Springfield, MO National Compensation Survey September 1998



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August 1999

Bulletin 3095-29

Springfield, MO Metropolitan Statistical Area



Preface

This bulletin provides results of a September 1998 surropolitan Statistical Area (MSA). Data shown in this bulletin were collected as part of the Bureau of Labor Statistics' (BLS) new program known as the National Compensation Survey (NCS).

The survey could not have been conducted without the cooperation of the many private firms and government jurisdictions that provided pay data included in this bulletin. The Bureau thanks these respondents for their cooperation.

Survey data were collected and reviewed by Bureau of Labor Statistics field economists under the direction of Stan Suchman, Assistant Regional Commissioner for Operations of the Kansas City Regional Office. The Office of Compensation and Working Conditions, in cooperation with the Office of Field Operations and the Office of Technology and Survey Processing in the BLS National Office, designed the survey, processed the data, and analyzed the survey results. For additional information regarding this survey, please contact the BLS Kansas City Regional Office at (816) 426-2481. You may also write to the Bureau of Labor Statistics at: Division of Compensation Data Analysis and Planning, 2 Massachusetts Avenue, NE, Room 4175, Washington, DC 20212-0001, or call (202) 606-6220, or send e-mail to ocltinfo@bls.gov.

The data contained in this bulletin are also available at the BLS Internet site (http://stats.bls.gov/comhome.htm). Data are in three formats: an ASCII file containing the published table formats; an ASCII file containing positional columns of data for manipulation as a data base or spreadsheet; and a Portable Document Format (PDF) file containing the entire bulletin.

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Introduction

This survey of occupational pay was conducted in the Springfield, MO, Metropolitan Statistical Area (MSA). The MSA includes Christian, Greene, and Webster Counties.

This bulletin consists primarily of tables whose data are analyzed in the initial textual section. Tabulations provide information on earnings of workers in a variety of occupations and at a wide range of work levels. Also contained in this bulletin is information on the program, a technical note describing survey procedures, and several appendixes with detailed information on occupational classifications and the generic leveling methodology.

NCS design and products

The Bureau of Labor Statistics' (BLS) new National Compensation Survey (NCS) is designed to provide data on the levels and rates of change of occupational wages and employee benefits for localities, broad geographic regions, and the nation as a whole. One output of the NCS will be the Employment Cost Index, a quarterly measure of the change in employer costs for wages and benefits. This bulletin is limited to data on wages and salaries. These data are similar to those released under the Occupational Compensation Survey (OCS), which has been discontinued.

NCS more extensive than OCS

The wage data in this bulletin differ from those in previous Occupational Compensation Surveys by providing broader coverage of occupations and establishments within the survey area.

Occupations surveyed for this bulletin were selected using probability techniques from a list of all those present in each establishment. Previous OCS bulletins were limited to a preselected list of occupations, which represented a small subset of all occupations in the economy. Information in the new bulletin is published for a variety of occupation-based data. This new approach includes data on broad occupational classifications such as white-collar workers, major occupational groups such as sales workers, and individual occupations such as cashiers.

In tables containing work levels within occupational series, the work levels are derived from generic standards that *apply to all* occupational groups. The job levels in the OCS bulletins were based on narrowly-defined descriptions that were not comparable across specific occupations.

Occupational data in this bulletin are also tabulated for other classifications such as industry group, full-time versus part-time workers, union versus nonunion status, time versus incentive status, and establishment employment size. Not all of these series were generated by the OCS program.

The establishments surveyed for this bulletin were limited to those with 50 or more employees. Eventually, NCS will be expanded to cover those now-excluded establishments. Then, virtually all workers in the civilian economy will be surveyed, excluding only agriculture, private households, and employees of the Federal government.

Wages in the Springfield, MO Metropolitan Statistical Area

S traight-time wages in the Springfield, MO, Metropolitan Statistical Area averaged \$12.53 per hour during September 1998. White-collar workers had an average wage of \$14.82 per hour. Blue-collar workers averaged \$11.32 per hour, while service workers had average earnings of \$7.89 per hour. (All hourly rates in this summary cover both full-and part-time workers, unless otherwise noted.)



Within each of these occupational groups, average hourly wages for individual occupations were estimated. For example, white-collar occupations included registered nurses at \$17.29 per hour, secretaries at \$10.10, and general office clerks at \$8.25. Among occupations in the bluecollar category, truck drivers averaged \$12.63 per hour while stock handlers and baggers averaged \$7.35. Finally, service occupations included janitors and cleaners at \$7.73 per hour and nursing aides, orderlies and attendants at \$7.84. Table A-1 presents earnings data for 62 detailed occupations; data for other detailed occupations surveyed could not be reported separately due to concerns about the confidentiality of survey respondents and the reliability of the data.

Survey results show that private industry workers in

Springfield, MO earned \$11.59 per hour, while surveyed State and local government workers averaged \$17.66. Table A-2 reports the average hourly rate for white-collar occupations as \$13.53 in private industry and \$19.49 in State and local government. Blue-collar occupations showed an average hourly rate of \$11.11 in private industry and \$14.71 in State and local government. Service occupations within private industry averaged \$7.05 per hour while those found in State and local government averaged \$12.25.



Table A-3 presents data for workers considered by the survey respondents to be either full-time or part-time. Average wages for full-time workers, all occupations, were \$13.17 per hour, compared with an average of \$7.34 per hour for part-time workers.

Data for specific work levels within major occupational groups are reported in table B-1. Occasionally, wage estimates for lower levels of work within major occupational groups are greater than estimates for higher levels. This can occur due to the mix of specific occupations (and industries) represented by the broad group as well as by the variability of the estimate. Some levels within a group may not be published because no workers were identified at that level or because there were not enough data to guarantee confidentiality and reliability.

Work levels for all major groups span several levels, with professional specialty occupations and executive, administrative, and managerial occupations typically starting and ending at higher work levels than the other groups. Published data for administrative support occupations, including clerical, ranged from level 1 to level 6. As illustrated in chart 3, the average hourly rate was \$7.36 for level 1, \$7.88 for level 3, \$11.86 for level 5 and \$12.18 for level 6.



Surveyed union workers had an average hourly rate of \$13.63, as reported in table C-1. Wages for nonunion workers averaged \$12.40. Time workers, whose wages were based solely on an hourly rate or a salary, averaged \$12.57 per hour. Incentive workers, whose wages were at least partially based on productivity payments, averaged \$11.78 per hour.

Table C-2 shows wage data for specific industry divisions within private industry. In the private sector, hourly wages averaged \$12.10 in all goods-producing industries and \$11.98 in manufacturing. Hourly wages averaged \$11.36 in all service-producing industries, \$13.18 in finance, insurance, and real estate, and \$11.89 in services. Data for other industry divisions did not meet publication criteria.

Table C-4 reports that a total of 78,730 workers were represented by the Springfield, MO survey. White-collar occupations included 39,178 workers, or 50 percent; bluecollar occupations included 24,865 workers, or 32 percent; and service occupations included 14,687 workers, or 19 percent.



Data are also presented in appendix table 1 on the number of establishments studied by industry group and employment size. The relative standard errors of published mean hourly earnings for all industries, private industry, and State and local government are available in appendix table 2. The average work levels for published occupational groups and selected occupations are presented in appendix table 3.

Table A-1. Hourly earnings¹ for selected occupations, all workers², all industries, Springfield, MO, September 1998

	All industries							
Occupation ³				Percentil	es			
	Mean	10	25	Median 50	75	90		
All occupations	\$12.53 12 70	\$6.08 6 15	\$7.50 7.80	\$10.45 10.76	\$15.36 15.53	\$21.89 22.12		
······								
White-collar occupations	14.82 15.72	6.50 7.11	8.13 8.80	11.87	19.28 20.39	26.37 26.92		
Professional specialty and technical occupations	19.25	10.00	12.58	17.92	22.79	28.58		
Protessional specialty occupations	21.54	11.89	16.07 20.80	19.74	24.32	29.29		
Mathematical and computer scientists	-	-	-	-	-	-		
Health related occupations	21.95	14 14	- 15 72	17 92	20 14	31 01		
Registered nurses	17.29	14.22	15.59	17.62	19.19	20.14		
Teachers, college and university	24.64	10.00	19.18	24.44	27.82	44.51		
Teachers, except college and university	22.11	15.69	18.48	21.54	26.19	29.87		
Elementary school teachers	23.18	17.31	19.08	22.48	27.15	30.05		
Secondary school teachers	24.80	18.56	20.78	23.90	29.01	31.41		
l eachers, special education	22.55	18.52	20.10	22.35	25.57	27.81		
Librarians, archivists, and curators	7.40	7.14	7.14	7.33	7.69	7.93		
Social scientists and urban planners	_	_	_	_	_	_		
Social, recreation, and religious workers	11.27	7.00	10.80	11.54	12.84	13.34		
Social workers	12.36	10.59	11.23	12.11	12.98	14.45		
Lawyers and judges	-	-	-	-	-	-		
Writers, authors, entertainers, athletes, and								
professionals, N.E.C.	18.24	8.65	11.89	19.77	22.79	28.73		
Clinical laboratory technologists and technicians	12.23	8.45	9.77	11.34	13.47	18.27		
Licensed practical purses	10.42	8.45	9.25	10.17	11 84	14 31		
Technical and related occupations. N.E.C.	13.00	10.00	10.00	11.24	16.13	18.93		
Executive, administrative, and managerial occupations	22.33	12.98	16.40	22.40	26.92	33.31		
Executives, administrators, and managers	25.36	15.59	20.19	23.99	28.53	38.97		
Financial managers	23.93	15.59	17.95	23.99	26.92	28.53		
Administrators, education and related fields	30.70	24.92	28.73	31.74	36.21	36.21		
Managers and administrators, N.E.C.	24.38	16.44	20.19	23.32	26.92	31.78		
Management related occupations NEC	18.28	10.00	12 74	16.55	23.00	21.20		
Sales occupations	10.20	5.81	6.44	8.09	12.25	18.44		
Supervisors, sales occupations	12.29	8.80	10.00	11.35	15.36	17.55		
Sales workers, hardware and building supplies	10.74	5.98	6.76	8.34	11.25	15.00		
Sales workers, other commodities	8.45	5.51	5.97	7.31	9.60	12.97		
Cashiers	6.21	5.50	5.59	6.09	6.50	7.08		
Administrative support occupations, including cierical	8.96	6.20	7.21	8.44	10.25	12.41		
Typists	9 19	7 80	8.02	8.75	9.26	12 20		
Receptionists	7.55	6.25	6.88	7.21	8.00	9.53		
Bookkeepers, accounting and auditing clerks	9.06	7.11	7.80	8.96	10.00	11.10		
Dispatchers	12.89	9.13	10.14	12.50	16.10	16.10		
Traffic, shipping and receiving clerks	8.35	6.08	6.08	7.23	11.61	13.20		
Stock and inventory clerks	9.17	6.42	6.78	8.27	10.78	14.42		
Investigators and adjusters except insurance	8.76	7.00	6.09	9.15	9.62	9.87		
Data entry kevers	8.90	6 25	6.93	8.32	9.55	13 59		
Teachers' aides	8.13	6.11	6.95	7.88	9.43	10.39		
Administrative support occupations, N.E.C	9.14	6.00	7.81	8.50	11.36	12.42		
Blue-collar occupations	11.32	6.45	8.38	11.00	13.64	16.35		
Precision production, craft, and repair occupations	13.88	8.38	10.00	13.79	16.50	18.90		
Bus, truck, and stationary engine mechanics	12.15	8.28	9.63	12.46	14.31	15.92		
Mechanics and repairers NEC	12.10	12.01	14.80	12 /7	10.39	16.50		
Supervisors production occupations	17 02	9.47 11 99	9.52	16 91	18 27	22 99		
Machine operators, assemblers, and inspectors	10.18	5.98	7.48	10.11	12.57	13.97		
Punching and stamping press operators	10.27	6.86	7.25	10.00	13.40	13.40		
Miscellaneous machine operators, N.E.C	10.51	6.39	8.38	10.51	13.64	13.94		
Welders and cutters	12.25	10.00	10.10	11.60	15.22	15.80		

			All in	dustries		
Occupation ³				Percenti	es	
	Mean	10	25	Median 50	75	90
Blue-collar occupations (-Continued) Machine operators, assemblers, and inspectors (-Continued) Assemblers Miscellaneous hand working occupations, N.E.C. Production inspectors, checkers and examiners Transportation and material moving occupations Truck drivers Bus drivers Industrial truck and tractor equipment operators Miscellaneous material moving equipment operators, N.E.C. Handlers, equipment cleaners, helpers, and laborers Groundskeepers and gardeners except farm Construction laborers Production helpers Stock handlers and baggers	\$10.15 8.75 8.43 12.43 12.63 14.87 11.58 13.03 9.46 10.24 12.25 7.92 7.35	\$7.23 5.40 5.75 8.23 8.26 10.43 7.25 8.78 5.50 5.15 9.73 5.25 5.50	\$8.93 5.40 5.75 9.48 9.92 10.43 8.89 8.78 6.62 6.18 10.72 6.25 5.50	\$10.00 8.00 7.29 11.85 11.85 14.90 10.60 13.54 9.00 11.50 12.90 8.38 6.25	\$12.45 11.59 11.67 15.40 15.00 16.55 15.40 17.12 11.95 13.69 14.03 9.00 8.26	\$12.60 11.84 14.42 16.91 16.87 16.55 15.40 17.12 13.25 13.69 14.58 11.05 11.65
Freight, stock, and material handlers, N.E.C Hand packers and packagers Laborers except construction, N.E.C	10.39 9.47 8.19	8.24 6.00 6.11	8.24 8.30 6.36	10.45 9.99 7.20	13.12 11.95 9.97	13.14 11.95 12.66
Service occupations Protective service occupations Police and detectives, public service Food service occupations Supervisors, food preparation and service	7.89 12.86 14.40 6.71	5.25 5.79 11.06 2.30	5.96 10.30 13.23 5.40	7.00 11.87 14.21 6.29	9.12 14.94 16.00 8.00	11.79 17.74 17.74 10.75
occupations Waiters and waitresses Cooks Kitchen workers, food preparation Waiters'/Waitresses' assistants Food preparation occupations, N.E.C. Health service occupations Nursing aides, orderlies and attendants Cleaning and building service occupations Supervisors, cleaning and building service workers Maids and housemen Janitors and cleaners Personal service occupations Service occupations	9.70 3.63 8.53 8.10 5.11 5.88 7.90 7.84 7.82 10.64 6.79 7.73 - 6.24	7.08 2.13 6.29 5.65 3.50 5.15 6.26 6.24 5.50 8.02 5.50 5.50 5.50 5.50	7.75 2.13 6.90 6.39 4.61 5.28 6.89 6.74 6.05 8.40 6.05 5.99 - 5.25	9.00 2.27 8.16 7.75 4.80 5.70 7.25 7.25 6.88 10.61 6.49 7.00 - 5.50	11.53 6.36 9.40 9.74 6.05 6.25 8.86 8.45 9.97 12.47 6.85 9.97 - - 7.24	13.00 6.70 12.23 11.50 6.25 6.95 9.53 9.97 11.07 13.75 8.65 10.11 - - 7.24

Table A-1. Hourly earnings¹ for selected occupations, all workers², all industries, Springfield, MO, September 1998 — Continued

¹ Earnings are the straight-time hourly wages or salaries paid to employees. They include incentive pay, cost-of-living adjustments, and hazard pay. Excluded are premium pay for overtime, vacations, holidays, nonproduction bonuses, and tips. The mean is computed by totaling the pay of all workers and dividing the paymout of workers woighted by bours. The 10th dividing by the number of workers, weighted by hours. The 10th, 25th, 50th, 75th and 90th percentiles designate position in the earnings distribution. At the 50th percentile, the median, half of the workers receive the same as or more than the rate shown, and half receive the same as or less than the rate shown. At the 25th percentile, one-fourth of the workers earn the same as or less than the rate shown. At the 75th percentile, one-fourth earn the same as or more than the rate shown. The 10th and 90th

percentiles follow the same logic. 2 All workers include full-time and part-time workers. Employees are classified as working either a full-time or a part-time schedule based on the definition used by each establishment. Therefore, a worker with a 35-hour-per-week schedule might be considered a full-time employee in one establishment, but classified as part-time in another firm, where a 40-hour week is the minimum full-time schedule. 3 A classification system including about 480 individual occupations is used to cover all workers in the civilian economy.

Individual occupations are classified into one of nine major occupational groups.

NOTE: Dashes indicate that no data were reported or that data did not meet publication criteria. Overall occupational groups and occupational levels may include data for categories not shown separately. N.E.C. means "not elsewhere classified."

NOTE: Individual and average wage rates were collected in this update survey. A procedure was put into place to "move" the positional statistics where averages were collected. This procedure compares current locality survey data-at the quote to the procedure to find the distribution of the procedure to the procedure to the procedure of the proc level-with the same quote from the prior survey. Individual rates from the prior survey are moved by the average change in mean wages for the occupation.

Table A-2. Hourly earnings¹ for selected occupations, all workers², private industry and State and local government, Springfield, MO, September 1998

	Private industry					State and local government						
Occupation ³				Percentil	es				F	Percentile	s	
	Mean	10	25	Median 50	75	90	Mean	10	25	Median 50	75	90
All occupations All occupations excluding sales	\$11.59 11.69	\$6.00 6.00	\$7.21 7.30	\$9.90 10.00	\$13.64 13.75	\$19.19 19.19	\$17.66 17.66	\$8.74 8.74	\$11.07 11.07	\$16.24 16.24	\$23.15 23.15	\$28.64 28.64
White-collar occupations White-collar occupations excluding sales	13.53 14.36	6.41 6.89	7.75 8.27	10.76 11.54	16.88 18.22	24.03 24.15	19.49 19.49	8.74 8.74	11.92 11.92	18.71 18.71	24.47 24.47	30.11 30.11
Professional specialty and technical occupations Professional specialty occupations Engineers, architects, and surveyors Mathematical and computer scientists	17.71 21.06 22.34	8.87 11.89 17.63	11.54 15.08 20.80 _	15.73 18.31 22.28	19.96 21.33 24.32 –	24.70 28.73 24.73	21.82 22.06 _	12.11 11.87 _	16.93 17.31 _	22.21 22.54 _	26.78 26.78 -	29.69 29.83 _
Natural scientists Health related occupations Registered nurses Teachers, college and university	- 22.16 17.32 -	_ 14.14 14.28 _	_ 15.81 15.69 _	- 18.07 17.69 -	_ 20.14 19.19 _	_ 31.91 20.14 _	- - -	- - -	- - -	- - -	- - -	- - -
Teachers, except college and university Elementary school teachers Secondary school teachers Teachers, special education Substitute teachers	- - -		- - - -	- - - -	- - - -	- - - -	22.17 23.18 24.80 22.55 7.48	15.69 17.31 18.56 18.52 7.14	18.37 19.08 20.78 20.10 7.14	21.77 22.48 23.90 22.35 7.33	26.43 27.15 29.01 25.57 7.69	29.99 30.05 31.41 27.81 7.93
Librarians, archivists, and curators Social scientists and urban planners Social, recreation, and religious workers Lawyers and judges Writers, authors, entertainers, athletes,	- - -		- - -	- - -	- - - -	- - - -	- - -	- - -	- - - -	- - - -	- - -	- - -
and professionals, N.E.C Technical occupations Clinical laboratory technologists and	_ 12.08	- 8.45	_ 9.63	_ 11.24	_ 13.19	_ 18.29	_ 14.96	_ 12.35	_ 12.57	_ 13.84	_ 16.67	_ 18.05
technicians Licensed practical nurses Technical and related occupations,	13.42 10.60	7.10 8.45	7.91 9.20	12.45 10.14	18.51 11.49	21.88 14.31		_	-	-		-
N.E.C Executive, administrative, and managerial occupations	12.99 21.35	10.00 12.02	10.00 16.15	11.24 21.40	16.38 26.60	18.93 29.45	- 25.69	- 14.45	- 16.67	- 23.85	- 33.71	- 39.62
Executives, administrators, and managers Financial managers	23.68 23.92	14.42 15.59	19.71 17.95	23.32 26.92	26.92 26.92	35.89 35.89	31.34	22.78	23.99	29.50	39.62	43.90
Administrators, education and related fields Managers and administrators, N.E.C. Management related occupations	_ 24.58 18.66	_ 16.44 10.82	_ 20.19 12.98	_ 24.43 17.16	_ 27.91 23.66	_ 31.78 25.63	30.53 - 19.61	25.24 _ 14.45	28.73 - 14.45	29.56 _ 16.67	32.56 23.85	37.52
N.E.C	18.31 10.76 12.29	10.88 5.81 8.80	12.74 6.44 10.00	16.56 8.09 11.35	24.03 12.25 15.36	24.73 18.44 17.55		- - -	- - -	- - -	- - -	- - -
Sales workers, other commodities Cashiers Administrative support occupations, including	10.74 8.45 6.21	5.98 5.51 5.50	6.76 5.97 5.59	8.34 7.31 6.09	11.25 9.60 6.50	15.00 12.97 7.08	- - -	- - -	- - -	- - -	- - -	- - -
clerical Secretaries Receptionists Bookkeepers, accounting and auditing	8.79 9.35 7.55	6.15 6.18 6.25	7.07 6.42 6.88	8.19 8.98 7.21	10.00 11.54 8.00	12.26 14.42 9.53	9.87 10.96 -	6.91 8.74 -	8.02 8.74 -	9.10 11.30 -	11.47 13.84 -	13.84 13.84 –
clerks Traffic, shipping and receiving clerks Stock and inventory clerks Investigators and adjusters except	9.04 8.35 8.49	7.11 6.08 6.42	7.80 6.08 6.78	8.96 7.23 8.20	10.00 11.61 9.39	11.10 13.20 10.78		- - -	- - -	- - -	- - -	- - -
insurance Data entry keyers Teachers' aides Administrative support occupations,	8.76 8.90 -	7.00 6.25 -	7.81 6.93 –	9.15 8.32 -	9.62 11.05 -	9.87 13.59 –	- - 8.13	- - 6.11	- - 6.95	- - 7.88	- - 9.43	- - 10.39
N.E.CBlue-collar occupations	9.13 11.11	6.00 6.33	7.81 8.30	8.50 10.75	11.36 13.40	12.42 15.80	- 14.71	- 9.90	- 10.81	- 14.82	- 17.72	- 20.87

Table A-2. Hourly earnings¹ for selected occupations, all workers², private industry and State and local government, Springfield, MO, September 1998 — Continued

			Private	e industry	,			State	e and loc	al govern	ment	
Occupation ³				Percentil	es				F	Percentile	S	
	Mean	10	25	Median 50	75	90	Mean	10	25	Median 50	75	90
Blue-collar occupations (-Continued) Precision production, craft, and repair occupations	\$13.43	\$8.38	\$9.83	\$12.89	\$15.93	\$18.27	\$17.28	\$13.06	\$15.92	\$16.78	\$18.58	\$21.14
Industrial machinery repairers	15.16	12.01	14.80	15.61	16.39	16.50	-	-	-	-	-	· –
Mechanics and repairers, N.E.C.	11.17	9.20	9.47	12.27	12.89	12.89	-	-	-	-	-	-
Supervisors, production occupations Machine operators, assemblers, and	17.02	11.99	15.61	16.91	18.27	22.99	-	-	-	-	-	-
inspectors	10.18	5.98	7.48	10.11	12.57	13.97	-	-	-	-	-	-
Punching and stamping press	40.07	0.00	7.05	10.00	10.10	40.40						
operators Miscellaneous machine operators.	10.27	6.86	7.25	10.00	13.40	13.40	-	_	-	-	_	_
N.E.C	10.51	6.39	8.38	10.51	13.64	13.94	-	-	-	-	-	-
Welders and cutters	12.25	10.00	10.10	11.60	15.22	15.80	-	-	-	-	-	-
Assemblers	10.15	7.23	8.93	10.00	12.45	12.60	-	-	-	-	-	-
Miscellaneous hand working occupations, N.E.C.	8.75	5.40	5.40	8.00	11.59	11.84	_	_	_	_	_	_
Production inspectors, checkers and												
examiners	8.43	5.75	5.75	7.29	11.67	14.42	-	-	-	-	-	-
	12 49	8 26	9 39	11.85	15 40	17 12	11 48	8.00	10.43	10.43	11 21	12 43
Truck drivers	12.43	8.34	10.02	11.96	15.40	16.90	_	- 0.00	-	-	_	-
Bus drivers	-	-	-	_	-	-	13.61	10.43	10.43	10.43	12.30	26.90
Industrial truck and tractor equipment												
operators	11.58	7.25	8.89	10.60	15.40	15.40	-	-	-	-	-	-
equipment operators. N.E.C.	13.03	8 78	8 78	13 54	17 12	17 12	_	_	l _	_	_	_
Handlers, equipment cleaners, helpers, and	10.00	0.70	0.70	10.04	17.12	17.12						
laborers	9.16	5.50	6.50	8.75	11.74	13.14	12.62	9.75	10.38	12.44	13.69	17.72
Construction laborers	-	-	-	-	-	-	10.41	9.70	9.78	10.59	11.21	11.47
Production helpers	7.92	5.25	6.25	8.38	9.00	11.05	-	-	-	-	-	-
Freight stock and material handlers	7.55	5.50	5.50	0.25	0.20	11.05	_	_	-	-	_	_
N.E.C.	10.39	8.24	8.24	10.45	13.12	13.14	_	_	_	_	_	_
Hand packers and packagers	9.47	6.00	8.30	9.99	11.95	11.95	-	-	-	-	_	_
Laborers except construction, N.E.C.	7.90	6.11	6.11	6.94	8.50	12.66	-	-	-	-	-	-
Service occupations	7.05	5.15	5.75	6.73	8.18	9.90	12.25	8.14	9.97	11.07	14.21	17.43
Protective service occupations	-	-	-	-	-	-	14.50	10.35	11.43	13.49	15.53	17.98
Police and detectives, public service	-	-	-	-	-	-	14.40	11.06	13.23	14.21	16.00	17.74
Food service occupations	6.58	2.30	5.37	6.25	7.75	10.75	9.16	6.59	7.50	9.48	10.75	11.05
Supervisors, food preparation and	0.70	7.00	7 75	0.00	44.50	40.00						
Service occupations	9.70	7.08	2 12	9.00	11.53	670		_	-	_	_	_
Cooks	8.54	6 29	6 90	8 16	9 40	12 51	8.37	6.23	6.59	8 25	8.86	12 02
Kitchen workers, food preparation	7.68	5.65	6.18	6.99	8.46	11.50						_
Waiters'/Waitresses' assistants	5.11	3.50	4.61	4.80	6.05	6.25	-	_	-	-	_	_
Food preparation occupations, N.E.C.	5.88	5.15	5.28	5.70	6.25	6.95	-	-	-	-	-	-
							1	1	1	1		

Table A-2. Hourly earnings¹ for selected occupations, all workers², private industry and State and local government, Springfield, MO, September 1998 — Continued

		Private industry						State	e and loc	al govern	ment	
Occupation ³	Percentiles							Percentiles				
	Mean	10	25	Median 50	75	90	Mean	10	25	Median 50	75	90
Service occupations (-Continued) Health service occupations	\$7.90	\$6.26	\$6.85	\$7.53	\$8.86	\$9.62	-	-	-	-	-	-
attendants Cleaning and building service	7.84	6.24	6.74	7.25	8.45	9.97	-	-	-	-	-	-
occupations	7.17 6.79	5.50 5.50	5.96 6.05	6.56 6.49	7.76 6.85	9.90 8.65	\$10.26 -	\$9.97 —	\$9.97 -	\$10.11 -	\$11.07 -	\$11.07
Janitors and cleaners Personal service occupations	6.59 -	5.50 -	5.67 -	6.30 -	7.11 -	8.50 -	-	-				

¹ Earnings are the straight-time hourly wages or salaries paid to employees. They include incentive pay, cost-of-living adjustments, and hazard pay. Excluded are premium pay for overtime, vacations, holidays, nonproduction bonuses, and tips. The mean is computed by totaling the pay of all workers and dividing by the number of workers, weighted by hours. The 10th, 25th, 50th, 75th and 90th percentiles designate position in the earnings distribution. At the 50th percentile, the median, half of the workers receive the same as or more than the rate shown, and half receive the same as or less than the rate shown. At the 25th percentile, one-fourth of the workers earn the same as or less than the rate shown. At the 75th percentile, one-fourth earn the same as or more than the rate shown. The 10th and 90th percentiles follow the same logic. ² All workers include full-time and part-time workers. Employees are classified as

another firm, where a 40-hour week is the minimum full-time schedule. $^3\,$ A classification system including about 480 individual occupations is used to cover all workers in the civilian economy. Individual occupations are classified into one of nine major occupational groups.

NOTE: Dashes indicate that no data were reported or that data did not meet publication criteria. Overall occupational groups and occupational levels may include data for categories not shown separately. N.E.C. means "not elsewhere classified."

NOTE: Individual and average wage rates were collected in this update survey. A procedure was put into place to "move" the positional statistics where averages were collected. This procedure compares current locality survey data-at the quote level-with the same quote from the prior survey. Individual rates from the prior survey are moved by the average change in mean wages for the occupation.

working either a full-time or a part-time schedule based on the definition used by each establishment. Therefore, a worker with a 35-hour-per-week schedule might be considered a full-time employee in one establishment, but classified as part-time in

Table A-3. Hourly earnings¹ for selected occupations, full-time and part-time workers², all industries, Springfield, MO, September 1998

	All industries											
			Fu	Il-time					Part	-time		
Occupation ³				Percentil	es				F	Percentile	S	
	Mean	10	25	Median 50	75	90	Mean	10	25	Median 50	75	90
All occupations All occupations excluding sales	\$13.17 13.28	\$6.52 6.63	\$8.23 8.38	\$11.30 11.47	\$15.80 15.90	\$22.88 22.79	\$7.34 7.48	\$5.24 5.15	\$5.51 5.50	\$6.20 6.22	\$8.02 8.03	\$10.39 10.75
White-collar occupations White-collar occupations excluding sales	15.46 16.11	7.00 7.30	8.74 9.20	12.50 13.46	20.19 20.80	26.85 26.92	8.50 9.90	5.70 5.70	5.98 6.18	6.87 7.69	8.41 10.39	14.29 17.46
Professional specialty and technical occupations Professional specialty occupations Engineers, architects, and surveyors Mathematical and computer scientists	19.40 21.68 22.34 -	10.00 11.89 17.63 –	12.70 16.13 20.80 –	18.05 19.77 22.28 –	23.03 24.32 24.32 –	28.58 29.23 24.73 -	16.00 18.35 - -	7.26 8.57 - -	10.00 13.68 - -	14.93 17.19 – –	18.75 20.16 _ _	31.91 31.91 – –
Natural scientists Health related occupations Registered nurses Teachers, college and university Teachers, except college and university Elementary school teachers Secondary school teachers Teachers, special education	- 22.00 17.28 25.18 22.33 23.18 24.80 22.55	- 14.10 14.15 10.00 15.69 17.31 18.56 18.52	- 15.69 15.59 19.18 18.53 19.08 20.78 20.10	- 17.86 17.65 25.54 21.65 22.48 23.90 22.35	- 19.90 19.19 27.82 26.26 27.15 29.01 25.57	- 29.23 20.14 44.51 29.99 30.05 31.41 27.81	- - 9.36 - -	- - 7.14 - -	- - - 7.14 - - -	- - - 7.33 - - -	- - - 7.93 - - -	- - - 8.57 - -
Substitute teachers Librarians, archivists, and curators Social scientists and urban planners Social, recreation, and religious workers Social workers	- - 11.15 12.28	- - 7.00 10.59	- - 10.59 11.00	- - 11.54 11.87	- - 12.34 13.07	- - 13.60 14.74	7.48 - - - -	7.14 - - -	7.14 - - - -	7.33 - - - -	7.69 - -	7.93 - - - -
Lawyers and judges Writers, authors, entertainers, athletes, and professionals, N.E.C. Technical occupations Clinical laboratory technologists and	- 18.24 12.36	- 8.65 8.45	- 11.89 9.79	- 19.77 11.43	- 22.79 13.73	- 28.73 18.29	- - -		- - -		- - -	- - -
Licensed practical nurses	13.42 10.77	7.10 8.45	7.91 9.25	12.45 10.17	18.51 11.84	21.88 14.31	_ _	_ _	- -		_	- -
occupations Executives, administrators, and managers	22.33 25.36	12.98 15.59	16.40 20.19	22.40 23.99	26.92 28.53	33.31 38.97	-	-	-	-	_	-
Financial managers Administrators, education and related fields Managers and administrators, N.E.C. Management related occupations	23.93 30.70 24.38 18.88	15.59 24.92 16.44 10.88	17.95 28.73 20.19 14.45	23.99 31.74 23.32 16.83	26.92 36.21 26.92 23.66	28.53 36.21 31.78 27.20	- - -		- - -		- - -	- - -
N.E.C. Sales occupations Supervisors, sales occupations Sales workers, hardware and building	18.28 11.91 12.29	10.88 6.15 8.80	12.74 7.00 10.00	16.56 9.15 11.35	24.03 14.17 15.36	24.73 25.03 17.55	- 6.70 -	- 5.50 -	– 5.75 –	- 6.10 -	_ 7.63 _	- 8.21 -
supplies Sales workers, other commodities Cashiers Administrative support occupations, including	11.29 - 6.44	5.98 - 5.50	7.16 - 6.00	9.26 - 6.39	11.25 - 6.60	15.00 - 7.25	- 6.79 5.99	- 5.51 5.25	- 5.75 5.50	- 6.02 5.84	- 6.85 6.30	- 9.02 6.76
clerical Secretaries Typists Receptionists	9.17 10.30 9.19 7.86	6.50 6.42 7.80 7.21	7.30 8.74 8.02 7.21	8.74 10.12 8.75 8.00	10.56 13.50 9.26 8.00	12.50 13.84 12.20 9.53	7.29 - - -	5.70 - - -	6.00 - - -	6.75 - - -	8.35 - - -	9.30 - - -
clerks	9.14 8.35 9.71	7.11 6.08 6.78	7.80 6.08 7.22	9.08 7.23 8.92	10.20 11.61 10.78	11.30 13.20 14.42	- - -	- - -	- - -	- - -	- - -	- - -
insurance General office clerks Data entry keyers Teachers' aides	8.85 8.30 8.90 7.11	7.02 6.64 6.25 5.67	8.05 7.13 6.93 6.39	9.15 7.93 8.32 6.98	9.62 9.35 11.05 7.84	9.87 10.47 13.59 8.68	- - -	- - -	- - -	- - -	- - -	- - -
Administrative support occupations, N.E.C.	9.67	7.81	7.82	9.44	11.36	12.42	-	-	-	-	-	-

Table A-3. Hourly earnings¹ for selected occupations, full-time and part-time workers², all industries, Springfield, MO, September 1998 — Continued

	All industries											
			Fu	ll-time					Part	-time		
Occupation ³			Percer			Percentiles			Percentiles			
	Mean	10	25	Median 50	75	90	Mean	10	25	Median 50	75	90
Blue-collar occupations	\$11.52	\$6.63	\$8.58	\$11.21	\$13.94	\$16.43	\$7.79	\$5.25	\$5.50	\$6.50	\$9.80	\$12.03
occupations	13.88	8.38	10.00	13.75	16.50	18.90	_	-	_	_	_	_
Bus, truck, and stationary engine												
mechanics	12.15	8.28	9.63	12.46	14.31	15.92	-	-	-	-	-	-
Industrial machinery repairers	15.16	12.01	14.80	15.61	16.39	16.50	-	-	-	-	-	-
Mechanics and repairers, N.E.C.	12.26	9.47	9.52	12.47	12.89	16.78	-	-	-	-	-	-
Supervisors, production occupations	17.02	11.99	15.61	16.91	18.27	22.99	-	-	-	-	-	-
Machine operators, assemblers, and	10.10	0.00	7.40		40.00	40.07						
inspectors	10.19	6.03	7.48	10.11	12.60	13.97	-	-	-	-	-	-
Punching and stamping press	10.07	6.06	7.05	10.00	12.40	12.40						
Miscellanoous machino operators	10.27	0.00	7.25	10.00	13.40	13.40	-	_	-	-	_	_
N E C	10.30	6 33	8 25	10.25	13.64	13.0/	_	_	_	_	_	_
Welders and cutters	12 25	10.00	10.20	11 60	15.04	15.80						
Assemblers	10.15	7 23	8 03	10.00	12.22	12.60						
Miscollanoous hand working	10.15	1.25	0.95	10.00	12.45	12.00	_	_	-	-	_	-
occupations NEC	8 75	5 40	5 40	8.00	11 59	11 84	_	_	_	_	_	_
Transportation and material moving	0.70	0.10	0.10	0.00	11.00	11.01						
occupations	12.40	8.23	9.38	11.85	15.40	16.91	_	_	_	_	_	_
Truck drivers	12.63	8.26	9.91	11.85	15.00	16.87	_	-	_	_	_	_
Industrial truck and tractor equipment												
operators	11.58	7.25	8.89	10.60	15.40	15.40	-	-	-	-	-	-
Miscellaneous material moving												
equipment operators, N.E.C.	13.03	8.78	8.78	13.54	17.12	17.12	-	-	-	-	-	-
Handlers, equipment cleaners, helpers, and												
laborers	10.02	6.15	8.00	9.99	12.11	13.50	6.89	5.25	5.50	6.00	8.20	10.01
Construction laborers	12.29	9.75	10.72	12.90	14.03	14.58	-	-	-	-	-	-
Production helpers	8.22	5.40	6.30	8.53	9.00	11.05	-	-	-	-	-	-
Stock handlers and baggers	9.04	5.97	7.36	8.44	11.65	11.65	-	-	-	-	-	-
Freight, stock, and material handlers,												
N.E.C	10.39	8.24	8.24	10.45	13.12	13.14	-	-	-	-	-	-
Hand packers and packagers	9.75	7.43	8.30	9.99	11.95	11.95	-	-	-	-	-	-
Laborers except construction, N.E.C.	8.26	6.11	6.36	7.18	10.10	12.66	-	-	-	-	-	-
Service occupations	8.66	5.73	6.50	7.79	10.11	13.00	6.02	4.00	5.35	5.75	6.90	8.02
Protective service occupations	13.98	9.55	10.93	13.23	15.10	17.98	6.23	5.25	5.50	5.75	6.15	7.00
Police and detectives, public service	14.40	11.06	13.23	14.21	16.00	17.74	-	-	-	-	-	-
Food service occupations	7.52	4.80	6.05	6.95	8.88	11.53	5.49	2.13	5.15	5.51	6.15	7.50
Supervisors, food preparation and												
service occupations	10.03	7.08	7.75	10.75	11.53	13.00	_	-	-	-	-	-
Waiters and waitresses	-	-	_	-	-	-	4.01	2.13	2.13	2.30	6.36	6.36
Cooks	8.55	6.29	6.90	8.25	9.40	12.30	-	-	-	-	-	-
Kitchen workers, food preparation	-	-	-	-	-	-	7.96	5.37	5.65	7.25	9.86	10.75
Waiters'/Waitresses' assistants	-	-	-	-	-	-	4.74	3.13	4.61	4.61	5.51	5.80
Food preparation occupations, N.E.C.	6.15	5.25	5.65	6.20	6.50	7.25	5.59	5.15	5.25	5.38	5.75	6.25
	1			1		1						

Table A-3. Hourly earnings¹ for selected occupations, full-time and part-time workers², all industries, Springfield, MO, September 1998 — Continued

	All industries											
			Fu	ll-time			Part-time					
Occupation ³		Percentiles							Percentiles			
	Mean	10	25	Median 50	75	90	Mean	10	25	Median 50	75	90
Service occupations (-Continued) Health service occupations Nursing aides, orderlies and	\$8.11	\$6.30	\$7.00	\$7.79	\$8.86	\$9.90	\$7.16	\$5.94	\$6.56	\$6.97	\$7.77	\$8.49
attendants	8.12	6.30	6.83	7.44	9.08	10.72	7.10	5.91	6.49	6.90	7.77	8.53
occupations Janitors and cleaners Personal service occupations	7.94 7.91 -	5.67 5.57 -	6.11 6.09 -	7.00 7.41 -	9.97 9.97 -	11.07 10.11 -	6.92 - -	5.50 - -	5.50 - -	6.00 - -	7.50 - -	12.47 _ _

¹ Earnings are the straight-time hourly wages or salaries paid to employees. They include incentive pay, cost-of-living adjustments, and hazard pay. Excluded are premium include incentive pay, cost-of-living adjustments, and hazard pay. Excluded are premium pay for overtime, vacations, holidays, nonproduction bonuses, and tips. The mean is computed by totaling the pay of all workers and dividing by the number of workers, weighted by hours. The 10th, 25th, 50th, 75th and 90th percentiles designate position in the earnings distribution. At the 50th percentile, the median, half of the workers receive the same as or more than the rate shown, and half receive the same as or less than the rate shown. At the 25th percentile, one-fourth of the workers earn the same as or less than the rate shown. At the 75th percentile, one-fourth earn the same as or more than the rate shown. The 10th and 90th percentiles follow the same logic. ² Employees are classified as working either a full-time or a part-time schedule based on the definition used by each establishment. Therefore, a worker with a

on the definition used by each establishment. Therefore, a worker with a 35-hour-per-week schedule might be considered a full-time employee in one establishment, but classified as part-time in another firm, where a 40-hour week is the

minimum full-time schedule. ³ A classification system including about 480 individual occupations is used to cover the triated excupations are classified into one of nine all workers in the civilian economy. Individual occupations are classified into one of nine major occupational groups.

NOTE: Dashes indicate that no data were reported or that data did not meet publication criteria. Overall occupational groups and occupational levels may include data for categories not shown separately. N.E.C. means "not elsewhere classified."

NOTE: Individual and average wage rates were collected in this update survey. A procedure was put into place to "move" the positional statistics where averages were collected. This procedure compares current locality survey data-at the quote level-with the same quote from the prior survey. Individual rates from the prior survey are moved by the average change in mean wages for the occupation.

Table A-4. Weekly and annual earnings¹ and hours for selected occupations, full-time workers only², all industries, Springfield, MO, September 1998

	All industries						
Occupation ³	Mean	Weekly	earnings	Mean	Annual	earnings	
	hours ⁴	Mean	Median	hours	Mean	Median	
All occupations All occupations excluding sales	39.9 39.9	\$525 530	\$452 459	2,013 2,009	\$26,506 26,671	\$23,480 23,774	
White-collar occupations White-collar occupations excluding sales	39.8 39.8	615 641	497 538	1,977 1,962	30,554 31,606	25,610 27,312	
Professional specialty and technical occupations Professional specialty occupations Engineers, architects, and surveyors Mathematical and computer scientists Natural scientists	39.4 39.2 43.0 –	764 851 961 –	705 769 966 	1,835 1,772 2,236 –	35,615 38,417 49,955 –	32,635 34,951 50,232 –	
Health related occupations Registered nurses Teachers, college and university Teachers, except college and university Elementary school teachers	40.4 39.9 39.7 37.0 36.8	888 690 1,000 827 852	714 706 1,022 813 834	2,092 2,074 1,595 1,425 1,366	46,030 35,842 40,172 31,824 31,670	37,153 36,691 39,894 30,758 30,830	
Secondary school teachers	36.5 36.5 - - 40.0	906 824 - - 446	883 818 - - 462	1,351 1,355 - - 2,080	33,499 30,566 - - 23,185	32,458 30,461 - - 24,003	
Social workers Lawyers and judges Writers, authors, entertainers, athletes, and	40.0	491	475	2,080	25,545	24,690	
Professionals, N.E.C. Technical occupations Clinical laboratory technologists and technicians Licensed practical nurses	40.0 39.8 40.0 39.8	729 492 537 428	791 457 498 407	2,080 2,065 2,080 2,059	37,933 25,522 27,910 22,173	41,122 23,590 25,896 21,155	
Executive, administrative, and managerial occupations Executives, administrators, and managers Financial managers Administrators, education and related fields	41.1 41.9 42.6 39.0	917 1,062 1,019 1,199	918 1,047 960 1,190	2,117 2,140 2,215 1,809	47,265 54,267 53,001 55,541	47,129 52,604 49,899 52,570	
Managers and administrators, N.E.C. Management related occupations Management related occupations, N.E.C. Sales occupations	43.3 40.2 39.3 39.8	1,057 759 719 474	1,047 679 658 352	2,246 2,091 2,045 2,061	54,755 39,482 37,395 24,541	54,425 35,293 34,200 18,304	
Supervisors, sales occupations Sales workers, hardware and building supplies Cashiers Administrative support occupations, including clerical	41.6 40.0 39.8 39.7	511 452 256 364	454 370 256 350	2,163 2,080 1,987 2,051	26,573 23,483 12,800 18,813	23,608 19,261 13,012 18,054	
Secretaries Typists Receptionists Bookkeepers, accounting and auditing clerks	39.9 40.0 40.0 39.8	411 368 315 364	405 350 320 363	2,056 2,080 2,080 2,068	21,177 19,112 16,356 18,905	20,426 18,200 16,640 18,886	
Traffic, shipping and receiving clerks Stock and inventory clerks Investigators and adjusters except insurance General office clerks Data entry keyers Tract entry severs	40.3 40.0 40.0 39.8 40.0	337 389 354 330 356	284 357 366 317 333	2,097 2,080 2,080 2,067 2,080	17,504 20,202 18,405 17,150 18,511	14,791 18,555 19,032 16,494 17,306	
Administrative support occupations, N.E.C.	40.0	255 387	247 378	2,080	20,114	19,632	
Precision production, craft, and repair occupations Bus, truck, and stationary engine mechanics Industrial machinery repairers Mechanics and repairers, N.E.C.	40.1 38.8 40.0 39.7 39.7	461 538 486 601 487 684	453 540 499 624 499 634	2,060 1,979 2,080 2,062 2,066 2,086	23,735 27,460 25,276 31,269 25,328 35,507	23,088 26,936 25,922 32,469 25,938 32,902	
Machine operators, assemblers, and inspectors Punching and stamping press operators Miscellaneous machine operators, N.E.C. Welders and cutters	40.2 39.8 40.0 39.8 40.0 40.0	406 411 414 490 406	404 400 420 464 400	2,080 2,068 2,080 2,070 2,076 2,073	21,078 21,358 21,505 25,423 21,044	21,008 20,800 21,840 24,128 20,800	
Transportation and material moving occupations, N.E.C. Transportation and material moving occupations Truck drivers Industrial truck and tractor equipment operators	40.0 43.0 46.5 39.5	534 587 457	320 521 594 421	2,041 2,211 2,393 2,052	27,406 30,216 23,768	26,416 30,888 21,902	

Table A-4. Weekly and annual earnings	and hours for selected occ	cupations, full-time workers of	nly ² , all industries,
Springfield, MO, September 1998 — Con	tinued		

	All industries							
Occupation ³	Mean	Weekly	earnings	Mean	Annual earnings			
	hours ⁴	Mean	Median	hours	Mean	Median		
Blue-collar occupations (-Continued) Transportation and material moving occupations (-Continued) Miscellaneous material moving equipment operators, N.E.C. Handlers, equipment cleaners, helpers, and laborers Construction laborers Production helpers Stock handlers and baggers Freight, stock, and material handlers, N.E.C. Hand packers and packagers Laborers except construction, N.E.C.	40.0 39.6 40.0 37.9 39.4 40.0 39.5 40.0	\$521 397 492 312 356 416 385 330	\$542 391 516 321 330 418 375 287	2,080 2,031 1,882 1,973 2,049 2,062 2,056 2,080	\$27,096 20,361 23,136 16,210 18,515 21,430 20,045 17,184	\$28,163 19,500 21,060 16,702 17,141 21,736 19,481 14,940		
Service occupations Protective service occupations Police and detectives, public service Food service occupations Supervisors, food preparation and service occupations Cooks Food preparation occupations, N.E.C. Health service occupations Nursing aides, orderlies and attendants Cleaning and building service occupations Janitors and cleaners Personal service occupations	39.6 41.7 40.1 39.4 41.6 39.2 38.8 39.7 39.6 39.6 39.6 39.6	343 583 577 297 417 336 239 322 321 316 314 -	310 529 568 276 348 320 234 310 295 280 286 -	2,030 2,168 2,085 1,979 2,018 1,967 1,880 2,065 2,057 2,069 2,062 -	17,574 30,300 30,023 14,884 20,251 16,815 11,564 16,750 16,750 16,430 16,316 -	15,678 27,518 29,557 14,040 16,640 16,432 11,960 16,097 15,354 14,560 14,893 -		

¹ Earnings are the straight-time wages or salaries paid to employees. They include incentive pay, cost-of-living adjustments, and hazard pay. Excluded are premium pay for overtime, vacations, holidays, nonproduction bonuses, and tips. The mean is computed by totaling the pay of all workers and dividing by the number of workers, weighted by hours. The median designates position-one-half of the workers receive the same as or more, and one-half receive the same as or less than the rate shown.
² Employees are classified as working either a full-time or a part-time schedule based on the definition used by each establishment. Therefore, a worker with a 35-hour-per-week schedule might be considered a full-time employee in one establishment, but classified as part-time in another firm, where a 40-hour week is the minimum full-time schedule.

a 40-hour week is the minimum full-time schedule. 3 A classification system including about 480 individual occupations is used to cover all workers in the civilian economy. Individual occupations are classified into one of nine major occupational groups.

 $^{4\,}$ Mean weekly hours are the hours an employee is scheduled to work in a week exclusive of overtime

NOTE: Dashes indicate that no data were reported or that data did not meet publication criteria. Overall occupational groups and occupational levels may include data for categories not shown separately. N.E.C. means "not elsewhere classified '

NOTE: Individual and average wage rates were collected in this update survey. A procedure was put into place to "move" the positional statistics where averages were collected. This procedure compares current locality survey data-at the quote level-with the same quote from the prior survey. Individual rates from the prior survey are moved by the average change in mean wages for the occupation.

		All workers 4	All industries		
Occupational group ³ and level	All indus- tries	Private industry	State and local govern- ment	Full-time workers	Part-time workers
All occupations All occupations excluding sales	\$12.53 12.70	\$11.59 11.69	\$17.66 17.66	\$13.17 13.28	\$7.34 7.48
White-collar occupations Level 1 Level 2 Level 3 Level 4 Level 5 Level 6 Level 7 Level 8 Level 10 Level 11 Level 12 Not able to be leveled White-collar occupations excluding sales Level 1 Level 3 Level 4 Level 5 Level 5 Level 4 Level 5 Level 4	14.82 6.76 7.49 7.56 9.59 12.80 13.81 16.48 20.24 20.79 25.92 27.74 37.68 22.51 15.72 7.36 7.72 7.36 7.72 7.88 9.35 11.90 13.67 15.24 20.34	13.53 6.41 7.46 7.56 9.60 12.86 12.58 17.04 17.44 20.50 27.05 26.72 - 14.36 6.81 7.72 7.90 9.29 9.29 11.76 12.30 15.58 17.48	19.49 - 7.43 9.58 12.43 16.21 13.92 21.70 22.81 22.92 28.90 - - 19.49 - 7.43 9.58 12.43 16.21 13.92 21.70 19.49 - - 19.49 - - 19.49 - - 19.49 - - - 19.49 - - - - - - - - - - - - -	$\begin{array}{c} 15.46\\ 6.71\\ 7.80\\ 7.78\\ 9.66\\ 13.09\\ 13.78\\ 16.62\\ 20.26\\ 20.72\\ 25.92\\ 27.74\\ 37.68\\ -\\ 16.11\\ 6.90\\ 7.96\\ 8.10\\ 9.36\\ 12.18\\ 13.63\\ 15.22\\ 20.36\end{array}$	8.50 6.82 6.75 6.71 7.30 9.21 15.47 15.36 - - - - - - - - - - - - - - - - - - -
Level 9 Level 10 Level 11 Level 12	20.79 24.98 27.73 37.68	20.50 26.00 26.61	22.81 22.92 28.90	20.72 24.98 27.73 37.68	- - - -
Professional specialty and technical occupations Professional specialty occupations Level 5	19.25 21.54 14.16 16.68 15.89 20.98 19.76 20.89 25.61 22.34 - - 21.95 24.64 23.95 22.11 13.63 23.28 - - 11.27 -	17.71 21.06 - - 16.44 16.57 - 22.84 - 22.34 - 22.16 - - - - - - - - - - - - - -	21.82 22.06 16.14 18.07 14.30 22.29 - - - - - - - - - - - - - - - 22.17 22.31 13.63 23.28 - - - - - - - - - - - - - - - - - - -	19.40 21.68 14.90 16.60 - 21.01 19.56 20.85 25.61 22.34 - 22.00 25.18 23.96 22.33 22.40 13.90 23.28 - - 11.15 -	16.00 18.35 - - 17.10 - - - - - - - - - - - - - - - - - - -
rotes, endowed and solve and professionals, N.E.C. Technical occupations Level 4 Level 5 Level 6 Level 8 Executive, administrative, and managerial occupations Level 7 Level 8 Level 9	18.24 12.23 9.77 10.91 12.90 16.00 22.33 16.24 18.61 21.91	- 12.08 9.69 10.91 - 21.35 16.24 20.15 21.72		18.24 12.36 9.82 11.10 - 16.00 22.33 16.24 18.61 21.91	

 Table B-1. Mean hourly earnings¹ by occupational group and levels², all industries, private industry,

 State and local government, full-time and part-time workers, Springfield, MO, September 1998

Table B-1. Mean hourly earnings¹ by occupational group and levels², all industries, private industry, State and local government, full-time and part-time workers, Springfield, MO, September 1998 — Continued

		All workers ⁴	All industries			
Occupational group ³ and level	All indus- tries	Private industry	State and local govern- ment	Full-time workers	Part-time workers	
White-collar occupations (-Continued)						
Executive, administrative, and managerial occupations						
(-Continued)						
Level 10	\$26.19	_	-	\$26.19	-	
Level 11	31.38	\$30.21	-	31.38	-	
Level 12	33.46	22.69	- ¢21.24	33.46	-	
l evel 8	19.95	19.95	-	19.95	_	
Level 9	21.99	21.83	-	21.99	-	
Level 10	26.19	_	_	26.19	_	
Level 11	32.09	-	-	32.09	-	
Level 12	33.46		_	33.46	-	
Management related occupations	18.88	18.66	19.61	18.88	-	
LEVEI 8	21.85	21 60	-	21.85	_	
Sales occupations	10.76	10.76	_	11.00	\$6 70	
Level 1	6.10	6.10	_		-	
Level 2	6.55	6.55	-	-	-	
Level 3	6.88	6.88	-	6.92	6.81	
Level 4	10.33	10.33	-	10.61	-	
Level 5	14.52	14.52	-	14.76	-	
	0.90 7.36	6.79	9.87	9.17	7.29	
Level 2	7.72	7.72	_	7.96	7.03	
Level 3	7.88	7.90	7.43	8.10	6.58	
Level 4	9.32	9.26	9.49	9.32	-	
Level 5	11.86	12.23	11.11	12.15	-	
Level 6	12.18	12.63	-	12.18	-	
Blue-collar occupations	11 32	11 11	14 71	11 52	7 79	
Level 1	7.53	7.53	-	7.67	6.73	
Level 2	9.56	9.45	_	9.47	10.56	
Level 3	11.08	11.08	11.03	11.17	-	
Level 4	12.21	12.31	10.39	12.33	-	
	12.00	12.01	-	12.00	-	
	14.74	15.09	_	14.74	_	
Level 8	18.23	-	_	18.23	_	
Level 9	19.90	_	_	19.90	-	
Precision production, craft, and repair occupations	13.88	13.43	17.28	13.88	-	
Level 4	12.23	12.23	-	12.23	-	
Level 5	11.10	11.10	-	11.10	-	
Level 0	13.83	15.97	-	13.83		
Level 8	18.23	-	_	18.23	_	
Machine operators, assemblers, and inspectors	10.18	10.18	-	10.19	-	
Level 1	7.60	7.60	-	7.52	-	
Level 2	9.61	9.61	-	9.61	-	
Level 3	10.99	10.99	-	10.99	-	
Level 5	11.99	11.99	-	11.99	_	
Transportation and material moving occupations	12.43	12.49	11 48	12.40	_	
Level 2	9.57	9.07	-	9.08	-	
Level 3	12.12	12.43	-	12.12	-	
Level 4	13.60	13.64	-	13.66	-	
Level 5	12.67	12.71	-	12.67	-	
manulers, equipment cleaners, helpers, and laborers	9.46	9.16	12.62	7 60	6.89	
Level 2	9.64	9.64	_	970		
Level 3	9.46	8.82	_	9.73	-	
Level 4	11.36	11.57	10.34	11.74	-	
			40.05		0.00	
Service occupations	7.89 6.11	7.05	12.25	8.66	6.02	
	0.11	5.05	9.04	0.32	0.62	

Table B-1. Mean hourly earnings¹ by occupational group and levels², all industries, private industry, State and local government, full-time and part-time workers, Springfield, MO, September 1998 — Continued

		All workers ⁴	Ļ	All industries		
Occupational group ³ and level	All indus- tries	Private industry	State and local govern- ment	Full-time workers	Part-time workers	
Service occupations (Continued)						
	¢6 72	¢6 52	\$9.20	\$7.90	¢5.79	
	φ0.72 7.25	φ0.32 7.24	φ0.29	7.50	φ <u></u> 5.70	
	8.68	8.38	_	0.35	7.57	
	0.00	0.30	10.50	0.47	1.57	
	9.51	9.30	10.50	9.47		
	9.05	_	11 17	11.25		
Protective service occupations	12.86		14.50	13.08	6.23	
	11 17		11 17	11 17	0.20	
Food service occupations	6.71	6 5 8	9.16	7.52	5.40	
	5.72	5 29		5.60	5.80	
	6 3 9	6.36	_	7.69	4 92	
Level 3	5 54	5.52	_	5 94	-	
Level 4	9.22	9.25	_	9.24	_	
Level 5	9.08	9.08	_	_	_	
Health service occupations	7.90	7.90	_	8 11	7 16	
l evel 2	7.01	7.01	_	_		
Cleaning and building service occupations	7.82	7 17	10.26	7 94	6.92	
Level 1	6.67	6.12		6.83	5.70	
Personal service occupations	-		_			

¹ Earnings are the straight-time hourly wages or salaries paid to employees. They include incentive pay, cost-of-living adjustments, and hazard pay. Excluded are premium pay for overtime, vacations, holidays, nonproduction bonuses, and tips. The mean is computed by totaling the pay of all workers and dividing by the number of workers, weighted by hours.

based on the definition used by each establishment. Therefore, a worker with a 35-hour-per-week schedule might be considered a full-time employee in one establishment, but classified as part-time in another firm, where a 40-hour week is the minimum full-time schedule.

NOTE: Dashes indicate that no data were reported or that data did not meet publication criteria. Overall occupational groups and occupational levels may include data for categories not shown separately. N.E.C. means "not elsewhere classified."

Nondays, indipioduction loades, and tips. The mean is computed by totaling the pay of all workers and dividing by the number of workers, weighted by hours. ² Each occupation for which wage data are collected in an establishment is evaluated based on 10 factors, including knowledge, complexity, work environment, etc. Points are assigned based on the occupation's ranking within each factor. The points are summed to determine the overall level of the occupation. See technical note for more information.

³ A classification system including about 480 individual occupations is used to cover all workers in the civilian economy. Individual occupations are classified into one of nine major occupational groups. ⁴ All workers include full-time and part-time workers. Employees

⁴ All workers include full-time and part-time workers. Employees are classified as working either a full-time or a part-time schedule

NOTE: Individual and average wage rates were collected in this update survey. A procedure was put into place to "move" the positional statistics where averages were collected. This procedure compares current locality survey data—at the quote level—with the same quote from the prior survey. Individual rates from the prior survey are moved by the average change in mean wages for the occupation.

Table B-2. Mean hourly earnings¹ for selected occupations and levels², all industries, private industry, State and local government, full-time and part-time workers, Springfield, MO, September 1998

		All workers ⁴	All industries		
Occupation ³ and level	All indus- tries	Private industry	State and local govern- ment	Full-time workers	Part-time workers
White-collar occupations:					
Professional specialty and technical occupations:					
Professional specialty occupations:					
Registered nurses	\$17.29	\$17.32	_	\$17.28	-
Elementary school teachers	23.18	-	\$23.18	23.18	-
Level 6	21.97	-	21.97	21.97	-
Level 8	23.49	-	23.49	23.49	-
Secondary school teachers	24.80	-	24.80	24.80	-
	23.05	-	23.05	23.05	-
Level o	20.04	_	20.04	20.04	-
Substitute teachers	22.55	_	22.55		\$7.4
Social workers	12.36	_	-	12.28	φ <i>ι</i>
Technical occupations:	12.00			12.20	
Clinical laboratory technologists and technicians	13.42	13.42	_	13.42	-
Licensed practical nurses	10.77	10.60	_	10.77	-
Technical and related occupations, N.E.C.	13.00	12.99	-	-	-
Executive, administrative, and managerial occupations:					
Financial managers	23.93	23.92	_	23.93	-
Administrators, education and related fields	30.70		30.53	30.70	-
Managers and administrators, N.E.C.	24.38	24.58	-	24.38	-
	22.76	22.76	-	22.76	-
Management related occupations, N.E.C.	18.28	18.31	_	18.28	-
Sales occupations.	12 20	12.20	_	12.20	_
Sales workers, bardware and building supplies	10.74	10.74	_	11 29	
Sales workers, nardware and building supplies	8 45	8 45	_	-	6.7
Cashiers	6.21	6.21	_	6.44	5.9
Level 2	6.60	6.60	_	_	_
Level 3	6.16	6.16	-	-	6.12
Administrative support occupations, including clerical:					
Secretaries	10.10	9.35	10.96	10.30	-
Level 4	8.81	-	-	8.81	-
Typists	9.19		-	9.19	-
Receptionists	7.55	7.55	-	7.86	-
Bookkeepers, accounting and auditing cierks	9.06	9.04	-	9.14	-
	7.98	7.90	_	- 0.00	-
Level 4 Dispatchers	9.09	9.10	_	9.09	
Traffic shipping and receiving clerks	8.35	8 35	_	8 35	_
Stock and inventory clerks	9.17	8.49	_	9.71	_
Investigators and adjusters except insurance	8.76	8.76	_	8.85	-
General office clerks	8.25	_	-	8.30	-
Data entry keyers	8.90	8.90	-	8.90	-
Teachers' aides	8.13	_	8.13	7.11	-
Administrative support occupations, N.E.C.	9.14	9.13	-	9.67	-
Plue coller ecourations.					
Precision production, craft, and repair occupations:	I I				
Bus truck and stationary engine mechanics	12 15	_	_	12 15	_
Industrial machinery repairers	15 16	15 16	_	15 16	_
Level 7	15.14	15.14	-	15.14	-
Mechanics and repairers, N.E.C.	12.26	11.17	-	12.26	-
Supervisors, production occupations	17.02	17.02	-	17.02	-
Level 7	15.90	15.90	-	15.90	-
Machine operators, assemblers, and inspectors:					
Punching and stamping press operators	10.27	10.27	-	10.27	-
Miscellaneous machine operators, N.E.C.	10.51	10.51	-	10.39	-
Velders and cutters	12.25	12.25	-	12.25	-
Assemblers	10.15	10.15	-	10.15	-
Miccollopoous band working accurations NECO	d (5	0./5	-	0.75	I –
Miscellaneous hand working occupations, N.E.C.	Q / 2	0 / 2		-	
Miscellaneous hand working occupations, N.E.C. Production inspectors, checkers and examiners Transportation and material moving occupations:	8.43	8.43	-	-	-
Miscellaneous hand working occupations, N.E.C. Production inspectors, checkers and examiners Transportation and material moving occupations: Truck drivers	8.43 12.63	8.43 12.78	-	- 12 63	-

Table B-2. Mean hourly earnings¹ for selected occupations and levels², all industries, private industry, State and local government, full-time and part-time workers, Springfield, MO, September 1998 — Continued

		All workers ⁴		All ind	ustries
Occupation ³ and level	All indus- tries	Private industry	State and local govern- ment	Full-time workers	Part-time workers
Blue-collar occupations: (-Continued) Transportation and material moving occupations: (-Continued)					
I ruck drivers (-Continued)	¢14.01	\$14.04		¢1/11	
Bus drivers	φ14.01 14.87	φ14.04 _	\$13.61	φ14.11 _	
Industrial truck and tractor equipment operators	11 58	11 58	φ13.01 _	11 58	
Miscellaneous material moving equipment	11.00	11.00		11.00	
operators, N.E.C.	13.03	13.03	-	13.03	-
Handlers, equipment cleaners, helpers, and laborers:	40.04				
Groundskeepers and gardeners except farm	10.24	_	-	10.00	-
Construction laborers	12.25	- 7.02	10.41	12.29	-
	7.92	7.92	_	0.22	-
Stock bandlers and baggors	0.00	7 25	_	0.04	-
	9.33	9.27	_	9.04	_
Ereight stock and material handlers NEC	10.27	10.27	_	10.30	
Hand packers and packagers	9.47	0.03		9.75	
	8 24	8 24	_	836	
Laborers except construction N E C	8 19	7 90	_	8 26	_
	0.110			0.20	
Service occupations: Protective service occupations: Police and detectives, public service	14.40	-	14.40	14.40	-
Food service occupations:					
Supervisors, rood preparation and service	0.70	0.70		40.00	
Occupations	9.70	9.70	-	10.03	
	3.03	3.03	_	_	φ4.01 4.20
Cooks	4.30	4.50	9.27	9.55	4.30
	0.00	0.04	0.57	0.55	_
Kitchen workers, food preparation	8 10	7.68	_		7.96
Waiters'/Waitresses' assistants	5 11	5 11			1.50
	5.11	5.11	_		4.74
Food preparation occupations NEC	5.88	5.88	_	615	5 59
	5.00	5.80	_		5.66
Health service occupations:	0.00	0.00			
Nursing aides, orderlies and attendants	7.84	7.84	-	8.12	7.10
Level 2	7.01	7.01	-	-	-
Cleaning and building service occupations: Supervisors, cleaning and building service					
workers	10.64	_	-	-	-
Maids and housemen	6.79	6.79	-	-	-
Level 1	6.04	6.04	-	_	-
Janitors and cleaners	7.73	6.59	-	7.91	-
Level 1	6.94	6.17	-	7.12	-
Personal service occupations:					
Service occupations, N.E.C.	6.24	-	-	-	-

¹ Earnings are the straight-time hourly wages or salaries paid to employees. They include incentive pay, cost-of-living adjustments, and hazard pay. Excluded are premium pay for overtime, vacations, holidays, nonproduction bonuses, and tips. The mean is computed by totaling the pay of all workers and dividing by the number of workers, weighted by hours. ² Each occupation for which wage data are collected in an

² Each occupation for which wage data are collected in an establishment is evaluated based on 10 factors, including knowledge, complexity, work environment, etc. Points are assigned based on the occupation's ranking within each factor. The points are summed to determine the overall level of the occupation. See technical note for more information.

³ A classification system including about 480 individual occupations is used to cover all workers in the civilian economy. Individual occupations are classified into one of nine major occupational groups.
⁴ All workers include full-time and part-time workers. Employees

⁴ All workers include full-time and part-time workers. Employees are classified as working either a full-time or a part-time schedule

based on the definition used by each establishment. Therefore, a worker with a 35-hour-per-week schedule might be considered a full-time employee in one establishment, but classified as part-time in another firm, where a 40-hour week is the minimum full-time schedule.

NOTE: Dashes indicate that no data were reported or that data did not meet publication criteria. Overall occupational groups and occupational levels may include data for categories not shown separately. N.E.C. means "not elsewhere classified."

NOTE: Individual and average wage rates were collected in this update survey. A procedure was put into place to "move" the positional statistics where averages were collected. This procedure compares current locality survey data-at the quote level-with the same quote from the prior survey. Individual rates from the prior survey are moved by the average change in mean wages for the occupation.

Occupational group ²	Full-time workers ³	Part-time workers ³	Union ⁴	Nonunion ⁴	Time ⁵	Incentive ⁵
	• · • · •				A	•···
All occupations	\$13.17	\$7.34	\$13.63	\$12.40	\$12.57	\$11.78
All occupations excluding sales	13.28	7.48	13.86	12.56	12.81	10.51
White-collar occupations	15.46	8.50	12.05	14.87	15.03	11.62
White-collar excluding sales	16.11	9.90	15.72	15.72	16.04	-
Professional specialty and technical occupations	19.40	16.00	19.00	19.26	19.25	_
Professional specialty occupations	21.68	18.35	19.00	21.58	21.54	-
Technical occupations	12.36	-	-	12.23	12.23	_
Executive, administrative, and managerial occupations	22.33	-	-	22.33	22.33	-
Sales occupations	11.91	6.70	-	10.92	9.84	15.86
Administrative support including clerical occupations	9.17	7.29	-	8.88	9.17	-
Blue-collar occupations	11.52	7.79	13.99	10.38	11.26	11.95
Precision production, craft, and repair occupations	13.88	_	16.21	13.20	13.62	-
Machine operators, assemblers, and inspectors	10.19	-	13.12	9.50	10.46	-
Transportation and material moving occupations	12.40	-	14.92	10.32	11.89	-
Handlers, equipment cleaners, helpers, and laborers	10.02	6.89	11.58	8.76	9.44	-
Service occupations	8.66	6.02	-	7.86	7.89	_

Table C-1. Mean hourly earnings¹ by occupational group and selected characteristics, all industries, Springfield, MO, September 1998

¹ Earnings are the straight-time hourly wages or salaries paid to employees. They include incentive pay, cost-of-living adjustments, and hazard pay. Excluded are premium pay for overtime, vacations, holidays, nonproduction bonuses, and tips. The mean is computed by totaling the pay

of all workers and dividing by the number of workers, weighted by lotaning into pay 2 A classification system including about 480 individual occupations is used to cover all workers in the civilian economy. Individual occupations are

classified into one of nine major occupational groups. 3 Employees are classified as working either a full-time or a part-time schedule based on the definition used by each establishment. Therefore, a worker with a 35-hour-per-week schedule might be considered a full-time employee in one establishment, but classified as part-time in another firm, where a 40-hour week is the minimum full-time schedule. ⁴ Union workers are those whose wages are determined through

collective bargaining. ⁵ Time workers' wages are based solely on an hourly rate or salary;

incentive workers are those whose wages are at least partially based on productivity payments such as piece rates, commissions, and production bonuses

NOTE: Dashes indicate that no data were reported or that data did not meet publication criteria. Overall occupational groups and occupational levels may include data for categories not shown separately. N.E.C. means "not elsewhere classified."

NOTE: Individual and average wage rates were collected in this update survey. A procedure was put into place to "move" the positional statistics where averages were collected. This procedure compares current locality survey data-at the quote level-with the same quote from the prior survey. Individual rates from the prior survey are moved by the average change in mean wages for the occupation.

Table C-2. Mean hourly earnings¹ by occupational group and industry division, private industry, all workers², Springfield, MO, September 1998

		Good	s-produc	ing indus	stries ⁴	s	ervice-pr	oducing	industries	s ⁵
Occupational group ³	All private industries	Total	Mining	Con- struc- tion	Manu- factur- ing	Total	Trans- port- ation and public utilities	Whole- sale and retail trade	Fin- ance, insur- ance, and real estate	Serv- ices
All occupations All occupations excluding sales	\$11.59 11.69	\$12.10 12.02			\$11.98 11.89	\$11.36 11.51			\$13.18 13.26	\$11.89 12.00
White-collar occupations White-collar excluding sales	13.53 14.36	16.57 16.20			16.57 16.20	13.17 14.08			13.54 13.62	14.74 15.19
Professional specialty and technical occupations Professional specialty occupations	17.71 21.06	20.37 22.47	-	-	20.37 22.47	17.43 20.86	-	-	-	17.47 20.89
Technical occupations Executive, administrative, and managerial occupations	12.08 21.35	_ 22.08	-	-	_ 22.08	12.12 21.16	-	-	_ 21.57	11.90 20.52
Sales occupations Administrative support, including clerical occupations	10.76 8.79	9.86	-	-	 9.86	10.50 8.62			 8.90	_ 8.18
Blue-collar occupations	11.11	11.28	-	-	11.09	10.74	-	-	-	7.64
Machine operators, assemblers, and inspectors	10.18	10.54	_	_	10.53	6.62	_	_	_	6.62
Handlers, equipment cleaners, helpers, and laborers	9.16	10.70	_	_	10.52	7.11	-	-	_	6.89
Service occupations	7.05	-	_	_	-	7.00	-	-	_	7.61

¹ Earnings are the straight-time hourly wages or salaries paid to employees. They include incentive pay, cost-of-living adjustments, and hazard pay. Excluded are premium pay for overtime, vacations, holidays, nonproduction bonuses, and tips. The mean is computed by totaling the pay of all workers and dividing by the number of workers, weighted by hours.

pay to overline, vacators, holizays, holizotadin bolizes, and tips. The mean is computed by totaling the pay of all workers and dividing by the number of workers, weighted by hours. ² All workers include full-time and part-time workers. Employees are classified as working either a full-time or a part-time schedule based on the definition used by each establishment. Therefore, a worker with a 35-hour-per-week schedule might be considered a full-time employee in one establishment, but classified as part-time in another firm, where a 40-hour week is the minimum full-time schedule. ³ A classification system including about 480 individual occupations is used to cover " A base of the term of the part of the part

A classification system including about 480 individual occupations is used to cover all workers in the civilian economy. Individual occupations are classified into one of nine major occupational groups. ⁴ Goods-producing industries include mining, construction, and manufacturing. ⁵ Service-producing industries include transportation and public utilities; wholesale and retail trade; finance, insurance, and real estate; and services.

NOTE: Dashes indicate that no data were reported or that data did not meet publication criteria. Overall occupational groups and occupational levels may include data for categories not shown separately. N.E.C. means "not elsewhere classified."

NOTE: Individual and average wage rates were collected in this update survey. A procedure was put into place to "move" the positional statistics where averages were collected. This procedure compares current locality survey data-at the quote level-with the same quote from the prior survey. Individual rates from the prior survey are moved by the average change in mean wages for the occupation.

		AU		100 workers or more				
Occupational group ³	All private industry workers	50 - 99 workers	Total	100 - 499 workers	500 workers or more			
All occupations	\$11.59	\$10.96	\$11.75	\$10.82	\$13.20			
All occupations excluding sales	11.69	10.64	11.96	10.80	13.66			
White-collar occupations	13.53	13.78	13.49	12.27	15.41			
White-collar excluding sales	14.36	13.89	14.43	12.71	16.85			
Professional specialty and technical occupations	17.71	27.40	17.42	15.02	19.57			
Professional specialty occupations	21.06	37.06	20.62	17.68	22.62			
Technical occupations	12.08	-	12.02	11.89	12.21			
Executive, administrative, and managerial occupations	21.35	20.59	21.53	19.99	24.10			
Sales occupations	10.76	13.56	10.02	10.98	7.56			
Administrative support, including clerical occupations	8.79	9.48	8.63	8.37	9.16			
Blue-collar occupations	11.11	11.67	10.94	10.13	12.30			
Precision production, craft, and repair occupations	13.43	14.46	12.95	13.02	12.87			
Machine operators, assemblers, and inspectors	10.18	9.92	10.22	9.17	12.02			
Transportation and material moving occupations	12.49	11.32	13.12	12,48	_			
Handlers, equipment cleaners, helpers, and laborers	9.16	9.24	9.14	8.38	10.79			
Service occupations	7.05	6.17	7.50	6.90	8.20			

Table C-3. Mean hourly earnings¹ by occupational group and establishment employment size, private industry, all workers², Springfield, MO, September 1998

¹ Earnings are the straight-time hourly wages or salaries paid to employees. They include incentive pay, cost-of-living adjustments, and hazard pay. Excluded are premium pay for overtime, vacations, holidays, nonproduction bonuses, and tips. The mean is computed by totaling the pay of all workers and dividing by the number of workers, weighted by hours.
² All workers include full-time and part-time workers. Employees are densified as working of the full-time and part-time workers.

² All workers include full-time and part-time workers. Employees are classified as working either a full-time or a part-time schedule based on the definition used by each establishment. Therefore, a worker with a 35-hour-per-week schedule might be considered a full-time employee in one establishment, but classified as part-time in another firm, where a 40-hour week is the minimum full-time schedule.

schedule. 3 A classification system including about 480 individual occupations is used to cover all workers in the civilian economy.

Individual occupations are classified into one of nine major occupational groups.

NOTE: Dashes indicate that no data were reported or that data did not meet publication criteria. Overall occupational groups and occupational levels may include data for categories not shown separately. N.E.C. means "not elsewhere classified."

NOTE: Individual and average wage rates were collected in this update survey. A procedure was put into place to "move" the positional statistics where averages were collected. This procedure compares current locality survey data-at the quote level-with the same quote from the prior survey. Individual rates from the prior survey are moved by the average change in mean wages for the occupation.

	All workers						
Occupational group ²	All industries	Private industry	State and local govern- ment				
All occupations	78,730	65,132	13,599				
All occupations excluding sales	71,377	57,779	13,599				
White-collar occupations	39,178	29,426	9,752				
White-collar excluding sales	31,825	22,073	9,752				
Professional specialty and technical occupations	14,795	8,281	6,514				
Professional specialty occupations	11,666	5,310	6,356				
Technical occupations	3,130	2,972	158				
Executive, administrative, and managerial occupations	4,885	3,742	1,143				
Sales occupations	7,353	7,353	–				
Administrative support including clerical occupations	12,145	10,049	2,096				
Blue-collar occupations	24,865	23,235	1,630				
Precision production, craft, and repair occupations	6,179	5,503	676				
Machine operators, assemblers, and inspectors	7,892	7,892	-				
Transportation and material moving occupations	4,134	3,670	464				
Handlers, equipment cleaners, helpers, and laborers	6,660	6,169	491				
Service occupations	14,687	12,471	2,216				

Table C-4. Number of workers¹ represented by occupational group, Springfield, MO, September 1998

¹ Both full-time and part-time workers were included in the survey. Employees are classified as working either a full-time or a part-time schedule based on the definition used by each establishment. Therefore, a worker with a 35-hour-per-week schedule might be considered a full-time employee in one establishment, but classified as part-time in another establishment, where a 40-hour week is the minimum full-time schedule.

In another establishment, where a 40-hour week is the minimum full-time schedule. ² A classification system including about 480 individual occupations is used to cover all workers in the civilian economy. Individual occupations are classified into one of nine major occupational groups. NOTE: Dashes indicate that no data were reported or that data did not meet publication criteria. Overall occupational groups and occupational levels may include data for categories not shown separately. N.E.C. means "not elsewhere classified."

NOTE: Individual and average wage rates were collected in this update survey. A procedure was put into place to "move" the positional statistics where averages were collected. This procedure compares current locality survey data-at the quote level-with the same quote from the prior survey. Individual rates from the prior survey are moved by the average change in mean wages for the occupation.

Appendix A. Technical Note

This section provides basic information on the procedures and concepts used to produce the data contained in this bulletin. It is divided into three parts: Planning for the survey; data collection; and processing and analyzing the data. While this section answers some questions commonly asked by data users, it is not a comprehensive description of all the steps required to produce the data.

Planning for the survey

The overall design of the survey is based on the type of data to be produced. Establishments that participate in the NCS are studied for several collection cycles. This allows changes in wages within these establishments to be observed over time. Individual wage data are collected for selected jobs during each establishment's initial cycle and updated during subsequent cycles. When data are not available during a collection cycle, efforts are made to collect the data during subsequent cycles and include it in later tabulations. Beginning in the year 2001, the current NCS sample will be replenished on a rotating basis.

Survey scope

This survey of the Springfield, MO Metropolitan Statistical Area covered establishments employing 50 workers or more in goods-producing industries (mining, construction and manufacturing); service-producing industries (transportation, communications, electric, gas, and sanitary services; wholesale trade; retail trade; finance, insurance, and real estate; and services industries); and State and local governments. Agriculture, private households, and the Federal Government were excluded from the scope of the survey. For purposes of this survey an establishment was an economic unit which produces goods or services, a central administrative office, or an auxiliary unit providing support services to a company. For private industries in this survey, the establishment was usually at a single physical location. For State and local governments, an establishment was defined as all locations of a government entity.

The Springfield, MO MSA includes Christian, Greene, and Webster Counties.

Sampling frame

The list of establishments from which the survey sample was selected (sampling frame) was developed from the State unemployment insurance reports for the Springfield, MO Metropolitan Statistical Area. The reference month for the public sector is June 1994. Due to the volatility of industries within the private sector, sampling frames were developed using the most recent month of reference available at the time the sample was selected. The reference month for the private sector is September 1996. The sampling frame was reviewed prior to the survey and, when necessary, missing establishments were added, out-of-business and out-of-scope establishments were removed, and addresses, employment levels, industry classification, and other information were updated.

Sample design

The sample for this survey area was selected using a two stage stratified design with probability proportional to employment sampling at each stage. The first stage of sample selection was a probability sample of establishments. The sample of establishments was drawn by first stratifying the sampling frame where the strata are determined by industry and whether the establishment is private, State government or local government. The number of sample establishments allocated to each stratum is approximately proportional to the stratum employment. Each sampled establishment is selected within a stratum with a probability proportional to its employment. Use of this technique means that the larger an establishment's employment, the greater its chance of selection. Weights were applied to each establishment when the data were tabulated so that the sample units within each stratum represent all the units within the stratum, both sampled and See appendix table 1 for a count of nonsampled. establishments in the survey by employment size. The second stage of sample selection, detailed below, was a probability sample of occupations within a sampled establishment.

Data collection

Detailed procedures are followed when collecting data from survey respondents. For the initial data collection, field economists, working out of the Regional Office, visited each establishment surveyed. The field economists - through mail, phone, or personal visit - completed update collection, which involved obtaining current pay data.

The following procedures are used for schedules initiated for the first time or reinitiated during an update.

Occupational selection and classification

Identification of the occupations for which wage data were to be collected was a multi-step process:

1. Probability-proportional-to-size selection of establishment jobs.

- 2. Classification of jobs into occupations based on the Census of Population system.
- 3. Characterization of jobs as full-time v. part-time, union v. nonunion, and time v. incentive.
- 4. Determination of the level of work of each job.

For each occupation, wage data were collected for those workers who met all the criteria identified in the last three steps. Special procedures were developed for jobs for which a correct classification or level could not be determined.

In step one, the jobs to be sampled were selected at each establishment by the BLS field economist during a personal visit. A complete list of employees was used for sampling, with each selected worker representing a job within the establishment.

As with the selection of establishments, the selection of a job was based on probability proportional to its size in the establishment. The greater the number of people working in a job in the establishment, the greater its chance of selection.

The number of jobs collected in each establishment was based on an establishment's employment size as shown in the following schedule:

Number of employees	Number of selected jobs
50-99	8
100-249	10
250-999	12
1000-2,499	16
2,500+	20

The second step of the process entailed classifying the selected jobs into occupations based on their duties. The National Compensation Survey occupational classification system is based on the 1990 Census of Population. A selected job may fall into any one of about 480 occupational classifications, from accountant to wood lathe operator. In cases where a job's duties overlapped two or more Census classification codes, the duties used to set the wage level were used to classify the job. Classification by primary duties was the fallback.

Each occupational classification is an element of a broader classification known as a major occupational group (MOG). Occupations can fall into any of the following MOG's:

- Professional specialty and technical
- Executive, administrative, and managerial
- Sales
- Administrative support including clerical
- Precision production, craft, and repair
- Machine operators, assemblers, and inspectors
- Transportation and material moving
- Handlers, equipment cleaners, helpers, and laborers
- Service occupations

A complete list of all individual occupations, classified by the MOG to which they belong, is contained in appendix B.

In step three, certain other job characteristics of the chosen worker were identified. First, the worker was identified as holding either a full-time or part-time job, based on the establishment's definition of those terms. Then the worker was classified as having a time versus incentive job, depending on whether any part of pay was directly based on the actual production of the worker, rather than solely on hours worked. Finally, the worker was identified as being in a union job or a nonunion job. See the "Definition of Terms" section on the following page for more detail.

Generic leveling through point factor analysis

In the last step before wage data were collected, the work level of each selected job was determined using a "generic leveling" process. Generic leveling ranks and compares all occupations randomly selected in an establishment using the same criteria. This is a major departure from the method used in the past in the Bureau's Occupational Compensation Surveys which studied specifically defined occupations with leveling definitions unique to each occupation.

For this survey, the level of each occupation in an establishment was determined by an analysis of each of 10 leveling factors. Nine of these factors are drawn from the U.S. Government Office of Personnel Management's Factor Evaluation System, which is the underlying structure for evaluation of General Schedule Federal employees. The tenth factor, supervisory duties, attempts to account for the effect of supervisory duties. It is considered experimental. The 10 factors are:

- Knowledge
- Supervision received
- Guidelines
- Complexity
- Scope and effect
- Personal contacts
- Purpose of contacts
- Physical demands
- Work environment
- Supervisory duties

Each factor contains a number of levels and each level has an associated written description and point value. The number and range of points differ among the factors. For each factor, an occupation was assigned a level based on which written description best matched the job. Within each occupation, the points for 9 factors (supervisory duties was excluded) were recorded and totaled. The total determines the overall level of the occupation. Appendix table 3 presents average work levels for published occupational groups and selected occupations. A description of the levels for each factor is shown in appendix C. Tabulations of levels of work for occupations in the survey follow the Federal Government's white-collar General Schedule. Point ranges for each of the 15 levels are shown in appendix D. It also includes an example of a leveled job and a guide to help data users evaluate jobs in their firm.

Wage data collected in prior surveys using the new generic leveling method were evaluated by BLS researchers using regression techniques. For each of the major occupational groups, wages were compared to the 10 generic level factors (and levels within those factors). The analysis showed that several of the generic level factors, most notably knowledge and supervision received, had strong explanatory power for wages. That is, as the levels within a given factor increased, the wages also increased. Detailed research continues in the area. The results of this research will be published by BLS in the future.

Collection period

The survey was collected from July 1998 through December 1998. The average payroll reference month was September 1998. For each establishment in the survey, the data reflect the establishment's practices on the day of collection.

Earnings

Earnings were defined as regular payments from the employer to the employee as compensation for straighttime hourly work, or for any salaried work performed. The following components were included as part of earnings:

- Incentive pay, including commissions, production bonuses, and piece rates
- Cost-of-living allowances
- Hazard pay
- Payments of income deferred due to participation in a salary reduction plan
- Deadhead pay, defined as pay given to transportation workers returning in a vehicle without freight or passengers

The following forms of payments were *not* considered part of straight-time earnings:

- Shift differentials, defined as extra payment for working a schedule that varies from the norm, such as night or weekend work
- Premium pay for overtime, holidays, and weekends
- Bonuses not directly tied to production (e.g., Christmas bonuses, profit-sharing bonuses)
- Uniform and tool allowances
- Free room and board
- Payments made by third parties (e.g., tips, bonuses given by manufacturers to department store salespeople, referral incentives in real estate)
- On-call pay

In order to calculate earnings for various time periods (hourly, weekly, and annual), data on work schedules were

also collected. For hourly workers, scheduled hours worked per day and per week, exclusive of overtime, were recorded. Annual weeks worked were determined. Because salaried workers, exempt from overtime provisions, often work beyond the assigned work schedule, their typical number of hours actually worked was collected.

Definition of terms

Full-time worker. Any employee that the employer considers to be full time.

Incentive worker. Any employee whose earnings are tied, at least in part, to commissions, piece rates, production bonuses, or other incentives based on production or sales.

Level. A ranking of an occupation based on the requirements of the position. (See the description in the technical note and the example for more details on the leveling process.)

Nonunion worker. An employee in an occupation not meeting the conditions for union coverage (see below).

Part-time worker. Any employee that the employer considers to be part-time.

Straight-time. Time worked at the standard rate of pay for the job.

Time-based worker. Any employee whose earnings are tied to an hourly rate or salary, and not to a specific level of production.

Union worker. Any employee is in a union occupation when all of the following conditions are met:

- A labor organization is recognized as the bargaining agent for all workers in the occupation.
- Wage and salary rates are determined through collective bargaining or negotiations.
- Settlement terms, which must include earnings provisions and may include benefit provisions, are embodied in a signed mutually binding collective bargaining agreement.

Processing and analyzing the data

Data were processed and analyzed at the Bureau's National Office following collection.

Weighting and nonresponse

Sample weights were calculated for each establishment/occupation in the survey. These weights reflected the relative size of the occupation within the establishment and of the establishment within the sample universe. Weights were used to aggregate the individual establishment/occupations into the various data series. Of the establishments surveyed, 27.3 percent (representing 19,250 employees) refused to supply information. If data were not provided by a sample member, the weights of responding sample members in the same or similar "cells" were adjusted to account for the missing data. This technique assumes that the mean value of the nonrespondents equals the mean value of the respondents at some detailed "cell" level. Responding and nonresponding establishments were classified into these cells according to industry and employment size. Responding establishments were classified into cells which were additionally defined by major occupation group and job level.

Establishments which were determined to be out of business or outside the scope of the survey (3.6 percent of the total sample) had their weights changed to zero. If only partial data were given by a sample establishment or occupation, or data were missing, the response was treated as a refusal.

Estimation

The wage series in the tables are computed by combining the wages for individual establishment/occupations. Before being combined, individual wage rates are weighted by: number of workers; the sample weight adjusted for nonresponding establishments and other factors; and the occupation work schedule, varying depending on whether hourly, weekly, or annual rates are being calculated. The respondent has the option of giving mean data instead of individual wages in the years following the initiation.

In 1998, the publication criteria were changed to allow more data to publish. Not all series that were calculated met the criteria for publication. Before any series was published, it was reviewed to make sure that the number of observations underlying it was sufficient. This review prevented publishing a series that could have revealed information about a specific establishment.

As a result of the use of sampling weights, the number of workers estimates represent the total in all establishments within the scope of the study not the actual number of workers surveyed.

Data reliability

The data in this bulletin are estimates from a scientifi-

cally selected probability sample. There are two types of errors possible in an estimate based on a sample survey, sampling and nonsampling.

Sampling errors occur because observations come only from a sample and not from an entire population. The sample used for this survey is one of a number of possible samples of the same size that could have been selected using the sample design. Estimates derived from the different samples would differ from each other.

A measure of the variation among these differing estimates is called the standard error or sampling error. It indicates the precision with which an estimate from a particular sample approximates the average result of all possible samples. The relative standard error (RSE) is the standard error divided by the estimate. Appendix table 2 contains RSE data for selected series in this bulletin. RSE data for all series in this bulletin are available on the Internet web site and by request to the BLS National Office.

The standard error can be used to calculate a "confidence interval" around a sample estimate. As an example, suppose table A-1 shows that mean hourly earnings for all workers was \$12.79 per hour, and appendix table 2 shows a relative standard error of 3.6 percent for this estimate. At the 90-percent level, the confidence interval for this estimate is \$13.55 to \$12.03 (\$12.79 plus and minus 1.645 times 3.6 percent times \$12.79). If all possible samples were selected to estimate the population value, the interval from each sample would include the true population value approximately 90 percent of the time.

Nonsampling errors also affect survey results. They can stem from many sources, such as inability to obtain information for some establishments, difficulties with survey definitions, inability of the respondents to provide correct information, or mistakes in recording or coding the data obtained. A Technical Reinterview Program done in all survey areas will be used in the development of a formal quality assessment process to help compute nonsampling error. Although they also were not specifically measured, efforts were made to minimize nonsampling errors by the extensive training of field economists who gathered survey data, computer editing of the data, and detailed data review. Appendix table 1. Number of establishments studied by industry division and establishment employment size, and number of establishments represented, Springfield, MO, September 1998

		Number of establishments studied							
Industry	establish-		50.00	100 workers or more					
	resented	Total studied	50 - 99 workers	Total	100 - 499 workers	500 workers or more			
	450	150	FF	05	70	22			
All industries	450	150	55	95	73	22			
Private industry	425	121	48	73	57	16			
Goods-producing industries	89	36	10	26	19	7			
Construction	9	2	2	-	-	_			
Manufacturing	80	34	8	26	19	7			
Service-producing industries	337	85	38	47	38	9			
Tranportation and public utilities	54	8	6	2	2	-			
Wholesale and retail trade	149	33	18	15	12	3			
Finance insurance and real estate	16	4	1	3	2	1			
Services	118	40	13	27	22	5			
Otate and least government	21	40	13	27	10	5			
State and local government	31	29	/	22	16	6			

NOTE: Dashes indicate that no data were reported. Overall industry and industry groups may include data for categories not shown separately.

Appendix table 2. Relative standard errors of mean hourly earnings¹ for selected occupations, all industries, private industry, and State and local government, all workers², Springfield, MO, September 1998

(in percent)

Occupation ³	All indus- tries	Private industry	State and local govern- ment
All occupations All occupations excluding sales	2.4 2.3	2.9 2.8	3.8 3.8
White-collar occupations White-collar occupations excluding sales	3.5 3.6	4.6 4.8	4.5 4.5
Professional specialty and technical occupations Professional specialty occupations Engineers, architects, and surveyors Mathematical and computer scientists Natural scientists Health related occupations Registered nurses Teachers, college and university Teachers, except college and university Elementary school teachers Secondary school teachers Teachers, special education Substitute teachers Librarians, archivists, and curators Social, recreation, and religious workers Social, recreation, and religious workers Social workers Lawyers and judges Writers, authors, entertainers, athletes, and professionals, N.E.C. Technical occupations Clinical laboratory technologists and technicians Licensed practical nurses Technical and related occupations. Executives, administrators, and managers Financial managers Administrators, education and related fields Managers and administrators, N.E.C.	4.7 5.0 5.2 - 12.9 1.5 12.0 3.3 2.1 2.5 5.2 1.6 - 6.8 3.1 - 10.9 4.3 15.7 4.2 11.7 4.0 4.4 8.0 6.1 4.9	7.5 9.1 5.2 - 13.2 1.5 - - - - - - - - - - - - - - - - - - -	4.0 4.0 - - - 3.4 2.1 2.5 5.2 1.6 - - - - - - - - - - - - -
Management related occupations Management related occupations, N.E.C. Sales occupations Sales workers, hardware and building supplies Sales workers, other commodities Cashiers Administrative support occupations, including clerical Secretaries Typists Receptionists Bookkeepers, accounting and auditing clerks Dispatchers Traffic, shipping and receiving clerks Stock and inventory clerks Investigators and adjusters except insurance General office clerks Data entry keyers Teachers' aides Administrative support occupations, N.E.C. Blue-collar occupations Bus, truck, and stationary engine mechanics Industrial machinery repairers Mechanics and repairers, N.E.C. Supervisors, production occupations Machine operators, assemblers, and inspectors Punching and stamping press operators	5.8 9.5 8.6 7.3 16.4 7.3 1.2 2.4 7.5 7.5 3.7 4.1 12.4 11.1 9.9 6.0 5.1 6.9 4.9 8.7 2.2 3.8 9.5 3.0 9.4 7.3 3.0 10.8 0	6.5 9.7 8.6 7.3 16.4 7.3 1.2 2.6 10.5 - 3.7 4.1 - 11.1 6.8 6.0 - 8.8 2.3 4.2 - 3.0 6.8 7.3 3.0 10.8 0.9 - 8.6 7.3 1.2 2.6 1.2 2.7 1.2 2.6 1.2 2.3 3.0 1.2 2.3 3.0 1.2 2.3 3.0 1.2 2.3 3.0 1.2 2.3 3.0 1.2 2.3 3.0 1.2 2.3 3.0 1.2 3.0 1.2 2.3 3.0 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2	13.0 - - - 4.9 9.1 - - - - - - - 4.9 - - - - - - - - - - - - -

Appendix table 2. Relative standard errors of mean hourly earnings¹ for selected occupations, all industries, private industry, and State and local government, all workers², Springfield, MO, September 1998 — Continued

(in percent)

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Occupation ³	All indus- tries	Private industry	State and local govern- ment
Blue-collar occupations (-Continued)			
Machine operators, assemblers, and inspectors			
(-Continued) Welders and cutters	19	19	_
Assemblers	4.0	4.0	
Miscellaneous hand working occupations N F C	21.5	21.5	_
Production inspectors, checkers and examiners	14.6	14.6	_
Transportation and material moving occupations	47	4.9	83
Truck drivers	7 1	73	
Bus drivers	11.4	-	18.3
Industrial truck and tractor equipment operators	6.9	69	
Miscellaneous material moving equipment	0.0	0.0	
operators, N.E.C.	11.6	11.6	_
Handlers, equipment cleaners, helpers, and laborers	3.4	3.3	9.2
Groundskeepers and gardeners except farm	18.9	_	_
Construction laborers	5.3	-	2.1
Production helpers	8.0	8.0	_
Stock handlers and baggers	7.4	7.4	_
Freight, stock, and material handlers, N.E.C.	7.2	7.2	_
Hand packers and packagers	5.8	5.8	_
Laborers except construction, N.E.C.	8.4	9.0	-
Service occupations	3.5	2.9	7.1
Protective service occupations	9.7	-	8.5
Police and detectives, public service	4.5	-	4.5
Food service occupations	5.4	5.7	5.5
Supervisors, food preparation and service			
occupations	7.8	7.8	-
Waiters and waitresses	21.9	21.9	-
Cooks	8.8	9.6	8.6
Kitchen workers, food preparation	5.6	7.5	-
Waiters'/Waitresses' assistants	8.4	8.4	-
Food preparation occupations, N.E.C.	2.0	2.0	-
Health service occupations	3.6	3.6	-
Nursing aides, orderlies and attendants	4.8	4.8	-
Cleaning and building service occupations	4.9	5.0	2.4
Supervisors, cleaning and building service			
workers	6.1	-	-
Maids and housemen	7.3	7.3	-
Janitors and cleaners	6.3	3.4	-
Personal service occupations	-	-	-
Service occupations, N.E.C.	6.9	-	-

¹ The relative standard error is the standard error expressed as a percent of the estimate. Hourly earnings for these occupations are presented in Tables

A-1 and A-2. Reliable relative standard errors could not be determined for all occupations. ² All workers include full-time and part-time workers. Employees are classified as working either a full-time or a part-time schedule based on the definition used by each establishment. Therefore, a worker with a 35-hour-per-week schedule might be considered a full-time employee in one establishment, but classified as part-time in another firm, where a 40-hour week is the minimum full-time schedule. ³ A classification system including about 480 individual occupations is used to cover all workers in

the civilian economy. Individual occupations are

classified into one of nine major occupational groups.

NOTE: Dashes indicate that no data were reported or that data did not meet publication criteria. Overall occupational groups and occupational levels may include data for categories not shown separately. N.E.C. means "not elsewhere classified."

NOTE: Individual and average wage rates were collected in this update survey. A procedure was put into place to "move" the positional statistics where averages were collected. This procedure compares current locality survey data-at the quote level-with the same quote from the prior survey. Individual rates from the prior survey are moved by the average change in mean wages for the occupation.

	All	Full-time	Part-time
	workers	workers	workers
All occupations	5	5	3
All occupations excluding sales	5	5	3
White-collar occupations	6	6	4
White-collar occupations excluding sales	6	6	5
Professional specialty and technical occupations Professional specialty occupations Engineers, architects, and surveyors Mathematical and computer scientists Natural scientists Health related occupations Registered nurses Teachers, college and university Teachers, except college and university Elementary school teachers Secondary school teachers Secondary school teachers Secondary school teachers Social scientists and urban planners Social scientists and urban planners Social, recreation, and religious workers Social, recreation, and religious workers Social workers Lawyers and judges Writers, authors, entertainers, athletes, and professionals, N.E.C. Technical adoratory technologists and technicians Clinical laboratory technologists and technicians Executive, administrative, and managerial occupations Executives, administrators, N.E.C. Management related occupations, N.E.C. Managers and administrators, N.E.C. Sales occupations Supervisors, sales occupations Sales workers, hardware and building supplies Sales workers, other commodities Cashiers Administrators, colucations, N.E.C. Sales workers, hardware and building supplies Sales workers, other commodities Cashiers Administrators, including clerical Secretaries Typists Receptionists Receptionists	8 8 9 - 9 8 9 7 8 7 8 6 7 - 8 6 6 5 6 9 10 11 10 8 7 4 5 4 4 2 4 5 4 2 4	8 8 9 - 9 8 10 8 8 7 8 - - 9 10 11 10 8 7 5 5 5 - 2 4 5 4 2 4	7 7 - - - - - - - - - - - - - - - - - -
Dispatchers	5 4 4 3 3 3 3 4 6 6 6 6 7 3 4 3 5 2 2	_ 4 4 3 3 3 4 3 4 6 6 6 6 7 3 4 3 5 2 2	2

Appendix table 3. Average work levels for selected occupations, all workers, full-time and part-time workers, Springfield, MO, September 1998

Occupation ¹	All workers	Full-time workers	Part-time workers
Blue-collar occupations (-Continued)			
Transportation and material moving occupations (-Continued)			
Truck drivers	4	4	-
Bus drivers	3	-	-
Industrial truck and tractor equipment operators	3	3	-
Miscellaneous material moving equipment operators,			
N.E.C	3	3	-
Handlers, equipment cleaners, helpers, and laborers	2	3	2
Groundskeepers and gardeners except farm	2	-	-
Construction laborers	4	4	-
Production helpers	2	2	-
Stock handlers and baggers	2	3	-
Freight, stock, and material handlers, N.E.C.	3	3	-
Hand packers and packagers	2	2	-
Laborers except construction, N.E.C	3	3	-
-			-
Service occupations	3	4	2
Protective service occupations	6	8	2
Police and detectives, public service	8	8	-
Food service occupations	2	3	2
Supervisors, food preparation and service occupations	5	6	-
Waiters and waitresses	2	-	2
Cooks	4	4	-
Kitchen workers, food preparation	2	-	1
Waiters'/Waitresses' assistants	1	-	1
Food preparation occupations, N.E.C.	2	2	2
Health service occupations	3	3	3
Nursing aides, orderlies and attendants	3	3	3
Cleaning and building service occupations	2	2	2
Supervisors, cleaning and building service workers	5	-	-
Maids and housemen	2	-	-
Janitors and cleaners	2	2	-
Personal service occupations	-	-	-
Service occupations, N.E.C.	2	-	-

Appendix table 3. Average work levels for selected occupations, all workers, full-time and part-time workers, Springfield, MO, September 1998 — Continued

¹ A classification system including about 480 individual occupations is used to cover all workers in the civilian economy. Individual occupations are classified into one of nine major occupational groups. The occupations titled authors, musicians, actors, painters, photographers, dancers, artists, athletes, and legislators cannot be assigned a work level.

NOTE: Dashes indicate that no data were reported or that data did not meet publication criteria. Overall occupational groups and occupational levels may include data for categories not shown separately. N.E.C. means "not elsewhere classified."

NOTE: Individual and average wage rates were collected in this update survey. A procedure was put into place to "move" the positional statistics where averages were collected. This procedure compares current locality survey data-at the quote level-with the same quote from the prior survey. Individual rates from the prior survey are moved by the average change in mean wages for the occupation.