

MOUNTAIN-PLAINS INFORMATION OFFICE
Kansas City, Mo.

For release: Thursday, August 23, 2012

12-1752-KAN

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**OCCUPATIONAL EMPLOYMENT AND WAGES IN
COLUMBIA, Mo. – MAY 2011**

Workers in the Columbia, Mo., Metropolitan Statistical Area had an average (mean) hourly wage of \$18.17 in May 2011, about 16 percent below the nationwide average of \$21.74, according to the U.S. Bureau of Labor Statistics. Regional Commissioner Stanley W. Suchman noted that, after testing for statistical significance, no wages in the local area were significantly higher than their respective national averages for the 22 major occupational groups. Eighteen groups had significantly lower wages than their respective national averages, including arts, design, entertainment, sports, and media; management; and sales and related.

When compared to the nationwide distribution, local employment was more highly concentrated in 3 of the 22 occupational groups: healthcare practitioners and technical, food preparation and serving related, and personal care and service. Conversely, 10 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 Columbia, Mo., Metropolitan Statistical Area, and measures of statistical significance, May 2011

Major occupational group	Percent of total employment		Mean hourly wage		
	United States	Columbia	United States	Columbia	Percent difference ^[1]
Total, all occupations	100.0%	100.0%	\$21.74	\$18.17 *	-16
Management	4.8	4.3 *	51.64	37.92 *	-27
Business and financial operations	4.8	3.7 *	33.05	27.47 *	-17
Computer and mathematical	2.7	2.0 *	37.85	29.49 *	-22
Architecture and engineering	1.8	1.2 *	37.08	30.04 *	-19
Life, physical, and social science	0.8	1.6	32.44	26.74 *	-18
Community and social service	1.5	1.1 *	21.07	19.16 *	-9
Legal	0.8	0.5 *	47.30	43.41	-8
Education, training, and library	6.6	7.5	24.46	21.70	-11
Arts, design, entertainment, sports, and media	1.3	[2]	25.89	18.25 *	-30
Healthcare practitioners and technical	5.9	9.8 *	34.97	29.07 *	-17
Healthcare support	3.1	2.4 *	13.16	11.93 *	-9
Protective service	2.5	1.5 *	20.54	18.41 *	-10
Food preparation and serving related	8.7	10.8 *	10.30	9.31 *	-10
Building and grounds cleaning and maintenance	3.3	3.6	12.29	11.39 *	-7
Personal care and service	2.8	4.6 *	11.84	10.35 *	-13
Sales and related	10.6	9.9	18.04	13.42 *	-26
Office and administrative support	16.7	17.1	16.40	14.35 *	-13
Farming, fishing, and forestry	0.3	[2]	11.68	12.15	4
Construction and extraction	3.9	3.4	21.46	21.07	-2
Installation, maintenance, and repair	3.9	3.9	20.86	18.69 *	-10
Production	6.5	4.2 *	16.45	14.95 *	-9
Transportation and material moving	6.7	5.3 *	15.96	12.71 *	-20

* 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 Columbia, Mo., is above the national mean wage, while a negative difference reflects a lower wage.

[2] Estimate not released

One occupational group—healthcare practitioners and technical—was chosen to illustrate the diversity of data available for any of the 22 major occupational categories. Columbia had 8,120 healthcare practitioners and technical jobs, accounting for 9.8 percent of local area employment, significantly higher than the 5.9-percent share nationally. The average hourly wage for this occupational group locally was \$29.07, measurably below the national wage of \$34.97.

With employment of 3,150, registered nurses represented the largest occupation within the healthcare practitioners and technical group, followed by licensed practical and licensed vocational nurses (700). Among the higher paying jobs were pharmacists and physician assistants, with mean hourly wages of \$55.59 and \$38.01, respectively. At the lower end of the wage scale were pharmacy technicians (\$12.33) and medical and clinical laboratory technicians (\$14.69). (Detailed occupational data for healthcare practitioners and technical are presented in table 1; for a complete listing of detailed occupations available go to www.bls.gov/oes/current/oes_17860.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 Columbia, Mo., Metropolitan Statistical Area, above average concentrations of employment were found in many of the occupations within the healthcare practitioners and technical group. For instance, family and general practitioners were employed at 6.5 times the national rate in Columbia, and medical and clinical laboratory technologists, at 2.6 times the U.S. average. On the other hand, physician assistants had a location quotient of 1.0 in Columbia, 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 Missouri Department of Economic Development. 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 Columbia, Mo., Metropolitan Statistical Area 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 Columbia, Mo., Metropolitan Statistical Area included 1,134 establishments with a response rate of 74 percent. For more information about OES concepts and methodology, go to 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.

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 **Columbia, Mo. Metropolitan Statistical Area** includes Boone and Howard Counties.

Additional information

OES data are available on our regional web page at www.bls.gov/ro7/home.htm. If you have additional questions, contact the Mountain-Plains Economic Analysis and Information Unit at (816) 285-7000. 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, Columbia, Mo., Metropolitan Statistical Area, May 2011

Occupation ^[1]	Employment		Mean Wages	
	Level ^[2]	Location quotient ^[3]	Hourly	Annual ^[4]
Healthcare practitioners and technical occupations	8,120	1.7	\$29.07	\$60,470
Dietitians and nutritionists	40	1.2	27.32	56,820
Pharmacists	230	1.3	55.59	115,630
Family and general practitioners	430	6.5	35.17	73,150
Physicians and surgeons, all other	300	1.5	87.17	181,320
Physician assistants	50	1.0	38.01	79,060
Registered nurses*	3,150	1.8	27.35	56,890
Occupational therapists	90	1.3	31.58	65,680
Physical therapists	160	1.4	32.64	67,890
Respiratory therapists	170	2.4	24.14	50,210
Speech-language pathologists	90	1.1	27.95	58,130
Veterinarians	40	1.0	32.76	68,130
Medical and clinical laboratory technologists	280	2.6	25.76	53,570
Medical and clinical laboratory technicians	240	2.4	14.69	30,550
Dental hygienists	80	0.7	34.00	70,730
Cardiovascular technologists and technicians	[5]	[5]	20.37	42,360
Diagnostic medical sonographers	40	1.3	28.66	59,610
Radiologic technologists and technicians*	250	1.7	23.79	49,480
Pharmacy technicians	440	2.0	12.33	25,650
Surgical technologists	100	1.6	18.31	38,080
Veterinary technologists and technicians	130	2.6	17.97	37,370
Licensed practical and licensed vocational nurses	700	1.5	18.12	37,700
Medical records and health information technicians	210	1.8	16.17	33,630
Health technologists and technicians, all other*	160	2.3	17.46	36,330
Occupational health and safety specialists	40	1.0	30.64	63,730
Healthcare practitioners and technical workers, all other*	110	3.0	26.84	55,820

[1] For a complete listing of all detailed occupations in Columbia, Mo., see www.bls.gov/oes/current/oes_17860.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.

* Occupation titles followed by an asterisk (*) have similar titles, but not necessarily the same content as 2010 SOC occupations.