

Kalamazoo–Battle Creek, MI National Compensation Survey October 2001



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Preface

Data shown in this bulletin were collected as part of the Bureau of Labor Statistics (BLS) 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.

Field economists of the Bureau of Labor Statistics collected and reviewed the survey data. 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 prepared the survey for publication.

For additional information regarding this survey, please contact any BLS regional office at the address and telephone number listed on the back cover of this bulletin. 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) 691-6199, or send e-mail to ocltinfo@bls.gov.

The data contained in this bulletin are also available at <http://www.bls.gov/ncs/ocs/compub.htm>, the BLS Internet site. 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.

Results of earlier surveys of this area are also available from BLS regional offices, the Division of Compensation Data Analysis and Planning, or at the BLS Internet site.

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Introduction

The tables in this bulletin summarize the NCS results for the Kalamazoo–Battle Creek, MI, metropolitan area. Data were collected between March 2001 and April 2002; the average reference month is October 2001. Tabulations provide information on earnings of workers in a variety of occupations and at different work levels. Also contained in this bulletin are information on the program, a technical note describing survey procedures, and several appendixes with detailed information on occupational classifications and the occupational leveling methodology.

NCS products

The Bureau's National Compensation Survey provides data on occupational wages and employee benefits for localities, broad geographic regions, and the Nation as a whole. The Employment Cost Index, a quarterly measure of the change in employer costs for wages and benefits, is derived from the NCS. Another product, Employer Costs for Employee Compensation, measures employers' average hourly costs for total compensation, that is, wages and benefits. Still another NCS product measures the incidence of benefit plans and their provisions. This bulletin is limited to data on occupational wages and salaries.

About the tables

The tables that follow present data on straight-time occupational earnings, which include wages and salaries, incentive pay, cost-of-living adjustments, and hazard pay. These earnings exclude premium pay for overtime, vacations, holidays, nonproduction bonuses, and tips. About 480 detailed occupations are used to describe all occupations in the civilian nonfarm economy (excluding the Federal Government and private households). Data are not shown for any occupations if they would raise concerns about the confidentiality of the survey respondents or if the data are insufficient to support reliable estimates.

Table 1–1 presents an overview of all tables in this bulletin. Mean hourly earnings, weekly hours, and relative standard errors are given for all industries, private industry, and State and local government for selected worker and establishment characteristics. The worker characteristics include major occupational group, full-time or part-time status, union or nonunion status, and time or incentive pay. Establishment characteristics include goods and service producing and size of establishment.

Table 2–1 presents estimates of mean hourly earnings, and the relative standard errors associated with them, for detailed occupations within all industries, private industry, and State and local government. Table 2–2 presents the same type of information for full-time workers only. Table 2–3 provides similar data for workers designated as part-time.

Table 3–1 provides mean weekly earnings data, with relative standard errors, and weekly hours for full-time employees in specific occupations across all industries, private industry, and State and local government. Table 3–2 provides annual earnings, relative standard errors, and annual hours for full-time employees in specific occupations.

Table 4–1 provides mean hourly earnings data by work level for occupational groups and for detailed occupations. Separate data are also shown for private industry and government workers. Table 4–2 provides work level data for full-time workers. Table 4–3 provides similar data for workers designated as part-time.

Table 5–1 presents mean hourly earnings data for selected worker characteristics by major occupational groups. The worker characteristics include full-time or part-time designation, union or nonunion status, and time or incentive pay. Table 5–2 presents mean hourly earnings data for major industry divisions by occupational groups; these estimates are limited to the private sector. Table 5–3 presents mean hourly earnings data for establishment employment sizes by major occupational groups within the private sector.

Tables 6–1 through 6–5 present hourly wage percentiles that describe the distribution of hourly earnings for each published occupation. Data are provided for the 10th, 25th, 50th, 75th, and 90th percentiles for detailed occupations within all industries, private industry, State and local government, full-time workers, and part-time workers. These iterations correspond to those presented in tables 2–1, 2–2, and 2–3. For each published occupation, these percentiles relate to the average hourly earnings of jobs surveyed in establishments. The percentiles do not relate to the hourly earnings of individual workers in these establishment jobs.

Appendix table 1 provides the number of workers represented by the survey by major occupational group. The employment estimates relate to all employers in the area, rather than just to those surveyed.

Table 1-1. Summary: Mean hourly earnings¹ and weekly hours by selected characteristics, private industry and State and local government, National Compensation Survey, Kalamazoo-Battle Creek, MI, October 2001

Worker and establishment characteristics	Total			Private industry			State and local government		
	Hourly earnings		Mean weekly hours ³	Hourly earnings		Mean weekly hours ³	Hourly earnings		Mean weekly hours ³
	Mean	Relative error ² (percent)		Mean	Relative error ² (percent)		Mean	Relative error ² (percent)	
Total	\$17.46	3.4	35.8	\$16.45	4.4	35.8	\$21.79	4.0	35.7
Worker characteristics:⁴									
White-collar occupations ⁵	21.94	4.5	36.1	20.94	6.2	36.2	24.65	4.0	35.8
Professional specialty and technical	26.62	4.8	35.7	24.35	5.6	37.0	31.02	4.3	33.5
Executive, administrative, and managerial	28.82	11.1	40.7	28.75	12.9	40.5	29.17	14.7	41.8
Sales	11.35	7.3	29.4	11.35	7.3	29.4	—	—	—
Administrative support	13.21	3.8	36.4	13.21	5.1	35.9	13.20	4.6	37.6
Blue-collar occupations ⁵	14.39	3.0	38.0	14.34	3.2	38.1	15.21	4.2	36.9
Precision production, craft, and repair	20.54	3.6	39.9	20.86	3.9	39.9	17.80	2.8	40.0
Machine operators, assemblers, and inspectors	12.91	3.6	39.4	12.91	3.6	39.4	—	—	—
Transportation and material moving	14.99	5.4	41.3	15.20	5.9	43.2	—	—	—
Handlers, equipment cleaners, helpers, and laborers	10.40	4.0	33.2	10.01	3.7	32.6	—	—	—
Service occupations ⁵	9.87	3.7	30.5	8.31	3.7	29.4	15.06	6.6	34.6
Full time	18.55	3.5	39.8	17.54	4.5	40.2	22.50	3.9	38.3
Part time	9.67	9.1	20.8	9.60	10.2	21.2	10.43	5.2	17.1
Union	18.37	3.7	36.3	15.46	4.3	36.2	22.51	4.8	36.4
Nonunion	17.03	5.1	35.5	16.75	5.5	35.6	20.12	11.0	34.3
Time	17.48	3.5	35.8	16.46	4.4	35.8	21.79	4.0	35.7
Incentive	—	—	—	—	—	—	—	—	—
Establishment characteristics:									
Goods producing	(⁶)	(⁶)	(⁶)	—	—	—	(⁶)	(⁶)	(⁶)
Service producing	(⁶)	(⁶)	(⁶)	13.60	4.4	32.9	(⁶)	(⁶)	(⁶)
50-99 workers ⁷	12.30	7.7	33.4	12.30	7.7	33.4	—	—	—
100-499 workers	17.13	4.2	35.8	16.26	4.4	36.3	23.98	6.7	32.6
500 workers or more	20.49	7.0	36.9	20.34	11.3	36.5	20.71	4.5	37.5

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, and 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 The relative standard error (RSE) is the standard error expressed as a percent of the estimate. It can be used to calculate a "confidence interval" around a sample estimate. For more information about RSEs, see appendix A.

³ Mean weekly hours are the hours an employee is scheduled to work in a week, exclusive of overtime.

⁴ Employees are classified as working either a full-time or a part-time schedule based on the definition used by each establishment. Union workers are those whose wages are determined through collective bargaining. Wages of time workers are based solely on

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.

⁵ A classification system including about 480 individual occupations is used to cover all workers in the civilian economy. See appendix B for more information.

⁶ Classification of establishments into goods-producing and service-producing industries applies to private industry only.

⁷ Establishments classified with 50-99 workers may contain establishments with fewer than 50 due to staff reductions between survey sampling and collection.

NOTE: Dashes indicate that no data were reported or that data did not meet publication criteria.

Table 2-1. Mean hourly earnings,¹ all workers:² Selected occupations, private industry and State and local government, National Compensation Survey, Kalamazoo-Battle Creek, MI, October 2001

Occupation ³	Total		Private industry		State and local government	
	Mean	Relative error ⁴ (percent)	Mean	Relative error ⁴ (percent)	Mean	Relative error ⁴ (percent)
All	\$17.46	3.4	\$16.45	4.4	\$21.79	4.0
All excluding sales	17.77	3.5	16.77	4.5	21.79	4.0
White collar	21.94	4.5	20.94	6.2	24.65	4.0
White collar excluding sales	23.07	4.6	22.40	6.3	24.65	4.0
Professional specialty and technical	26.62	4.8	24.35	5.6	31.02	4.3
Professional specialty	28.66	4.1	26.64	5.8	31.51	4.3
Engineers, architects, and surveyors	32.19	7.4	32.64	7.6	—	—
Mechanical engineers	31.61	9.9	31.61	9.9	—	—
Mathematical and computer scientists	23.91	2.2	23.83	2.5	—	—
Computer systems analysts and scientists	23.60	5.1	—	—	—	—
Natural scientists	—	—	—	—	—	—
Health related	23.61	6.6	23.77	7.2	—	—
Registered nurses	22.66	7.6	22.73	8.5	—	—
Teachers, college and university	—	—	—	—	—	—
Teachers, except college and university	32.15	6.9	—	—	33.52	6.8
Elementary school teachers	34.03	4.8	—	—	35.15	4.5
Librarians, archivists, and curators	—	—	—	—	—	—
Social scientists and urban planners	—	—	—	—	—	—
Social, recreation, and religious workers	21.02	5.9	—	—	—	—
Social workers	21.31	5.9	—	—	—	—
Lawyers and judges	—	—	—	—	—	—
Writers, authors, entertainers, athletes, and professionals, n.e.c.	19.86	9.6	19.07	10.1	—	—
Technical	19.13	5.6	19.02	6.0	—	—
Licensed practical nurses	15.09	3.0	15.09	3.0	—	—
Executive, administrative, and managerial	28.82	11.1	28.75	12.9	29.17	14.7
Executives, administrators, and managers	33.81	13.5	34.23	15.9	32.29	17.4
Financial managers	29.83	14.8	29.83	14.8	—	—
Managers and administrators, n.e.c.	34.27	20.9	35.95	22.3	—	—
Management related	21.35	4.2	21.64	4.4	—	—
Accountants and auditors	21.23	7.1	—	—	—	—
Management related, n.e.c.	22.46	2.4	22.46	2.4	—	—
Sales	11.35	7.3	11.35	7.3	—	—
Supervisors, sales	12.00	10.7	12.00	10.7	—	—
Cashiers	8.64	3.7	8.64	3.7	—	—
Administrative support, including clerical	13.21	3.8	13.21	5.1	13.20	4.6
Secretaries	13.68	4.4	14.07	5.3	13.26	4.2
Order clerks	12.71	6.8	—	—	—	—
Bookkeepers, accounting and auditing clerks	13.64	5.4	12.95	7.6	—	—
Stock and inventory clerks	15.20	14.0	15.20	14.0	—	—
General office clerks	11.61	6.1	11.73	8.9	—	—
Teachers' aides	9.98	3.9	—	—	10.03	4.0
Blue collar	14.39	3.0	14.34	3.2	15.21	4.2
Precision production, craft, and repair	20.54	3.6	20.86	3.9	17.80	2.8
Industrial machinery repairers	18.10	5.3	18.08	5.9	—	—
Mechanics and repairers, n.e.c.	19.42	7.2	19.42	7.2	—	—
Electricians	22.78	9.1	—	—	—	—
Supervisors, production	20.54	6.9	20.54	6.9	—	—
Machine operators, assemblers, and inspectors	12.91	3.6	12.91	3.6	—	—
Numerical control machine operators	13.58	6.6	13.58	6.6	—	—
Packaging and filling machine operators	13.48	5.5	13.48	5.5	—	—
Miscellaneous machine operators, n.e.c.	15.97	5.8	15.97	5.8	—	—
Welders and cutters	19.31	14.0	19.31	14.0	—	—
Assemblers	11.26	2.7	11.26	2.7	—	—
Production inspectors, checkers and examiners ..	11.56	11.8	11.56	11.8	—	—
Transportation and material moving	14.99	5.4	15.20	5.9	—	—
Truck drivers	15.69	7.9	15.69	7.9	—	—

See footnotes at end of table.

Table 2-1. Mean hourly earnings,¹ all workers:² Selected occupations, private industry and State and local government, National Compensation Survey, Kalamazoo-Battle Creek, MI, October 2001 — Continued

Occupation ³	Total		Private industry		State and local government	
	Mean	Relative error ⁴ (percent)	Mean	Relative error ⁴ (percent)	Mean	Relative error ⁴ (percent)
Blue collar —Continued						
Transportation and material moving —Continued						
Industrial truck and tractor equipment operators ..	\$13.85	5.2	\$13.85	5.2	—	—
Handlers, equipment cleaners, helpers, and laborers	10.40	4.0	10.01	3.7	—	—
Groundskeepers and gardeners, except farm	12.40	7.4	—	—	—	—
Production helpers	13.42	4.5	13.42	4.5	—	—
Stock handlers and baggers	8.96	5.3	8.86	5.2	—	—
Hand packers and packagers	9.32	5.8	9.32	5.8	—	—
Service	9.87	3.7	8.31	3.7	\$15.06	6.6
Protective service	15.01	19.3	—	—	21.24	14.8
Guards and police, except public service	8.60	9.4	—	—	—	—
Food service	7.32	6.2	7.09	7.0	—	—
Waiters, waitresses, and bartenders	3.85	13.2	3.85	13.2	—	—
Waiters and waitresses	3.70	20.1	3.70	20.1	—	—
Other food service	8.45	5.0	8.32	5.8	—	—
Cooks	9.57	5.8	9.62	7.0	—	—
Food preparation, n.e.c.	7.21	3.3	7.02	2.5	—	—
Health service	10.11	3.7	9.65	2.9	—	—
Nursing aides, orderlies and attendants	10.14	4.1	9.64	3.1	—	—
Cleaning and building service	10.82	5.5	9.92	6.1	—	—
Janitors and cleaners	10.97	5.9	10.00	6.7	—	—
Personal service	11.18	6.6	10.00	7.8	12.60	9.8
Child care workers, n.e.c.	10.87	9.0	—	—	—	—

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.

³ A classification system including about 480 individual occupations is used to cover all workers in the civilian economy. See appendix B for more information.

⁴ The relative standard error (RSE) is the standard error expressed as a percent of the estimate. It can be used to calculate a "confidence interval" around a sample estimate. For more information about RSEs, see appendix A.

NOTE: Dashes indicate that no data were reported or that data did not meet publication criteria, and n.e.c. means "not elsewhere classified." Overall occupational groups may include data for categories not shown separately.

Table 2-2. Mean hourly earnings,¹ full-time workers:² Selected occupations, private industry and State and local government, National Compensation Survey, Kalamazoo-Battle Creek, MI, October 2001

Occupation ³	Total		Private industry		State and local government	
	Mean	Relative error ⁴ (percent)	Mean	Relative error ⁴ (percent)	Mean	Relative error ⁴ (percent)
All	\$18.55	3.5	\$17.54	4.5	\$22.50	3.9
All excluding sales	18.69	3.6	17.68	4.7	22.50	3.9
White collar	22.98	4.7	22.12	6.4	25.11	4.2
White collar excluding sales	23.56	4.8	22.87	6.7	25.11	4.2
Professional specialty and technical	27.27	5.1	24.67	6.2	31.96	3.8
Professional specialty	29.52	4.2	27.17	6.6	32.52	3.9
Engineers, architects, and surveyors	32.19	7.4	32.64	7.6	—	—
Mechanical engineers	31.61	9.9	31.61	9.9	—	—
Mathematical and computer scientists	23.91	2.2	23.83	2.5	—	—
Computer systems analysts and scientists	23.60	5.1	—	—	—	—
Natural scientists	—	—	—	—	—	—
Health related	23.67	9.1	23.90	10.4	—	—
Registered nurses	23.27	9.7	23.46	11.1	—	—
Teachers, college and university	—	—	—	—	—	—
Teachers, except college and university	34.17	6.1	—	—	35.35	6.0
Elementary school teachers	34.03	4.8	—	—	35.15	4.5
Librarians, archivists, and curators	—	—	—	—	—	—
Social scientists and urban planners	—	—	—	—	—	—
Social, recreation, and religious workers	21.02	5.9	—	—	—	—
Social workers	21.31	5.9	—	—	—	—
Lawyers and judges	—	—	—	—	—	—
Writers, authors, entertainers, athletes, and professionals, n.e.c.	19.86	9.6	19.07	10.1	—	—
Technical	19.53	5.3	19.45	5.7	—	—
Executive, administrative, and managerial	28.87	11.2	28.81	12.9	29.17	14.7
Executives, administrators, and managers	33.94	13.5	34.40	15.9	32.29	17.4
Financial managers	29.83	14.8	29.83	14.8	—	—
Managers and administrators, n.e.c.	34.51	21.0	36.27	22.3	—	—
Management related	21.35	4.2	21.64	4.4	—	—
Accountants and auditors	21.23	7.1	—	—	—	—
Management related, n.e.c.	22.46	2.4	22.46	2.4	—	—
Sales	14.26	8.3	14.26	8.3	—	—
Supervisors, sales	12.00	10.7	12.00	10.7	—	—
Cashiers	9.95	2.5	9.95	2.5	—	—
Administrative support, including clerical	13.53	3.9	13.66	5.2	13.29	4.6
Secretaries	13.69	4.4	14.08	5.3	13.26	4.2
Order clerks	13.29	6.5	12.43	4.3	—	—
Bookkeepers, accounting and auditing clerks	13.64	5.4	12.95	7.6	—	—
Stock and inventory clerks	15.79	13.5	15.79	13.5	—	—
General office clerks	12.26	6.7	12.91	9.2	—	—
Blue collar	14.81	3.0	14.75	3.2	15.74	3.9
Precision production, craft, and repair	20.59	3.6	20.91	3.9	17.80	2.8
Industrial machinery repairers	18.10	5.3	18.08	5.9	—	—
Mechanics and repairers, n.e.c.	19.42	7.2	19.42	7.2	—	—
Electricians	22.78	9.1	—	—	—	—
Supervisors, production	20.54	6.9	20.54	6.9	—	—
Machine operators, assemblers, and inspectors	12.91	3.6	12.91	3.6	—	—
Numerical control machine operators	13.58	6.6	13.58	6.6	—	—
Packaging and filling machine operators	13.48	5.5	13.48	5.5	—	—
Miscellaneous machine operators, n.e.c.	15.97	5.8	15.97	5.8	—	—
Welders and cutters	19.31	14.0	19.31	14.0	—	—
Assemblers	11.26	2.7	11.26	2.7	—	—
Production inspectors, checkers and examiners ..	11.56	11.8	11.56	11.8	—	—
Transportation and material moving	15.18	5.6	15.20	5.9	—	—
Truck drivers	15.69	7.9	15.69	7.9	—	—
Industrial truck and tractor equipment operators ..	13.85	5.2	13.85	5.2	—	—

See footnotes at end of table.

Table 2-2. Mean hourly earnings,¹ full-time workers:² Selected occupations, private industry and State and local government, National Compensation Survey, Kalamazoo-Battle Creek, MI, October 2001 — Continued

Occupation ³	Total		Private industry		State and local government	
	Mean	Relative error ⁴ (percent)	Mean	Relative error ⁴ (percent)	Mean	Relative error ⁴ (percent)
Blue collar —Continued						
Handlers, equipment cleaners, helpers, and laborers	\$11.09	4.4	\$10.68	4.3	—	—
Production helpers	13.42	4.5	13.42	4.5	—	—
Stock handlers and baggers	10.38	6.6	10.25	6.7	—	—
Hand packers and packagers	9.38	5.9	9.38	5.9	—	—
Service	11.17	4.2	9.12	4.4	\$15.87	7.4
Protective service	15.58	19.1	—	—	21.37	15.4
Food service	8.43	7.4	8.29	8.6	—	—
Other food service	9.25	5.6	9.23	6.6	—	—
Cooks	9.67	6.1	9.74	7.4	—	—
Health service	10.64	3.8	9.82	2.5	—	—
Nursing aides, orderlies and attendants	10.64	3.8	9.82	2.5	—	—
Cleaning and building service	11.14	5.9	10.25	7.1	—	—
Janitors and cleaners	11.17	6.2	10.20	7.5	—	—
Personal service	12.85	6.0	11.20	7.9	—	—

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 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. See appendix B for more information.

⁴ The relative standard error (RSE) is the standard error expressed as a percent of the estimate. It can be used to calculate a "confidence interval" around a sample estimate. For more information about RSEs, see appendix A.

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Table 2-3. Mean hourly earnings,¹ part-time workers:² Selected occupations, private industry and State and local government, National Compensation Survey, Kalamazoo-Battle Creek, MI, October 2001

Occupation ³	Total		Private industry		State and local government	
	Mean	Relative error ⁴ (percent)	Mean	Relative error ⁴ (percent)	Mean	Relative error ⁴ (percent)
All	\$9.67	9.1	\$9.60	10.2	\$10.43	5.2
All excluding sales	10.13	10.0	10.10	11.3	10.43	5.2
White collar	12.66	13.8	12.81	14.6	—	—
White collar excluding sales	16.23	12.7	17.11	12.1	—	—
Professional specialty and technical	20.13	12.9	21.90	10.4	—	—
Professional specialty	21.24	11.9	23.51	7.9	—	—
Health related	23.46	7.4	23.46	7.4	—	—
Registered nurses	20.70	1.6	20.70	1.6	—	—
Teachers, college and university	—	—	—	—	—	—
Teachers, except college and university	10.85	13.2	—	—	—	—
Technical	—	—	—	—	—	—
Executive, administrative, and managerial	—	—	—	—	—	—
Executives, administrators, and managers	—	—	—	—	—	—
Sales	7.33	2.0	7.33	2.0	—	—
Cashiers	7.37	4.0	7.37	4.0	—	—
Administrative support, including clerical	9.52	6.4	9.53	7.1	—	—
Blue collar	8.39	9.0	7.97	10.6	—	—
Precision production, craft, and repair	—	—	—	—	—	—
Machine operators, assemblers, and inspectors	—	—	—	—	—	—
Transportation and material moving	—	—	—	—	—	—
Handlers, equipment cleaners, helpers, and laborers	7.98	10.9	7.98	10.9	—	—
Stock handlers and baggers	6.94	2.7	6.94	2.7	—	—
Service	7.23	5.7	7.07	6.1	—	—
Protective service	—	—	—	—	—	—
Food service	5.90	7.2	5.68	6.7	—	—
Waiters, waitresses, and bartenders	3.94	17.5	3.94	17.5	—	—
Waiters and waitresses	4.55	30.8	4.55	30.8	—	—
Other food service	7.07	4.3	6.85	3.6	—	—
Food preparation, n.e.c.	7.16	4.7	6.87	3.6	—	—
Health service	9.48	4.5	9.48	4.5	—	—
Nursing aides, orderlies and attendants	9.42	5.3	9.42	5.3	—	—
Cleaning and building service	—	—	—	—	—	—
Personal service	8.08	5.5	8.38	5.6	—	—

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 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.

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⁴ The relative standard error (RSE) is the standard error expressed as a percent of the estimate. It can be used to calculate a "confidence interval" around a sample estimate. For more information about RSEs, see appendix A.

NOTE: Dashes indicate that no data were reported or that data did not meet publication criteria, and n.e.c. means "not elsewhere classified." Overall occupational groups may include data for categories not shown separately.

Table 3-1. Mean weekly earnings,¹ full-time workers:² Selected occupations, private industry and State and local government, National Compensation Survey, Kalamazoo-Battle Creek, MI, October 2001

Occupation ³	Total			Private industry			State and local government		
	Weekly earnings		Mean weekly hours ⁵	Weekly earnings		Mean weekly hours ⁵	Weekly earnings		Mean weekly hours ⁵
	Mean	Relative error ⁴ (percent)		Mean	Relative error ⁴ (percent)		Mean	Relative error ⁴ (percent)	
All	\$738	3.6	39.8	\$705	4.5	40.2	\$863	4.0	38.3
All excluding sales	744	3.7	39.8	710	4.7	40.2	863	4.0	38.3
White collar	907	4.7	39.5	888	6.4	40.2	952	4.3	37.9
White collar excluding sales	930	4.8	39.5	919	6.7	40.2	952	4.3	37.9
Professional specialty and technical	1,058	4.5	38.8	985	6.2	39.9	1,179	2.6	36.9
Professional specialty	1,137	3.7	38.5	1,087	6.6	40.0	1,195	2.5	36.7
Engineers, architects, and surveyors	1,305	7.3	40.5	1,324	7.5	40.6	-	-	-
Mechanical engineers	1,264	9.9	40.0	1,264	9.9	40.0	-	-	-
Mathematical and computer scientists	956	2.2	40.0	953	2.5	40.0	-	-	-
Computer systems analysts and scientists	944	5.1	40.0	-	-	-	-	-	-
Natural scientists	-	-	-	-	-	-	-	-	-
Health related	947	9.1	40.0	956	10.4	40.0	-	-	-
Registered nurses	931	9.7	40.0	938	11.1	40.0	-	-	-
Teachers, college and university	-	-	-	-	-	-	-	-	-
Teachers, except college and university	1,176	2.7	34.4	-	-	-	1,203	1.9	34.0
Elementary school teachers ...	1,182	2.7	34.7	-	-	-	1,208	1.5	34.4
Librarians, archivists, and curators	-	-	-	-	-	-	-	-	-
Social scientists and urban planners	-	-	-	-	-	-	-	-	-
Social, recreation, and religious workers	836	5.5	39.8	-	-	-	-	-	-
Social workers	847	5.5	39.8	-	-	-	-	-	-
Lawyers and judges	-	-	-	-	-	-	-	-	-
Writers, authors, entertainers, athletes, and professionals, n.e.c.	795	9.6	40.0	763	10.1	40.0	-	-	-
Technical	776	5.3	39.7	773	5.7	39.7	-	-	-
Executive, administrative, and managerial	1,182	11.2	40.9	1,174	12.9	40.8	1,220	18.0	41.8
Executives, administrators, and managers	1,413	13.3	41.6	1,426	15.4	41.4	1,368	21.7	42.4
Financial managers	1,218	14.9	40.8	1,218	14.9	40.8	-	-	-
Managers and administrators, n.e.c.	1,418	20.4	41.1	1,500	21.4	41.4	-	-	-
Management related	852	4.3	39.9	863	4.4	39.9	-	-	-
Accountants and auditors	847	7.2	39.9	-	-	-	-	-	-
Management related, n.e.c.	899	2.4	40.0	899	2.4	40.0	-	-	-
Sales	568	8.3	39.8	568	8.3	39.8	-	-	-
Supervisors, sales	480	10.7	40.0	480	10.7	40.0	-	-	-
Cashiers	398	2.5	40.0	398	2.5	40.0	-	-	-
Administrative support, including clerical	531	4.2	39.3	546	5.2	40.0	506	5.8	38.1
Secretaries	544	4.8	39.7	563	5.3	40.0	522	5.2	39.4
Order clerks	532	6.5	40.0	497	4.3	40.0	-	-	-
Bookkeepers, accounting and auditing clerks	546	5.4	40.0	518	7.6	40.0	-	-	-
Stock and inventory clerks	632	13.5	40.0	632	13.5	40.0	-	-	-
General office clerks	489	6.7	39.9	514	9.2	39.8	-	-	-
Blue collar	596	3.3	40.2	594	3.5	40.3	619	4.8	39.3
Precision production, craft, and repair	827	3.7	40.1	840	4.1	40.2	712	2.8	40.0

See footnotes at end of table.

Table 3-1. Mean weekly earnings,¹ full-time workers:² Selected occupations, private industry and State and local government, National Compensation Survey, Kalamazoo-Battle Creek, MI, October 2001 — Continued

Occupation ³	Total			Private industry			State and local government		
	Weekly earnings		Mean weekly hours ⁵	Weekly earnings		Mean weekly hours ⁵	Weekly earnings		Mean weekly hours ⁵
	Mean	Relative error ⁴ (percent)		Mean	Relative error ⁴ (percent)		Mean	Relative error ⁴ (percent)	
Blue collar —Continued									
Precision production, craft, and repair —Continued									
Industrial machinery repairers	\$724	5.3	40.0	\$723	5.9	40.0	—	—	—
Mechanics and repairers, n.e.c.	777	7.2	40.0	777	7.2	40.0	—	—	—
Electricians	911	9.1	40.0	—	—	—	—	—	—
Supervisors, production	822	6.9	40.0	822	6.9	40.0	—	—	—
Machine operators, assemblers, and inspectors	510	3.8	39.5	510	3.8	39.5	—	—	—
Numerical control machine operators	543	6.6	40.0	543	6.6	40.0	—	—	—
Packaging and filling machine operators	539	5.5	40.0	539	5.5	40.0	—	—	—
Miscellaneous machine operators, n.e.c.	625	5.6	39.1	625	5.6	39.1	—	—	—
Welders and cutters	772	14.0	40.0	772	14.0	40.0	—	—	—
Assemblers	442	3.1	39.2	442	3.1	39.2	—	—	—
Production inspectors, checkers and examiners ...	462	11.8	40.0	462	11.8	40.0	—	—	—
Transportation and material moving	648	8.1	42.7	656	8.5	43.2	—	—	—
Truck drivers	695	11.8	44.3	695	11.8	44.3	—	—	—
Industrial truck and tractor equipment operators	549	5.7	39.7	549	5.7	39.7	—	—	—
Handlers, equipment cleaners, helpers, and laborers	443	4.4	40.0	427	4.3	40.0	—	—	—
Production helpers	537	4.5	40.0	537	4.5	40.0	—	—	—
Stock handlers and baggers ...	414	6.6	39.9	409	6.7	39.9	—	—	—
Hand packers and packagers	375	5.8	40.0	375	5.8	40.0	—	—	—
Service	443	4.2	39.7	362	4.5	39.7	\$627	7.6	39.5
Protective service	623	19.1	40.0	—	—	—	855	15.4	40.0
Food service	334	7.7	39.6	328	8.9	39.6	—	—	—
Other food service	368	5.6	39.8	366	6.6	39.7	—	—	—
Cooks	385	6.0	39.8	387	7.4	39.7	—	—	—
Health service	422	3.8	39.7	389	2.7	39.6	—	—	—
Nursing aides, orderlies and attendants	422	3.8	39.7	389	2.7	39.6	—	—	—
Cleaning and building service	445	5.9	39.9	409	7.1	39.9	—	—	—
Janitors and cleaners	446	6.2	39.9	407	7.5	39.9	—	—	—
Personal service	494	7.4	38.5	448	7.9	40.0	—	—	—

¹ Earnings are the straight-time weekly 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 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. See appendix B for more information.

⁴ The relative standard error (RSE) is the standard error expressed as a percent of the estimate. It can be used to calculate a "confidence interval" around a sample estimate. For more information about RSEs, see appendix A.

⁵ 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, and n.e.c. means "not elsewhere classified." Overall occupational groups may include data for categories not shown separately.

Table 3-2. Mean annual earnings,¹ full-time workers:² Selected occupations, private industry and State and local government, National Compensation Survey, Kalamazoo-Battle Creek, MI, October 2001

Occupation ³	Total			Private industry			State and local government		
	Annual earnings		Mean annual hours ⁵	Annual earnings		Mean annual hours ⁵	Annual earnings		Mean annual hours ⁵
	Mean	Relative error ⁴ (percent)		Mean	Relative error ⁴ (percent)		Mean	Relative error ⁴ (percent)	
All	\$37,116	3.6	2,001	\$36,515	4.5	2,081	\$39,081	4.0	1,737
All excluding sales	37,356	3.7	1,998	36,805	4.7	2,082	39,081	4.0	1,737
White collar	44,505	4.7	1,937	45,860	6.4	2,073	41,815	4.3	1,665
White collar excluding sales	45,432	4.8	1,928	47,428	6.7	2,073	41,815	4.3	1,665
Professional specialty and technical	49,445	4.5	1,813	50,401	6.2	2,043	48,177	2.6	1,508
Professional specialty	51,678	3.7	1,751	55,214	6.6	2,032	48,373	2.5	1,487
Engineers, architects, and surveyors	67,876	7.3	2,108	68,873	7.5	2,110	-	-	-
Mechanical engineers	65,741	9.9	2,080	65,741	9.9	2,080	-	-	-
Mathematical and computer scientists	49,727	2.2	2,080	49,568	2.5	2,080	-	-	-
Computer systems analysts and scientists	49,084	5.1	2,080	-	-	-	-	-	-
Natural scientists	-	-	-	-	-	-	-	-	-
Health related	49,239	9.1	2,080	49,715	10.4	2,080	-	-	-
Registered nurses	48,408	9.7	2,080	48,787	11.1	2,080	-	-	-
Teachers, college and university	-	-	-	-	-	-	-	-	-
Teachers, except college and university	44,783	2.7	1,311	-	-	-	45,810	1.9	1,296
Elementary school teachers	44,757	2.7	1,315	-	-	-	45,719	1.5	1,301
Librarians, archivists, and curators	-	-	-	-	-	-	-	-	-
Social scientists and urban planners	-	-	-	-	-	-	-	-	-
Social, recreation, and religious workers	43,465	5.5	2,068	-	-	-	-	-	-
Social workers	44,062	5.5	2,068	-	-	-	-	-	-
Lawyers and judges	-	-	-	-	-	-	-	-	-
Writers, authors, entertainers, athletes, and professionals, n.e.c.	41,318	9.6	2,080	39,666	10.1	2,080	-	-	-
Technical	40,361	5.3	2,067	40,182	5.7	2,066	-	-	-
Executive, administrative, and managerial	61,071	11.2	2,115	60,813	12.9	2,111	62,392	18.0	2,139
Executives, administrators, and managers	72,755	13.3	2,143	73,607	15.4	2,140	69,618	21.7	2,156
Financial managers	63,334	14.9	2,123	63,334	14.9	2,123	-	-	-
Managers and administrators, n.e.c.	73,755	20.4	2,137	78,014	21.4	2,151	-	-	-
Management related	44,302	4.3	2,075	44,899	4.4	2,075	-	-	-
Accountants and auditors	44,051	7.2	2,075	-	-	-	-	-	-
Management related, n.e.c.	46,763	2.4	2,082	46,763	2.4	2,082	-	-	-
Sales	29,552	8.3	2,072	29,552	8.3	2,072	-	-	-
Supervisors, sales	24,968	10.7	2,080	24,968	10.7	2,080	-	-	-
Cashiers	20,687	2.5	2,080	20,687	2.5	2,080	-	-	-
Administrative support, including clerical	26,562	4.2	1,964	28,374	5.2	2,078	23,727	5.8	1,785
Secretaries	28,273	4.8	2,066	29,287	5.3	2,080	27,169	5.2	2,050
Order clerks	27,650	6.5	2,080	25,849	4.3	2,080	-	-	-
Bookkeepers, accounting and auditing clerks	28,371	5.4	2,080	26,935	7.6	2,080	-	-	-
Stock and inventory clerks	32,845	13.5	2,080	32,845	13.5	2,080	-	-	-
General office clerks	25,434	6.7	2,075	26,744	9.2	2,071	-	-	-
Blue collar	30,916	3.3	2,087	30,886	3.5	2,093	31,362	4.8	1,993
Precision production, craft, and repair	42,962	3.7	2,086	43,642	4.1	2,087	37,021	2.8	2,080

See footnotes at end of table.

Table 3-2. Mean annual earnings,¹ full-time workers:² Selected occupations, private industry and State and local government, National Compensation Survey, Kalamazoo-Battle Creek, MI, October 2001 — Continued

Occupation ³	Total			Private industry			State and local government		
	Annual earnings		Mean annual hours ⁵	Annual earnings		Mean annual hours ⁵	Annual earnings		Mean annual hours ⁵
	Mean	Relative error ⁴ (percent)		Mean	Relative error ⁴ (percent)		Mean	Relative error ⁴ (percent)	
Blue collar —Continued									
Precision production, craft, and repair —Continued									
Industrial machinery repairers	\$37,644	5.3	2,080	\$37,607	5.9	2,080	—	—	—
Mechanics and repairers, n.e.c.	40,396	7.2	2,080	40,396	7.2	2,080	—	—	—
Electricians	47,321	9.1	2,077	—	—	—	—	—	—
Supervisors, production	42,733	6.9	2,080	42,733	6.9	2,080	—	—	—
Machine operators, assemblers, and inspectors	26,496	3.8	2,052	26,496	3.8	2,052	—	—	—
Numerical control machine operators	28,252	6.6	2,080	28,252	6.6	2,080	—	—	—
Packaging and filling machine operators	28,032	5.5	2,080	28,032	5.5	2,080	—	—	—
Miscellaneous machine operators, n.e.c.	32,475	5.6	2,034	32,475	5.6	2,034	—	—	—
Welders and cutters	40,029	14.0	2,073	40,029	14.0	2,073	—	—	—
Assemblers	22,972	3.1	2,041	22,972	3.1	2,041	—	—	—
Production inspectors, checkers and examiners ...	23,974	11.8	2,074	23,974	11.8	2,074	—	—	—
Transportation and material moving	33,333	8.1	2,196	34,122	8.5	2,244	—	—	—
Truck drivers	36,136	11.8	2,303	36,136	11.8	2,303	—	—	—
Industrial truck and tractor equipment operators	28,555	5.7	2,062	28,555	5.7	2,062	—	—	—
Handlers, equipment cleaners, helpers, and laborers	23,051	4.4	2,079	22,187	4.3	2,078	—	—	—
Production helpers	27,921	4.5	2,080	27,921	4.5	2,080	—	—	—
Stock handlers and baggers ...	21,538	6.6	2,075	21,265	6.7	2,075	—	—	—
Hand packers and packagers	19,505	5.8	2,080	19,505	5.8	2,080	—	—	—
Service	22,576	4.2	2,021	18,847	4.5	2,066	\$30,540	7.6	1,925
Protective service	32,399	19.1	2,080	—	—	—	44,450	15.4	2,080
Food service	16,439	7.7	1,950	17,059	8.9	2,059	—	—	—
Other food service	17,921	5.6	1,937	19,052	6.6	2,065	—	—	—
Cooks	18,297	6.0	1,892	20,110	7.4	2,064	—	—	—
Health service	21,963	3.8	2,063	20,229	2.7	2,061	—	—	—
Nursing aides, orderlies and attendants	21,963	3.8	2,063	20,229	2.7	2,061	—	—	—
Cleaning and building service	23,127	5.9	2,076	21,262	7.1	2,074	—	—	—
Janitors and cleaners	23,199	6.2	2,076	21,148	7.5	2,074	—	—	—
Personal service	25,713	7.4	2,001	23,288	7.9	2,080	—	—	—

¹ Earnings are the straight-time annual 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 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.

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cover all workers in the civilian economy. See appendix B for more information.

⁴ The relative standard error (RSE) is the standard error expressed as a percent of the estimate. It can be used to calculate a "confidence interval" around a sample estimate. For more information about RSEs, see appendix A.

⁵ Mean annual hours are the hours an employee is scheduled to work in a year, exclusive of overtime.

NOTE: Dashes indicate that no data were reported or that data did not meet publication criteria, and n.e.c. means "not elsewhere classified." Overall occupational groups may include data for categories not shown separately.

Table 4-1. Selected occupations¹ and levels,² all workers:³ Mean hourly earnings,⁴ private industry and State and local government, National Compensation Survey, Kalamazoo-Battle Creek, MI, October 2001

Occupation and level	Total		Private industry		State and local government	
	Mean	Relative error ⁵ (percent)	Mean	Relative error ⁵ (percent)	Mean	Relative error ⁵ (percent)
All	\$17.46	3.4	\$16.45	4.4	\$21.79	4.0
All excluding sales	17.77	3.5	16.77	4.5	21.79	4.0
White collar	21.94	4.5	20.94	6.2	24.65	4.0
1	7.31	2.6	7.31	2.6	—	—
2	8.92	5.0	8.72	4.7	—	—
3	9.60	3.3	9.32	4.0	10.08	4.7
4	12.89	2.6	12.89	3.1	12.90	4.7
5	15.18	5.2	15.76	7.8	14.34	3.5
6	18.34	3.8	18.48	4.0	—	—
7	20.72	3.5	21.39	3.7	18.69	4.4
8	24.33	6.1	21.21	3.8	30.71	8.1
9	27.82	6.7	23.38	4.5	32.61	7.6
10	27.34	4.4	27.34	4.4	—	—
11	34.03	5.2	34.77	7.2	32.76	6.1
12	36.42	8.7	37.10	9.5	—	—
13	50.99	5.2	52.93	5.8	—	—
Not able to be leveled	21.15	8.6	20.88	9.3	—	—
White collar excluding sales	23.07	4.6	22.40	6.3	24.65	4.0
1	7.83	3.3	7.83	3.3	—	—
2	9.42	4.0	9.14	3.5	—	—
3	10.05	3.1	10.03	4.0	10.08	4.7
4	13.31	2.5	13.44	2.9	12.90	4.7
5	15.44	5.2	16.29	8.0	14.34	3.5
6	18.34	3.8	18.48	4.0	—	—
7	20.62	3.6	21.26	3.8	18.69	4.4
8	24.52	6.2	21.27	3.8	30.71	8.1
9	27.63	7.1	22.64	4.6	32.61	7.6
10	27.34	4.4	27.34	4.4	—	—
11	34.03	5.2	34.77	7.2	32.76	6.1
12	36.42	8.7	37.10	9.5	—	—
13	50.99	5.2	52.93	5.8	—	—
Not able to be leveled	21.15	8.6	20.88	9.3	—	—
Professional specialty and technical	26.62	4.8	24.35	5.6	31.02	4.3
Professional specialty	28.66	4.1	26.64	5.8	31.51	4.3
7	23.56	4.2	23.68	4.4	—	—
8	26.98	7.2	22.25	4.5	33.09	5.8
9	31.11	7.0	24.67	5.8	32.99	7.6
11	34.01	13.8	—	—	—	—
12	40.26	6.0	—	—	—	—
13	49.09	6.7	—	—	—	—
Engineers, architects, and surveyors	32.19	7.4	32.64	7.6	—	—
Mechanical engineers	31.61	9.9	31.61	9.9	—	—
Mathematical and computer scientists	23.91	2.2	23.83	2.5	—	—
Computer systems analysts and scientists	23.60	5.1	—	—	—	—
Natural scientists	—	—	—	—	—	—
Health related	23.61	6.6	23.77	7.2	—	—
8	21.03	1.4	21.02	1.5	—	—
Registered nurses	22.66	7.6	22.73	8.5	—	—
8	21.03	1.4	21.02	1.5	—	—
Teachers, college and university	—	—	—	—	—	—
Teachers, except college and university	32.15	6.9	—	—	33.52	6.8
8	32.74	7.7	—	—	34.68	4.7
9	36.04	9.6	—	—	36.04	9.6
Elementary school teachers	34.03	4.8	—	—	35.15	4.5
Librarians, archivists, and curators	—	—	—	—	—	—
Social scientists and urban planners	—	—	—	—	—	—
Social, recreation, and religious workers	21.02	5.9	—	—	—	—
Social workers	21.31	5.9	—	—	—	—
Lawyers and judges	—	—	—	—	—	—
Writers, authors, entertainers, athletes, and professionals, n.e.c.	19.86	9.6	19.07	10.1	—	—
Technical	19.13	5.6	19.02	6.0	—	—
4	14.01	4.7	14.01	4.7	—	—
5	15.09	2.7	15.09	2.7	—	—

See footnotes at end of table.

Table 4-1. **Selected occupations¹ and levels,² all workers:³ Mean hourly earnings,⁴ private industry and State and local government, National Compensation Survey, Kalamazoo-Battle Creek, MI, October 2001** — Continued

Occupation and level	Total		Private industry		State and local government	
	Mean	Relative error ⁵ (percent)	Mean	Relative error ⁵ (percent)	Mean	Relative error ⁵ (percent)
White collar —Continued						
Professional specialty and technical —Continued						
Technical —Continued						
7	\$19.86	2.1	—	—	—	—
Licensed practical nurses	15.09	3.0	\$15.09	3.0	—	—
Executive, administrative, and managerial	28.82	11.1	28.75	12.9	\$29.17	14.7
7	19.81	3.1	20.47	5.9	—	—
8	19.20	3.4	19.27	3.4	—	—
9	20.41	6.7	20.30	7.2	—	—
11	34.04	4.3	32.64	5.5	—	—
Executives, administrators, and managers	33.81	13.5	34.23	15.9	32.29	17.4
8	18.37	8.1	—	—	—	—
9	16.20	10.1	16.20	10.1	—	—
11	34.04	4.3	32.64	5.5	—	—
Financial managers	29.83	14.8	29.83	14.8	—	—
Managers and administrators, n.e.c.	34.27	20.9	35.95	22.3	—	—
11	34.74	3.4	—	—	—	—
Management related	21.35	4.2	21.64	4.4	—	—
8	19.58	3.4	20.21	4.6	—	—
Accountants and auditors	21.23	7.1	—	—	—	—
Management related, n.e.c.	22.46	2.4	22.46	2.4	—	—
Sales	11.35	7.3	11.35	7.3	—	—
1	6.99	4.3	6.99	4.3	—	—
2	8.19	7.0	8.19	7.0	—	—
3	8.20	5.2	8.20	5.2	—	—
4	10.96	4.8	10.96	4.8	—	—
5	11.19	7.2	11.19	7.2	—	—
Supervisors, sales	12.00	10.7	12.00	10.7	—	—
Cashiers	8.64	3.7	8.64	3.7	—	—
1	7.17	4.2	7.17	4.2	—	—
Administrative support, including clerical	13.21	3.8	13.21	5.1	13.20	4.6
2	9.42	4.0	9.14	3.5	—	—
3	10.05	3.1	10.03	4.0	10.08	4.7
4	13.20	3.0	13.32	3.6	12.90	4.7
5	16.25	7.2	16.63	10.9	—	—
6	17.62	6.9	—	—	—	—
7	17.96	3.9	—	—	—	—
Secretaries	13.68	4.4	14.07	5.3	13.26	4.2
4	13.72	6.1	—	—	—	—
5	14.21	5.4	—	—	—	—
Order clerks	12.71	6.8	—	—	—	—
Bookkeepers, accounting and auditing clerks	13.64	5.4	12.95	7.6	—	—
Stock and inventory clerks	15.20	14.0	15.20	14.0	—	—
General office clerks	11.61	6.1	11.73	8.9	—	—
3	10.84	3.5	10.09	3.3	—	—
Teachers' aides	9.98	3.9	—	—	10.03	4.0
Blue collar	14.39	3.0	14.34	3.2	15.21	4.2
1	8.35	4.6	8.35	4.6	—	—
2	11.36	3.9	11.35	4.1	—	—
3	14.29	5.1	14.36	5.6	—	—
4	14.49	4.1	14.49	4.2	—	—
5	15.26	5.3	14.91	5.6	—	—
6	18.09	3.5	18.28	3.8	—	—
7	22.98	4.0	23.70	3.8	—	—
8	27.23	4.6	27.23	4.6	—	—
Precision production, craft, and repair	20.54	3.6	20.86	3.9	17.80	2.8
4	15.75	5.3	15.75	5.3	—	—
5	16.05	6.6	15.53	7.6	—	—
6	18.43	4.3	18.43	4.3	—	—

See footnotes at end of table.

Table 4-1. **Selected occupations¹ and levels,² all workers:³ Mean hourly earnings,⁴ private industry and State and local government, National Compensation Survey, Kalamazoo-Battle Creek, MI, October 2001** — Continued

Occupation and level	Total		Private industry		State and local government	
	Mean	Relative error ⁵ (percent)	Mean	Relative error ⁵ (percent)	Mean	Relative error ⁵ (percent)
Blue collar —Continued						
Precision production, craft, and repair —Continued						
7	\$23.18	4.1	\$24.12	3.5	—	—
8	27.23	4.6	27.23	4.6	—	—
Industrial machinery repairers	18.10	5.3	18.08	5.9	—	—
Mechanics and repairers, n.e.c.	19.42	7.2	19.42	7.2	—	—
5	16.78	4.6	16.78	4.6	—	—
Electricians	22.78	9.1	—	—	—	—
Supervisors, production	20.54	6.9	20.54	6.9	—	—
Machine operators, assemblers, and inspectors						
1	12.91	3.6	12.91	3.6	—	—
1	8.32	3.9	8.32	3.9	—	—
2	10.99	2.5	10.99	2.5	—	—
3	12.47	2.8	12.47	2.8	—	—
4	14.57	5.3	14.57	5.3	—	—
5	16.02	6.5	16.02	6.5	—	—
Numerical control machine operators	13.58	6.6	13.58	6.6	—	—
Packaging and filling machine operators	13.48	5.5	13.48	5.5	—	—
Miscellaneous machine operators, n.e.c.	15.97	5.8	15.97	5.8	—	—
Welders and cutters	19.31	14.0	19.31	14.0	—	—
Assemblers	11.26	2.7	11.26	2.7	—	—
Production inspectors, checkers and examiners ..	11.56	11.8	11.56	11.8	—	—
Transportation and material moving						
2	14.99	5.4	15.20	5.9	—	—
2	12.79	8.8	12.98	9.5	—	—
3	17.24	5.9	17.43	6.0	—	—
Truck drivers	15.69	7.9	15.69	7.9	—	—
2	13.31	10.8	13.31	10.8	—	—
Industrial truck and tractor equipment operators ..	13.85	5.2	13.85	5.2	—	—
3	14.75	6.5	14.75	6.5	—	—
Handlers, equipment cleaners, helpers, and laborers						
1	10.40	4.0	10.01	3.7	—	—
1	8.36	5.5	8.36	5.5	—	—
2	10.84	4.4	10.74	4.5	—	—
3	12.42	6.1	11.43	10.3	—	—
4	13.19	14.4	—	—	—	—
Groundskeepers and gardeners, except farm	12.40	7.4	—	—	—	—
Production helpers	13.42	4.5	13.42	4.5	—	—
Stock handlers and baggers	8.96	5.3	8.86	5.2	—	—
1	7.60	4.8	7.60	4.8	—	—
2	10.08	5.8	10.08	5.8	—	—
Hand packers and packagers	9.32	5.8	9.32	5.8	—	—
Service						
1	9.87	3.7	8.31	3.7	\$15.06	6.6
1	6.99	5.3	6.91	5.7	—	—
2	8.77	7.3	7.81	7.1	—	—
3	10.60	4.5	10.79	4.7	—	—
4	11.16	4.4	10.97	4.6	—	—
Protective service	15.01	19.3	—	—	21.24	14.8
Guards and police, except public service	8.60	9.4	—	—	—	—
Food service	7.32	6.2	7.09	7.0	—	—
1	6.26	6.9	6.10	7.1	—	—
2	5.85	17.1	5.85	17.1	—	—
3	10.54	5.6	11.01	5.4	—	—
Waiters, waitresses, and bartenders	3.85	13.2	3.85	13.2	—	—
1	3.60	13.8	3.60	13.8	—	—
Waiters and waitresses	3.70	20.1	3.70	20.1	—	—
1	3.08	9.7	3.08	9.7	—	—
Other food service	8.45	5.0	8.32	5.8	—	—
1	7.15	3.3	7.00	3.2	—	—
2	8.30	4.2	8.30	4.2	—	—
3	10.48	5.9	10.95	5.8	—	—
Cooks	9.57	5.8	9.62	7.0	—	—
2	8.30	4.2	8.30	4.2	—	—

See footnotes at end of table.

Table 4-1. **Selected occupations¹ and levels,² all workers:³ Mean hourly earnings,⁴ private industry and State and local government, National Compensation Survey, Kalamazoo-Battle Creek, MI, October 2001 — Continued**

Occupation and level	Total		Private industry		State and local government	
	Mean	Relative error ⁵ (percent)	Mean	Relative error ⁵ (percent)	Mean	Relative error ⁵ (percent)
Service—Continued						
Food service—Continued						
Other food service—Continued						
Cooks—Continued						
3	\$10.51	6.5	—	—	—	—
Food preparation, n.e.c.						
1	7.21	3.3	\$7.02	2.5	—	—
2	7.21	3.3	7.02	2.5	—	—
Health service						
2	10.11	3.7	9.65	2.9	—	—
2	9.84	3.4	9.84	3.4	—	—
Nursing aides, orderlies and attendants						
2	10.14	4.1	9.64	3.1	—	—
2	9.85	3.4	9.85	3.4	—	—
Cleaning and building service						
1	10.82	5.5	9.92	6.1	—	—
1	8.82	5.9	8.82	5.9	—	—
2	11.63	6.9	—	—	—	—
Janitors and cleaners						
1	10.97	5.9	10.00	6.7	—	—
1	9.14	7.2	9.14	7.2	—	—
2	11.63	6.9	—	—	—	—
Personal service						
Child care workers, n.e.c.	11.18	6.6	10.00	7.8	\$12.60	9.8
Child care workers, n.e.c.	10.87	9.0	—	—	—	—

¹ A classification system including about 480 individual occupations is used to cover all workers in the civilian economy. See appendix B for more information.

² Each occupation for which 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 rank within each factor. The points are summed to determine the overall level of the occupation. See appendixes C and D for more information.

³ All workers include full-time and part-time workers.

⁴ 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.

⁵ The relative standard error (RSE) is the standard error expressed as a percent of the estimate. It can be used to calculate a "confidence interval" around a sample estimate. For more information about RSEs, see appendix A.

NOTE: Dashes indicate that no data were reported or that data did not meet publication criteria, and n.e.c. means "not elsewhere classified." Overall occupational groups may include data for categories not shown separately.

Table 4-2. **Selected occupations¹ and levels,² full-time workers:³ Mean hourly earnings,⁴ private industry and State and local government, National Compensation Survey, Kalamazoo-Battle Creek, MI, October 2001**

Occupation and level	Total		Private industry		State and local government	
	Mean	Relative error ⁵ (percent)	Mean	Relative error ⁵ (percent)	Mean	Relative error ⁵ (percent)
All	\$18.55	3.5	\$17.54	4.5	\$22.50	3.9
All excluding sales	18.69	3.6	17.68	4.7	22.50	3.9
White collar	22.98	4.7	22.12	6.4	25.11	4.2
2	9.95	3.8	9.70	3.5	—	—
3	10.05	3.2	9.97	4.0	10.14	5.0
4	12.92	2.6	12.92	3.1	12.90	4.7
5	15.85	6.1	15.89	8.1	—	—
6	18.30	4.1	18.51	4.2	—	—
7	20.16	2.7	20.72	3.3	18.69	4.4
8	24.50	6.2	21.26	3.9	30.71	8.1
9	27.83	6.8	23.27	4.6	32.61	7.6
10	27.34	4.4	27.34	4.4	—	—
11	34.03	5.2	34.77	7.2	32.76	6.1
12	35.84	8.9	36.47	9.8	—	—
13	50.99	5.2	52.93	5.8	—	—
White collar excluding sales	23.56	4.8	22.87	6.7	25.11	4.2
2	9.82	4.4	9.49	3.8	—	—
3	10.10	3.5	10.06	5.0	10.14	5.0
4	13.29	2.6	13.42	3.0	12.90	4.7
5	16.13	6.2	16.34	8.4	—	—
6	18.30	4.1	18.51	4.2	—	—
7	20.03	2.6	20.56	3.2	18.69	4.4
8	24.70	6.4	21.33	4.0	30.71	8.1
9	27.64	7.2	22.51	4.7	32.61	7.6
10	27.34	4.4	27.34	4.4	—	—
11	34.03	5.2	34.77	7.2	32.76	6.1
12	35.84	8.9	36.47	9.8	—	—
13	50.99	5.2	52.93	5.8	—	—
Professional specialty and technical	27.27	5.1	24.67	6.2	31.96	3.8
Professional specialty	29.52	4.2	27.17	6.6	32.52	3.9
7	22.57	5.8	22.62	6.5	—	—
8	27.33	7.1	22.41	4.5	33.09	5.8
9	31.20	7.1	24.38	6.4	32.99	7.6
11	34.01	13.8	—	—	—	—
13	49.09	6.7	—	—	—	—
Engineers, architects, and surveyors	32.19	7.4	32.64	7.6	—	—
Mechanical engineers	31.61	9.9	31.61	9.9	—	—
Mathematical and computer scientists	23.91	2.2	23.83	2.5	—	—
Computer systems analysts and scientists	23.60	5.1	—	—	—	—
Natural scientists	—	—	—	—	—	—
Health related	23.67	9.1	23.90	10.4	—	—
Registered nurses	23.27	9.7	23.46	11.1	—	—
Teachers, college and university	—	—	—	—	—	—
Teachers, except college and university	34.17	6.1	—	—	35.35	6.0
8	32.74	7.7	—	—	34.68	4.7
9	36.04	9.6	—	—	36.04	9.6
Elementary school teachers	34.03	4.8	—	—	35.15	4.5
Librarians, archivists, and curators	—	—	—	—	—	—
Social scientists and urban planners	—	—	—	—	—	—
Social, recreation, and religious workers	21.02	5.9	—	—	—	—
Social workers	21.31	5.9	—	—	—	—
Lawyers and judges	—	—	—	—	—	—
Writers, authors, entertainers, athletes, and professionals, n.e.c.	19.86	9.6	19.07	10.1	—	—
Technical	19.53	5.3	19.45	5.7	—	—
4	14.01	4.7	14.01	4.7	—	—
7	19.86	2.1	—	—	—	—
Executive, administrative, and managerial	28.87	11.2	28.81	12.9	29.17	14.7
7	19.81	3.1	20.47	5.9	—	—
8	19.24	3.5	19.31	3.5	—	—
9	20.41	6.7	20.30	7.2	—	—
11	34.04	4.3	32.64	5.5	—	—

See footnotes at end of table.

Table 4-2. **Selected occupations¹ and levels,² full-time workers:³ Mean hourly earnings,⁴ private industry and State and local government, National Compensation Survey, Kalamazoo-Battle Creek, MI, October 2001 — Continued**

Occupation and level	Total		Private industry		State and local government	
	Mean	Relative error ⁵ (percent)	Mean	Relative error ⁵ (percent)	Mean	Relative error ⁵ (percent)
White collar –Continued						
Executive, administrative, and managerial –Continued						
Executives, administrators, and managers	\$33.94	13.5	\$34.40	15.9	\$32.29	17.4
9	16.20	10.1	16.20	10.1	—	—
11	34.04	4.3	32.64	5.5	—	—
Financial managers	29.83	14.8	29.83	14.8	—	—
Managers and administrators, n.e.c.	34.51	21.0	36.27	22.3	—	—
11	34.74	3.4	—	—	—	—
Management related	21.35	4.2	21.64	4.4	—	—
8	19.58	3.4	20.21	4.6	—	—
Accountants and auditors	21.23	7.1	—	—	—	—
Management related, n.e.c.	22.46	2.4	22.46	2.4	—	—
Sales	14.26	8.3	14.26	8.3	—	—
4	11.15	4.6	11.15	4.6	—	—
Supervisors, sales	12.00	10.7	12.00	10.7	—	—
Cashiers	9.95	2.5	9.95	2.5	—	—
Administrative support, including clerical	13.53	3.9	13.66	5.2	13.29	4.6
2	9.82	4.4	9.49	3.8	—	—
3	10.10	3.5	10.06	5.0	10.14	5.0
4	13.17	3.1	13.28	3.8	12.90	4.7
5	16.28	7.3	16.69	11.0	—	—
6	17.62	6.9	—	—	—	—
7	17.96	3.9	—	—	—	—
Secretaries	13.69	4.4	14.08	5.3	13.26	4.2
4	13.72	6.1	—	—	—	—
5	14.24	5.5	—	—	—	—
Order clerks	13.29	6.5	12.43	4.3	—	—
Bookkeepers, accounting and auditing clerks	13.64	5.4	12.95	7.6	—	—
Stock and inventory clerks	15.79	13.5	15.79	13.5	—	—
General office clerks	12.26	6.7	12.91	9.2	—	—
Blue collar	14.81	3.0	14.75	3.2	15.74	3.9
1	8.59	3.1	8.59	3.1	—	—
2	11.41	4.1	11.40	4.1	—	—
3	14.35	5.1	14.43	5.6	—	—
4	14.49	4.1	14.49	4.2	—	—
5	15.26	5.3	14.91	5.6	—	—
6	18.09	3.5	18.28	3.8	—	—
7	22.98	4.0	23.70	3.8	—	—
8	27.23	4.6	27.23	4.6	—	—
Precision production, craft, and repair	20.59	3.6	20.91	3.9	17.80	2.8
4	15.75	5.3	15.75	5.3	—	—
5	16.05	6.6	15.53	7.6	—	—
6	18.43	4.3	18.43	4.3	—	—
7	23.18	4.1	24.12	3.5	—	—
8	27.23	4.6	27.23	4.6	—	—
Industrial machinery repairers	18.10	5.3	18.08	5.9	—	—
Mechanics and repairers, n.e.c.	19.42	7.2	19.42	7.2	—	—
5	16.78	4.6	16.78	4.6	—	—
Electricians	22.78	9.1	—	—	—	—
Supervisors, production	20.54	6.9	20.54	6.9	—	—
Machine operators, assemblers, and inspectors	12.91	3.6	12.91	3.6	—	—
1	8.29	4.0	8.29	4.0	—	—
2	10.99	2.5	10.99	2.5	—	—
3	12.47	2.8	12.47	2.8	—	—
4	14.57	5.3	14.57	5.3	—	—
5	16.02	6.5	16.02	6.5	—	—
Numerical control machine operators	13.58	6.6	13.58	6.6	—	—
Packaging and filling machine operators	13.48	5.5	13.48	5.5	—	—

See footnotes at end of table.

Table 4-2. **Selected occupations¹ and levels,² full-time workers:³ Mean hourly earnings,⁴ private industry and State and local government, National Compensation Survey, Kalamazoo-Battle Creek, MI, October 2001 — Continued**

Occupation and level	Total		Private industry		State and local government	
	Mean	Relative error ⁵ (percent)	Mean	Relative error ⁵ (percent)	Mean	Relative error ⁵ (percent)
Blue collar —Continued						
Machine operators, assemblers, and inspectors —Continued						
Miscellaneous machine operators, n.e.c.	\$15.97	5.8	\$15.97	5.8	—	—
Welders and cutters	19.31	14.0	19.31	14.0	—	—
Assemblers	11.26	2.7	11.26	2.7	—	—
Production inspectors, checkers and examiners ..	11.56	11.8	11.56	11.8	—	—
Transportation and material moving	15.18	5.6	15.20	5.9	—	—
2	12.98	9.5	12.98	9.5	—	—
3	17.24	5.9	17.43	6.0	—	—
Truck drivers	15.69	7.9	15.69	7.9	—	—
2	13.31	10.8	13.31	10.8	—	—
Industrial truck and tractor equipment operators ..	13.85	5.2	13.85	5.2	—	—
3	14.75	6.5	14.75	6.5	—	—
Handlers, equipment cleaners, helpers, and laborers	11.09	4.4	10.68	4.3	—	—
1	8.69	3.9	8.69	3.9	—	—
2	10.94	4.8	10.85	4.9	—	—
3	12.78	5.2	11.98	9.5	—	—
4	13.19	14.4	—	—	—	—
Production helpers	13.42	4.5	13.42	4.5	—	—
Stock handlers and baggers	10.38	6.6	10.25	6.7	—	—
1	8.67	5.2	8.67	5.2	—	—
Hand packers and packagers	9.38	5.9	9.38	5.9	—	—
Service	11.17	4.2	9.12	4.4	\$15.87	7.4
1	7.38	8.4	7.38	8.4	—	—
2	9.40	7.9	8.13	6.5	—	—
3	10.60	4.6	10.80	4.8	—	—
4	11.64	4.7	11.46	5.3	—	—
Protective service	15.58	19.1	—	—	21.37	15.4
Food service	8.43	7.4	8.29	8.6	—	—
1	6.44	13.0	6.44	13.0	—	—
2	7.13	15.4	7.13	15.4	—	—
3	10.51	6.0	—	—	—	—
Other food service	9.25	5.6	9.23	6.6	—	—
1	7.49	1.7	7.49	1.7	—	—
3	10.51	6.0	—	—	—	—
Cooks	9.67	6.1	9.74	7.4	—	—
3	10.51	6.5	—	—	—	—
Health service	10.64	3.8	9.82	2.5	—	—
Nursing aides, orderlies and attendants	10.64	3.8	9.82	2.5	—	—
Cleaning and building service	11.14	5.9	10.25	7.1	—	—
2	11.63	6.9	—	—	—	—
Janitors and cleaners	11.17	6.2	10.20	7.5	—	—
2	11.63	6.9	—	—	—	—
Personal service	12.85	6.0	11.20	7.9	—	—

¹ A classification system including about 480 individual occupations is used to cover all workers in the civilian economy. See appendix B for more information.

² Each occupation for which 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 rank within each factor. The points are summed to determine the overall level of the occupation. See appendixes C and D for more information.

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 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.

⁵ The relative standard error (RSE) is the standard error expressed as a percent of the estimate. It can be used to calculate a "confidence interval" around a sample estimate. For more information about RSEs, see appendix A.

NOTE: Dashes indicate that no data were reported or that data did not meet publication criteria, and n.e.c. means "not elsewhere classified." Overall occupational groups may include data for categories not shown separately.

Table 4-3. Selected occupations¹ and levels,² part-time workers:³ Mean hourly earnings,⁴ private industry and State and local government, National Compensation Survey, Kalamazoo-Battle Creek, MI, October 2001

Occupation and level	Total		Private industry		State and local government	
	Mean	Relative error ⁵ (percent)	Mean	Relative error ⁵ (percent)	Mean	Relative error ⁵ (percent)
All	\$9.67	9.1	\$9.60	10.2	\$10.43	5.2
All excluding sales	10.13	10.0	10.10	11.3	10.43	5.2
White collar	12.66	13.8	12.81	14.6	-	-
1	7.15	3.7	7.15	3.7	-	-
2	7.82	3.8	7.82	3.8	-	-
3	8.34	6.4	8.16	7.1	-	-
5	11.22	10.7	-	-	-	-
White collar excluding sales	16.23	12.7	17.11	12.1	-	-
5	11.40	11.5	-	-	-	-
Professional specialty and technical	20.13	12.9	21.90	10.4	-	-
Professional specialty	21.24	11.9	23.51	7.9	-	-
Health related	23.46	7.4	23.46	7.4	-	-
Registered nurses	20.70	1.6	20.70	1.6	-	-
Teachers, college and university	-	-	-	-	-	-
Teachers, except college and university	10.85	13.2	-	-	-	-
Technical	-	-	-	-	-	-
Executive, administrative, and managerial	-	-	-	-	-	-
Executives, administrators, and managers	-	-	-	-	-	-
Sales	7.33	2.0	7.33	2.0	-	-
1	6.81	3.6	6.81	3.6	-	-
Cashiers	7.37	4.0	7.37	4.0	-	-
1	6.95	3.7	6.95	3.7	-	-
Administrative support, including clerical	9.52	6.4	9.53	7.1	-	-
Blue collar	8.39	9.0	7.97	10.6	-	-
1	7.94	11.8	7.94	11.8	-	-
2	10.46	5.4	-	-	-	-
Precision production, craft, and repair	-	-	-	-	-	-
Machine operators, assemblers, and inspectors	-	-	-	-	-	-
Transportation and material moving	-	-	-	-	-	-
Handlers, equipment cleaners, helpers, and laborers	7.98	10.9	7.98	10.9	-	-
1	7.93	12.1	7.93	12.1	-	-
Stock handlers and baggers	6.94	2.7	6.94	2.7	-	-
1	6.72	2.1	6.72	2.1	-	-
Service	7.23	5.7	7.07	6.1	-	-
1	6.76	5.4	6.61	5.9	-	-
2	7.33	15.8	7.26	16.4	-	-
Protective service	-	-	-	-	-	-
Food service	5.90	7.2	5.68	6.7	-	-
1	6.15	6.5	5.89	6.0	-	-
Waiters, waitresses, and bartenders	3.94	17.5	3.94	17.5	-	-
1	3.96	16.0	3.96	16.0	-	-
Waiters and waitresses	4.55	30.8	4.55	30.8	-	-
1	3.26	15.2	3.26	15.2	-	-
Other food service	7.07	4.3	6.85	3.6	-	-
1	6.95	4.8	6.68	3.8	-	-
Food preparation, n.e.c.	7.16	4.7	6.87	3.6	-	-
1	7.16	4.7	6.87	3.6	-	-
Health service	9.48	4.5	9.48	4.5	-	-
2	9.92	5.5	9.92	5.5	-	-
Nursing aides, orderlies and attendants	9.42	5.3	9.42	5.3	-	-
Cleaning and building service	-	-	-	-	-	-

See footnotes at end of table.

Table 4-3. **Selected occupations¹ and levels,² part-time workers:³ Mean hourly earnings,⁴ private industry and State and local government, National Compensation Survey, Kalamazoo-Battle Creek, MI, October 2001 — Continued**

Occupation and level	Total		Private industry		State and local government	
	Mean	Relative error ⁵ (percent)	Mean	Relative error ⁵ (percent)	Mean	Relative error ⁵ (percent)
Service —Continued						
Personal service	\$8.08	5.5	\$8.38	5.6	—	—

¹ A classification system including about 480 individual occupations is used to cover all workers in the civilian economy. See appendix B for more information.

² Each occupation for which 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 rank within each factor. The points are summed to determine the overall level of the occupation. See appendixes C and D for more information.

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 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.

⁵ The relative standard error (RSE) is the standard error expressed as a percent of the estimate. It can be used to calculate a "confidence interval" around a sample estimate. For more information about RSEs, see appendix A.

NOTE: Dashes indicate that no data were reported or that data did not meet publication criteria, and n.e.c. means "not elsewhere classified." Overall occupational groups may include data for categories not shown separately.

Table 5-1. **Selected worker characteristics: Mean hourly earnings¹ by occupational group,² National Compensation Survey, Kalamazoo-Battle Creek, MI, October 2001**

Occupational group	Private industry and State and local government					
	Full-time workers ³	Part-time workers ³	Union ⁴	Nonunion ⁴	Time ⁵	Incentive ⁵
	Mean					
All occupations	\$18.55	\$9.67	\$18.37	\$17.03	\$17.48	—
All excluding sales	18.69	10.13	18.59	17.37	17.76	—
White collar	22.98	12.66	24.59	21.28	22.02	—
White-collar excluding sales	23.56	16.23	25.90	22.36	23.03	—
Professional specialty and technical	27.27	20.13	32.43	24.28	26.62	—
Professional specialty	29.52	21.24	33.24	26.27	28.66	—
Technical	19.53	—	—	19.06	19.13	—
Executive, administrative, and managerial	28.87	—	—	29.05	28.71	—
Sales	14.26	7.33	—	11.76	11.02	—
Administrative support, including clerical	13.53	9.52	13.41	13.15	13.21	—
Blue collar	14.81	8.39	16.25	12.63	14.40	—
Precision production, craft, and repair	20.59	—	22.58	17.55	20.65	—
Machine operators, assemblers, and inspectors	12.91	—	14.10	11.64	12.91	—
Transportation and material moving	15.18	—	15.73	14.49	14.99	—
Handlers, equipment cleaners, helpers, and laborers	11.09	7.98	11.70	9.53	10.40	—
Service	11.17	7.23	13.56	7.96	9.87	—
	Relative error ⁶ (percent)					
All occupations	3.5	9.1	3.7	5.1	3.5	—
All excluding sales	3.6	10.0	3.7	5.2	3.5	—
White collar	4.7	13.8	5.0	5.8	4.5	—
White-collar excluding sales	4.8	12.7	4.4	5.8	4.6	—
Professional specialty and technical	5.1	12.9	4.2	5.1	4.8	—
Professional specialty	4.2	11.9	4.1	5.4	4.1	—
Technical	5.3	—	—	6.0	5.6	—
Executive, administrative, and managerial	11.2	—	—	11.2	11.3	—
Sales	8.3	2.0	—	9.4	8.2	—
Administrative support, including clerical	3.9	6.4	6.7	4.4	3.8	—
Blue collar	3.0	9.0	4.2	4.2	3.0	—
Precision production, craft, and repair	3.6	—	3.3	7.0	3.6	—
Machine operators, assemblers, and inspectors	3.6	—	6.8	2.9	3.6	—
Transportation and material moving	5.6	—	8.9	8.1	5.4	—
Handlers, equipment cleaners, helpers, and laborers	4.4	10.9	5.4	4.2	4.0	—
Service	4.2	5.7	5.5	3.5	3.7	—

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 A classification system including about 480 individual occupations is used to cover all workers in the civilian economy. See appendix B for more information.

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.

⁶ The relative standard error (RSE) is the standard error expressed as a percent of the estimate. It can be used to calculate a "confidence interval" around a sample estimate. For more information about RSEs, see appendix A.

NOTE: Dashes indicate that no data were reported or that data did not meet publication criteria.

Table 5-2. Major industry division: Mean hourly earnings¹ by occupational group,² private industry, National Compensation Survey, Kalamazoo-Battle Creek, MI, October 2001

Occupational group	Full-time and part-time workers									
	All private industries	Goods-producing industries ³				Service-producing industries ⁴				
		Total	Mining	Construction	Manufacturing	Total	Transportation and public utilities	Wholesale and retail trade	Finance, insurance, and real estate	Services
	Mean									
All occupations	\$16.45	-	-	-	-	\$13.60	-	-	-	\$14.91
All excluding sales	16.77	-	-	-	-	14.07	-	-	-	14.91
White collar	20.94	-	-	-	-	17.01	-	-	-	19.63
White-collar excluding sales	22.40	-	-	-	-	18.88	-	-	-	19.63
Professional specialty and technical	24.35	-	-	-	-	21.43	-	-	-	21.47
Professional specialty	26.64	-	-	-	-	23.33	-	-	-	23.39
Technical	19.02	-	-	-	-	17.47	-	-	-	16.71
Executive, administrative, and managerial	28.75	-	-	-	-	22.45	-	-	-	23.62
Sales	11.35	-	-	-	-	9.11	-	-	-	-
Administrative support, including clerical	13.21	-	-	-	-	12.15	-	-	-	10.69
Blue collar	14.34	-	-	-	-	12.38	-	-	-	10.03
Precision production, craft, and repair	20.86	-	-	-	-	14.81	-	-	-	-
Machine operators, assemblers, and inspectors	12.91	-	-	-	-	13.08	-	-	-	-
Transportation and material moving	15.20	-	-	-	-	15.90	-	-	-	-
Handlers, equipment cleaners, helpers, and laborers	10.01	-	-	-	-	9.39	-	-	-	8.79
Service	8.31	-	-	-	-	8.24	-	-	-	9.12
	Relative error ⁵ (percent)									
All occupations	4.4	-	-	-	-	4.4	-	-	-	6.7
All excluding sales	4.5	-	-	-	-	4.5	-	-	-	6.7
White collar	6.2	-	-	-	-	4.8	-	-	-	5.0
White-collar excluding sales	6.3	-	-	-	-	4.3	-	-	-	5.0
Professional specialty and technical	5.6	-	-	-	-	5.1	-	-	-	5.4
Professional specialty	5.8	-	-	-	-	5.7	-	-	-	6.2
Technical	6.0	-	-	-	-	7.0	-	-	-	5.5
Executive, administrative, and managerial	12.9	-	-	-	-	7.0	-	-	-	11.0
Sales	7.3	-	-	-	-	4.6	-	-	-	-
Administrative support, including clerical	5.1	-	-	-	-	5.9	-	-	-	6.1
Blue collar	3.2	-	-	-	-	5.2	-	-	-	8.4
Precision production, craft, and repair	3.9	-	-	-	-	10.7	-	-	-	-
Machine operators, assemblers, and inspectors	3.6	-	-	-	-	29.8	-	-	-	-
Transportation and material moving	5.9	-	-	-	-	8.4	-	-	-	-
Handlers, equipment cleaners, helpers, and laborers	3.7	-	-	-	-	5.0	-	-	-	7.4
Service	3.7	-	-	-	-	3.7	-	-	-	3.9

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 A classification system including about 480 individual occupations is used to cover all workers in the civilian economy. See appendix B for more information.

³ Goods-producing industries include mining, construction, and manufacturing.

⁴ Service-producing industries include transportation and public utilities; wholesale and retail trade; finance, insurance, and real estate; and services.

⁵ The relative standard error (RSE) is the standard error expressed as a percent of the estimate. It can be used to calculate a "confidence interval" around a sample estimate. For more information about RSEs, see appendix A.

NOTE: Dashes indicate that no data were reported or that data did not meet publication criteria.

Table 5-3. Establishment employment size: Mean hourly earnings¹ by occupational group,² private industry, National Compensation Survey, Kalamazoo-Battle Creek, MI, October 2001

Occupational group	Full-time and part-time workers				
	All private industry workers	50 - 99 workers ³	100 workers or more		
			Total	100 - 499 workers	500 workers or more
Mean					
All occupations	\$16.45	\$12.30	\$17.34	\$16.26	\$20.34
All excluding sales	16.77	12.46	17.70	16.71	20.36
White collar	20.94	16.07	21.60	20.20	23.75
White-collar excluding sales	22.40	17.57	23.00	22.28	23.98
Professional specialty and technical	24.35	19.73	24.68	24.65	24.74
Professional specialty	26.64	19.42	27.24	28.81	24.66
Technical	19.02	—	18.94	18.12	—
Executive, administrative, and managerial	28.75	25.74	29.12	27.51	—
Sales	11.35	9.51	11.72	10.17	—
Administrative support, including clerical	13.21	11.37	13.61	12.94	14.39
Blue collar	14.34	14.70	14.28	14.49	12.67
Precision production, craft, and repair	20.86	20.80	20.87	20.85	—
Machine operators, assemblers, and inspectors	12.91	10.50	13.05	13.04	—
Transportation and material moving	15.20	13.39	16.12	16.37	—
Handlers, equipment cleaners, helpers, and laborers	10.01	7.61	10.23	10.36	—
Service	8.31	7.25	9.26	8.72	10.52
Relative error ⁴ (percent)					
All occupations	4.4	7.7	5.0	4.4	11.3
All excluding sales	4.5	7.9	5.1	4.4	11.6
White collar	6.2	10.8	6.7	6.1	12.3
White-collar excluding sales	6.3	10.9	6.8	5.7	12.7
Professional specialty and technical	5.6	5.4	6.0	8.2	5.8
Professional specialty	5.8	3.5	6.2	8.6	6.2
Technical	6.0	—	6.2	5.7	—
Executive, administrative, and managerial	12.9	16.4	14.0	8.4	—
Sales	7.3	11.2	9.3	7.8	—
Administrative support, including clerical	5.1	5.9	5.5	6.0	7.8
Blue collar	3.2	12.1	4.1	4.6	7.5
Precision production, craft, and repair	3.9	14.4	5.6	6.0	—
Machine operators, assemblers, and inspectors	3.6	8.4	3.8	4.1	—
Transportation and material moving	5.9	11.1	5.5	5.7	—
Handlers, equipment cleaners, helpers, and laborers	3.7	6.6	3.9	4.5	—
Service	3.7	5.9	4.6	4.6	5.8

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 A classification system including about 480 individual occupations is used to cover all workers in the civilian economy. See appendix B for more information.

³ Establishments classified with 50-99 workers may contain

establishments with fewer than 50 due to staff reductions between survey sampling and collection.

⁴ The relative standard error (RSE) is the standard error expressed as a percent of the estimate. It can be used to calculate a "confidence interval" around a sample estimate. For more information about RSEs, see appendix A.

NOTE: Dashes indicate that no data were reported or that data did not meet publication criteria.

Table 6-1. Hourly wage percentiles for establishment jobs,¹ all workers:² Selected occupations, all industries, National Compensation Survey, Kalamazoo-Battle Creek, MI, October 2001

Occupation ³	10	25	Median 50	75	90
All	\$7.87	\$10.33	\$14.55	\$21.53	\$30.78
All excluding sales	8.08	10.55	15.25	21.73	30.84
White collar	9.49	13.00	19.86	26.89	35.88
White collar excluding sales	11.00	14.47	20.52	28.91	39.39
Professional specialty and technical	16.36	20.13	23.75	32.92	40.59
Professional specialty	19.65	20.82	24.56	35.55	41.39
Engineers, architects, and surveyors	22.58	23.75	30.83	41.37	45.73
Mechanical engineers	21.30	22.81	31.41	39.39	45.73
Mathematical and computer scientists	24.19	24.19	24.19	24.56	24.56
Computer systems analysts and scientists	20.06	24.47	24.56	24.56	29.18
Natural scientists	-	-	-	-	-
Health related	20.52	20.52	21.08	21.78	31.50
Registered nurses	20.52	20.52	20.82	21.73	22.23
Teachers, college and university	-	-	-	-	-
Teachers, except college and university	19.65	30.66	35.46	35.84	41.19
Elementary school teachers	30.66	30.66	35.84	36.68	40.04
Librarians, archivists, and curators	-	-	-	-	-
Social scientists and urban planners	-	-	-	-	-
Social, recreation, and religious workers	17.11	17.51	20.13	23.22	24.65
Social workers	17.51	17.51	20.13	23.22	24.65
Lawyers and judges	-	-	-	-	-
Writers, authors, entertainers, athletes, and professionals, n.e.c.	13.13	16.36	17.74	24.06	24.20
Technical	13.81	15.56	18.36	21.53	28.95
Licensed practical nurses	14.34	14.34	14.34	16.26	16.78
Executive, administrative, and managerial	15.26	18.80	23.95	34.71	50.96
Executives, administrators, and managers	16.11	19.97	30.74	39.82	68.19
Financial managers	16.11	19.97	22.04	43.03	50.10
Managers and administrators, n.e.c.	14.25	22.31	33.46	39.82	68.19
Management related	15.26	18.80	22.50	24.76	25.10
Accountants and auditors	15.26	18.80	19.17	24.76	25.72
Management related, n.e.c.	18.58	22.35	22.76	22.76	25.10
Sales	6.73	7.35	9.39	11.69	21.65
Supervisors, sales	7.95	10.60	10.60	12.36	13.00
Cashiers	6.65	6.93	8.45	10.00	10.64
Administrative support, including clerical	9.15	10.55	12.45	15.27	18.89
Secretaries	11.53	12.09	14.20	15.27	15.27
Order clerks	9.72	11.78	11.78	15.16	16.03
Bookkeepers, accounting and auditing clerks	10.01	13.05	14.13	15.00	15.50
Stock and inventory clerks	8.23	12.25	14.85	22.58	22.58
General office clerks	9.02	9.93	11.38	11.38	16.88
Teachers' aides	9.15	9.45	9.72	10.10	11.46
Blue collar	8.40	10.33	12.90	17.40	22.17
Precision production, craft, and repair	13.98	16.83	18.96	25.87	28.87
Industrial machinery repairers	14.14	14.95	18.15	20.79	20.79
Mechanics and repairers, n.e.c.	14.35	17.27	18.00	24.47	25.27
Electricians	17.20	18.20	21.77	28.87	28.87
Supervisors, production	16.83	17.00	19.00	22.96	30.00
Machine operators, assemblers, and inspectors	10.01	10.88	12.05	14.42	17.22
Numerical control machine operators	11.34	12.29	12.29	15.55	17.78
Packaging and filling machine operators	11.35	12.04	13.49	15.10	16.82
Miscellaneous machine operators, n.e.c.	12.32	13.50	16.74	17.18	21.24
Welders and cutters	12.31	12.89	19.34	26.46	26.46
Assemblers	10.01	10.33	10.88	11.93	12.90
Production inspectors, checkers and examiners ..	7.90	9.03	9.50	15.85	17.09
Transportation and material moving	11.10	12.85	15.55	17.40	17.49
Truck drivers	12.04	14.00	15.55	17.40	21.22
Industrial truck and tractor equipment operators ..	11.10	12.34	12.97	16.43	17.49
Handlers, equipment cleaners, helpers, and laborers	6.47	7.75	9.67	13.15	14.38
Groundskeepers and gardeners, except farm	8.48	12.04	13.40	13.52	16.33

See footnotes at end of table.

Table 6-1. Hourly wage percentiles for establishment jobs,¹ all workers:² Selected occupations, all industries, National Compensation Survey, Kalamazoo-Battle Creek, MI, October 2001 — Continued

Occupation ³	10	25	Median 50	75	90
Blue collar —Continued					
Handlers, equipment cleaners, helpers, and laborers —Continued					
Production helpers	\$10.45	\$13.65	\$13.80	\$13.80	\$15.27
Stock handlers and baggers	6.25	6.47	8.06	9.85	12.31
Hand packers and packagers	7.86	8.43	9.67	9.67	10.01
Service	5.73	7.59	9.00	11.30	15.86
Protective service	7.87	7.87	17.03	17.35	28.04
Guards and police, except public service	7.12	7.87	7.87	7.87	13.50
Food service	2.65	6.08	7.64	9.00	11.00
Waiters, waitresses, and bartenders	2.65	2.65	2.82	3.38	8.00
Waiters and waitresses	2.65	2.65	2.82	2.93	9.25
Other food service	6.08	6.70	8.08	9.79	11.00
Cooks	8.08	8.21	9.00	10.73	12.47
Food preparation, n.e.c.	6.08	6.28	7.56	7.64	8.91
Health service	8.49	8.88	9.79	10.47	11.07
Nursing aides, orderlies and attendants	8.49	8.88	9.79	10.47	11.07
Cleaning and building service	7.37	8.57	10.50	12.31	13.91
Janitors and cleaners	7.73	8.57	11.20	12.31	13.91
Personal service	7.69	8.38	11.30	14.02	14.50
Child care workers, n.e.c.	6.89	9.01	11.30	12.63	14.02

¹ Percentiles are calculated from average hourly wages for sampled establishment jobs within each occupation. The percentiles describe the distribution of an occupation's employment by the average wage rates for its jobs. For example, at the 10th percentile hourly wage for an occupation, one-tenth of the occupation's employment are found in sampled establishment jobs whose average wages are the same or less, and nine-tenths are in jobs averaging the same or more. The calculations of the 25th, 50th, 75th, and 90th percentiles follow the same logic. Hourly wages 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.

² All workers include full-time and part-time workers.

³ A classification system including about 480 individual occupations is used to cover all workers in the civilian economy. See appendix B for more information.

NOTE: Dashes indicate that no data were reported or that data did not meet publication criteria, and n.e.c. means "not elsewhere classified." Overall occupational groups may include data for categories not shown separately.

Table 6-2. Hourly wage percentiles for establishment jobs,¹ all workers:² Selected occupations, private industry, National Compensation Survey, Kalamazoo-Battle Creek, MI, October 2001

Occupation ³	Private industry				
	10	25	Median 50	75	90
All	\$7.63	\$9.97	\$13.64	\$20.52	\$27.07
All excluding sales	7.78	10.16	14.30	20.79	27.93
White collar	9.00	12.41	18.88	24.19	34.71
White collar excluding sales	10.85	14.57	20.52	24.76	34.71
Professional specialty and technical	15.56	18.36	21.53	27.93	36.99
Professional specialty	18.15	20.52	21.78	30.83	42.00
Engineers, architects, and surveyors	22.58	23.75	30.83	42.00	45.73
Mechanical engineers	21.30	22.81	31.41	39.39	45.73
Mathematical and computer scientists	20.06	24.19	24.19	24.56	24.56
Natural scientists	—	—	—	—	—
Health related	20.52	20.52	21.08	21.78	31.50
Registered nurses	19.99	20.52	20.82	21.73	21.78
Teachers, college and university	—	—	—	—	—
Teachers, except college and university	—	—	—	—	—
Social scientists and urban planners	—	—	—	—	—
Social, recreation, and religious workers	—	—	—	—	—
Lawyers and judges	—	—	—	—	—
Writers, authors, entertainers, athletes, and professionals, n.e.c.	13.13	16.36	17.12	24.06	24.06
Technical	12.61	14.55	16.83	21.53	30.00
Licensed practical nurses	14.34	14.34	14.34	16.26	16.78
Executive, administrative, and managerial	14.83	18.80	23.95	34.32	50.10
Executives, administrators, and managers	14.67	19.97	30.74	43.03	68.19
Financial managers	16.11	19.97	22.04	43.03	50.10
Managers and administrators, n.e.c.	13.64	23.95	34.71	39.56	68.19
Management related	17.50	18.80	22.76	24.76	25.10
Management related, n.e.c.	18.58	22.35	22.76	22.76	25.10
Sales	6.73	7.35	9.39	11.69	21.65
Supervisors, sales	7.95	10.60	10.60	12.36	13.00
Cashiers	6.65	6.93	8.45	10.00	10.64
Administrative support, including clerical	8.75	9.97	12.26	15.27	18.89
Secretaries	11.00	13.22	15.27	15.27	15.27
Bookkeepers, accounting and auditing clerks	9.28	11.54	13.05	15.42	15.50
Stock and inventory clerks	8.23	12.25	14.85	22.58	22.58
General office clerks	9.00	9.02	11.16	12.69	16.88
Blue collar	8.20	10.33	12.85	17.40	22.96
Precision production, craft, and repair	12.43	16.26	20.06	26.34	28.87
Industrial machinery repairers	14.14	14.95	17.98	20.79	22.23
Mechanics and repairers, n.e.c.	14.35	17.27	18.00	24.47	25.27
Supervisors, production	16.83	17.00	19.00	22.96	30.00
Machine operators, assemblers, and inspectors	10.01	10.88	12.05	14.42	17.22
Numerical control machine operators	11.34	12.29	12.29	15.55	17.78
Packaging and filling machine operators	11.35	12.04	13.49	15.10	16.82
Miscellaneous machine operators, n.e.c.	12.32	13.50	16.74	17.18	21.24
Welders and cutters	12.31	12.89	19.34	26.46	26.46
Assemblers	10.01	10.33	10.88	11.93	12.90
Production inspectors, checkers and examiners ..	7.90	9.03	9.50	15.85	17.09
Transportation and material moving	11.10	12.85	15.55	17.40	18.90
Truck drivers	12.04	14.00	15.55	17.40	21.22
Industrial truck and tractor equipment operators ..	11.10	12.34	12.97	16.43	17.49
Handlers, equipment cleaners, helpers, and laborers	6.47	7.65	9.67	12.25	13.80
Production helpers	10.45	13.65	13.80	13.80	15.27
Stock handlers and baggers	6.25	6.47	8.06	9.85	12.31
Hand packers and packagers	7.86	8.43	9.67	9.67	10.01
Service	3.38	7.12	8.21	9.97	11.30
Protective service	—	—	—	—	—
Food service	2.65	5.73	7.58	8.26	11.00

See footnotes at end of table.

Table 6-2. Hourly wage percentiles for establishment jobs,¹ all workers:² Selected occupations, private industry, National Compensation Survey, Kalamazoo-Battle Creek, MI, October 2001 — Continued

Occupation ³	Private industry				
	10	25	Median 50	75	90
Service –Continued					
Food service –Continued					
Waiters, waitresses, and bartenders	\$2.65	\$2.65	\$2.82	\$3.38	\$8.00
Waiters and waitresses	2.65	2.65	2.82	2.93	9.25
Other food service	6.08	6.52	8.01	9.79	11.97
Cooks	8.08	8.08	9.79	11.00	12.47
Food preparation, n.e.c.	6.08	6.28	7.17	7.59	8.01
Health service	8.49	8.88	9.79	10.36	10.50
Nursing aides, orderlies and attendants	8.49	8.88	9.71	10.36	10.50
Cleaning and building service	7.00	7.73	8.72	11.20	14.45
Janitors and cleaners	7.00	8.57	9.88	10.50	15.52
Personal service	7.78	8.38	9.90	11.30	14.01

¹ Percentiles are calculated from average hourly wages for sampled establishment jobs within each occupation. The percentiles describe the distribution of an occupation's employment by the average wage rates for its jobs. For example, at the 10th percentile hourly wage for an occupation, one-tenth of the occupation's employment are found in sampled establishment jobs whose average wages are the same or less, and nine-tenths are in jobs averaging the same or more. The calculations of the 25th, 50th, 75th, and 90th percentiles follow the same logic. Hourly wages 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.

² All workers include full-time and part-time workers.

³ A classification system including about 480 individual occupations is used to cover all workers in the civilian economy. See appendix B for more information.

NOTE: Dashes indicate that no data were reported or that data did not meet publication criteria, and n.e.c. means "not elsewhere classified." Overall occupational groups may include data for categories not shown separately.

Table 6-3. Hourly wage percentiles for establishment jobs,¹ all workers:² Selected occupations, State and local government, National Compensation Survey, Kalamazoo-Battle Creek, MI, October 2001

Occupation ³	State and local government				
	10	25	Median 50	75	90
All	\$10.55	\$13.12	\$18.20	\$30.66	\$36.68
All excluding sales	10.55	13.12	18.20	30.66	36.68
White collar	11.38	14.20	22.23	35.55	40.04
White collar excluding sales	11.38	14.20	22.23	35.55	40.04
Professional specialty and technical	20.13	24.02	32.60	35.84	41.19
Professional specialty	21.17	24.47	34.46	35.84	41.39
Engineers, architects, and surveyors	-	-	-	-	-
Mathematical and computer scientists	-	-	-	-	-
Health related	-	-	-	-	-
Teachers, college and university	-	-	-	-	-
Teachers, except college and university	19.73	30.66	35.55	36.68	41.19
Elementary school teachers	30.66	30.66	35.84	36.68	40.04
Librarians, archivists, and curators	-	-	-	-	-
Social, recreation, and religious workers	-	-	-	-	-
Lawyers and judges	-	-	-	-	-
Writers, authors, entertainers, athletes, and professionals, n.e.c.	-	-	-	-	-
Technical	-	-	-	-	-
Executive, administrative, and managerial	17.30	17.90	22.61	39.82	50.96
Executives, administrators, and managers	17.30	22.31	35.63	39.82	50.96
Management related	-	-	-	-	-
Administrative support, including clerical	9.53	11.38	13.08	14.55	16.98
Secretaries	11.53	12.09	13.12	14.20	14.55
Teachers' aides	9.15	9.45	9.72	10.10	11.46
Blue collar	11.66	13.40	14.38	18.20	18.27
Precision production, craft, and repair	13.98	17.96	18.20	18.27	18.33
Transportation and material moving	-	-	-	-	-
Handlers, equipment cleaners, helpers, and laborers	-	-	-	-	-
Service	9.00	11.92	14.02	17.03	25.41
Protective service	17.03	17.03	17.35	28.04	28.95
Food service	-	-	-	-	-
Other food service	-	-	-	-	-
Health service	-	-	-	-	-
Cleaning and building service	-	-	-	-	-
Personal service	6.89	9.05	14.02	14.50	16.59

¹ Percentiles are calculated from average hourly wages for sampled establishment jobs within each occupation. The percentiles describe the distribution of an occupation's employment by the average wage rates for its jobs. For example, at the 10th percentile hourly wage for an occupation, one-tenth of the occupation's employment are found in sampled establishment jobs whose average wages are the same or less, and nine-tenths are in jobs averaging the same or more. The calculations of the 25th, 50th, 75th, and 90th percentiles follow the same logic. Hourly wages 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.

² All workers include full-time and part-time workers.

³ A classification system including about 480 individual occupations is used to cover all workers in the civilian economy. See appendix B for more information.

NOTE: Dashes indicate that no data were reported or that data did not meet publication criteria, and n.e.c. means "not elsewhere classified." Overall occupational groups may include data for categories not shown separately.

Table 6-4. Hourly wage percentiles for establishment jobs,¹ full-time workers:² Selected occupations, all industries, National Compensation Survey, Kalamazoo-Battle Creek, MI, October 2001

Occupation ³	10	25	Median 50	75	90
All	\$9.07	\$11.30	\$15.82	\$22.50	\$32.04
All excluding sales	9.15	11.46	16.03	22.58	32.04
White collar	10.81	14.25	20.52	28.95	39.39
White collar excluding sales	11.50	14.85	20.78	30.00	39.47
Professional specialty and technical	16.50	20.52	24.19	34.46	41.19
Professional specialty	19.73	21.71	26.12	35.84	42.00
Engineers, architects, and surveyors	22.58	23.75	30.83	41.37	45.73
Mechanical engineers	21.30	22.81	31.41	39.39	45.73
Mathematical and computer scientists	24.19	24.19	24.19	24.56	24.56
Computer systems analysts and scientists	20.06	24.47	24.56	24.56	29.18
Natural scientists	-	-	-	-	-
Health related	20.52	20.52	21.17	21.78	31.50
Registered nurses	20.52	20.52	20.82	21.78	22.23
Teachers, college and university	-	-	-	-	-
Teachers, except college and university	19.86	30.66	35.55	35.84	41.19
Elementary school teachers	30.66	30.66	35.84	36.68	40.04
Librarians, archivists, and curators	-	-	-	-	-
Social scientists and urban planners	-	-	-	-	-
Social, recreation, and religious workers	17.11	17.51	20.13	23.22	24.65
Social workers	17.51	17.51	20.13	23.22	24.65
Lawyers and judges	-	-	-	-	-
Writers, authors, entertainers, athletes, and professionals, n.e.c.	13.13	16.36	17.74	24.06	24.20
Technical	14.34	15.56	18.36	21.53	30.00
Executive, administrative, and managerial	15.26	18.80	23.95	34.71	50.96
Executives, administrators, and managers	16.11	22.04	32.20	41.29	68.19
Financial managers	16.11	19.97	22.04	43.03	50.10
Managers and administrators, n.e.c.	14.25	22.31	33.46	39.82	68.19
Management related	15.26	18.80	22.50	24.76	25.10
Accountants and auditors	15.26	18.80	19.17	24.76	25.72
Management related, n.e.c.	18.58	22.35	22.76	22.76	25.10
Sales	8.03	10.00	10.64	14.66	30.48
Supervisors, sales	7.95	10.60	10.60	12.36	13.00
Cashiers	7.96	10.00	10.00	10.64	10.98
Administrative support, including clerical	9.27	11.16	12.80	15.27	18.89
Secretaries	11.53	12.09	14.20	15.27	15.27
Order clerks	11.78	11.78	11.85	15.16	16.03
Bookkeepers, accounting and auditing clerks	10.01	13.05	14.13	15.00	15.50
Stock and inventory clerks	8.23	12.50	14.85	22.58	22.58
General office clerks	9.00	11.18	11.38	12.69	16.88
Blue collar	9.03	10.88	13.40	17.40	22.96
Precision production, craft, and repair	13.98	16.83	18.96	25.87	28.87
Industrial machinery repairers	14.14	14.95	18.15	20.79	20.79
Mechanics and repairers, n.e.c.	14.35	17.27	18.00	24.47	25.27
Electricians	17.20	18.20	21.77	28.87	28.87
Supervisors, production	16.83	17.00	19.00	22.96	30.00
Machine operators, assemblers, and inspectors	10.01	10.88	12.05	14.42	17.22
Numerical control machine operators	11.34	12.29	12.29	15.55	17.78
Packaging and filling machine operators	11.35	12.04	13.49	15.10	16.82
Miscellaneous machine operators, n.e.c.	12.32	13.50	16.74	17.18	21.24
Welders and cutters	12.31	12.89	19.34	26.46	26.46
Assemblers	10.01	10.33	10.88	11.93	12.90
Production inspectors, checkers and examiners ..	7.90	9.03	9.50	15.85	17.09
Transportation and material moving	11.10	12.85	15.55	17.40	18.90
Truck drivers	12.04	14.00	15.55	17.40	21.22
Industrial truck and tractor equipment operators ..	11.10	12.34	12.97	16.43	17.49
Handlers, equipment cleaners, helpers, and laborers	7.65	8.43	10.11	13.40	15.72
Production helpers	10.45	13.65	13.80	13.80	15.27
Stock handlers and baggers	7.53	8.41	9.85	11.17	16.93
Hand packers and packagers	8.40	8.43	9.67	9.67	10.01

See footnotes at end of table.

Table 6-4. Hourly wage percentiles for establishment jobs,¹ full-time workers:² Selected occupations, all industries, National Compensation Survey, Kalamazoo-Battle Creek, MI, October 2001 — Continued

Occupation ³	10	25	Median 50	75	90
Service	\$7.36	\$8.08	\$9.97	\$12.63	\$17.03
Protective service	7.87	7.87	17.03	17.35	28.04
Food service	2.85	7.58	8.21	9.85	12.47
Waiters, waitresses, and bartenders	—	—	—	—	—
Other food service	6.70	8.08	9.00	10.50	12.47
Cooks	8.08	8.21	9.79	10.73	12.47
Health service	9.07	9.61	10.23	10.50	15.86
Nursing aides, orderlies and attendants	9.07	9.61	10.23	10.50	15.86
Cleaning and building service	7.73	8.57	11.92	13.25	13.91
Janitors and cleaners	7.73	8.57	11.92	12.31	13.91
Personal service	9.01	11.30	14.01	14.29	16.59

¹ Percentiles are calculated from average hourly wages for sampled establishment jobs within each occupation. The percentiles describe the distribution of an occupation's employment by the average wage rates for its jobs. For example, at the 10th percentile hourly wage for an occupation, one-tenth of the occupation's employment are found in sampled establishment jobs whose average wages are the same or less, and nine-tenths are in jobs averaging the same or more. The calculations of the 25th, 50th, 75th, and 90th percentiles follow the same logic. Hourly wages 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.

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.

³ A classification system including about 480 individual occupations is used to cover all workers in the civilian economy. See appendix B for more information.

NOTE: Dashes indicate that no data were reported or that data did not meet publication criteria, and n.e.c. means "not elsewhere classified." Overall occupational groups may include data for categories not shown separately.

Table 6-5. Hourly wage percentiles for establishment jobs,¹ part-time workers:² Selected occupations, all industries, National Compensation Survey, Kalamazoo-Battle Creek, MI, October 2001

Occupation ³	10	25	Median 50	75	90
All	\$5.87	\$6.73	\$8.00	\$9.91	\$20.79
All excluding sales	5.73	6.47	8.48	10.47	20.79
White collar	6.73	7.35	9.02	18.39	21.54
White collar excluding sales	7.42	9.29	14.57	21.08	27.22
Professional specialty and technical	9.29	12.50	20.79	21.54	32.96
Professional specialty	9.29	18.00	21.08	21.54	32.96
Health related	20.79	20.79	21.08	27.22	32.96
Registered nurses	20.79	20.79	21.08	21.54	21.54
Teachers, college and university	—	—	—	—	—
Teachers, except college and university	6.97	9.29	9.29	12.50	12.50
Technical	—	—	—	—	—
Executive, administrative, and managerial	—	—	—	—	—
Executives, administrators, and managers	—	—	—	—	—
Sales	6.48	6.73	7.18	8.00	8.33
Cashiers	6.26	6.78	7.35	7.50	9.24
Administrative support, including clerical	6.74	8.50	9.45	9.91	13.14
Blue collar	6.04	6.47	7.29	11.40	13.15
Precision production, craft, and repair	—	—	—	—	—
Machine operators, assemblers, and inspectors	—	—	—	—	—
Transportation and material moving	—	—	—	—	—
Handlers, equipment cleaners, helpers, and laborers	6.00	6.27	7.22	8.48	13.15
Stock handlers and baggers	5.87	6.25	6.47	7.53	8.06
Service	2.65	6.08	7.64	8.88	10.10
Protective service	—	—	—	—	—
Food service	2.65	3.38	6.19	7.64	8.72
Waiters, waitresses, and bartenders	2.65	2.65	2.65	3.65	6.85
Waiters and waitresses	2.65	2.65	2.65	3.38	12.10
Other food service	5.73	6.08	6.52	7.91	8.91
Food preparation, n.e.c.	6.08	6.28	7.25	8.01	8.91
Health service	8.49	8.49	9.05	10.47	11.07
Nursing aides, orderlies and attendants	8.49	8.49	8.88	10.47	11.07
Cleaning and building service	—	—	—	—	—
Personal service	6.89	6.89	7.78	9.05	9.90

¹ Percentiles are calculated from average hourly wages for sampled establishment jobs within each occupation. The percentiles describe the distribution of an occupation's employment by the average wage rates for its jobs. For example, at the 10th percentile hourly wage for an occupation, one-tenth of the occupation's employment are found in sampled establishment jobs whose average wages are the same or less, and nine-tenths are in jobs averaging the same or more. The calculations of the 25th, 50th, 75th, and 90th percentiles follow the same logic. Hourly wages 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.

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.

³ A classification system including about 480 individual occupations is used to cover all workers in the civilian economy. See appendix B for more information.

NOTE: Dashes indicate that no data were reported or that data did not meet publication criteria, and n.e.c. means "not elsewhere classified." Overall occupational groups may include data for categories not shown separately.

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. Although 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 includes questions of scope, frame, and sample selection.

Survey scope

This survey 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 is an economic unit that 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 is usually at a single physical location. For State and local governments, an establishment is defined as all locations of a government entity.

The Kalamazoo–Battle Creek, MI, Metropolitan Statistical Area includes Calhoun, Kalamazoo, and Van Buren Counties.

Sampling frame

The list of establishments from which the survey sample was selected (sampling frame) was developed from State unemployment insurance reports. 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 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 by industry and ownership. 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 it represents similar units (by industry and employment size) in the economy that were not selected for collection. The second stage of sample selection, detailed below, was a probability sample of occupations within a sampled establishment.

Data collection

The collection of data from survey respondents required detailed procedures. Field economists collected the data, working out of the Regional Office and visiting each establishment surveyed. Other contact methods, such as mail and telephone, were used to follow-up and update data.

Occupational selection and classification

Identification of the occupations for which wage data were to be collected was a multistep 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 for which data were collected in each establishment was based on the establishment's employment size, as shown in the following schedule:

<i>Number of employees</i>	<i>Number of selected jobs</i>
50–99	8
100–249	10
250–999	12
1,000–2,499	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. For cases in which 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 MOGs:

- 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

Appendix B contains a complete list of all individual occupations, classified by the MOG to which they belong.

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.

Occupational leveling

In the last step before wage data were collected, the work level of each selected job was determined using an "occupational leveling" process. Occupational leveling ranks and compares all occupations randomly selected in an establishment using the same criteria.

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 the written description that best matched the job. Within each occupation, the points for nine factors (supervisory duties was excluded) were recorded and totaled. The total determines the overall level of the occupation. 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 job with its associated leveling factors, and a guide to help data users evaluate jobs in their firms

Wage data collected in prior surveys using the occupational leveling method were evaluated by BLS researchers using regression techniques. For each of the major occupational groups, wages were compared to the 10 occupational leveling factors (and levels within those factors). The analysis showed that several of the occupational leveling 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.

Collection period

Survey data were collected over a 13-month period for 60 metropolitan areas in the NCS program. For 20 small metropolitan areas, data were collected over a 4-month period. For each establishment in the survey, the data reflect the establishment's most recent information at the time of collection. The payroll reference month shown in the tables reflects the average date of this information for all sample units.

Earnings

Earnings were defined as regular payments from the employer to the employee as compensation for straight-time 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 (such as Christmas and profit-sharing bonuses)
- Uniform and tool allowances
- Free room and board
- Payments made by third parties (for example, bonuses given by manufacturers to department store salespeople, referral incentives in real estate)
- On-call pay

To calculate earnings for various periods (hourly, weekly, and annual), data on work schedules also were 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 on occupational leveling through point factor analysis 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.

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 and 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 data for the individual establishments or occupations into the various data series. Some of the establishments surveyed could not supply or 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 data for the nonrespondents equals the mean value of data for the respondents at some detailed "cell" level. Responding and nonresponding establishments were classified into these cells according to industry and employment size. Responding and nonresponding occupations within responding establishments were classified into cells that were additionally defined by major occupation group and job level.

Establishments that were determined to be out of business or outside the scope of the survey 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.

Survey response

	<i>Establish- ments</i>
Total in sampling frame	670
Total in sample	226
Responding	139
Out of business or not in survey scope	18
Unable or refused to provide data	69

In this survey, the nonresponse rate for all industries and private industry exceeded regular survey standards.

Estimation

The wage series in the tables are computed by combining the wages for each sampled occupation. Before being combined, individual wage rates are weighted by: the number of workers; the sample weight, adjusted for nonresponding establishments and other factors; and the occupation's scheduled hours of work.

Not all calculated series 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 the publication of a series that could have revealed information about a specific establishment.

Estimates of the number of workers represent the total in all establishments within the scope of the study, and not the number actually surveyed. Because occupational structures among establishments differ, estimates of the number of workers obtained from the sample of establishments serve to indicate only the relative importance of the occupational groups studied.

Percentiles

The percentiles presented in tables 6-1 through 6-5 are computed using average hourly wages for sampled establishment jobs within each occupation. During this phase of the ongoing NCS development, establishments in the survey may report either individual-worker earnings or average wage rates for each sampled job. If individual-worker earnings are provided, an average hourly wage rate is computed for the job and used in the calculation of percentile estimates. The average hourly wages for each sampled job are appropriately weighted and then arrayed from lowest to highest.

The published 10th, 25th, 50th, 75th, and 90th percentiles describe the distribution of an occupation's employment by the average wage rates for its jobs. For example, at the 10th percentile, 10 percent of a published occupa-

tion's employment is in sampled establishment jobs that had average hourly wages at the 10th percentile or less for that occupation.

Note that the percentiles in earlier NCS bulletins for this area (in the 3090 and 3095 bulletin series) were calculated from individual-worker earnings rather than from average wages for sampled establishment jobs. Research has shown that using average-wage data for jobs instead of individual-worker data has the effect of moving percentile estimates toward the median (50th percentile). This effect is greatest for occupations with a high degree of wage dispersion. However, medians calculated using the two methods are nearly identical.

Data reliability

The data in this bulletin are estimates from a scientifically 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. RSE data are provided alongside the earnings data in the bulletin tables.

The standard error can be used to calculate a "confidence interval" around a sample estimate. As an example, suppose a table shows that mean hourly earnings for all workers were \$12.79, with a relative standard error of 3.6 percent for this estimate. At the 90-percent level, the confidence interval for the estimate is \$13.55 to \$12.03 (1.645 times 3.6 percent times \$12.79 = \$0.76, plus or minus \$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 were not specifically measured, the nonsampling errors were expected to be minimal due to the extensive training of the field economists who gathered the survey data by personal visit, computer edits of the data, and detailed data review.

Appendix table 1. **Number of workers¹ represented by the survey, by occupational group,² National Compensation Survey, Kalamazoo-Battle Creek, MI, October 2001**

Occupational group	Full-time and part-time workers		
	Total	Private industry	State and local government
All occupations	101,500	79,700	21,900
All excluding sales	95,800	74,000	21,900
White collar	50,900	35,400	15,600
White-collar excluding sales	45,200	29,600	15,600
Professional specialty and technical	22,300	12,900	9,300
Professional specialty	18,200	9,200	9,000
Technical	4,000	3,800	—
Executive, administrative, and managerial	9,300	7,800	1,500
Sales	5,700	5,700	—
Administrative support, including clerical	13,600	8,900	4,800
Blue collar	32,800	30,500	2,300
Precision production, craft, and repair	7,300	6,600	700
Machine operators, assemblers, and inspectors	11,400	11,400	—
Transportation and material moving	4,800	3,900	—
Handlers, equipment cleaners, helpers, and laborers	9,400	8,600	—
Service	17,800	13,800	3,900

¹ The number of workers represented by the survey are rounded to the nearest 100. Estimates of the number of workers provide a description of size and composition of the labor force included in the survey. Estimates are not intended, however, for comparison to other statistical series to measure employment trends or levels. Both full-time and part-time workers were included in the survey.

² A classification system including about 480 individual occupations is used to cover all workers in the civilian economy. See appendix B for more information.

NOTE: Dashes indicate that no data were reported or that data did not meet publication criteria.