

Youngstown–Warren, OH National Compensation Survey October 1999



U.S. Department of Labor
Alexis M. Herman, Secretary

Bureau of Labor Statistics
Katharine G. Abraham, Commissioner

August 2000

Bulletin 3100–65

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://stats.bls.gov/comhome.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.

Material in this bulletin is in the public domain and, with appropriate credit, may be reproduced without permission. This information will be made available to sensory impaired individuals upon request. Voice phone: (202) 691-5200; Federal Relay Service: 1-800-877-8339.

Contents

	<i>Page</i>
Introduction.....	1
Tables:	
1–1. Summary: Mean hourly earnings and weekly hours by selected worker and establishment characteristics, private industry, and State and local government	2
2–1. Mean hourly earnings: Selected occupations, all workers, private industry, and State and local government.....	3
2–2. Mean hourly earnings: Selected occupations, full-time workers, private industry, and State and local government.....	5
2–3. Mean hourly earnings: Selected occupations, part-time workers, private industry, and State and local government.....	7
3–1. Mean weekly earnings and hours: Selected occupations, full-time workers, private industry, and State and local government.....	8
3–2. Mean annual earnings and hours: Selected occupations, full-time workers, private industry, and State and local government.....	10
4–1. Selected occupations and levels, all workers: Mean hourly earnings, private industry, and State and local government.....	12
4–2. Selected occupations and levels, full-time workers: Mean hourly earnings, private industry, and State and local government.....	16
4–3. Selected occupations and levels, part-time workers: Mean hourly earnings, private industry, and State and local government.....	19
5–1. Selected worker characteristics: Mean hourly earnings by occupational group.....	21
5–2. Major industry division: Mean hourly earnings by occupational group, private industry.....	22
5–3. Establishment employment size: Mean hourly earnings by occupational group, private industry.....	23
6–1. Hourly wage percentiles for establishment jobs, all workers: Selected occupations, all industries	24
6–2. Hourly wage percentiles for establishment jobs, all workers: Selected occupations, private industry.....	26
6–3. Hourly wage percentiles for establishment jobs, all workers: Selected occupations, State and local government	28
6–4. Hourly wage percentiles for establishment jobs, full-time workers: Selected occupations, all industries	29
6–5. Hourly wage percentiles for establishment jobs, part-time workers: Selected occupations, all industries	31
Appendixes:	
A. Technical Note.....	A – 1
Appendix table 1. Number of workers represented by the survey, by occupational group.....	A – 5
Appendix table 2. Number of establishments represented and studied.....	A – 6
Appendix table 3. Median work levels for selected occupations	A – 7
B. Occupational Classifications.....	B – 1
C. Generic Leveling Criteria.....	C – 1
D. Evaluating Your Firm’s Jobs	D – 1

Introduction

The tables in this bulletin summarize the NCS results for the Youngstown–Warren, OH, metropolitan area. 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 generic 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), as explained in Appendix A. 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; these estimates also are limited to 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 employment scope of this survey. The occupation employment estimates relate to all employers in the area, rather than just to those surveyed. Appendix table 2 presents the number of establishments studied by industry group and employment size. The median work levels for published occupations are presented in appendix table 3.

Table 1-1. Summary: Mean hourly earnings¹ and weekly hours by selected characteristics, private industry and State and local government, National Compensation Survey, Youngstown-Warren, OH, October 1999

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	\$15.62	2.2	36.4	\$15.01	2.7	36.6	\$18.70	3.7	35.4
Worker characteristics:⁴									
White-collar occupations ⁵	17.82	3.9	36.3	16.26	5.3	36.4	21.65	4.9	36.1
Professional specialty and technical	22.27	3.4	36.2	19.41	4.6	36.7	27.10	4.4	35.4
Executive, administrative, and managerial	28.60	8.7	39.7	29.64	11.4	39.8	25.56	6.6	39.3
Sales	9.44	10.1	33.3	9.26	10.4	33.3	-	-	-
Administrative support	11.17	3.2	36.6	10.61	4.1	36.7	12.32	4.8	36.3
Blue-collar occupations ⁵	16.05	2.5	38.8	16.12	2.6	39.0	14.41	3.3	34.5
Precision production, craft, and repair	19.25	3.5	39.7	19.48	3.5	39.9	14.95	2.2	36.3
Machine operators, assemblers, and inspectors	16.64	3.1	39.8	16.65	3.1	39.8	-	-	-
Transportation and material moving	15.70	3.6	36.7	15.81	4.1	37.4	14.97	5.9	32.7
Handlers, equipment cleaners, helpers, and laborers	10.58	8.6	37.0	10.43	9.1	37.1	12.97	6.7	35.1
Service occupations ⁵	9.37	5.7	30.6	7.58	5.6	29.4	13.96	5.2	34.1
Full time	16.53	2.2	39.7	15.94	2.6	39.9	19.34	3.7	38.7
Part time	8.30	6.9	21.8	8.08	7.8	22.7	10.09	8.0	16.6
Union	18.05	2.1	38.6	17.66	2.4	39.4	19.24	4.4	36.5
Nonunion	13.22	4.4	34.4	12.84	4.7	34.6	17.16	8.6	32.5
Time	15.55	2.4	36.3	14.87	2.9	36.5	18.70	3.7	35.4
Incentive	16.58	3.0	37.5	16.58	3.0	37.5	-	-	-
Establishment characteristics:									
Goods producing	(⁶)	(⁶)	(⁶)	18.13	2.5	39.7	(⁶)	(⁶)	(⁶)
Service producing	(⁶)	(⁶)	(⁶)	-	-	-	(⁶)	(⁶)	(⁶)
50-99 workers ⁷	11.43	9.3	33.5	11.42	9.3	33.4	-	-	-
100-499 workers	13.39	4.4	36.3	11.69	5.3	37.0	19.59	6.1	33.9
500 workers or more	19.63	2.2	38.1	20.07	2.4	38.4	17.90	5.4	36.9

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, 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. IN THIS SURVEY, THE NONRESPONSE RATE FOR ALL INDUSTRIES AND PRIVATE INDUSTRY EXCEEDED REGULAR SURVEY STANDARDS FOR PUBLICATION. ACCORDINGLY, USERS SHOULD INTERPRET THESE RESULTS WITH THIS LIMITATION IN MIND.

Table 2-1. Mean hourly earnings¹, all workers:² Selected occupations, private industry and State and local government, National Compensation Survey, Youngstown-Warren, OH, October 1999

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	\$15.62	2.2	\$15.01	2.7	\$18.70	3.7
All excluding sales	15.96	2.1	15.39	2.5	18.72	3.7
White collar	17.82	3.9	16.26	5.3	21.65	4.9
White collar excluding sales	19.31	3.6	18.08	5.0	21.73	5.0
Professional specialty and technical	22.27	3.4	19.41	4.6	27.10	4.4
Professional specialty	24.11	3.5	21.04	5.0	27.42	4.4
Engineers, architects, and surveyors	28.87	5.6	28.87	5.6	—	—
Mathematical and computer scientists	—	—	—	—	—	—
Natural scientists	—	—	—	—	—	—
Health related	20.06	3.3	19.79	3.4	—	—
Registered nurses	20.79	3.2	20.50	3.3	—	—
Teachers, college and university	—	—	—	—	—	—
Teachers, except college and university	26.80	5.1	16.95	28.7	28.40	3.2
Elementary school teachers	27.41	6.4	—	—	28.13	6.4
Secondary school teachers	28.38	4.8	—	—	29.05	5.0
Teachers, n.e.c.	28.07	2.2	—	—	—	—
Librarians, archivists, and curators	—	—	—	—	—	—
Social scientists and urban planners	—	—	—	—	—	—
Social, recreation, and religious workers	13.50	12.7	—	—	14.41	15.2
Social workers	14.41	15.2	—	—	14.41	15.2
Lawyers and judges	—	—	—	—	—	—
Writers, authors, entertainers, athletes, and professionals, n.e.c.	—	—	—	—	—	—
Technical	16.67	7.6	16.71	7.9	—	—
Licensed practical nurses	13.54	2.0	13.54	2.0	—	—
Executive, administrative, and managerial	28.60	8.7	29.64	11.4	25.56	6.6
Executives, administrators, and managers	32.05	8.5	35.85	11.3	25.21	6.9
Managers and administrators, n.e.c.	37.49	13.1	38.15	13.9	—	—
Management related	21.36	15.6	20.91	16.2	—	—
Sales	9.44	10.1	9.26	10.4	—	—
Sales workers, other commodities	6.58	8.1	6.58	8.1	—	—
Cashiers	7.66	5.1	7.01	3.5	—	—
Administrative support, including clerical	11.17	3.2	10.61	4.1	12.32	4.8
Secretaries	11.75	6.8	9.19	8.6	12.83	5.8
Receptionists	8.63	7.2	8.63	7.2	—	—
Records clerks, n.e.c.	9.85	3.9	9.50	3.2	—	—
Bookkeepers, accounting and auditing clerks	11.43	5.3	10.82	4.2	—	—
Traffic, shipping and receiving clerks	10.42	9.6	10.42	9.6	—	—
General office clerks	11.39	6.3	10.70	10.5	12.27	3.9
Teachers' aides	8.90	11.0	—	—	—	—
Administrative support, n.e.c.	10.03	6.8	9.96	7.5	—	—
Blue collar	16.05	2.5	16.12	2.6	14.41	3.3
Precision production, craft, and repair	19.25	3.5	19.48	3.5	14.95	2.2
Industrial machinery repairers	20.75	8.8	20.75	8.8	—	—
Mechanics and repairers, n.e.c.	17.11	5.1	17.40	5.6	—	—
Electricians	23.19	3.8	23.19	3.8	—	—
Supervisors, production	21.62	9.5	21.62	9.5	—	—
Machinists	16.24	3.6	16.24	3.6	—	—
Machine operators, assemblers, and inspectors	16.64	3.1	16.65	3.1	—	—
Punching and stamping press operators	16.82	10.3	16.82	10.3	—	—
Fabricating machine operators, n.e.c.	16.08	19.8	16.08	19.8	—	—
Miscellaneous machine operators, n.e.c.	16.59	9.4	16.59	9.4	—	—
Welders and cutters	15.25	8.7	15.25	8.7	—	—
Production inspectors, checkers and examiners ..	13.38	10.2	13.38	10.2	—	—
Transportation and material moving	15.70	3.6	15.81	4.1	14.97	5.9
Bus drivers	9.87	8.4	—	—	11.38	5.2

See footnotes at end of table.

Table 2-1. Mean hourly earnings¹, all workers:² Selected occupations, private industry and State and local government, National Compensation Survey, Youngstown-Warren, OH, October 1999 — 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	\$10.58	8.6	\$10.43	9.1	\$12.97	6.7
Production helpers	10.00	7.7	10.00	7.7	—	—
Stock handlers and baggers	10.55	27.6	10.55	27.6	—	—
Machine feeders and offbearers	9.45	5.5	9.45	5.5	—	—
Hand packers and packagers	8.55	11.4	8.55	11.4	—	—
Laborers, except construction, n.e.c.	10.39	14.8	10.26	15.6	—	—
Service	9.37	5.7	7.58	5.6	13.96	5.2
Protective service	15.11	5.7	—	—	15.33	5.3
Police and detectives, public service	16.94	2.7	—	—	16.94	2.7
Food service	5.90	10.3	5.61	11.6	9.32	13.8
Waiters, waitresses, and bartenders	2.65	12.4	2.65	12.4	—	—
Waiters and waitresses	2.51	12.8	2.51	12.8	—	—
Other food service	7.48	9.2	7.24	10.6	9.32	13.8
Cooks	8.31	9.3	7.85	10.2	—	—
Food preparation, n.e.c.	6.28	3.6	6.17	3.4	—	—
Health service	8.78	5.3	8.60	5.6	—	—
Health aides, except nursing	11.46	5.9	—	—	—	—
Nursing aides, orderlies and attendants	8.37	5.6	8.37	5.6	—	—
Cleaning and building service	8.91	8.6	7.89	10.1	11.95	4.1
Janitors and cleaners	9.01	9.3	7.90	11.4	11.95	4.1
Personal service	9.32	13.1	7.91	9.2	—	—

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. IN THIS SURVEY, THE NONRESPONSE RATE FOR ALL INDUSTRIES AND PRIVATE INDUSTRY EXCEEDED REGULAR SURVEY STANDARDS FOR PUBLICATION. ACCORDINGLY, USERS SHOULD INTERPRET THESE RESULTS WITH THIS LIMITATION IN MIND.

Table 2-2. Mean hourly earnings¹, full-time workers:² Selected occupations, private industry and State and local government, National Compensation Survey, Youngstown-Warren, OH, October 1999

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	\$16.53	2.2	\$15.94	2.6	\$19.34	3.7
All excluding sales	16.81	2.0	16.25	2.4	19.36	3.7
White collar	18.68	4.0	17.12	5.5	22.08	4.9
White collar excluding sales	19.88	3.8	18.63	5.5	22.15	5.0
Professional specialty and technical	23.09	3.6	20.09	5.1	27.40	4.4
Professional specialty	24.57	3.7	21.28	5.5	27.75	4.4
Engineers, architects, and surveyors	28.87	5.6	28.87	5.6	—	—
Mathematical and computer scientists	—	—	—	—	—	—
Natural scientists	—	—	—	—	—	—
Health related	20.24	3.8	19.90	3.8	—	—
Registered nurses	20.86	3.8	20.48	3.9	—	—
Teachers, college and university	—	—	—	—	—	—
Teachers, except college and university	26.94	5.1	16.90	28.6	28.56	3.2
Elementary school teachers	27.41	6.4	—	—	28.13	6.4
Secondary school teachers	28.44	4.8	—	—	29.05	5.0
Teachers, n.e.c.	28.08	2.2	—	—	—	—
Librarians, archivists, and curators	—	—	—	—	—	—
Social scientists and urban planners	—	—	—	—	—	—
Social, recreation, and religious workers	13.04	14.6	—	—	—	—
Lawyers and judges	—	—	—	—	—	—
Writers, authors, entertainers, athletes, and professionals, n.e.c.	—	—	—	—	—	—
Technical	17.73	8.5	17.84	8.8	—	—
Licensed practical nurses	13.46	2.2	13.46	2.2	—	—
Executive, administrative, and managerial	28.64	8.8	29.71	11.5	25.54	6.6
Executives, administrators, and managers	32.04	8.5	35.85	11.3	25.20	6.9
Managers and administrators, n.e.c.	37.49	13.1	38.15	13.9	—	—
Management related	21.38	15.9	20.92	16.4	—	—
Sales	10.37	12.2	10.17	12.6	—	—
Administrative support, including clerical	11.41	3.3	10.82	4.3	12.60	4.6
Secretaries	11.75	6.8	9.19	8.6	12.83	5.8
Bookkeepers, accounting and auditing clerks	11.43	5.3	10.82	4.2	—	—
Traffic, shipping and receiving clerks	10.42	9.6	10.42	9.6	—	—
General office clerks	11.43	6.3	10.70	10.5	12.39	3.9
Administrative support, n.e.c.	9.15	5.4	8.89	5.5	—	—
Blue collar	16.39	2.4	16.45	2.5	14.86	3.3
Precision production, craft, and repair	19.27	3.5	19.50	3.5	14.78	2.1
Industrial machinery repairers	20.92	8.7	20.92	8.7	—	—
Mechanics and repairers, n.e.c.	17.11	5.1	17.40	5.6	—	—
Electricians	23.19	3.8	23.19	3.8	—	—
Supervisors, production	21.62	9.5	21.62	9.5	—	—
Machinists	16.24	3.6	16.24	3.6	—	—
Machine operators, assemblers, and inspectors	16.79	3.1	16.79	3.1	—	—
Punching and stamping press operators	16.82	10.3	16.82	10.3	—	—
Fabricating machine operators, n.e.c.	16.08	19.8	16.08	19.8	—	—
Miscellaneous machine operators, n.e.c.	16.99	9.3	16.99	9.3	—	—
Welders and cutters	15.25	8.7	15.25	8.7	—	—
Production inspectors, checkers and examiners ..	13.38	10.2	13.38	10.2	—	—
Transportation and material moving	16.00	3.9	15.99	4.3	16.09	6.8
Handlers, equipment cleaners, helpers, and laborers	11.14	8.6	11.01	9.2	13.40	5.7
Production helpers	10.71	5.6	10.71	5.6	—	—
Stock handlers and baggers	12.12	28.7	12.12	28.7	—	—
Machine feeders and offbearers	9.45	5.5	9.45	5.5	—	—
Hand packers and packagers	9.34	13.8	9.34	13.8	—	—
Laborers, except construction, n.e.c.	10.70	15.1	10.58	15.9	—	—

See footnotes at end of table.

Table 2-2. Mean hourly earnings¹, full-time workers:² Selected occupations, private industry and State and local government, National Compensation Survey, Youngstown-Warren, OH, October 1999 — 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)
Service	\$10.99	4.9	\$8.92	5.0	\$14.59	4.7
Protective service	15.48	5.8	—	—	15.77	5.1
Food service	8.90	10.2	8.57	12.4	—	—
Other food service	8.90	10.2	8.57	12.4	—	—
Health service	8.78	5.6	8.63	5.8	—	—
Nursing aides, orderlies and attendants	8.42	5.7	8.42	5.7	—	—
Cleaning and building service	9.94	7.9	8.79	11.8	11.95	4.1
Janitors and cleaners	10.24	8.2	9.02	14.0	11.95	4.1
Personal service	10.66	13.9	—	—	—	—

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.

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. IN THIS SURVEY, THE NONRESPONSE RATE FOR ALL INDUSTRIES AND PRIVATE INDUSTRY EXCEEDED REGULAR SURVEY STANDARDS FOR PUBLICATION. ACCORDINGLY, USERS SHOULD INTERPRET THESE RESULTS WITH THIS LIMITATION IN MIND.

Table 2-3. Mean hourly earnings¹, part-time workers:² Selected occupations, private industry and State and local government, National Compensation Survey, Youngstown-Warren, OH, October 1999

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	\$8.30	6.9	\$8.08	7.8	\$10.09	8.0
All excluding sales	8.51	7.5	8.30	8.6	10.07	8.2
White collar	11.04	8.6	11.12	9.2	10.28	15.9
White collar excluding sales	13.30	7.2	13.78	7.3	10.22	17.0
Professional specialty and technical	15.90	6.5	16.08	6.9	-	-
Professional specialty	18.63	7.1	19.46	7.3	-	-
Health related	19.45	7.4	19.45	7.4	-	-
Registered nurses	20.54	7.0	20.54	7.0	-	-
Teachers, except college and university	-	-	-	-	-	-
Social, recreation, and religious workers	-	-	-	-	-	-
Technical	13.09	3.7	13.09	3.7	-	-
Executive, administrative, and managerial	-	-	-	-	-	-
Executives, administrators, and managers	-	-	-	-	-	-
Management related	-	-	-	-	-	-
Sales	6.75	5.3	6.67	5.2	-	-
Cashiers	7.09	6.9	6.98	6.8	-	-
Administrative support, including clerical	8.62	8.8	8.69	11.3	-	-
Blue collar	9.00	13.8	8.45	17.5	12.10	7.6
Precision production, craft, and repair	-	-	-	-	-	-
Machine operators, assemblers, and inspectors	8.86	16.2	-	-	-	-
Transportation and material moving	13.08	14.9	-	-	-	-
Handlers, equipment cleaners, helpers, and laborers	6.47	6.2	6.18	4.6	-	-
Service	5.73	5.8	5.45	6.2	8.43	10.4
Protective service	8.98	25.4	-	-	-	-
Food service	4.69	6.1	4.48	6.5	-	-
Waiters, waitresses, and bartenders	2.65	12.4	2.65	12.4	-	-
Waiters and waitresses	2.51	12.8	2.51	12.8	-	-
Other food service	6.42	3.9	6.25	3.9	-	-
Food preparation, n.e.c.	6.17	4.2	5.98	3.5	-	-
Health service	-	-	-	-	-	-
Cleaning and building service	6.63	11.4	6.63	11.4	-	-
Janitors and cleaners	6.63	11.4	6.63	11.4	-	-
Personal service	6.57	12.8	5.52	3.0	-	-

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 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.

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. IN THIS SURVEY, THE NONRESPONSE RATE FOR ALL INDUSTRIES AND PRIVATE INDUSTRY EXCEEDED REGULAR SURVEY STANDARDS FOR PUBLICATION. ACCORDINGLY, USERS SHOULD INTERPRET THESE RESULTS WITH THIS LIMITATION IN MIND.

Table 3-1. Mean weekly earnings¹, full-time workers:² Selected occupations, private industry and State and local government, National Compensation Survey, Youngstown-Warren, OH, October 1999

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	\$655	2.2	39.7	\$636	2.6	39.9	\$748	3.5	38.7
All excluding sales	666	2.0	39.6	648	2.4	39.9	748	3.5	38.6
White collar	734	3.9	39.3	685	5.5	40.0	834	4.9	37.7
White collar excluding sales	778	3.8	39.2	745	5.5	40.0	835	5.0	37.7
Professional specialty and technical	889	3.4	38.5	802	5.0	39.9	1,003	4.2	36.6
Professional specialty	936	3.5	38.1	848	5.5	39.9	1,013	4.3	36.5
Engineers, architects, and surveyors	1,155	5.6	40.0	1,155	5.6	40.0	-	-	-
Mathematical and computer scientists	-	-	-	-	-	-	-	-	-
Natural scientists	-	-	-	-	-	-	-	-	-
Health related	810	3.8	40.0	796	3.8	40.0	-	-	-
Registered nurses	835	3.8	40.0	819	3.9	40.0	-	-	-
Teachers, college and university	-	-	-	-	-	-	-	-	-
Teachers, except college and university	974	4.7	36.2	658	25.9	39.0	1,021	3.4	35.8
Elementary school teachers ...	990	6.5	36.1	-	-	-	1,012	6.7	36.0
Secondary school teachers ...	1,025	4.8	36.0	-	-	-	1,041	5.2	35.8
Teachers, n.e.c.	1,005	2.9	35.8	-	-	-	-	-	-
Librarians, archivists, and curators	-	-	-	-	-	-	-	-	-
Social scientists and urban planners	-	-	-	-	-	-	-	-	-
Social, recreation, and religious workers	492	13.7	37.8	-	-	-	-	-	-
Lawyers and judges	-	-	-	-	-	-	-	-	-
Writers, authors, entertainers, athletes, and professionals, n.e.c.	-	-	-	-	-	-	-	-	-
Technical	709	8.5	40.0	714	8.8	40.0	-	-	-
Licensed practical nurses	539	2.2	40.0	539	2.2	40.0	-	-	-
Executive, administrative, and managerial	1,149	8.8	40.1	1,194	11.5	40.2	1,022	6.6	40.0
Executives, administrators, and managers	1,288	8.5	40.2	1,445	11.3	40.3	1,008	6.9	40.0
Managers and administrators, n.e.c.	1,514	13.1	40.4	1,542	13.9	40.4	-	-	-
Management related	855	15.9	40.0	837	16.4	40.0	-	-	-
Sales	415	12.2	40.0	407	12.6	40.0	-	-	-
Administrative support, including clerical	452	3.5	39.6	432	4.3	40.0	488	5.8	38.8
Secretaries	466	6.7	39.7	363	8.3	39.5	510	5.4	39.7
Bookkeepers, accounting and auditing clerks	457	5.3	40.0	433	4.2	40.0	-	-	-
Traffic, shipping and receiving clerks	417	9.6	40.0	417	9.6	40.0	-	-	-
General office clerks	449	6.6	39.3	428	10.5	40.0	476	6.9	38.4
Administrative support, n.e.c.	363	5.0	39.6	356	5.5	40.0	-	-	-
Blue collar	655	2.4	40.0	658	2.5	40.0	588	4.1	39.6
Precision production, craft, and repair	771	3.5	40.0	780	3.5	40.0	591	2.2	40.0
Industrial machinery repairers	837	8.7	40.0	837	8.7	40.0	-	-	-
Mechanics and repairers, n.e.c.	685	5.1	40.0	696	5.6	40.0	-	-	-
Electricians	928	3.8	40.0	928	3.8	40.0	-	-	-
Supervisors, production	865	9.5	40.0	865	9.5	40.0	-	-	-

See footnotes at end of table.

Table 3-1. Mean weekly earnings¹, full-time workers:² Selected occupations, private industry and State and local government, National Compensation Survey, Youngstown-Warren, OH, October 1999 — 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									
Machinists	\$650	3.6	40.0	\$650	3.6	40.0	—	—	—
Machine operators, assemblers, and inspectors	671	3.1	40.0	671	3.1	40.0	—	—	—
Punching and stamping press operators	673	10.3	40.0	673	10.3	40.0	—	—	—
Fabricating machine operators, n.e.c.	643	19.8	40.0	643	19.8	40.0	—	—	—
Miscellaneous machine operators, n.e.c.	680	9.3	40.0	680	9.3	40.0	—	—	—
Welders and cutters	610	8.7	40.0	610	8.7	40.0	—	—	—
Production inspectors, checkers and examiners ...	535	10.2	40.0	535	10.2	40.0	—	—	—
Transportation and material moving	638	3.9	39.9	640	4.3	40.0	\$624	8.3	38.8
Handlers, equipment cleaners, helpers, and laborers	446	8.6	40.0	440	9.2	40.0	536	5.7	40.0
Production helpers	428	5.6	40.0	428	5.6	40.0	—	—	—
Stock handlers and baggers ...	485	28.7	40.0	485	28.7	40.0	—	—	—
Machine feeders and offbearers	378	5.5	40.0	378	5.5	40.0	—	—	—
Hand packers and packagers	374	13.8	40.0	374	13.8	40.0	—	—	—
Laborers, except construction, n.e.c.	428	15.1	40.0	423	15.9	40.0	—	—	—
Service	434	5.6	39.5	347	5.5	38.9	593	5.6	40.6
Protective service	653	6.4	42.2	—	—	—	674	5.4	42.7
Food service	312	17.5	35.1	306	20.5	35.7	—	—	—
Other food service	312	17.5	35.1	306	20.5	35.7	—	—	—
Health service	346	5.8	39.4	340	5.9	39.4	—	—	—
Nursing aides, orderlies and attendants	331	5.8	39.3	331	5.8	39.3	—	—	—
Cleaning and building service	390	8.0	39.3	349	11.8	39.7	461	5.6	38.5
Janitors and cleaners	401	8.4	39.2	357	14.1	39.6	461	5.6	38.5
Personal service	411	11.8	38.6	—	—	—	—	—	—

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. IN THIS SURVEY, THE NONRESPONSE RATE FOR ALL INDUSTRIES AND PRIVATE INDUSTRY EXCEEDED REGULAR SURVEY STANDARDS FOR PUBLICATION. ACCORDINGLY, USERS SHOULD INTERPRET THESE RESULTS WITH THIS LIMITATION IN MIND.

Table 3-2. Mean annual earnings¹, full-time workers:² Selected occupations, private industry and State and local government, National Compensation Survey, Youngstown-Warren, OH, October 1999

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	\$33,097	2.2	2,003	\$32,888	2.6	2,064	\$33,947	3.5	1,755
All excluding sales	33,603	2.0	1,999	33,516	2.4	2,063	33,942	3.5	1,753
White collar	35,409	3.9	1,895	35,148	5.5	2,053	35,859	4.9	1,624
White collar excluding sales	37,204	3.8	1,871	38,135	5.5	2,047	35,870	5.0	1,620
Professional specialty and technical	39,533	3.4	1,712	40,414	5.0	2,012	38,648	4.2	1,410
Professional specialty	40,105	3.5	1,632	42,077	5.5	1,978	38,761	4.3	1,397
Engineers, architects, and surveyors	60,052	5.6	2,080	60,052	5.6	2,080	-	-	-
Mathematical and computer scientists	-	-	-	-	-	-	-	-	-
Natural scientists	-	-	-	-	-	-	-	-	-
Health related	42,100	3.8	2,080	41,395	3.8	2,080	-	-	-
Registered nurses	43,395	3.8	2,080	42,601	3.9	2,080	-	-	-
Teachers, college and university Teachers, except college and university	36,007	4.7	1,337	24,947	25.9	1,476	37,601	3.4	1,317
Elementary school teachers ...	36,390	6.5	1,328	-	-	-	37,280	6.7	1,325
Secondary school teachers ...	37,737	4.8	1,327	-	-	-	38,292	5.2	1,318
Teachers, n.e.c.	37,279	2.9	1,327	-	-	-	-	-	-
Librarians, archivists, and curators	-	-	-	-	-	-	-	-	-
Social scientists and urban planners	-	-	-	-	-	-	-	-	-
Social, recreation, and religious workers	24,679	13.7	1,893	-	-	-	-	-	-
Lawyers and judges	-	-	-	-	-	-	-	-	-
Writers, authors, entertainers, athletes, and professionals, n.e.c.	-	-	-	-	-	-	-	-	-
Technical	36,886	8.5	2,080	37,114	8.8	2,080	-	-	-
Licensed practical nurses	28,005	2.2	2,080	28,005	2.2	2,080	-	-	-
Executive, administrative, and managerial	59,769	8.8	2,087	62,071	11.5	2,089	53,133	6.6	2,080
Executives, administrators, and managers	66,984	8.5	2,090	75,155	11.3	2,096	52,409	6.9	2,080
Managers and administrators, n.e.c.	78,706	13.1	2,100	80,163	13.9	2,101	-	-	-
Management related	44,469	15.9	2,080	43,515	16.4	2,080	-	-	-
Sales	21,569	12.2	2,080	21,158	12.6	2,080	-	-	-
Administrative support, including clerical	22,899	3.5	2,006	22,323	4.3	2,063	23,954	5.8	1,901
Secretaries	23,271	6.7	1,980	18,422	8.3	2,005	25,279	5.4	1,970
Bookkeepers, accounting and auditing clerks	23,781	5.3	2,080	22,497	4.2	2,080	-	-	-
Traffic, shipping and receiving clerks	21,665	9.6	2,080	21,665	9.6	2,080	-	-	-
General office clerks	23,366	6.6	2,044	22,265	10.5	2,080	24,765	6.9	1,999
Administrative support, n.e.c.	18,221	5.0	1,992	18,495	5.5	2,080	-	-	-
Blue collar	34,014	2.4	2,075	34,164	2.5	2,077	30,184	4.1	2,031
Precision production, craft, and repair	40,086	3.5	2,080	40,566	3.5	2,080	30,753	2.2	2,080
Industrial machinery repairers	43,520	8.7	2,080	43,520	8.7	2,080	-	-	-
Mechanics and repairers, n.e.c.	35,595	5.1	2,080	36,186	5.6	2,080	-	-	-
Electricians	48,244	3.8	2,080	48,244	3.8	2,080	-	-	-
Supervisors, production	44,961	9.5	2,080	44,961	9.5	2,080	-	-	-

See footnotes at end of table.

Table 3-2. Mean annual earnings¹, full-time workers:² Selected occupations, private industry and State and local government, National Compensation Survey, Youngstown-Warren, OH, October 1999 — 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									
Machinists	\$33,775	3.6	2,080	\$33,775	3.6	2,080	—	—	—
Machine operators, assemblers, and inspectors	34,875	3.1	2,078	34,875	3.1	2,078	—	—	—
Punching and stamping press operators	34,986	10.3	2,080	34,986	10.3	2,080	—	—	—
Fabricating machine operators, n.e.c.	33,441	19.8	2,080	33,441	19.8	2,080	—	—	—
Miscellaneous machine operators, n.e.c.	35,341	9.3	2,080	35,341	9.3	2,080	—	—	—
Welders and cutters	31,711	8.7	2,080	31,711	8.7	2,080	—	—	—
Production inspectors, checkers and examiners ...	27,835	10.2	2,080	27,835	10.2	2,080	—	—	—
Transportation and material moving	32,789	3.9	2,049	32,989	4.3	2,063	\$31,273	8.3	1,944
Handlers, equipment cleaners, helpers, and laborers	23,170	8.6	2,080	22,902	9.2	2,080	27,869	5.7	2,080
Production helpers	22,278	5.6	2,080	22,278	5.6	2,080	—	—	—
Stock handlers and baggers ...	25,202	28.7	2,080	25,202	28.7	2,080	—	—	—
Machine feeders and offbearers	19,663	5.5	2,080	19,663	5.5	2,080	—	—	—
Hand packers and packagers	19,433	13.8	2,080	19,433	13.8	2,080	—	—	—
Laborers, except construction, n.e.c.	22,262	15.1	2,080	22,000	15.9	2,080	—	—	—
Service	22,203	5.6	2,021	17,951	5.5	2,011	29,716	5.6	2,037
Protective service	33,964	6.4	2,194	—	—	—	35,029	5.4	2,221
Food service	15,467	17.5	1,739	15,894	20.5	1,856	—	—	—
Other food service	15,467	17.5	1,739	15,894	20.5	1,856	—	—	—
Health service	17,993	5.8	2,050	17,690	5.9	2,049	—	—	—
Nursing aides, orderlies and attendants	17,229	5.8	2,046	17,229	5.8	2,046	—	—	—
Cleaning and building service	20,138	8.0	2,026	18,125	11.8	2,063	23,483	5.6	1,965
Janitors and cleaners	20,672	8.4	2,019	18,565	14.1	2,059	23,483	5.6	1,965
Personal service	18,986	11.8	1,781	—	—	—	—	—	—

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.

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 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. IN THIS SURVEY, THE NONRESPONSE RATE FOR ALL INDUSTRIES AND PRIVATE INDUSTRY EXCEEDED REGULAR SURVEY STANDARDS FOR PUBLICATION. ACCORDINGLY, USERS SHOULD INTERPRET THESE RESULTS WITH THIS LIMITATION IN MIND.

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, Youngstown-Warren, OH, October 1999

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	\$15.62	2.2	\$15.01	2.7	\$18.70	3.7
All excluding sales	15.96	2.1	15.39	2.5	18.72	3.7
White collar	17.82	3.9	16.26	5.3	21.65	4.9
1	6.53	3.0	6.43	3.1	—	—
2	8.39	10.1	7.28	8.9	11.42	7.2
3	9.67	5.9	8.88	6.9	11.69	6.1
4	10.62	3.8	9.85	3.6	13.63	6.7
5	13.92	5.7	13.04	3.4	17.11	14.8
6	16.23	9.7	15.24	6.9	19.93	26.9
7	18.33	5.5	18.10	7.1	18.81	9.1
8	24.31	4.8	21.31	4.2	—	—
9	25.25	3.2	23.09	3.3	27.46	3.6
11	30.17	5.7	31.28	6.1	—	—
White collar excluding sales	19.31	3.6	18.08	5.0	21.73	5.0
2	10.14	7.9	8.99	10.0	11.42	7.2
3	10.00	5.7	9.44	7.7	11.11	7.1
4	10.83	3.8	10.02	3.7	13.63	6.7
5	13.88	6.1	12.88	3.5	17.11	14.8
6	16.55	10.1	15.54	7.1	19.93	26.9
7	18.31	5.7	18.06	7.4	18.81	9.1
8	24.72	5.1	21.17	5.1	—	—
9	25.26	3.2	23.10	3.3	27.46	3.6
11	30.17	5.7	31.28	6.1	—	—
Professional specialty and technical	22.27	3.4	19.41	4.6	27.10	4.4
Professional specialty	24.11	3.5	21.04	5.0	27.42	4.4
5	17.32	27.7	—	—	—	—
6	18.76	21.3	—	—	—	—
7	19.90	8.9	20.73	8.8	19.17	13.4
8	24.83	6.3	19.26	3.9	—	—
9	25.73	4.1	22.46	3.9	28.61	3.5
11	29.01	5.9	—	—	—	—
Engineers, architects, and surveyors	28.87	5.6	28.87	5.6	—	—
9	24.62	5.1	24.62	5.1	—	—
Mathematical and computer scientists	—	—	—	—	—	—
Natural scientists	—	—	—	—	—	—
Health related	20.06	3.3	19.79	3.4	—	—
7	19.53	10.2	19.53	10.2	—	—
8	18.50	2.4	18.50	2.4	—	—
9	20.86	3.7	20.22	2.9	—	—
Registered nurses	20.79	3.2	20.50	3.3	—	—
7	19.53	10.2	19.53	10.2	—	—
8	18.93	2.5	18.93	2.5	—	—
9	21.39	3.1	20.80	1.7	—	—
Teachers, college and university	—	—	—	—	—	—
Teachers, except college and university	26.80	5.1	16.95	28.7	28.40	3.2
7	22.92	7.7	—	—	—	—
8	28.55	1.6	—	—	—	—
9	29.70	3.1	—	—	29.70	3.1
Elementary school teachers	27.41	6.4	—	—	28.13	6.4
Secondary school teachers	28.38	4.8	—	—	29.05	5.0
Teachers, n.e.c.	28.07	2.2	—	—	—	—
Librarians, archivists, and curators	—	—	—	—	—	—
Social scientists and urban planners	—	—	—	—	—	—
Social, recreation, and religious workers	13.50	12.7	—	—	14.41	15.2
Social workers	14.41	15.2	—	—	14.41	15.2
Lawyers and judges	—	—	—	—	—	—
Writers, authors, entertainers, athletes, and professionals, n.e.c.	—	—	—	—	—	—
Technical	16.67	7.6	16.71	7.9	—	—
5	12.93	1.8	12.93	1.8	—	—
7	17.15	9.4	17.15	9.4	—	—
Licensed practical nurses	13.54	2.0	13.54	2.0	—	—
Executive, administrative, and managerial	28.60	8.7	29.64	11.4	25.56	6.6

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, Youngstown-Warren, OH, October 1999 — 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						
9	\$24.26	4.8	\$23.63	5.8	\$25.04	7.3
Executives, administrators, and managers	32.05	8.5	35.85	11.3	25.21	6.9
9	25.17	4.9	25.33	5.9	25.04	7.3
12	41.40	5.8	41.40	5.8	—	—
Managers and administrators, n.e.c.	37.49	13.1	38.15	13.9	—	—
9	26.27	7.2	27.62	6.8	—	—
Management related	21.36	15.6	20.91	16.2	—	—
Sales	9.44	10.1	9.26	10.4	—	—
1	6.52	2.8	6.52	2.8	—	—
3	8.77	10.4	—	—	—	—
Sales workers, other commodities	6.58	8.1	6.58	8.1	—	—
Cashiers	7.66	5.1	7.01	3.5	—	—
1	6.59	3.2	6.59	3.2	—	—
Administrative support, including clerical	11.17	3.2	10.61	4.1	12.32	4.8
2	10.14	7.9	8.99	10.0	11.42	7.2
3	10.00	5.7	9.44	7.7	11.11	7.1
4	10.61	3.5	10.01	3.8	13.09	7.3
5	14.02	6.0	13.80	7.8	14.34	9.0
6	14.38	10.1	—	—	—	—
7	16.02	5.6	—	—	—	—
Secretaries	11.75	6.8	9.19	8.6	12.83	5.8
4	11.52	11.8	8.58	5.0	—	—
Receptionists	8.63	7.2	8.63	7.2	—	—
Records clerks, n.e.c.	9.85	3.9	9.50	3.2	—	—
Bookkeepers, accounting and auditing clerks	11.43	5.3	10.82	4.2	—	—
Traffic, shipping and receiving clerks	10.42	9.6	10.42	9.6	—	—
General office clerks	11.39	6.3	10.70	10.5	12.27	3.9
Teachers' aides	8.90	11.0	—	—	—	—
Administrative support, n.e.c.	10.03	6.8	9.96	7.5	—	—
3	10.32	9.3	10.32	9.3	—	—
Blue collar	16.05	2.5	16.12	2.6	14.41	3.3
1	8.72	9.9	8.56	10.4	—	—
2	8.96	7.4	8.91	7.5	—	—
4	16.26	4.8	16.38	4.9	13.40	6.4
5	14.21	2.1	14.17	2.4	14.51	1.9
6	16.05	4.2	16.06	4.4	—	—
7	20.86	3.5	21.07	3.6	—	—
8	21.77	7.3	21.77	7.3	—	—
Precision production, craft, and repair	19.25	3.5	19.48	3.5	14.95	2.2
5	14.24	4.2	14.23	5.5	—	—
6	14.65	6.3	14.54	6.9	—	—
7	21.20	3.2	21.36	3.2	—	—
8	21.77	7.3	21.77	7.3	—	—
Industrial machinery repairers	20.75	8.8	20.75	8.8	—	—
7	22.75	5.5	22.75	5.5	—	—
Mechanics and repairers, n.e.c.	17.11	5.1	17.40	5.6	—	—
Electricians	23.19	3.8	23.19	3.8	—	—
7	23.19	3.8	23.19	3.8	—	—
Supervisors, production	21.62	9.5	21.62	9.5	—	—
8	23.27	8.6	23.27	8.6	—	—
Machinists	16.24	3.6	16.24	3.6	—	—
7	16.23	8.6	16.23	8.6	—	—
Machine operators, assemblers, and inspectors	16.64	3.1	16.65	3.1	—	—
1	7.98	9.2	7.98	9.2	—	—
2	8.54	3.8	8.54	3.8	—	—
5	13.62	4.0	13.64	4.1	—	—
6	15.80	6.5	15.80	6.5	—	—

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, Youngstown-Warren, OH, October 1999 — 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						
Punching and stamping press operators	\$16.82	10.3	\$16.82	10.3	—	—
Fabricating machine operators, n.e.c.	16.08	19.8	16.08	19.8	—	—
Miscellaneous machine operators, n.e.c.	16.59	9.4	16.59	9.4	—	—
3	13.98	13.6	13.98	13.6	—	—
Welders and cutters	15.25	8.7	15.25	8.7	—	—
Production inspectors, checkers and examiners ..	13.38	10.2	13.38	10.2	—	—
4	12.54	11.0	12.54	11.0	—	—
Transportation and material moving	15.70	3.6	15.81	4.1	\$14.97	5.9
4	14.92	5.5	—	—	13.45	7.3
5	14.58	1.7	—	—	—	—
Bus drivers	9.87	8.4	—	—	11.38	5.2
4	9.67	8.8	—	—	—	—
Handlers, equipment cleaners, helpers, and laborers	10.58	8.6	10.43	9.1	12.97	6.7
1	7.94	6.3	7.66	5.8	—	—
2	8.63	10.3	8.53	10.4	—	—
3	16.37	11.9	16.62	11.8	—	—
4	11.09	7.9	11.00	8.1	—	—
Production helpers	10.00	7.7	10.00	7.7	—	—
Stock handlers and baggers	10.55	27.6	10.55	27.6	—	—
1	6.52	2.9	6.52	2.9	—	—
Machine feeders and offbearers	9.45	5.5	9.45	5.5	—	—
Hand packers and packagers	8.55	11.4	8.55	11.4	—	—
Laborers, except construction, n.e.c.	10.39	14.8	10.26	15.6	—	—
1	8.28	9.0	7.96	8.4	—	—
2	9.56	20.0	9.56	20.0	—	—
Service	9.37	5.7	7.58	5.6	13.96	5.2
1	6.59	7.7	6.59	8.1	—	—
2	7.35	15.2	6.69	18.2	—	—
3	8.61	5.2	8.26	5.7	11.69	5.3
4	11.80	7.9	9.11	5.6	14.15	8.6
5	13.10	7.0	—	—	13.10	7.0
7	15.92	4.7	—	—	15.63	4.9
Protective service	15.11	5.7	—	—	15.33	5.3
7	16.01	5.0	—	—	15.63	4.9
Police and detectives, public service	16.94	2.7	—	—	16.94	2.7
Food service	5.90	10.3	5.61	11.6	9.32	13.8
1	5.32	7.2	5.14	7.0	—	—
2	4.71	17.1	4.49	17.8	—	—
Waiters, waitresses, and bartenders	2.65	12.4	2.65	12.4	—	—
Waiters and waitresses	2.51	12.8	2.51	12.8	—	—
Other food service	7.48	9.2	7.24	10.6	9.32	13.8
1	6.20	3.6	6.04	3.4	—	—
2	6.78	3.8	—	—	—	—
Cooks	8.31	9.3	7.85	10.2	—	—
Food preparation, n.e.c.	6.28	3.6	6.17	3.4	—	—
1	6.09	3.4	6.04	3.4	—	—
Health service	8.78	5.3	8.60	5.6	—	—
3	8.52	5.4	8.52	5.4	—	—
Health aides, except nursing	11.46	5.9	—	—	—	—
Nursing aides, orderlies and attendants	8.37	5.6	8.37	5.6	—	—
3	8.50	5.6	8.50	5.6	—	—
Cleaning and building service	8.91	8.6	7.89	10.1	11.95	4.1
1	7.25	9.7	7.25	9.7	—	—
2	10.73	17.6	—	—	—	—
Janitors and cleaners	9.01	9.3	7.90	11.4	11.95	4.1
1	7.23	10.1	7.23	10.1	—	—
2	10.73	17.6	—	—	—	—

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, Youngstown-Warren, OH, October 1999 — 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	\$9.32	13.1	\$7.91	9.2	—	—

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. IN THIS SURVEY, THE NONRESPONSE RATE FOR ALL INDUSTRIES AND PRIVATE INDUSTRY EXCEEDED REGULAR SURVEY STANDARDS FOR PUBLICATION. ACCORDINGLY, USERS SHOULD INTERPRET THESE RESULTS WITH THIS LIMITATION IN MIND.

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, Youngstown-Warren, OH, October 1999

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	\$16.53	2.2	\$15.94	2.6	\$19.34	3.7
All excluding sales	16.81	2.0	16.25	2.4	19.36	3.7
White collar	18.68	4.0	17.12	5.5	22.08	4.9
1	6.90	2.4	—	—	—	—
2	8.63	11.1	7.42	10.3	—	—
3	10.00	6.3	9.00	7.5	12.38	4.7
4	10.64	4.0	9.81	3.8	13.63	6.7
5	14.16	6.5	13.16	3.9	17.41	16.4
6	16.58	11.5	15.41	8.7	19.93	26.9
7	18.42	5.9	18.07	7.7	19.09	9.7
8	24.56	4.8	21.49	4.4	—	—
9	25.44	3.2	23.32	3.5	27.46	3.6
11	30.17	5.7	31.28	6.1	—	—
White collar excluding sales	19.88	3.8	18.63	5.5	22.15	5.0
2	10.26	8.4	9.08	10.6	—	—
3	10.14	6.2	9.38	8.3	11.76	5.6
4	10.88	4.1	9.99	3.9	13.63	6.7
5	14.13	7.1	12.99	4.0	17.41	16.4
6	17.02	11.9	15.84	9.0	19.93	26.9
7	18.40	6.0	18.02	8.1	19.09	9.7
8	25.03	5.1	21.40	5.4	—	—
9	25.45	3.2	23.32	3.5	27.46	3.6
11	30.17	5.7	31.28	6.1	—	—
Professional specialty and technical	23.09	3.6	20.09	5.1	27.40	4.4
Professional specialty	24.57	3.7	21.28	5.5	27.75	4.4
6	19.70	25.7	—	—	—	—
7	19.92	10.3	—	—	19.69	14.9
8	25.24	6.2	19.27	4.6	—	—
9	26.03	4.0	22.72	4.2	28.61	3.5
11	29.01	5.9	—	—	—	—
Engineers, architects, and surveyors	28.87	5.6	28.87	5.6	—	—
9	24.62	5.1	24.62	5.1	—	—
Mathematical and computer scientists	—	—	—	—	—	—
Natural scientists	—	—	—	—	—	—
Health related	20.24	3.8	19.90	3.8	—	—
9	20.95	4.4	—	—	—	—
Registered nurses	20.86	3.8	20.48	3.9	—	—
Teachers, college and university	—	—	—	—	—	—
Teachers, except college and university	26.94	5.1	16.90	28.6	28.56	3.2
7	22.93	7.8	—	—	—	—
8	28.55	1.6	—	—	—	—
9	29.70	3.1	—	—	29.70	3.1
Elementary school teachers	27.41	6.4	—	—	28.13	6.4
Secondary school teachers	28.44	4.8	—	—	29.05	5.0
Teachers, n.e.c.	28.08	2.2	—	—	—	—
Librarians, archivists, and curators	—	—	—	—	—	—
Social scientists and urban planners	—	—	—	—	—	—
Social, recreation, and religious workers	13.04	14.6	—	—	—	—
Lawyers and judges	—	—	—	—	—	—
Writers, authors, entertainers, athletes, and professionals, n.e.c.	—	—	—	—	—	—
Technical	17.73	8.5	17.84	8.8	—	—
7	17.53	9.9	17.53	9.9	—	—
Licensed practical nurses	13.46	2.2	13.46	2.2	—	—
Executive, administrative, and managerial	28.64	8.8	29.71	11.5	25.54	6.6
9	24.31	4.9	23.72	5.9	25.03	7.3
Executives, administrators, and managers	32.04	8.5	35.85	11.3	25.20	6.9
9	25.16	4.9	25.33	5.9	25.03	7.3
12	41.40	5.8	41.40	5.8	—	—
Managers and administrators, n.e.c.	37.49	13.1	38.15	13.9	—	—
9	26.27	7.2	27.62	6.8	—	—
Management related	21.38	15.9	20.92	16.4	—	—

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, Youngstown-Warren, OH, October 1999 —**
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						
Sales	\$10.37	12.2	\$10.17	12.6	—	—
Administrative support, including clerical	11.41	3.3	10.82	4.3	\$12.60	4.6
2	10.26	8.4	9.08	10.6	—	—
3	10.14	6.2	9.38	8.3	11.76	5.6
4	10.64	3.7	9.98	4.0	13.09	7.3
5	14.02	6.0	13.80	7.8	14.34	9.0
6	14.38	10.1	—	—	—	—
7	16.02	5.6	—	—	—	—
Secretaries	11.75	6.8	9.19	8.6	12.83	5.8
4	11.52	11.8	8.58	5.0	—	—
Bookkeepers, accounting and auditing clerks	11.43	5.3	10.82	4.2	—	—
Traffic, shipping and receiving clerks	10.42	9.6	10.42	9.6	—	—
General office clerks	11.43	6.3	10.70	10.5	12.39	3.9
Administrative support, n.e.c.	9.15	5.4	8.89	5.5	—	—
Blue collar	16.39	2.4	16.45	2.5	14.86	3.3
1	9.33	11.7	9.14	12.4	—	—
2	9.07	7.4	9.07	7.4	—	—
4	16.35	5.0	16.40	5.1	—	—
5	14.21	2.1	14.17	2.4	14.58	1.8
6	16.05	4.2	16.06	4.4	—	—
7	20.93	3.4	21.11	3.5	—	—
8	21.77	7.3	21.77	7.3	—	—
Precision production, craft, and repair	19.27	3.5	19.50	3.5	14.78	2.1
5	14.24	4.2	14.23	5.5	—	—
6	14.65	6.3	14.54	6.9	—	—
7	21.27	3.2	21.40	3.2	—	—
8	21.77	7.3	21.77	7.3	—	—
Industrial machinery repairers	20.92	8.7	20.92	8.7	—	—
7	23.02	5.3	23.02	5.3	—	—
Mechanics and repairers, n.e.c.	17.11	5.1	17.40	5.6	—	—
Electricians	23.19	3.8	23.19	3.8	—	—
7	23.19	3.8	23.19	3.8	—	—
Supervisors, production	21.62	9.5	21.62	9.5	—	—
8	23.27	8.6	23.27	8.6	—	—
Machinists	16.24	3.6	16.24	3.6	—	—
7	16.23	8.6	16.23	8.6	—	—
Machine operators, assemblers, and inspectors	16.79	3.1	16.79	3.1	—	—
1	7.54	6.4	7.54	6.4	—	—
2	8.61	4.2	8.61	4.2	—	—
5	13.64	4.1	13.64	4.1	—	—
6	15.80	6.5	15.80	6.5	—	—
Punching and stamping press operators	16.82	10.3	16.82	10.3	—	—
Fabricating machine operators, n.e.c.	16.08	19.8	16.08	19.8	—	—
Miscellaneous machine operators, n.e.c.	16.99	9.3	16.99	9.3	—	—
3	13.98	13.6	13.98	13.6	—	—
Welders and cutters	15.25	8.7	15.25	8.7	—	—
Production inspectors, checkers and examiners ..	13.38	10.2	13.38	10.2	—	—
4	12.54	11.0	12.54	11.0	—	—
Transportation and material moving	16.00	3.9	15.99	4.3	16.09	6.8
4	15.02	6.1	—	—	—	—
5	14.58	1.7	—	—	—	—
Handlers, equipment cleaners, helpers, and laborers	11.14	8.6	11.01	9.2	13.40	5.7
1	8.52	7.8	8.18	7.3	—	—
2	8.72	10.4	8.72	10.4	—	—
3	16.37	11.9	16.62	11.8	—	—
4	11.09	7.9	11.00	8.1	—	—

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, Youngstown-Warren, OH, October 1999 — 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						
Handlers, equipment cleaners, helpers, and laborers —Continued						
Production helpers	\$10.71	5.6	\$10.71	5.6	—	—
Stock handlers and baggers	12.12	28.7	12.12	28.7	—	—
Machine feeders and offbearers	9.45	5.5	9.45	5.5	—	—
Hand packers and packagers	9.34	13.8	9.34	13.8	—	—
Laborers, except construction, n.e.c.	10.70	15.1	10.58	15.9	—	—
1	8.54	9.3	8.19	8.7	—	—
2	9.56	20.0	9.56	20.0	—	—
Service	10.99	4.9	8.92	5.0	\$14.59	4.7
1	7.88	9.6	7.88	9.6	—	—
2	10.07	14.1	9.79	21.2	—	—
3	8.91	4.3	8.56	4.7	—	—
4	12.12	7.5	9.39	4.7	14.15	8.6
7	15.99	4.4	—	—	15.71	4.6
Protective service	15.48	5.8	—	—	15.77	5.1
7	16.09	4.7	—	—	15.71	4.6
Food service	8.90	10.2	8.57	12.4	—	—
Other food service	8.90	10.2	8.57	12.4	—	—
Health service	8.78	5.6	8.63	5.8	—	—
3	8.54	5.5	8.54	5.5	—	—
Nursing aides, orderlies and attendants	8.42	5.7	8.42	5.7	—	—
3	8.55	5.7	8.55	5.7	—	—
Cleaning and building service	9.94	7.9	8.79	11.8	11.95	4.1
1	7.86	9.6	7.86	9.6	—	—
2	11.88	18.7	—	—	—	—
Janitors and cleaners	10.24	8.2	9.02	14.0	11.95	4.1
1	7.86	10.4	7.86	10.4	—	—
2	11.88	18.7	—	—	—	—
Personal service	10.66	13.9	—	—	—	—

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. IN THIS SURVEY, THE NONRESPONSE RATE FOR ALL INDUSTRIES AND PRIVATE INDUSTRY EXCEEDED REGULAR SURVEY STANDARDS FOR PUBLICATION. ACCORDINGLY, USERS SHOULD INTERPRET THESE RESULTS WITH THIS LIMITATION IN MIND.

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, Youngstown-Warren, OH, October 1999

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	\$8.30	6.9	\$8.08	7.8	\$10.09	8.0
All excluding sales	8.51	7.5	8.30	8.6	10.07	8.2
White collar	11.04	8.6	11.12	9.2	10.28	15.9
1	5.95	2.8	5.95	2.8	—	—
2	7.14	12.2	—	—	—	—
3	8.43	7.3	8.44	9.4	—	—
7	17.71	14.7	—	—	—	—
White collar excluding sales	13.30	7.2	13.78	7.3	10.22	17.0
3	9.02	10.6	—	—	—	—
7	17.71	14.7	—	—	—	—
Professional specialty and technical	15.90	6.5	16.08	6.9	—	—
Professional specialty	18.63	7.1	19.46	7.3	—	—
Health related	19.45	7.4	19.45	7.4	—	—
Registered nurses	20.54	7.0	20.54	7.0	—	—
Teachers, except college and university	—	—	—	—	—	—
Social, recreation, and religious workers	—	—	—	—	—	—
Technical	13.09	3.7	13.09	3.7	—	—
Executive, administrative, and managerial	—	—	—	—	—	—
Executives, administrators, and managers	—	—	—	—	—	—
Management related	—	—	—	—	—	—
Sales	6.75	5.3	6.67	5.2	—	—
1	5.92	1.9	5.92	1.9	—	—
Cashiers	7.09	6.9	6.98	6.8	—	—
Administrative support, including clerical	8.62	8.8	8.69	11.3	—	—
3	9.02	10.6	—	—	—	—
Blue collar	9.00	13.8	8.45	17.5	12.10	7.6
1	6.80	10.0	6.79	10.1	—	—
Precision production, craft, and repair	—	—	—	—	—	—
Machine operators, assemblers, and inspectors	8.86	16.2	—	—	—	—
Transportation and material moving	13.08	14.9	—	—	—	—
Handlers, equipment cleaners, helpers, and laborers	6.47	6.2	6.18	4.6	—	—
1	6.22	5.0	6.21	5.0	—	—
Service	5.73	5.8	5.45	6.2	8.43	10.4
1	5.76	7.7	5.69	8.4	—	—
2	4.51	18.3	4.51	18.3	—	—
3	6.21	27.1	5.93	28.7	—	—
Protective service	8.98	25.4	—	—	—	—
Food service	4.69	6.1	4.48	6.5	—	—
1	5.15	7.8	4.90	7.2	—	—
2	3.98	23.7	3.98	23.7	—	—
Waiters, waitresses, and bartenders	2.65	12.4	2.65	12.4	—	—
Waiters and waitresses	2.51	12.8	2.51	12.8	—	—
Other food service	6.42	3.9	6.25	3.9	—	—
1	6.19	4.0	5.98	3.5	—	—
Food preparation, n.e.c.	6.17	4.2	5.98	3.5	—	—
1	6.05	3.5	5.98	3.5	—	—
Health service	—	—	—	—	—	—
Cleaning and building service	6.63	11.4	6.63	11.4	—	—
Janitors and cleaners	6.63	11.4	6.63	11.4	—	—

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, Youngstown-Warren, OH, October 1999 — 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	\$6.57	12.8	\$5.52	3.0	—	—

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 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. IN THIS SURVEY, THE NONRESPONSE RATE FOR ALL INDUSTRIES AND PRIVATE INDUSTRY EXCEEDED REGULAR SURVEY STANDARDS FOR PUBLICATION. ACCORDINGLY, USERS SHOULD INTERPRET THESE RESULTS WITH THIS LIMITATION IN MIND.

Table 5-1. **Selected worker characteristics: Mean hourly earnings¹ by occupational group,² National Compensation Survey, Youngstown-Warren, OH, October 1999**

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	\$16.53	\$8.30	\$18.05	\$13.22	\$15.55	\$16.58
All excluding sales	16.81	8.51	18.09	13.64	15.93	16.47
White collar	18.68	11.04	21.49	16.52	17.78	19.47
White-collar excluding sales	19.88	13.30	21.85	18.23	19.29	—
Professional specialty and technical	23.09	15.90	25.83	19.45	22.27	—
Professional specialty	24.57	18.63	27.06	21.03	24.11	—
Technical	17.73	13.09	17.62	16.39	16.67	—
Executive, administrative, and managerial	28.64	—	—	28.60	29.00	—
Sales	10.37	6.75	—	9.29	8.67	—
Administrative support, including clerical	11.41	8.62	12.43	10.76	11.20	—
Blue collar	16.39	9.00	18.23	11.25	16.00	16.47
Precision production, craft, and repair	19.27	—	19.94	17.12	19.41	—
Machine operators, assemblers, and inspectors	16.79	8.86	—	9.44	16.59	18.05
Transportation and material moving	16.00	13.08	17.19	—	15.23	—
Handlers, equipment cleaners, helpers, and laborers	11.14	6.47	14.15	7.27	10.36	13.67
Service	10.99	5.73	12.29	7.30	9.38	—
	Relative error ⁶ (percent)					
All occupations	2.2	6.9	2.1	4.4	2.4	3.0
All excluding sales	2.0	7.5	2.1	4.3	2.2	2.6
White collar	4.0	8.6	4.4	5.3	4.0	15.4
White-collar excluding sales	3.8	7.2	4.4	5.0	3.7	—
Professional specialty and technical	3.6	6.5	3.4	5.3	3.4	—
Professional specialty	3.7	7.1	3.3	5.6	3.5	—
Technical	8.5	3.7	13.6	8.8	7.6	—
Executive, administrative, and managerial	8.8	—	—	8.7	9.3	—
Sales	12.2	5.3	—	10.8	6.9	—
Administrative support, including clerical	3.3	8.8	5.0	4.0	3.2	—
Blue collar	2.4	13.8	2.1	7.2	2.8	3.2
Precision production, craft, and repair	3.5	—	3.1	10.3	3.8	—
Machine operators, assemblers, and inspectors	3.1	16.2	—	4.1	3.2	3.2
Transportation and material moving	3.9	14.9	2.9	—	6.1	—
Handlers, equipment cleaners, helpers, and laborers	8.6	6.2	7.4	4.6	9.3	2.8
Service	4.9	5.8	6.5	6.0	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 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. IN THIS SURVEY, THE NONRESPONSE RATE FOR ALL INDUSTRIES AND PRIVATE INDUSTRY EXCEEDED REGULAR SURVEY STANDARDS FOR PUBLICATION. ACCORDINGLY, USERS SHOULD INTERPRET THESE RESULTS WITH THIS LIMITATION IN MIND.

Table 5-2. Major industry division: Mean hourly earnings¹ by occupational group,² private industry, National Compensation Survey, Youngstown-Warren, OH, October 1999

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	\$15.01	\$18.13	-	-	\$18.06	-	-	-	-	-
All excluding sales	15.39	18.22	-	-	18.16	-	-	-	-	-
White collar	16.26	23.35	-	-	23.82	-	-	-	-	-
White-collar excluding sales	18.08	25.11	-	-	25.81	-	-	-	-	-
Professional specialty and technical	19.41	24.91	-	-	24.98	-	-	-	-	-
Professional specialty	21.04	26.16	-	-	26.29	-	-	-	-	-
Technical	16.71	20.44	-	-	20.44	-	-	-	-	-
Executive, administrative, and managerial	29.64	34.63	-	-	37.62	-	-	-	-	-
Sales	9.26	14.38	-	-	14.12	-	-	-	-	-
Administrative support, including clerical	10.61	12.72	-	-	12.96	-	-	-	-	-
Blue collar	16.12	17.22	-	-	17.10	-	-	-	-	-
Precision production, craft, and repair	19.48	19.88	-	-	19.80	-	-	-	-	-
Machine operators, assemblers, and inspectors	16.65	17.24	-	-	17.24	-	-	-	-	-
Transportation and material moving	15.81	16.59	-	-	16.59	-	-	-	-	-
Handlers, equipment cleaners, helpers, and laborers	10.43	12.40	-	-	12.40	-	-	-	-	-
Service	7.58	15.49	-	-	15.49	-	-	-	-	-
	Relative error ⁵ (percent)									
All occupations	2.7	2.5	-	-	2.6	-	-	-	-	-
All excluding sales	2.5	2.5	-	-	2.6	-	-	-	-	-
White collar	5.3	7.7	-	-	8.1	-	-	-	-	-
White-collar excluding sales	5.0	7.8	-	-	8.1	-	-	-	-	-
Professional specialty and technical	4.6	7.3	-	-	7.4	-	-	-	-	-
Professional specialty	5.0	7.5	-	-	7.7	-	-	-	-	-
Technical	7.9	21.2	-	-	21.2	-	-	-	-	-
Executive, administrative, and managerial	11.4	12.7	-	-	11.4	-	-	-	-	-
Sales	10.4	20.3	-	-	21.4	-	-	-	-	-
Administrative support, including clerical	4.1	6.8	-	-	6.8	-	-	-	-	-
Blue collar	2.6	2.2	-	-	2.3	-	-	-	-	-
Precision production, craft, and repair	3.5	3.9	-	-	4.4	-	-	-	-	-
Machine operators, assemblers, and inspectors	3.1	2.8	-	-	2.8	-	-	-	-	-
Transportation and material moving	4.1	4.8	-	-	4.8	-	-	-	-	-
Handlers, equipment cleaners, helpers, and laborers	9.1	8.8	-	-	8.8	-	-	-	-	-
Service	5.6	16.2	-	-	16.2	-	-	-	-	-

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. IN THIS SURVEY, THE NONRESPONSE RATE FOR ALL INDUSTRIES AND PRIVATE INDUSTRY EXCEEDED REGULAR SURVEY STANDARDS FOR PUBLICATION. ACCORDINGLY, USERS SHOULD INTERPRET THESE RESULTS WITH THIS LIMITATION IN MIND.

Table 5-3. Establishment employment size: Mean hourly earnings¹ by occupational group,² private industry, National Compensation Survey, Youngstown-Warren, OH, October 1999

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	\$15.01	\$11.42	\$16.17	\$11.69	\$20.07
All excluding sales	15.39	11.79	16.50	11.90	20.07
White collar	16.26	13.90	16.92	12.97	21.73
White-collar excluding sales	18.08	17.12	18.29	14.27	21.75
Professional specialty and technical	19.41	19.13	19.44	17.33	20.72
Professional specialty	21.04	19.68	21.19	16.70	23.40
Technical	16.71	18.57	16.38	18.13	14.90
Executive, administrative, and managerial	29.64	23.07	32.63	28.69	33.89
Sales	9.26	7.67	10.16	9.93	—
Administrative support, including clerical	10.61	10.83	10.55	9.75	12.22
Blue collar	16.12	13.13	16.89	11.83	—
Precision production, craft, and repair	19.48	16.26	20.54	16.18	—
Machine operators, assemblers, and inspectors	16.65	10.27	—	10.98	—
Transportation and material moving	15.81	—	16.24	14.54	—
Handlers, equipment cleaners, helpers, and laborers	10.43	7.85	11.07	8.80	15.17
Service	7.58	5.91	9.11	7.50	11.96
	Relative error ⁴ (percent)				
All occupations	2.7	9.3	3.0	5.3	2.4
All excluding sales	2.5	9.3	2.8	5.0	2.4
White collar	5.3	13.7	5.7	6.5	6.9
White-collar excluding sales	5.0	8.7	5.8	6.6	7.0
Professional specialty and technical	4.6	18.7	4.6	8.0	5.2
Professional specialty	5.0	19.2	5.3	10.8	4.7
Technical	7.9	25.1	7.8	9.5	10.8
Executive, administrative, and managerial	11.4	6.6	14.8	7.0	19.1
Sales	10.4	10.1	13.9	14.2	—
Administrative support, including clerical	4.1	9.5	5.0	6.5	5.8
Blue collar	2.6	9.2	2.5	6.8	—
Precision production, craft, and repair	3.5	11.9	3.2	5.6	—
Machine operators, assemblers, and inspectors	3.1	6.9	—	5.2	—
Transportation and material moving	4.1	—	6.4	10.0	—
Handlers, equipment cleaners, helpers, and laborers	9.1	5.6	10.2	9.6	10.4
Service	5.6	7.5	6.4	2.9	7.3

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. IN THIS SURVEY, THE NONRESPONSE RATE FOR ALL INDUSTRIES AND PRIVATE INDUSTRY EXCEEDED REGULAR SURVEY STANDARDS FOR PUBLICATION. ACCORDINGLY, USERS SHOULD INTERPRET THESE RESULTS WITH THIS LIMITATION IN MIND.

Table 6-1. Hourly wage percentiles for establishment jobs¹, all workers:² Selected occupations, all industries, National Compensation Survey, Youngstown-Warren, OH, October 1999

Occupation ³	10	25	Median 50	75	90
All	\$6.60	\$9.45	\$14.41	\$21.24	\$25.58
All excluding sales	7.00	9.90	14.97	21.24	25.63
White collar	7.17	10.16	14.42	24.59	30.72
White collar excluding sales	8.92	11.56	17.25	25.94	31.25
Professional specialty and technical	12.38	14.47	21.51	28.18	31.92
Professional specialty	13.03	19.70	25.32	29.53	32.16
Engineers, architects, and surveyors	20.64	24.94	27.61	33.06	34.23
Mathematical and computer scientists	-	-	-	-	-
Natural scientists	-	-	-	-	-
Health related	16.07	17.25	20.14	21.51	25.56
Registered nurses	17.25	19.16	20.14	22.31	25.56
Teachers, college and university	-	-	-	-	-
Teachers, except college and university	19.63	25.32	28.18	29.81	31.63
Elementary school teachers	20.21	21.79	29.53	29.81	33.18
Secondary school teachers	21.78	25.04	29.72	31.63	32.27
Teachers, n.e.c.	25.32	28.18	28.18	28.18	30.98
Librarians, archivists, and curators	-	-	-	-	-
Social scientists and urban planners	-	-	-	-	-
Social, recreation, and religious workers	9.13	9.45	12.30	15.51	15.51
Social workers	9.13	11.08	14.50	15.51	28.41
Lawyers and judges	-	-	-	-	-
Writers, authors, entertainers, athletes, and professionals, n.e.c.	-	-	-	-	-
Technical	12.05	12.93	14.08	17.51	22.63
Licensed practical nurses	12.38	12.96	13.73	14.34	14.47
Executive, administrative, and managerial	16.58	19.03	25.19	31.88	40.96
Executives, administrators, and managers	19.03	22.79	25.96	37.13	51.49
Managers and administrators, n.e.c.	19.91	24.59	31.25	40.96	52.11
Management related	11.70	11.70	18.07	25.87	33.88
Sales	5.78	6.11	7.21	9.94	18.51
Sales workers, other commodities	5.78	5.78	5.78	7.73	8.41
Cashiers	5.79	6.06	7.00	8.00	9.45
Administrative support, including clerical	7.43	8.81	10.57	13.29	15.58
Secretaries	8.46	10.10	10.78	14.15	14.96
Receptionists	6.89	7.64	9.05	10.10	10.50
Records clerks, n.e.c.	8.81	8.81	9.79	10.16	12.94
Bookkeepers, accounting and auditing clerks	9.50	9.75	10.57	13.94	14.21
Traffic, shipping and receiving clerks	6.85	10.35	10.40	11.24	14.48
General office clerks	8.08	8.92	10.94	12.79	15.20
Teachers' aides	7.26	7.65	7.65	10.91	12.51
Administrative support, n.e.c.	7.42	7.43	10.25	11.80	12.50
Blue collar	7.72	11.04	16.06	21.24	22.37
Precision production, craft, and repair	13.31	15.56	18.48	23.62	25.67
Industrial machinery repairers	13.43	17.81	21.90	25.60	25.65
Mechanics and repairers, n.e.c.	15.33	15.38	16.06	17.44	22.02
Electricians	16.80	23.62	23.62	25.58	25.63
Supervisors, production	9.12	18.09	23.08	27.56	28.28
Machinists	14.04	15.95	16.00	17.53	18.01
Machine operators, assemblers, and inspectors	8.84	11.60	18.40	21.24	21.56
Punching and stamping press operators	11.60	11.60	19.55	19.55	22.37
Fabricating machine operators, n.e.c.	8.90	10.03	21.43	21.43	21.43
Miscellaneous machine operators, n.e.c.	8.84	10.07	18.80	21.56	21.56
Welders and cutters	10.55	11.69	12.50	21.81	21.81
Production inspectors, checkers and examiners ..	9.60	9.60	14.66	16.21	18.89
Transportation and material moving	10.70	14.38	15.46	17.46	21.83
Bus drivers	7.21	7.21	10.04	10.81	12.50
Handlers, equipment cleaners, helpers, and laborers	5.49	7.00	9.15	13.77	17.42
Production helpers	5.91	9.08	9.65	10.93	12.59
Stock handlers and baggers	5.64	6.99	7.10	17.42	21.37
Machine feeders and offbearers	8.49	8.49	9.05	11.04	11.04

See footnotes at end of table.

Table 6-1. Hourly wage percentiles for establishment jobs¹, all workers:² Selected occupations, all industries, National Compensation Survey, Youngstown-Warren, OH, October 1999 — Continued

Occupation ³	10	25	Median 50	75	90
Blue collar —Continued					
Handlers, equipment cleaners, helpers, and laborers —Continued					
Hand packers and packagers	\$5.48	\$6.13	\$7.74	\$7.89	\$13.88
Laborers, except construction, n.e.c.	5.15	7.00	8.05	13.83	21.49
Service	5.43	6.25	8.01	11.80	16.11
Protective service	10.87	12.35	15.94	17.45	20.36
Police and detectives, public service	15.94	15.94	17.45	18.02	18.02
Food service	2.13	2.22	5.85	7.06	10.19
Waiters, waitresses, and bartenders	2.13	2.13	2.13	2.22	5.15
Waiters and waitresses	2.13	2.13	2.13	2.22	5.15
Other food service	5.59	5.85	6.63	8.10	10.19
Cooks	6.60	6.63	7.75	10.19	10.19
Food preparation, n.e.c.	5.59	5.60	5.96	6.50	7.06
Health service	6.58	7.39	8.12	9.51	12.07
Health aides, except nursing	8.39	11.55	11.55	12.40	13.30
Nursing aides, orderlies and attendants	6.58	7.20	8.01	9.27	12.07
Cleaning and building service	5.47	6.00	7.38	11.69	13.74
Janitors and cleaners	5.47	5.92	7.17	11.69	13.74
Personal service	5.35	7.32	9.04	10.19	17.45

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. IN THIS SURVEY, THE NONRESPONSE RATE FOR ALL INDUSTRIES AND PRIVATE INDUSTRY EXCEEDED REGULAR SURVEY STANDARDS FOR PUBLICATION. ACCORDINGLY, USERS SHOULD INTERPRET THESE RESULTS WITH THIS LIMITATION IN MIND.

Table 6-2. Hourly wage percentiles for establishment jobs¹, all workers:² Selected occupations, private industry, National Compensation Survey, Youngstown-Warren, OH, October 1999

Occupation ³	Private industry				
	10	25	Median 50	75	90
All	\$6.25	\$8.49	\$14.04	\$21.08	\$23.62
All excluding sales	6.50	9.15	14.42	21.24	23.62
White collar	6.71	8.92	12.93	20.51	27.78
White collar excluding sales	8.46	11.00	14.26	22.13	31.25
Professional specialty and technical	11.73	13.12	18.59	22.63	30.72
Professional specialty	11.73	17.25	20.21	25.56	30.72
Engineers, architects, and surveyors	20.64	24.94	27.61	33.06	34.23
Mathematical and computer scientists	—	—	—	—	—
Natural scientists	—	—	—	—	—
Health related	16.07	17.25	20.07	20.51	25.56
Registered nurses	17.25	18.59	20.14	21.74	25.56
Teachers, except college and university	11.25	11.25	11.75	21.97	25.04
Social, recreation, and religious workers	—	—	—	—	—
Writers, authors, entertainers, athletes, and professionals, n.e.c.	—	—	—	—	—
Technical	12.05	12.93	14.08	19.38	22.63
Licensed practical nurses	12.38	12.96	13.73	14.34	14.47
Executive, administrative, and managerial	11.70	19.03	24.74	37.13	46.89
Executives, administrators, and managers	19.91	24.59	29.51	39.44	52.11
Managers and administrators, n.e.c.	19.91	24.59	31.25	40.96	52.11
Management related	11.70	11.70	18.07	25.19	33.88
Sales	5.78	6.11	7.00	9.45	18.51
Sales workers, other commodities	5.78	5.78	5.78	7.73	8.41
Cashiers	5.79	6.06	7.00	7.21	8.39
Administrative support, including clerical	6.89	8.37	10.16	12.21	14.21
Secretaries	7.57	7.89	8.49	9.12	13.39
Receptionists	6.89	7.64	9.05	10.10	10.50
Records clerks, n.e.c.	8.81	8.81	9.70	10.16	10.16
Bookkeepers, accounting and auditing clerks	9.50	9.75	10.57	11.00	14.09
Traffic, shipping and receiving clerks	6.85	10.35	10.40	11.24	14.48
General office clerks	8.08	8.20	9.31	12.21	17.37
Administrative support, n.e.c.	7.42	7.43	9.56	11.80	12.50
Blue collar	7.21	10.97	16.70	21.24	22.50
Precision production, craft, and repair	13.00	16.00	18.69	24.33	25.67
Industrial machinery repairers	13.43	17.81	21.90	25.60	25.65
Mechanics and repairers, n.e.c.	15.33	15.56	17.43	17.44	22.02
Electricians	16.80	23.62	23.62	25.58	25.63
Supervisors, production	9.12	18.09	23.08	27.56	28.28
Machinists	14.04	15.95	16.00	17.53	18.01
Machine operators, assemblers, and inspectors	8.84	11.60	18.40	21.24	21.56
Punching and stamping press operators	11.60	11.60	19.55	19.55	22.37
Fabricating machine operators, n.e.c.	8.90	10.03	21.43	21.43	21.43
Miscellaneous machine operators, n.e.c.	8.84	10.07	18.80	21.56	21.56
Welders and cutters	10.55	11.69	12.50	21.81	21.81
Production inspectors, checkers and examiners ..	9.60	9.60	14.66	16.21	18.89
Transportation and material moving	10.70	14.38	15.46	19.50	21.83
Handlers, equipment cleaners, helpers, and laborers	5.49	7.00	8.56	12.86	20.40
Production helpers	5.91	9.08	9.65	10.93	12.59
Stock handlers and baggers	5.64	6.99	7.10	17.42	21.37
Machine feeders and offbearers	8.49	8.49	9.05	11.04	11.04
Hand packers and packagers	5.48	6.13	7.74	7.89	13.88
Laborers, except construction, n.e.c.	5.15	6.26	8.05	13.41	21.49
Service	5.15	5.81	7.19	8.55	11.69
Protective service	—	—	—	—	—
Food service	2.13	2.22	5.60	6.63	9.91
Waiters, waitresses, and bartenders	2.13	2.13	2.13	2.22	5.15
Waiters and waitresses	2.13	2.13	2.13	2.22	5.15

See footnotes at end of table.

Table 6-2. Hourly wage percentiles for establishment jobs¹, all workers:² Selected occupations, private industry, National Compensation Survey, Youngstown-Warren, OH, October 1999 — Continued

Occupation ³	Private industry				
	10	25	Median 50	75	90
Service –Continued					
Food service –Continued					
Other food service	\$5.59	\$5.60	\$6.60	\$7.75	\$10.19
Cooks	6.60	6.63	7.75	10.19	10.19
Food preparation, n.e.c.	5.59	5.60	5.85	6.50	7.06
Health service	6.58	7.39	8.12	9.51	12.07
Nursing aides, orderlies and attendants	6.58	7.20	8.01	9.27	12.07
Cleaning and building service	5.47	5.92	6.45	7.85	11.69
Janitors and cleaners	5.47	5.92	6.44	7.38	11.69
Personal service	5.24	5.62	7.51	9.08	10.19

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. IN THIS SURVEY, THE NONRESPONSE RATE FOR ALL INDUSTRIES AND PRIVATE INDUSTRY EXCEEDED REGULAR SURVEY STANDARDS FOR PUBLICATION. ACCORDINGLY, USERS SHOULD INTERPRET THESE RESULTS WITH THIS LIMITATION IN MIND.

Table 6-3. Hourly wage percentiles for establishment jobs¹, all workers:² Selected occupations, State and local government, National Compensation Survey, Youngstown-Warren, OH, October 1999

Occupation ³	State and local government				
	10	25	Median 50	75	90
All	\$10.41	\$12.50	\$15.87	\$25.96	\$30.00
All excluding sales	10.41	12.50	15.87	26.81	30.01
White collar	10.41	13.39	22.79	29.25	31.31
White collar excluding sales	10.41	13.39	22.79	29.25	31.31
Professional specialty and technical	15.87	25.32	28.18	30.01	32.27
Professional specialty	19.63	25.32	28.18	30.72	32.27
Mathematical and computer scientists	-	-	-	-	-
Health related	-	-	-	-	-
Teachers, college and university	-	-	-	-	-
Teachers, except college and university	25.32	28.18	28.18	30.00	32.27
Elementary school teachers	20.75	28.83	29.53	29.81	33.18
Secondary school teachers	21.78	29.72	29.72	31.63	32.27
Librarians, archivists, and curators	-	-	-	-	-
Social scientists and urban planners	-	-	-	-	-
Social, recreation, and religious workers	9.13	11.08	14.50	15.51	28.41
Social workers	9.13	11.08	14.50	15.51	28.41
Lawyers and judges	-	-	-	-	-
Technical	-	-	-	-	-
Executive, administrative, and managerial	17.25	19.32	25.96	30.64	31.88
Executives, administrators, and managers	17.25	19.32	25.96	28.50	30.64
Management related	-	-	-	-	-
Sales	-	-	-	-	-
Administrative support, including clerical	7.84	10.41	12.50	14.15	17.26
Secretaries	10.41	10.78	11.56	14.79	17.32
General office clerks	9.75	10.94	12.50	13.39	13.39
Blue collar	10.80	13.31	14.53	15.34	15.75
Precision production, craft, and repair	13.31	14.21	15.30	15.38	15.75
Machine operators, assemblers, and inspectors	-	-	-	-	-
Transportation and material moving	10.81	12.84	15.19	15.34	16.53
Bus drivers	8.97	10.81	10.81	12.50	12.84
Handlers, equipment cleaners, helpers, and laborers	10.78	10.80	13.95	13.98	14.99
Service	9.61	11.38	13.70	16.24	18.02
Protective service	11.01	13.60	15.94	17.45	18.02
Police and detectives, public service	15.94	15.94	17.45	18.02	18.02
Food service	7.15	7.35	7.35	11.55	14.74
Other food service	7.15	7.35	7.35	11.55	14.74
Health service	-	-	-	-	-
Cleaning and building service	9.49	11.38	11.80	13.74	13.74
Janitors and cleaners	9.49	11.38	11.80	13.74	13.74
Personal service	-	-	-	-	-

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. IN THIS SURVEY, THE NONRESPONSE RATE FOR ALL INDUSTRIES AND PRIVATE INDUSTRY EXCEEDED REGULAR SURVEY STANDARDS FOR PUBLICATION. ACCORDINGLY, USERS SHOULD INTERPRET THESE RESULTS WITH THIS LIMITATION IN MIND.

Table 6-4. Hourly wage percentiles for establishment jobs¹, full-time workers:² Selected occupations, all industries, National Compensation Survey, Youngstown-Warren, OH, October 1999

Occupation ³	10	25	Median 50	75	90
All	\$7.39	\$10.34	\$15.46	\$21.24	\$25.66
All excluding sales	7.82	10.83	15.61	21.24	25.67
White collar	7.63	10.75	16.55	25.49	31.00
White collar excluding sales	9.50	11.70	17.44	26.73	31.63
Professional specialty and technical	12.71	17.08	22.63	29.25	32.27
Professional specialty	12.71	20.14	25.56	29.53	32.27
Engineers, architects, and surveyors	20.64	24.94	27.61	33.06	34.23
Mathematical and computer scientists	—	—	—	—	—
Natural scientists	—	—	—	—	—
Health related	17.25	17.48	20.14	21.74	24.25
Registered nurses	17.25	19.70	20.14	22.31	25.56
Teachers, college and university	—	—	—	—	—
Teachers, except college and university	20.21	25.32	28.18	29.81	31.63
Elementary school teachers	20.21	21.79	29.53	29.81	33.18
Secondary school teachers	21.78	25.04	29.72	31.63	32.27
Teachers, n.e.c.	25.32	28.18	28.18	28.18	30.98
Librarians, archivists, and curators	—	—	—	—	—
Social scientists and urban planners	—	—	—	—	—
Social, recreation, and religious workers	9.13	9.45	11.08	14.50	28.41
Lawyers and judges	—	—	—	—	—
Writers, authors, entertainers, athletes, and professionals, n.e.c.	—	—	—	—	—
Technical	12.50	12.96	14.16	20.93	23.11
Licensed practical nurses	12.38	12.96	13.40	14.16	14.34
Executive, administrative, and managerial	16.58	19.03	25.19	31.88	40.96
Executives, administrators, and managers	19.03	22.79	25.96	37.13	51.49
Managers and administrators, n.e.c.	19.91	24.59	31.25	40.96	52.11
Management related	11.70	11.70	18.07	25.87	33.88
Sales	5.78	7.00	7.63	12.19	19.34
Administrative support, including clerical	7.57	9.31	10.75	13.39	16.25
Secretaries	8.46	10.10	10.78	14.15	14.96
Bookkeepers, accounting and auditing clerks	9.50	9.75	10.57	13.94	14.21
Traffic, shipping and receiving clerks	6.85	10.35	10.40	11.24	14.48
General office clerks	8.08	8.92	10.94	12.79	17.26
Administrative support, n.e.c.	7.42	7.43	9.56	10.25	11.47
Blue collar	7.91	11.78	16.70	21.24	22.50
Precision production, craft, and repair	13.31	15.56	18.48	23.62	25.67
Industrial machinery repairers	13.43	17.81	21.90	25.65	25.65
Mechanics and repairers, n.e.c.	15.33	15.38	16.06	17.44	22.02
Electricians	16.80	23.62	23.62	25.58	25.63
Supervisors, production	9.12	18.09	23.08	27.56	28.28
Machinists	14.04	15.95	16.00	17.53	18.01
Machine operators, assemblers, and inspectors	9.05	11.60	18.80	21.24	21.56
Punching and stamping press operators	11.60	11.60	19.55	19.55	22.37
Fabricating machine operators, n.e.c.	8.90	10.03	21.43	21.43	21.43
Miscellaneous machine operators, n.e.c.	10.07	10.07	18.80	21.56	21.56
Welders and cutters	10.55	11.69	12.50	21.81	21.81
Production inspectors, checkers and examiners ..	9.60	9.60	14.66	16.21	18.89
Transportation and material moving	12.15	14.53	15.46	19.50	21.83
Handlers, equipment cleaners, helpers, and laborers	6.26	7.10	9.90	13.94	20.40
Production helpers	9.08	9.23	9.65	11.12	12.59
Stock handlers and baggers	6.99	7.00	7.10	21.37	21.37
Machine feeders and offbearers	8.49	8.49	9.05	11.04	11.04
Hand packers and packagers	5.48	6.50	7.89	10.37	13.88
Laborers, except construction, n.e.c.	5.44	7.00	8.32	13.83	21.49
Service	6.45	7.39	10.19	13.60	17.45
Protective service	11.01	13.60	15.94	17.45	20.36
Food service	5.59	6.69	8.10	10.19	14.64
Other food service	5.59	6.69	8.10	10.19	14.64

See footnotes at end of table.

Table 6-4. Hourly wage percentiles for establishment jobs¹, full-time workers:² Selected occupations, all industries, National Compensation Survey, Youngstown-Warren, OH, October 1999 — Continued

Occupation ³	10	25	Median 50	75	90
Service —Continued					
Health service	\$6.58	\$7.39	\$8.12	\$9.51	\$12.07
Nursing aides, orderlies and attendants	6.58	7.20	8.12	9.27	12.07
Cleaning and building service	6.25	7.17	9.49	11.80	13.74
Janitors and cleaners	6.25	6.64	10.33	11.80	13.74
Personal service	7.32	9.04	9.08	10.19	17.45

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. IN THIS SURVEY, THE NONRESPONSE RATE FOR ALL INDUSTRIES AND PRIVATE INDUSTRY EXCEEDED REGULAR SURVEY STANDARDS FOR PUBLICATION. ACCORDINGLY, USERS SHOULD INTERPRET THESE RESULTS WITH THIS LIMITATION IN MIND.

Table 6-5. Hourly wage percentiles for establishment jobs¹, part-time workers:² Selected occupations, all industries, National Compensation Survey, Youngstown-Warren, OH, October 1999

Occupation ³	10	25	Median 50	75	90
All	\$5.15	\$5.55	\$6.46	\$11.55	\$16.00
All excluding sales	2.22	5.49	6.60	11.69	16.01
White collar	5.73	6.36	9.45	14.26	19.16
White collar excluding sales	7.04	8.81	12.82	16.07	20.14
Professional specialty and technical	11.68	12.82	14.47	18.54	20.14
Professional specialty	14.09	16.07	18.54	20.14	22.34
Health related	16.07	16.07	19.16	20.14	29.39
Registered nurses	14.09	18.54	20.14	20.14	29.39
Teachers, except college and university	—	—	—	—	—
Social, recreation, and religious workers	—	—	—	—	—
Technical	11.68	12.05	12.90	14.26	14.47
Executive, administrative, and managerial	—	—	—	—	—
Executives, administrators, and managers	—	—	—	—	—
Management related	—	—	—	—	—
Sales	5.45	5.79	6.13	8.00	8.39
Cashiers	5.56	5.79	6.06	8.39	9.45
Administrative support, including clerical	5.50	6.90	8.00	10.91	12.50
Blue collar	5.28	5.64	6.67	11.70	16.01
Precision production, craft, and repair	—	—	—	—	—
Machine operators, assemblers, and inspectors	5.16	5.55	8.15	11.70	11.70
Transportation and material moving	5.84	10.81	16.01	16.01	16.01
Handlers, equipment cleaners, helpers, and laborers	5.15	5.49	5.81	6.37	8.00
Service	2.13	5.15	5.62	6.60	8.01
Protective service	5.15	5.15	8.00	10.87	16.68
Food service	2.13	2.21	5.43	6.50	7.15
Waiters, waitresses, and bartenders	2.13	2.13	2.13	2.22	5.15
Waiters and waitresses	2.13	2.13	2.13	2.22	5.15
Other food service	5.60	5.60	6.50	6.63	7.35
Food preparation, n.e.c.	5.60	5.60	5.96	6.50	6.50
Health service	—	—	—	—	—
Cleaning and building service	5.47	5.47	5.92	6.25	11.69
Janitors and cleaners	5.47	5.47	5.92	6.25	11.69
Personal service	5.15	5.24	5.62	9.00	9.61

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. IN THIS SURVEY, THE NONRESPONSE RATE FOR ALL INDUSTRIES AND PRIVATE INDUSTRY EXCEEDED REGULAR SURVEY STANDARDS FOR PUBLICATION. ACCORDINGLY, USERS SHOULD INTERPRET THESE RESULTS WITH THIS LIMITATION IN MIND.

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 Youngstown–Warren, OH, Metropolitan Statistical Area includes Columbiana, Mahoning and Trumbull 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. See appendix table 2 for a count of establishments in the survey by employment size. The second stage of sample selection, detailed below, was a probability sample of occupations within a sampled establishment.

Data collection

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 where a correct classification or level could not be determined.

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

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

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

<i>Number of employees</i>	<i>Number of selected jobs</i>
50–99	8
100–249	10
250–999	12
1000–2,499	16
2,500+	20

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

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

Generic leveling through point factor analysis

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

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. Appendix table 3 presents median work levels for published occupational groups and selected occupations. A description of the levels for each factor is shown in appendix C.

Tabulations of levels of work for occupations in the survey follow the Federal Government's white-collar General Schedule. Point ranges for each of the 15 levels are shown in appendix D. It also includes an example of a 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 new generic leveling method were evaluated by BLS researchers using regression techniques. For each of the major occupational groups, wages were compared to the 10 generic level factors (and levels within those factors). The analysis showed that several of the generic level factors, most notably knowledge and supervision received, had strong explanatory power for wages. That is, as the levels within a given factor increased, the wages also increased. For additional information on generic leveling see Brooks Pierce, "Using the National Compensation Survey to Predict Wage Rates," *Compensation and Working Conditions*, Winter 1999, pp. 8–16.

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 generic 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.

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

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

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

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

Processing and analyzing the data

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

Weighting and nonresponse

Sample weights were calculated for each establishment 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 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 the nonrespondents equals the mean value of the respondents at some detailed "cell" level. Responding and nonresponding establishments were classified into these cells according to industry and employment size. Responding 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 sam-

ple establishment or occupation, or data were missing, the response was treated as a refusal.

Survey response

	<i>Establish- ments</i>
Total in sample	204
Responding	115
Out of business or not in survey scope	9
Unable or refused to pro- vide data	80

Some surveys may have a high nonresponse rate for the all industries or private industry iterations. Such instances are noted in the bulletin table footnotes.

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.

The percentiles presented in tables 6-1 through 6-5 are computed using average hourly wages for sampled establishment jobs within each occupation. 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 occupation'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 previous NCS bulletins for this area were calculated from individual-worker earnings rather than from average wages for sampled establishment jobs. Data users should keep this difference in mind.

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.

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 this estimate is \$13.55 to \$12.03 (1.645 times 3.6 percent = 5.922 percent times \$12.27, plus or minus \$0.76). 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, Youngstown-Warren, OH, October 1999**

Occupational group	Full-time and part-time workers		
	Total	Private industry	State and local government
All occupations	116,500	94,400	22,200
All excluding sales	110,100	88,100	22,000
White collar	42,000	28,200	13,800
White-collar excluding sales	35,500	21,900	13,700
Professional specialty and technical	18,200	10,100	8,100
Professional specialty	14,200	6,200	8,000
Technical	4,000	3,800	–
Executive, administrative, and managerial	5,100	3,700	1,400
Sales	6,400	6,300	–
Administrative support, including clerical	12,300	8,100	4,200
Blue collar	52,600	49,900	2,600
Precision production, craft, and repair	14,300	13,400	–
Machine operators, assemblers, and inspectors	20,500	20,500	–
Transportation and material moving	6,900	5,800	1,100
Handlers, equipment cleaners, helpers, and laborers	10,900	10,200	700
Service	22,000	16,300	5,700

¹ The number of workers represented by the survey are rounded to the nearest 100. Estimates of the number of workers 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. IN THIS SURVEY, THE NONRESPONSE RATE FOR ALL INDUSTRIES AND PRIVATE INDUSTRY EXCEEDED REGULAR SURVEY STANDARDS FOR PUBLICATION. ACCORDINGLY, USERS SHOULD INTERPRET THESE RESULTS WITH THIS LIMITATION IN MIND.

Appendix table 2. **Number of establishments represented by survey and the number studied by industry division and establishment employment size, Youngstown-Warren, OH, October 1999**

Industry	Number of establishments represented ¹	Number of establishments studied				
		Total studied	50 - 99 workers ²	100 workers or more		
				Total	100 - 499 workers	500 workers or more
All industries	700	115	35	80	56	24
Private industry	700	94	33	61	42	19
Goods-producing industries	200	50	12	38	26	12
Construction	(³)	2	1	1	1	-
Manufacturing	200	48	11	37	25	12
Service-producing industries	500	44	21	23	16	7
Transportation and public utilities	100	3	2	1	1	-
Wholesale and retail trade	200	14	10	4	4	-
Finance, insurance and real estate	(³)	4	1	3	3	-
Services	200	23	8	15	8	7
State and local government	100	21	2	19	14	5

¹ Number of establishments represented by the survey rounded to the nearest 100.

² Establishments classified with 50-99 workers may contain establishments with fewer than 50 due to staff reductions between survey sampling and collection.

³ Number of establishments represented by the survey is fewer than 50.

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

Appendix table 3. **Median work levels for all workers, full-time and part-time workers:¹ Selected occupations, all industries, National Compensation Survey, Youngstown-Warren, OH, October 1999**

Occupation ²	All workers	Full-time workers	Part-time workers
All	4	4	2
All excluding sales	4	4	2
White collar	6	7	3
White collar excluding sales	7	7	5
Professional specialty and technical	8	8	6
Professional specialty	8	8	7
Engineers, architects, and surveyors	9	9	—
Mathematical and computer scientists	—	—	—
Natural scientists	—	—	—
Health related	8	9	8
Registered nurses	9	9	8
Teachers, college and university	—	—	—
Teachers, except college and university	8	8	—
Elementary school teachers	9	9	—
Secondary school teachers	9	9	—
Teachers, n.e.c.	8	8	—
Librarians, archivists, and curators	—	—	—
Social scientists and urban planners	—	—	—
Social, recreation, and religious workers	7	7	—
Social workers	7	—	—
Lawyers and judges	—	—	—
Writers, authors, entertainers, athletes, and professionals, n.e.c.	—	—	—
Technical	6	7	5
Licensed practical nurses	6	6	—
Executive, administrative, and managerial	9	9	—
Executives, administrators, and managers	9	9	—
Managers and administrators, n.e.c.	9	9	—
Management related	8	8	—
Sales	2	3	2
Sales workers, other commodities	2	—	—
Cashiers	1	—	1
Administrative support, including clerical	4	4	3
Secretaries	4	4	—
Receptionists	2	—	—
Records clerks, n.e.c.	4	—	—
Bookkeepers, accounting and auditing clerks	4	4	—
Traffic, shipping and receiving clerks	3	3	—
General office clerks	3	3	—
Teachers' aides	2	—	—
Administrative support, n.e.c.	3	3	—
Blue collar	4	4	1
Precision production, craft, and repair	7	7	—
Industrial machinery repairers	7	7	—
Mechanics and repairers, n.e.c.	7	7	—
Electricians	7	7	—
Supervisors, production	8	8	—
Machinists	5	5	—
Machine operators, assemblers, and inspectors	3	3	1
Punching and stamping press operators	4	4	—
Fabricating machine operators, n.e.c.	3	3	—
Miscellaneous machine operators, n.e.c.	3	3	—
Welders and cutters	5	5	—
Production inspectors, checkers and examiners	4	4	—
Transportation and material moving	4	4	4
Bus drivers	4	—	—
Handlers, equipment cleaners, helpers, and laborers	2	2	1
Production helpers	4	4	—
Stock handlers and baggers	1	2	—

See footnotes at end of table.

Appendix table 3. **Median work levels for all workers, full-time and part-time workers:¹ Selected occupations, all industries, National Compensation Survey, Youngstown-Warren, OH, October 1999** — Continued

Occupation ²	All workers	Full-time workers	Part-time workers
Blue collar —Continued			
Handlers, equipment cleaners, helpers, and laborers			
—Continued			
Machine feeders and offbearers	4	4	—
Hand packers and packagers	2	2	—
Laborers, except construction, n.e.c.	1	1	—
Service	2	3	1
Protective service	7	7	5
Police and detectives, public service	7	—	—
Food service	1	2	1
Waiters, waitresses, and bartenders	1	—	1
Waiters and waitresses	1	—	1
Other food service	1	2	1
Cooks	2	—	—
Food preparation, n.e.c.	1	—	1
Health service	3	3	—
Health aides, except nursing	3	—	—
Nursing aides, orderlies and attendants	3	3	—
Cleaning and building service	1	2	1
Janitors and cleaners	1	2	1
Personal service	3	4	3

¹ 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.

² A classification system including about 480 individual occupations is used to cover all workers in the civilian economy. The occupations titled authors,

musicians, actors, painters, photographers, dancers, artists, athletes, and legislators cannot be assigned a work level. 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.