | 15.18      | 31,580                |
| Heavy and tractor-trailer truck drivers  | 35,760               | 0.9                              | 23.08      | 48,000                |
| Light truck or delivery services drivers   | 22,250               | 1.0                              | 18.28      | 38,020                |
| Taxi drivers and chauffeurs  | 5,050                | 1.1                              | 13.91      | 28,930                |
| Motor vehicle operators, all other   | 1,390                | 0.8                              | 17.12      | 35,620                |
| Rail transportation workers, all other   | 190                  | 2.8                              | 28.80      | 59,910                |
| Sailors and marine oilers  | 310                  | 0.4                              | 19.47      | 40,490                |
| Captains, mates, and pilots of water vessels   | 350                  | 0.4                              | 24.70      | 51,390                |
| Motorboat operators  | [5]                  | [5]                              | 20.34      | 42,300                |
| Ship engineers   | 240                  | 0.9                              | 35.19      | 73,200                |
| Bridge and lock tenders  | 90                   | 1.0                              | 25.12      | 52,250                |
| Parking lot attendants   | 5,960                | 1.7                              | 11.42      | 23,750                |
| Automotive and watercraft service attendants   | 700                  | 0.2                              | 10.35      | 21,540                |
| Traffic technicians  | 40                   | 0.2                              | 18.57      | 38,630                |
| Transportation inspectors  | 750                  | 1.1                              | 28.10      | 58,440                |
| Transportation attendants, except flight attendants  | 2,340                | 3.1                              | 11.45      | 23,810                |
| Transportation workers, all other  | 3,390                | 4.0                              | [5]        | [5]                   |
| Conveyor operators and tenders   | 750                  | 0.7                              | 17.14      | 35,650                |
| Crane and tower operators  | 620                  | 0.5                              | 30.63      | 63,720                |
| Excavating and loading machine and dragline operators                                      | 590                  | 0.4                              | 25.55      | 53,140                |
| Industrial truck and tractor operators   | 16,270               | 1.2                              | 15.08      | 31,370                |
| Cleaners of vehicles and equipment   | 8,390                | 1.0                              | 10.88      | 22,640                |
| Laborers and freight, stock, and material movers, hand                                     | 76,910               | 1.3                              | 12.43      | 25,850                |
| Machine feeders and offbearers   | 3,580                | 1.2                              | 14.20      | 29,540                |
| Packers and packagers, hand  | 34,420               | 1.9                              | 10.90      | 22,680                |
| Pump operators, except wellhead pumpers  | 90                   | 0.3                              | 25.94      | 53,950                |
| Refuse and recyclable material collectors  | 2,520                | 0.7                              | 24.63      | 51,220                |
| Tank car, truck, and ship loaders  | 290                  | 1.0                              | 20.77      | 43,190                |

[1] For a complete listing of all detailed occupations in Chicago-Joliet-Naperville, see [www.bls.gov/oes/current/oes\\_16974.htm](http://www.bls.gov/oes/current/oes_16974.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.