Grand Rapids–Muskegon–Holland, MI National Compensation Survey April 2002



U.S. Department of Labor Elaine L. Chao, Secretary

Bureau of Labor Statistics Kathleen P. Utgoff, Commissioner

December 2002

Bulletin 3115-23

Preface

Data shown in this bulletin were collected as part of the Bureau of Labor Statistics (BLS) National Compensation Survey (NCS). The survey could not have been conducted without the cooperation of the many private firms and government jurisdictions that provided pay data included in this bulletin. The Bureau thanks these respondents for their cooperation.

Field economists of the Bureau of Labor Statistics collected and reviewed the survey data. The Office of Compensation and Working Conditions, in cooperation with the Office of Field Operations and the Office of Technology and Survey Processing in the BLS National Office, designed the survey, processed the data, and prepared the survey for publication.

For additional information regarding this survey, please contact any BLS regional office at the address and telephone number listed on the back cover of this bulletin. You may also write to the Bureau of Labor Statistics at: Division of Compensation Data Analysis and Planning,

2 Massachusetts Avenue, NE, Room 4175, Washington, DC 20212–0001, or call (202) 691–6199, or send e-mail to **ocltinfo@bls.gov**.

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

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

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

ntroduction
ables:
1–1. Summary: Mean hourly earnings and weekly hours by selected worker and establishment
characteristics, private industry, and State and local government
2–1. Mean hourly earnings: Selected occupations, all workers, private industry,
and State and local government
2–2. Mean hourly earnings: Selected occupations, full-time workers, private industry,
and State and local government
2–3. Mean hourly earnings: Selected occupations, part-time workers, private industry,
and State and local government.
3–1. Mean weekly earnings and hours: Selected occupations, full-time workers, private industry, and State and local government
3–2. Mean annual earnings and hours: Selected occupations, full-time workers, private industry,
and State and local government
4–1. Selected occupations and levels, all workers: Mean hourly earnings, private industry,
and State and local government
4–2. Selected occupations and levels, full-time workers: Mean hourly earnings, private industry,
and State and local government
4–3. Selected occupations and levels, part-time workers: Mean hourly earnings, private industry,
and State and local government
5–1. Selected worker characteristics: Mean hourly earnings by occupational group
5–2. Major industry division: Mean hourly earnings by occupational group, private industry
5–3. Establishment employment size: Mean hourly earnings by occupational group, private industry
6–1. Hourly wage percentiles for establishment jobs, all workers:
Selected occupations, all industries
6–2. Hourly wage percentiles for establishment jobs, all workers:
Selected occupations, private industry
6–3. Hourly wage percentiles for establishment jobs, all workers:
Selected occupations, State and local government
6–4. Hourly wage percentiles for establishment jobs, full-time workers:
Selected occupations, all industries
6–5. Hourly wage percentiles for establishment jobs, part-time workers:
Selected occupations, all industries
ppendixes:
A. Technical Note
Appendix table 1. Number of workers represented by the survey, by occupational group
B. Occupational Classifications
C. Occupational Leveling Criteria
D. Evaluating Your Firm's Jobs

Introduction

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

NCS products

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

About the tables

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

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

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

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

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

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

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

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

Table 1-1. Summary: Mean hourly earnings1 and weekly hours by selected characteristics, private industry and State and local government, National Compensation Survey, Grand Rapids-Muskegon-Holland, MI, April 2002

		Total		Priv	ate industry	,	State and	l local gover	nment
Worker and establishment characteristics	Hourly e	arnings	Mean	Hourly e	arnings	Mean	Hourly e	arnings	Mean
worker and establishment characteristics	Mean	Relative error ² (percent)	weekly hours ³	Mean	Relative error ² (percent)	weekly hours ³	Mean	Relative error ² (percent)	weekly hours ³
Total	\$16.77	2.6	36.3	\$15.76	3.1	36.7	\$23.69	3.3	34.1
Worker characteristics: ⁴									
White-collar occupations ⁵ Professional specialty and technical Executive, administrative, and managerial Sales Administrative support Blue-collar occupations ⁵ Precision production, craft, and repair Machine operators, assemblers, and inspectors Transportation and material moving Handlers, equipment cleaners, helpers, and laborers Service occupations ⁵ Full time Part time Union Nonunion	21.48 26.43 29.52 19.81 13.17 15.15 18.99 13.94 14.40 12.12 10.78 17.62 10.46	3.4 3.4 5.4 16.2 2.4 3.4 3.3 4.7 4.5 4.6 8.1 2.6 9.5	35.7 33.6 40.3 35.5 36.7 38.4 39.9 39.5 38.5 32.4 31.9 39.6 22.6 36.7 36.2	19.68 23.16 27.76 19.81 12.79 15.10 19.01 13.94 14.33 12.09 8.98 16.54 10.30 16.44 15.59	4.4 3.9 6.9 16.2 2.9 3.5 3.5 4.7 4.8 4.7 11.4 3.1 10.6 5.6 3.5	36.1 34.1 40.4 35.5 37.2 38.5 39.9 39.5 38.9 32.5 31.5 39.9 23.3 37.5 36.5	27.86 33.68 35.58 - 14.59 16.83 18.66 - 15.51 12.77 16.82 24.73 12.08 23.95 22.88	3.6 4.8 6.7 - 2.8 3.4 2.3 - 5.6 16.3 4.1 3.3 10.1 4.0 6.8	34.1 32.4 39.8 - 35.0 36.3 39.9 - 33.1 31.5 33.4 37.6 16.8
TimeIncentive	16.53 27.27	2.6 26.4	36.3 38.1	15.46 27.27	3.1 26.4	36.6 38.1	23.69	3.3	34.1
Establishment characteristics:									
Goods producing Service producing	(⁶)	(⁶)	(⁶)	_	_	- -	(⁶)	(⁶)	(⁶)
50-99 workers ⁷ 100-499 workers 500 workers or more	12.36 16.47 18.82	11.4 3.7 4.1	33.5 37.4 36.2	12.34 16.00 17.07	11.5 4.1 5.1	33.6 37.7 36.7	– 22.43 24.25	- 6.2 4.0	- 33.5 34.6

¹ Earnings are the straight-time hourly wages or salaries paid to employees. They include incentive pay, cost-of-living adjustments, and hazard pay. Excluded are premium pay for overtime, vacations, 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.

The relative standard error (RSE) is the standard error expressed as a percent of

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

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

the estimate. It can be used to calculate a "confidence interval" around a sample estimate. For more information about RSEs, see appendix A. $^{\rm 3}$ Mean weekly hours are the hours an employee is scheduled to work in a week,

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

 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.

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

Table 2-1. Mean hourly earnings,¹ all workers:² Selected occupations, private industry and State and local government, National Compensation Survey, Grand Rapids-Muskegon-Holland, MI, April 2002

	To	otal	Private	industry		and local rnment
Occupation ³	Mean	Relative error ⁴ (percent)	Mean	Relative error ⁴ (percent)	Mean	Relative error ⁴ (percent
All	\$16.77	2.6	\$15.76	3.1	\$23.69	3.3
All excluding sales	16.60	2.6	15.50	3.2	23.69	3.3
White collar	21.48	3.4	19.68	4.4	27.86	3.6
White collar excluding sales	21.77	3.3	19.64	4.4	27.86	3.6
Professional specialty and technical	26.43	3.4	23.16	3.9	33.68	4.8
Professional specialty	28.76	4.2	24.91	5.3	34.85	4.7
Engineers, architects, and surveyors	29.23	4.6	29.29	4.6	_	_
Mathematical and computer scientists	30.13	12.4	_	_	_	_
Health related	25.36	4.8	25.55	5.6	24.59	6.4
Registered nurses	23.83	4.1	24.17	4.8	22.59	1.7
Teachers, college and university	40.80	7.4	_	_	40.80	7.4
Teachers, except college and university	32.15	9.1	_	_	39.72	3.5
Prekindergarten and kindergarten	16.04	25.9	_	-	_	_
Elementary school teachers	35.79	7.6	_	-	41.29	3.0
Secondary school teachers	35.83	6.9	_	_	39.11	5.9
Teachers, special education	43.95	3.8	_	-	43.95	3.8
Teachers, n.e.c.	35.48	8.7	_	- 1	35.48	8.7
Librarians, archivists, and curators	_	_	_	_	_	_
Social scientists and urban planners	_	_	_	-	-	
Social, recreation, and religious workers	19.89	9.5	_	-	19.89	9.5
Social workers	21.67	6.5	_	_	21.67	6.5
professionals, n.e.c Technical	_ 19.71	6.6	- 19.75	7.1	_ 19.26	5.9
Technical	19.71	0.0	19.75	/.1	19.20	3.9
Executive, administrative, and managerial	29.52	5.4	27.76	6.9	35.58	6.7
Executives, administrators, and managers	32.31	6.8	29.98	8.6	39.60	5.8
Administrators, education and related fields	45.02	2.4	_	_	45.02	2.4
Managers and administrators, n.e.c	29.23	9.7	27.04	10.0	_	_
Management related	23.15	8.0	23.06	9.7	23.54	6.9
Sales	19.81	16.2	19.81	16.2	_	_
Cashiers	10.34	4.2	10.34	4.2	_	_
Administrative support, including clerical	13.17	2.4	12.79	2.9	14.59	2.8
Secretaries	14.41	4.8	14.49	6.5	14.24	5.4
Bookkeepers, accounting and auditing clerks	13.13	4.7	12.74	5.0	_	_
General office clerks	12.03	5.4	10.62	5.6	13.77	5.5
Teachers' aides	13.12	6.3	_	_	13.12	6.3
Administrative support, n.e.c.	13.53	10.4	13.07	13.4	-	_
Blue collar	15.15	3.4	15.10	3.5	16.83	3.4
Precision production, craft, and repair	18.99	3.3	19.01	3.5	18.66	2.3
Industrial machinery repairers	20.08	4.9	20.08	5.1	_	-
Supervisors, production	22.58	4.9	22.58	4.9	_	_
Tool and die makers	24.45	6.0	24.45	6.0	-	_
Machine operators, assemblers, and inspectors	13.94	4.7	13.94	4.7	_	_
Fabricating machine operators, n.e.c	17.37	12.7	17.37	12.7	_	_
Molding and casting machine operators	11.06	10.7	11.06	10.7	_	_
Painting and paint spraying machine operators	14.74	8.0	14.74	8.0	_	_
Miscellaneous machine operators, n.e.c	13.30	7.3	13.30	7.3	_	_
Assemblers	13.00	5.1	13.00	5.1	_	_
Miscellaneous hand working, n.e.c.	16.01	14.2	16.01	14.2	-	_
Production inspectors, checkers and examiners	16.19	11.1	16.19	11.1	-	_
Transportation and material moving	14.40	4.5	14.33	4.8	15.51	5.6
Truck drivers	14.08	6.8	14.03	7.0	-	
Industrial truck and tractor equipment operators	14.56	6.8	14.56	6.8	_	_
Handlers againment classes believe and let a con-	10.10	4.0	40.00	, ,	10.77	400
Handlers, equipment cleaners, helpers, and laborers	12.12	4.6 7.6	12.09	4.7	12.77	16.3
Stock handlers and baggers Machine feeders and offbearers	10.95 15.03	10.0	10.76 15.03	7.9 10.0	_	_
Machine recuers and Unbearers	10.00	10.0	13.03	10.0	_	_

Table 2-1. Mean hourly earnings, all workers: Selected occupations, private industry and State and local government, National Compensation Survey, Grand Rapids-Muskegon-Holland, MI, April 2002 — Continued

	To	otal	Private	industry	State and local government	
Occupation ³	Mean	Relative error ⁴ (percent)	Mean	Relative error ⁴ (percent)	Mean	Relative error ⁴ (percent)
Service	\$10.78	8.1	\$8.98	11.4	\$16.82	4.1
Protective service	19.83	3.5	_	_	19.83	3.5
Police and detectives, public service	21.63	4.2	_	_	21.63	4.2
Food service	6.12	10.7	5.88	11.0	11.74	6.7
Waiters, waitresses, and bartenders	3.50	8.5	3.50	8.5	_	_
Waiters and waitresses	3.22	8.8	3.22	8.8	_	_
Other food service	8.63	6.0	8.35	6.2	11.74	6.7
Cooks	9.23	8.1	8.65	7.9	_	_
Kitchen workers, food preparation	8.75	7.1	8.75	7.1	_	_
Food preparation, n.e.c.	7.65	6.5	7.26	6.3	10.74	3.8
Health service	10.37	3.8	9.82	4.5	_	_
Cleaning and building service	13.71	8.7	13.49	10.4	14.92	8.4
Janitors and cleaners	13.75	4.9	13.78	6.5	13.66	2.6
Personal service	9.27	8.1	_	_	11.00	6.7
Early childhood teachers' assistants	8.92	8.1	_	_	_	_

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.

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.

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.

Table 2-2. Mean hourly earnings,¹ full-time workers:² Selected occupations, private industry and State and local government, National Compensation Survey, Grand Rapids-Muskegon-Holland, MI, April 2002

	To	otal	Private	industry		and local rnment
Occupation ³	Mean	Relative error ⁴ (percent)	Mean	Relative error ⁴ (percent)	Mean	Relative error ⁴ (percent
II	\$17.62	2.6	\$16.54	3.1	\$24.73	3.3
All excluding sales	17.39	2.7	16.21	3.3	24.73	3.3
White collar	22.70	3.4	20.75	4.7	28.68	3.4
White collar excluding sales	22.84	3.3	20.47	4.8	28.68	3.4
Professional specialty and technical	27.27	3.6	23.37	4.8	34.68	4.1
Professional specialty	29.71	4.4	25.00	6.5	35.84	4.2
Engineers, architects, and surveyors	29.23	4.6	29.29	4.6	_	_
Mathematical and computer scientists	_	_	_	_	_	_
Health related	25.85	8.4	26.23	11.0	24.96	7.1
Registered nurses	23.99	4.4	_	_	_	_
Teachers, college and university	40.80	7.4	_	_	40.80	7.4
Teachers, except college and university	33.38	7.9	_	_	40.35	3.0
Elementary school teachers	35.79	7.6	_	_	41.29	3.0
Secondary school teachers	35.93	7.1	_	_	39.34	6.0
Teachers, special education	43.95	3.8	_	_	43.95	3.8
Librarians, archivists, and curators	_	_	_	_	_	_
Social scientists and urban planners	_	_	_	_	_	_
Social, recreation, and religious workers	21.67	6.5	_		21.67	6.5
Social workers	21.67	6.5	_		21.67	6.5
Writers, authors, entertainers, athletes, and	2	0.0			2	0.0
professionals, n.e.c Technical	20.50	6.3	20.57	6.9	_ 19.80	5.2
For each and administrative and are accorded	00.50	- A	07.70	0.0	05.50	0.7
Executive, administrative, and managerial	29.52	5.4	27.76	6.9	35.58	6.7
Executives, administrators, and managers	32.31	6.8	29.98	8.6	39.60	5.8
Administrators, education and related fields	45.02	2.4	_		45.02	2.4
Managers and administrators, n.e.c	29.23	9.7	27.04	10.0	_	_
Management related	23.15	8.0	23.06	9.7	23.54	6.9
Sales	21.92	16.5	21.92	16.5	-	-
Cashiers	10.97	3.2	10.97	3.2	-	-
Administrative support, including clerical	13.80	2.3	13.38	3.0	15.07	2.2
Secretaries	15.01	4.5	15.16	6.6	14.73	3.4
Bookkeepers, accounting and auditing clerks	13.55	7.6	_	_	_	_
General office clerks	13.07	7.4	_	_	14.18	4.9
Teachers' aides	13.53	6.3	_	_	13.53	6.3
Administrative support, n.e.c	13.81	11.0	-	-	-	_
Blue collar	15.56	3.4	15.50	3.5	17.53	3.0
Precision production, craft, and repair	19.02	3.3	19.04	3.5	18.66	2.3
Industrial machinery repairers	20.08	4.9	20.08	5.1	-	-
Supervisors, production	22.58	4.9	22.58	4.9	_	_
Tool and die makers	24.45	6.0	24.45	6.0	-	_
Machine operators, assemblers, and inspectors	14.18	4.8	14.18	4.8	_	_
Fabricating machine operators, n.e.c.	17.37	12.7	17.37	12.7	_	_
Molding and casting machine operators	11.06	10.7	11.06	10.7	_	_
Painting and paint spraying machine operators	14.74	8.0	14.74	8.0	_	_
Miscellaneous machine operators, n.e.c	14.05	6.7	14.05	6.7	_	_
Assemblers	13.41	5.2	13.41	5.2	_	_
Miscellaneous hand working, n.e.c.	16.01	14.2	16.01	14.2	_	_
Production inspectors, checkers and examiners	16.19	11.1	16.19	11.1	-	_
Transportation and material moving	14.44	4.6	14.37	4.9	15.71	6.3
Truck drivers	14.16	7.1	14.09	7.3	-	-
Industrial truck and tractor equipment operators	14.56	6.8	14.56	6.8	_	_
Handlers, equipment cleaners, helpers, and laborers	13.73	4.1	13.66	4.2	_	_
Stock handlers and baggers	13.56	5.3	13.39	5.5	_	_
Service	12.49	7.8	10.55	11.0	17.86	4.2
Protective service	20.40	3.4	-	11.0	20.40	3.4
	_0. 10	J . T		1	20.70	1 0.4

Table 2-2. Mean hourly earnings,1 full-time workers:2 Selected occupations, private industry and State and local government, National Compensation Survey, Grand Rapids-Muskegon-Holland, MI, April 2002 — Continued

2	To	otal	Private	industry		nd local rnment
Occupation ³	Mean	Relative error ⁴ (percent)	Mean	Relative error ⁴ (percent)	Mean	Relative error ⁴ (percent)
Service –Continued Protective service –Continued Police and detectives, public service Food service Waiters, waitresses, and bartenders Other food service Food preparation, n.e.c. Health service Cleaning and building service Janitors and cleaners Personal service	\$22.02 7.33 3.73 8.76 7.59 10.82 14.09 14.37	3.9 9.6 1.7 7.4 7.5 2.8 9.0 3.4	- \$7.14 3.73 8.56 - 13.87 14.47	- 9.4 1.7 7.4 - 10.5 4.4	\$22.02 - - - - - - 15.34 14.09	3.9 - - - - 8.8 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.

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.

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.

Table 2-3. Mean hourly earnings, 1 part-time workers: 2 Selected occupations, private industry and State and local government, National Compensation Survey, Grand Rapids-Muskegon-Holland, MI, April 2002

	To	otal	Private	industry		nd local nment
Occupation ³	Mean	Relative error ⁴ (percent)	Mean	Relative error ⁴ (percent)	Mean	Relative error ⁴ (percent)
All	\$10.46	9.5	\$10.30	10.6	\$12.08	10.1
All excluding sales	10.58	10.1	10.43	11.3	12.08	10.1
White collar	14.83	4.7	14.84	4.9	14.68	15.6
White collar excluding sales	15.90	5.3	16.03	5.8	14.68	15.6
Professional specialty and technical	21.84	8.7	22.28	9.6	18.83	14.8
Professional specialty	23.88	9.0	24.62	9.9	19.43	17.2
Mathematical and computer scientists	-	_	-	_	_	_
Health related	24.70 23.64	2.6 4.0	24.86 23.74	2.9 4.4	_	_
Registered nurses Teachers, except college and university	23.64 14.59	24.2	23.74	4.4	23.14	24.2
Social, recreation, and religious workers	-	24.2	_		23.14	24.2
Technical	14.49	12.3	_	_	_	_
Sales	8.77	2.9	8.77	2.9	_	_
Cashiers	8.47	4.3	8.47	4.3	_	_
Administrative support, including clerical	10.88	6.1	11.05	5.8	8.85	10.0
General office clerks	10.55	1.6	-	_	-	-
Blue collar	8.11	4.6	8.05	4.8	9.47	18.4
Precision production, craft, and repair	-	_	_	_	_	_
Machine operators, assemblers, and inspectors	8.49	1.2	8.49	1.2	-	-
Transportation and material moving	_	_	-	-	-	-
Handlers, equipment cleaners, helpers, and laborers	7.12	3.4	7.13	3.5	-	-
Service	5.58	15.4	4.93	16.1	10.15	4.0
Protective service	10.33	7.5	_	_	10.33	7.5
Food service	4.57	16.9	4.21	16.4	10.80	4.3
Waiters, waitresses, and bartenders	3.38	11.7	3.38	11.7	_	_
Other food service	8.15	7.3	7.41	8.4	10.80	4.3
Food preparation, n.e.c.	7.89	13.8	_	_	10.53	6.2
Health service	-	_	_	_	_	_
Cleaning and building service	- 0.41	- 66	_	_	- 0.92	7.8
Personal service Early childhood teachers' assistants	8.41 8.47	6.6 8.0	_	_	9.82	/.0
Larry Grilluriood teachers assistants	0.41	0.0	_	_	_	_

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.

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.

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.

Table 3-1. Mean weekly earnings,¹ full-time workers:² Selected occupations, private industry and State and local government, National Compensation Survey, Grand Rapids-Muskegon-Holland, MI, April 2002

<u> </u>	Total				ate industry		State and local government			
Occupation ³	Weekly 6	earnings	Mean	Weekly e	arnings	Mean	Weekly e	arnings	Mean	
	Mean	Relative error ⁴ (percent)	weekly hours ⁵	Mean	Relative error ⁴ (percent)	weekly hours ⁵	Mean	Relative error ⁴ (percent)	weekly	
II	\$698	2.6	39.6	\$660	3.1	39.9	\$929	2.9	37.6	
All excluding sales	687	2.7	39.5	646	3.3	39.9	929	2.9	37.6	
White collar	886 884	3.3 3.2	39.0 38.7	829 813	4.7 4.8	40.0 39.7	1,044 1,044	3.0 3.0	36.4 36.4	
Professional specialty and										
technical	1,027	3.3	37.7	919	4.8	39.3	1,209	3.0	34.8	
Professional specialty	1,098	4.1	37.0	977	6.7	39.1	1,237	3.0	34.5	
Engineers, architects, and surveyors	1,183	4.6	40.5	1,185	4.7	40.5	_	_	_	
Mathematical and computer	1,100	1.0	10.0	1,100		10.0				
scientists	_	_	_	_	_	_	_	_	_	
Health related	1,029	8.4	39.8	1,049	11.0	40.0	982	5.8	39.3	
Registered nurses	960	4.4	40.0	_	-	-	_	-	-	
Teachers, college and university Teachers, except college and	1,554	7.6	38.1	-	-	-	1,554	7.6	38.1	
university	1,132	6.6	33.9	_	_	_	1,313	2.5	32.5	
Elementary school teachers	1,190	5.9	33.2	_	_	_	1,321	2.7	32.0	
Secondary school teachers	1,196	5.3	33.3	_	_	_	1,269	4.8	32.3	
Teachers, special education	1,379	2.2	31.4	_	_	_	1,379	2.2	31.4	
Librarians, archivists, and	1,010		•				.,			
curators	_	_	_	_	_	_	_	_	_	
Social scientists and urban										
planners	_	-	-	_	_	-	_	_	-	
Social, recreation, and religious										
workers	861	6.1	39.7	_	_	-	861	6.1	39.7	
Social workers	861	6.1	39.7	_	_	-	861	6.1	39.7	
Writers, authors, entertainers, athletes, and professionals,										
n.e.c	_	_	_	_	_	_	_	_	_	
Technical	814	6.5	39.7	816	7.1	39.7	792	5.2	40.0	
Executive, administrative, and										
managerial	1,189	5.5	40.3	1,123	7.0	40.4	1,414	6.6	39.8	
Executives, administrators, and										
managers Administrators, education and	1,298	6.8	40.2	1,209	8.7	40.3	1,571	5.8	39.7	
related fields	1,760	3.1	39.1	-	_	_	1,760	3.1	39.1	
Managers and administrators,										
n.e.c	1,183	9.9	40.5	1,096	10.2	40.5				
Management related	938	8.2	40.5	938	10.0	40.7	942	6.9	40.0	
Sales	897	16.3	40.9	897	16.3	40.9	_	_	_	
Cashiers	439	3.2	40.0	439	3.2	40.0	-	_	-	
Administrative support, including										
clerical	542	2.4	39.3	533	3.1	39.8	571	2.8	37.9	
Secretaries	592	4.6	39.4	606	6.6	40.0	566	3.9	38.4	
Bookkeepers, accounting and										
auditing clerks	542	7.6	40.0	_	_	_			-	
General office clerks	512	7.5	39.2	_	-	-	567	4.9	40.0	
Teachers' aides	440 549	8.4 11.0	32.5 39.7	_	_	_	440 –	8.4	32.5	
Blue collar	623	3.4	40.0	621	3.5	40.1	688	3.3	39.3	
Precision production, craft, and										
repair	762	3.3	40.1	763	3.5	40.1	744	2.7	39.9	
Industrial machinery repairers	803	4.9	40.1	803	5.1	40.0	-			
Supervisors, production	923	5.0	40.9	923	5.0	40.9	_	_	_	
Tool and die makers	978	6.0	40.0	978	6.0	40.0	_	_	_	

Table 3-1. Mean weekly earnings,1 full-time workers:2 Selected occupations, private industry and State and local government, National Compensation Survey, Grand Rapids-Muskegon-Holland, MI, April 2002 — Continued

		Total		Priv	rate industry	<i>'</i>		te and local	l
Occupation ³	Weekly e	arnings	Maan	Weekly e	arnings	Mean	Weekly e	arnings	Mean
· 	Mean	Relative error ⁴ (percent)	Mean weekly hours ⁵	Mean	Relative error ⁴ (percent)	weekly hours ⁵	Mean	Relative error ⁴ (percent)	weekly hours ⁵
Blue collar -Continued									
Machine operators, assemblers,									
and inspectors	\$567	4.8	40.0	\$567	4.8	40.0	-	_	_
Fabricating machine	COF	10.7	40.0	COF	10.7	40.0			
operators, n.e.c Molding and casting machine	695	12.7	40.0	695	12.7	40.0	_	_	_
operators	442	10.7	40.0	442	10.7	40.0	_	_	_
Painting and paint spraying									
machine operators	590	8.0	40.0	590	8.0	40.0	_	_	-
Miscellaneous machine operators, n.e.c	562	6.7	40.0	562	6.7	40.0			
Assemblers	535	5.3	39.9	535	5.3	39.9	_		_
Miscellaneous hand working,	333	3.3	33.3	333	3.3	33.3	_	_	_
n.e.c	640	14.2	40.0	640	14.2	40.0	_	_	_
Production inspectors,									
checkers and examiners	648	11.1	40.0	648	11.1	40.0	_	_	-
Transportation and material									
moving	579	4.6	40.1	578	4.9	40.2	\$592	7.2	37.7
Truck drivers	575	6.7	40.6	572	6.9	40.6	_	_	-
Industrial truck and tractor									
equipment operators	582	6.8	40.0	582	6.8	40.0	_	_	-
Handlers, equipment cleaners,									
helpers, and laborers	549	4.1	40.0	546	4.2	40.0	_	_	_
Stock handlers and baggers	542	5.3	40.0	536	5.5	40.0	_	_	_
Service	491	8.3	39.3	412	11.7	39.1	715	4.7	40.1
Protective service	841	3.4	41.2	_	_	_	841	3.4	41.2
Police and detectives, public service	881	3.9	40.0				881	3.9	40.0
Food service	278	10.0	38.0	273	10.1	38.2	- 001	J.9 –	
Waiters, waitresses, and			55.5			00.2			
bartenders	137	1.7	36.8	137	1.7	36.8	_	_	-
Other food service	337	6.6	38.5	332	6.7	38.8	_	_	-
Food preparation, n.e.c	294	6.7	38.7	-	_	_	_	-	-
Health service	433	2.9	40.0						
Cleaning and building service	559	9.4	39.7	550	11.1	39.6	614	8.8	40.0
Janitors and cleaners Personal service	572	3.7	39.8	575	4.9	39.8	564	3.0	40.0
r eisolidi service	_	_	_	_	-	_	_	_	-

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

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.

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.

Table 3-2. Mean annual earnings,¹ full-time workers:² Selected occupations, private industry and State and local government, National Compensation Survey, Grand Rapids-Muskegon-Holland, MI, April 2002

		Total		Priv	ate industry	/		te and local overnment	
Occupation ³	Annual e	arnings	Mean	Annual ea	arnings	Mean	Annual ea	arnings	Mean
	Mean	Relative error ⁴ (percent)	annual hours ⁵	Mean	Relative error ⁴ (percent)	annual hours ⁵	Mean	Relative error ⁴ (percent)	annual hours ⁵
All excluding sales	\$35,265 34,706	2.6 2.7	2,001 1,995	\$34,043 33,303	3.1 3.3	2,059 2,055	\$41,857 41,857	2.9 2.9	1,693 1,693
White collar	42,838 42,275	3.3 3.2	1,887 1,851	41,961 40,912	4.7 4.8	2,022 1,998	44,919 44,919	3.0 3.0	1,566 1,566
Professional specialty and	10 500		4.700	44.750	4.0	4.045	40.000		4 440
technical Professional specialty	46,520 47,691	3.3 4.1	1,706 1,605	44,752 45,934	4.8 6.7	1,915 1,838	49,000 49,403	3.0 3.0	1,413 1,378
Engineers, architects, and surveyors	61,505	4.6	2,104	61,622	4.7	2,104	_	_	_
Mathematical and computer scientists	-	_	-	-	_	-	-	-	_
Health relatedRegistered nurses	52,196 49,901	8.4 4.4	2,019 2,080	54,551 -	11.0	2,080	47,106 -	5.8 -	1,887 –
Teachers, college and university Teachers, except college and	58,524	7.6	1,434	-	_	_	58,524	7.6	1,434
university Elementary school teachers	43,062 44,303	6.6 5.9	1,290 1,238	_ _	_	_	49,390 49,493	2.5 2.7	1,224 1,199
Secondary school teachers	43,848	5.3	1,220	_	_	_	46,544	4.8	1,183
Teachers, special education Librarians, archivists, and	51,940	2.2	1,182	-	_	_	51,940	2.2	1,182
curators Social scientists and urban	_	_	-	_	_	_	-	_	-
planners	-	-	-	-	_	-	-	_	_
workers Social workers Writers, authors, entertainers,	43,975 43,975	6.1 6.1	2,029 2,029	- -	_ _	- -	43,975 43,975	6.1 6.1	2,029 2,029
athletes, and professionals,									
n.e.c Technical	42,339	6.5	2,066	- 42,457	7.1	2,064	- 41,185	5.2	2,080
Executive, administrative, and	00.704		0.057	50,000	7.0	0.400	60,000	0.0	4.040
managerial Executives, administrators, and	60,721	5.5	2,057	58,380	7.0	2,103	68,080	6.6	1,913
managersAdministrators, education and	65,823	6.8	2,037	62,893	8.7	2,098	73,994	5.8	1,869
related fields	79,177	3.1	1,759	_	-	_	79,177	3.1	1,759
n.e.c Management related	60,250 48,709	9.9 8.2	2,061 2,104	56,974 48,752	10.2 10.0	2,107 2,114	- 48,525	- 6.9	2,061
Sales	46,654 22,820	16.3 3.2	2,129 2,080	46,654 22,820	16.3 3.2	2,129 2,080	- -	_ _	_ _
Administrative support, including	,		,	,		,			
clerical	27,022 28,246	2.4 4.6	1,958 1,882	27,303 29,539	3.1 6.6	2,041 1,949	26,301 26,095	2.8 3.9	1,746 1,772
Bookkeepers, accounting and auditing clerks	28,183	7.6	2,080	_	_	-	_	_	
General office clerks	26,519	7.5	2,029	_	_	_	29,501	4.9	2,080
Teachers' aidesAdministrative support, n.e.c.	16,341 28,095	8.4 11.0	1,208 2,035	_ _	-	-	16,341 –	8.4 -	1,208 -
Blue collar	32,351	3.4	2,080	32,286	3.5	2,083	34,593	3.3	1,973
Precision production, craft, and					_				
repair Industrial machinery repairers	39,641 41,770	3.3 4.9	2,084 2,080	39,700 41,763	3.5 5.1	2,085 2,080	38,672 –	2.7	2,073
Supervisors, production	48,014	5.0	2,126	48,014	5.0	2,126	-	_	-
Tool and die makers	50,848	6.0	2,080	50,848	6.0	2,080	_	_	_

Table 3-2. Mean annual earnings,1 full-time workers:2 Selected occupations, private industry and State and local government, National Compensation Survey, Grand Rapids-Muskegon-Holland, MI, April 2002 — Continued

		Total		Priv	ate industry	/		te and local	l
Occupation ³	Annual e	arnings	Maan	Annual ea	arnings	Mean	Annual e	arnings	Mean
· 	Mean	Relative error ⁴ (percent)	Mean annual hours ⁵	Mean	Relative error ⁴ (percent)	annual hours ⁵	Mean	Relative error ⁴ (percent)	annual hours ⁵
Blue collar -Continued									
Machine operators, assemblers,									
and inspectorsFabricating machine	\$29,481	4.8	2,079	\$29,474	4.8	2,079	-	-	-
operators, n.e.c	36,133	12.7	2,080	36,133	12.7	2,080	_	_	-
Molding and casting machine operators	23,005	10.7	2,080	23,005	10.7	2,080	_	_	_
Painting and paint spraying machine operators	30,658	8.0	2,080	30,658	8.0	2,080	-	_	_
Miscellaneous machine operators, n.e.c	29,215	6.7	2,080	29,215	6.7	2,080	_	_	_
Assemblers Miscellaneous hand working,	27,802	5.3	2,073	27,802	5.3	2,073	-	_	-
n.e.cProduction inspectors,	33,292	14.2	2,080	33,292	14.2	2,080	_	_	-
checkers and examiners	33,679	11.1	2,080	33,679	11.1	2,080	_	_	_
Transportation and material moving	29.889	4.6	2,070	30.057	4.9	2.092	\$27,374	7.2	1.742
Truck drivers	29,876	6.7	2,110	29,739	6.9	2,110	-	-	-
Industrial truck and tractor equipment operators	30,279	6.8	2,080	30,279	6.8	2,080	_	_	-
Handlers, equipment cleaners,									
helpers, and laborers Stock handlers and baggers	28,552 28,195	4.1 5.3	2,080 2,080	28,409 27,859	4.2 5.5	2,080 2,080	_ _	_ _	-
Service	25,179	8.3	2,016	21,447	11.7	2,032	35,239	4.7	1,974
Protective service Police and detectives, public	41,746	3.4	2,046	_	_	_	41,746	3.4	2,046
service Food service	45,811 14,395	3.9 10.0	2,080 1,964	- 14,175	- 10.1	- 1,985	45,811 –	3.9	2,080
Waiters, waitresses, and bartenders	7,121	1.7	1,911	7,121	1.7	1,911	_	_	_
Other food service	17,390 15.041	6.6 6.7	1,985 1,982	17,268 –	6.7	2,017		_	_
Health service	22,507	2.9	2,080	_	_	_	- 24 040	_	- 2 000
Cleaning and building service Janitors and cleaners	29,081 29,767	9.4 3.7	2,064 2,071	28,580 29,919	11.1 4.9	2,061 2,068	31,916 29,315	8.8 3.0	2,080 2,080
Personal service	_	_	_	_	_	_	_	_	_

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

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.

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 principum full time exhedule. 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.

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, Grand Rapids-Muskegon-Holland, MI, April 2002

	To	otal	Private	industry		nd local rnment
Occupation and level	Mean	Relative error ⁵ (percent)	Mean	Relative error ⁵ (percent)	Mean	Relative error ⁵ (percent
II	\$16.77	2.6	\$15.76	3.1	\$23.69	3.3
All excluding sales	16.60	2.6	15.50	3.2	23.69	3.3
White collar	21.48	3.4	19.68	4.4	27.86	3.6
1	9.75	3.8	9.75	3.9	_	_
2	9.35	5.1	8.84	2.3	11.30	13.0
3	11.26	2.8	10.83	2.6	13.20	5.8
4	13.74	2.9	13.42	3.5	14.76	2.9
5	14.24	5.2	14.01	6.0	15.89	3.3
6	16.56	7.0	15.94	8.1	18.75	6.6
7	22.81	5.9	22.29	8.2	24.28	4.4
8 9	29.40 29.95	6.0 3.5	23.74 27.46	6.4 4.9	37.29 36.89	4.2 5.0
10	28.46	6.2	27.40 -	4.9	30.09	5.0
11	36.95	7.9	35.71	9.2	43.90	3.3
12	43.92	8.7	33.71	9.2	-5.50	J.3
Not able to be leveled	45.92 15.70	10.8	- 15.70	10.8	_	<u>-</u>
White collar excluding sales	21.77	3.3	19.64	4.4	27.86	3.6
1	9.36	1.8	-	-		- 5.0
2	9.71	7.0	8.92	4.0	11.30	13.0
3	11.60	3.1	11.12	2.8	13.20	5.8
4	13.81	3.2	13.49	3.9	14.76	2.9
5	14.23	5.3	13.98	6.1	15.89	3.3
6	15.77	8.0	14.57	9.0	18.75	6.6
7	23.33	5.5	22.96	7.8	24.28	4.4
8	29.40	6.0	23.74	6.4	37.29	4.2
9	29.06	3.4	25.53	2.8	36.89	5.0
10	28.46	6.2	_	_	_	_
11	34.69	4.8	32.54	4.3	43.90	3.3
12	43.92	8.7	_	_	_	-
Not able to be leveled	17.13	15.3	17.13	15.3	_	_
Professional specialty and technical	26.43	3.4	23.16	3.9	33.68	4.8
Professional specialty	28.76	4.2	24.91	5.3	34.85	4.7
5	11.26	14.4	_	_	14.96	6.6
6	14.22	10.4	_	_	20.22	16.8
7	27.50	6.3	29.60	7.2	25.22	5.5
8	32.58	6.6			39.73	3.3
9	30.90	4.4	25.98	3.5	38.60	4.8
Engineers, architects, and surveyors	29.23	4.6	29.29	4.6	_	_
9	26.97	3.7	27.03	3.8	_	_
Mathematical and computer scientists Health related	30.13 25.36	12.4	- 25.55	_ E.G	24.59	6.4
7		4.8 7.4	25.55	5.6		6.4 7.0
9	26.55 25.53	4.8	25.38	4.9	24.36	7.0
Registered nurses	23.83	4.1	24.17	4.8	22.59	1.7
7	25.97	8.1	24.17	-		- 1.7
Teachers, college and university	40.80	7.4	_	_	40.80	7.4
Teachers, except college and university	32.15	9.1	_	_	39.72	3.5
8	34.10	8.7	_	_	41.25	2.3
9	42.81	2.5	_	_	42.81	2.5
Prekindergarten and kindergarten	16.04	25.9	_	_		-
Elementary school teachers	35.79	7.6	_	_	41.29	3.0
8	33.25	10.4	_	_	43.00	1.8
9	41.95	3.6	-	_	41.95	3.6
Secondary school teachers	35.83	6.9	_	_	39.11	5.9
8	35.00	8.7	_	-	40.24	2.1
Teachers, special education	43.95	3.8	_	_	43.95	3.8
Teachers, n.e.c.	35.48	8.7	_	_	35.48	8.7
Librarians, archivists, and curators	-	_	-	-	_	_
Social scientists and urban planners	-	_	-	-	40.00	_
Social, recreation, and religious workers	19.89	9.5	-	-	19.89	9.5
Social workers	21.67	6.5	_	-	21.67	6.5
Writers, authors, entertainers, athletes, and						
professionals, n.e.c.	10.74		10.75	74	10.00	F 0
Technical	19.71	6.6	19.75	7.1	19.26	5.9

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, Grand Rapids-Muskegon-Holland, MI, April 2002 — Continued

	To	otal	Private	industry		nd local rnment
Occupation and level	Mean	Relative error ⁵ (percent)	Mean	Relative error ⁵ (percent)	Mean	Relative error ⁵ (percent
White collar -Continued						
Professional specialty and technical –Continued Technical –Continued						
5	\$14.98	3.9	\$14.86	4.2	-	_
7	20.28	8.1	20.16	9.5	-	_
Executive, administrative, and managerial	29.52	5.4	27.76	6.9	\$35.58	6.7
8	23.61	14.9	-	- 0.9	-	-
9	24.42	6.4	24.05	8.0	_	_
11	33.54	4.9	30.78	3.6	45.09	2.6
12	46.00	9.5			-	-
Executives, administrators, and managers	32.31	6.8	29.98	8.6	39.60	5.8
9 11	24.27	7.6	_	_	4E 00	- 26
11 12	33.59 46.00	5.5 9.5	_		45.09 —	2.6
Administrators, education and related fields	45.02	2.4	_	_	45.02	2.4
11	45.09	2.6	_	_	45.09	2.6
Managers and administrators, n.e.c	29.23	9.7	27.04	10.0	_	-
Management related	23.15	8.0	23.06	9.7	23.54	6.9
9	24.58	10.6	-	-	-	_
Sales	19.81	16.2	19.81	16.2		
3	9.97	5.9	9.97	5.9	_	_
Cashiers	10.34	4.2	10.34	4.2	_	_
Administrative support, including clerical	13.17	2.4	12.79	2.9	14.59	2.8
1	9.36	1.8	_	_	_	-
2	9.71	7.0	8.92	4.0	11.30	13.0
3 4	11.43 13.89	2.7 3.3	10.85 13.50	1.2 4.0	13.20 15.02	5.8 2.4
5	14.08	4.5	13.79	4.9	-	
6	18.68	1.1	_	-	_	_
Secretaries	14.41	4.8	14.49	6.5	14.24	5.4
4	14.45	4.5	14.47	6.5	14.41	3.5
Bookkeepers, accounting and auditing clerks	13.13	4.7	12.74	5.0		
General office clerks	12.03	5.4	10.62	5.6	13.77	5.5
3 4	11.37 14.99	3.9 5.8	_	_	- 15.83	4.5
Teachers' aides	13.12	6.3	_	_	13.03	6.3
3	12.81	9.3	_	_	12.81	9.3
Administrative support, n.e.c.	13.53	10.4	13.07	13.4	-	-
Plus caller	15 15	2.4	45.40	2.5	46.00	2.4
Blue collar	15.15 9.29	3.4	15.10 9.33	3.5 3.9	16.83	3.4
2	11.64	4.8	11.62	4.9	_	-
3	14.58	6.3	14.56	6.5	15.09	2.9
4	14.52	3.5	14.52	3.5	-	-
5	15.13	3.2	15.08	3.3	_	-
6	18.27	6.4	18.32	6.5	-	
7	22.09	3.1	22.43	3.4	18.99	2.5
Precision production, craft, and repair	18.99	3.3	19.01	3.5	18.66	2.3
4	16.00	5.3	16.00	5.3	-	
5	14.65	5.2	14.58	5.3	_	-
6	20.38	7.0	20.60	7.1	<u> </u>	-
7	22.36	3.1	22.76	3.4	18.72	2.2
Industrial machinery repairers	20.08	4.9	20.08	5.1	-	_
7Supervisors, production	22.30	3.9 4.9	- 22.58	4.9	_	_
Tool and die makers	22.58 24.45	6.0	22.58 24.45	6.0	_	
7 OF ATA GO MAROTO	£ 7.70	3.0	2 1.40	5.0		
Machine operators, assemblers, and inspectors	13.94	4.7	13.94	4.7	_	-
1	9.32	4.1	9.32	4.1	_	-
2	11.42	6.5	11.42	6.5	_	_

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, Grand Rapids-Muskegon-Holland, MI, April 2002 — Continued

	To	otal	Private	industry	State and local government	
Occupation and level	Mean	Relative error ⁵ (percent)	Mean	Relative error ⁵ (percent)	Mean	Relativ error ⁵ (percen
Blue collar –Continued						
Machine operators, assemblers, and inspectors -Continued						
3	\$14.18	7.9	\$14.18	7.9	_	_
4	14.47	4.7	14.47	4.7	_	_
5	15.18	4.7	15.16	4.7	_	_
6	17.01	7.3	17.01	7.3	_	
Fabricating machine operators, n.e.c.	17.37	12.7	17.37	12.7	_	_
Molding and casting machine operators	11.06	10.7	11.06	10.7	_	
Painting and paint spraying machine operators	14.74	8.0	14.74	8.0	_	
Miscellaneous machine operators, n.e.c	13.30	7.3	13.30	7.3		
2	11.95	11.8	11.95	11.8	_	_
4	14.19	1.6	14.19	1.6	_	I -
Assemblers	13.00	5.1	13.00	5.1		_
1	9.00	6.8	9.00	6.8	_	I
3	9.00 14.22	8.0	9.00 14.22	8.0	_	-
4	12.82	7.2	12.82	7.2	_	_
Miscellaneous hand working, n.e.c.	16.01	14.2	16.01	14.2	_	_
Production inspectors, checkers and examiners	16.19	11.1	16.19	11.1	_	_
Transportation and material moving	14.40	4.5	14.33	4.8	\$15.51	5.6
2	11.17	6.1	11.02	6.1	Ψ10.01	
3	17.75	7.4	18.57	8.6	_	_
4	14.32	7.8	14.32	7.8	_	
Truck drivers	14.08	6.8	14.03	7.0	_	_
Industrial truck and tractor equipment operators	14.56	6.8	14.56	6.8	_	_
Handlers, equipment cleaners, helpers, and laborers	12.12	4.6	12.09	4.7	12.77	16.3
1	9.12	6.5	9.19	6.5	_	10.5
2	13.49	9.0	13.59	9.1	_	_
3	14.02	6.0	13.82	6.6	_	_
Stock handlers and baggers	10.95	7.6	10.76	7.9	_	_
Machine feeders and offbearers	15.03	10.0	15.03	10.0	_	_
Service	10.78	8.1	8.98	11.4	16.82	4.1
1	6.58	9.2	6.44	9.5	10.32	9.4
2	5.07	21.7	_	_	11.99	9.6
3	11.15	6.0	10.78	7.7	12.58	5.0
4	13.49	5.9	_	_	12.83	4.4
5	16.66	7.1	_	_	15.88	7.8
6	19.09	4.6	_	_	19.09	4.6
7	19.39	10.1	_	_	21.66	3.1
9	23.59	11.2	-	_	23.59	11.2
Protective service	19.83	3.5	-	-	19.83	3.5
6	19.09	4.6	-	-	19.09	4.6
7	21.66	3.1	-	_	21.66	3.1
Police and detectives, public service	21.63	4.2	_	-	21.63	4.2
Food service	6.12	10.7	5.88	11.0	11.74	6.7
1	5.56	9.9	5.51	10.0	-	-
3	8.76	9.0	8.45	9.7	_	-
Waiters, waitresses, and bartenders	3.50	8.5	3.50	8.5	-	-
1	3.23	7.4	3.23	7.4	_	_
Waiters and waitresses	3.22	8.8	3.22	8.8	_	-
1	3.13	7.9	3.13	7.9	-	_
Other food service	8.63	6.0	8.35	6.2	11.74	6.7
1	7.52	5.9	7.48	6.0	_	-
3	9.97	4.2	9.69	4.9	_	_
Cooks	9.23	8.1	8.65	7.9	_	_
Kitchen workers, food preparation	8.75	7.1	8.75	7.1	_	_
Food preparation, n.e.c.	7.65	6.5	7.26	6.3	10.74	3.8
1	7.33	6.3	7.26	6.3	_	_
	10.37	3.8	9.82	4.5	_	_
Health service		1 217				İ
3	10.41	2.9	_	_	_	_

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, Grand Rapids-Muskegon-Holland, MI, April 2002 — Continued

	To	tal	Private	industry	State and local government	
Occupation and level	Mean	Relative error ⁵ (percent)	Mean	Relative error ⁵ (percent)	Mean	Relative error ⁵ (percent)
Service –Continued Cleaning and building service –Continued 1	\$9.88 14.24 13.75 11.65 9.27 9.05 8.92	14.5 5.4 4.9 11.7 8.1 9.6 8.1	- \$13.78 - - - -	- - 6.5 - - -	- \$13.66 - 11.00 -	- - 2.6 - 6.7 -

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

hazard pay. Excluded are premium pay for overtime, vacations, holidays, nonproduction bonuses, and tips. The mean is computed by totaling the pay of all workers and dividing by the number of workers, weighted by hours.

The relative standard error (RSE) is the standard error expressed as 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.

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

percent of the estimate. It can be used to calculate a "confidence interval" around a sample estimate. For more information about RSEs, see appendix

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, Grand Rapids-Muskegon-Holland, MI, April 2002

		otal	Private	industry	State and local government	
Occupation and level	Mean	Relative error ⁵ (percent)	Mean	Relative error ⁵ (percent)	Mean	Relative error ⁵ (percen
	\$17.62	2.6	\$16.54	3.1	\$24.73	3.3
All excluding sales		2.7	16.21	3.3	24.73	3.3
White collar	22.70	3.4	20.75	4.7	28.68	3.4
2	9.89	6.6	_	_	_	_
3	11.73	3.5	11.16	3.3	13.77	5.5
4		2.7	13.85	3.7	15.05	2.4
5		5.7	14.21	6.6	16.69	1.4
6		7.9	16.82	9.8	19.26	6.5
7		5.1	20.43	7.5	24.45	4.5
8		6.2	23.81	6.6	37.40	4.3
9		3.7	27.76	5.4	36.93	5.0
11		7.9	35.71	9.2	43.90	3.3
12		8.7	15 21	11.0	_	_
Not able to be leveled White collar excluding sales		11.8 3.3	15.21 20.47	11.8 4.8		3.4
2		7.7	20.47	4.6	28.68 –	3.4
3		4.2	11.46	4.2	13.77	5.5
4		2.8	13.96	4.0	15.77	2.4
5		5.8	14.19	6.7	16.69	1.4
6		10.2		-	19.26	6.5
7		4.5	20.97	6.9	24.45	4.5
8		6.2	23.81	6.6	37.40	4.3
9		3.7	25.59	3.8	36.93	5.0
11		4.8	32.54	4.3	43.90	3.3
12		8.7	_	_	_	_
Not able to be leveled	16.54	17.6	16.54	17.6	_	-
Professional specialty and technical	27.27	3.6	23.37	4.8	34.68	4.1
Professional specialty		4.4	25.00	6.5	35.84	4.2
6		17.4	_	_	_	_
7		4.6	_	_	25.55	5.4
8	32.59	6.7	_	_	39.92	3.4
9	31.87	4.9	26.23	5.6	38.68	4.9
Engineers, architects, and surveyors		4.6	29.29	4.6	_	_
9		3.7	27.03	3.8	_	_
Mathematical and computer scientists		_	_	_	_	_
Health related		8.4	26.23	11.0	24.96	7.1
9		10.6	_	_	_	_
Registered nurses		4.4	_	_	40.00	- 7.4
Teachers, college and university		7.4	_	_	40.80	7.4
Teachers, except college and university		7.9	_	_	40.35	3.0
8	_	8.8	_	_	41.52	2.4
9 Elementary school teachers		2.5 7.6		_	42.83 41.29	2.5 3.0
8		10.4		1 .	43.00	1.8
9	41.95	3.6	_	_	43.00	3.6
Secondary school teachers		7.1	<u>-</u>	I -	39.34	6.0
8		9.1	_	_	39.34	0.0
Teachers, special education		3.8		I _	43.95	3.8
Librarians, archivists, and curators		-	_	_	-	- 5.0
Social scientists and urban planners		_	_	_	_	_
Social, recreation, and religious workers		6.5	_	_	21.67	6.5
Social workers		6.5	_	_	21.67	6.5
Writers, authors, entertainers, athletes, and						
professionals, n.e.c.			20.57		10.00	-
Technical		6.3	20.57	6.9	19.80	5.2
5 7	_	3.9 8.1	15.04 20.16	4.3 9.5	_	_
					05.50	
Executive, administrative, and managerial		5.4	27.76	6.9	35.58	6.7
8		14.9	-		_	-
9		6.4	24.05	8.0	45.00	
11		4.9	30.78	3.6	45.09	2.6
12	46.00	9.5	-	_	_	-

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, Grand Rapids-Muskegon-Holland, MI, April 2002 — Continued

	To	otal	Private	industry	State and local government		
Occupation and level	Mean	Relative error ⁵ (percent)	Mean	Relative error ⁵ (percent)	Mean	Relative error ⁵ (percen	
White collar –Continued							
Executive, administrative, and managerial -Continued							
Executives, administrators, and managers	\$32.31	6.8	\$29.98	8.6	\$39.60	5.8	
9	24.27	7.6	_	_	_	_	
11	33.59	5.5	_	_	45.09	2.6	
12	46.00	9.5	_	-	_		
Administrators, education and related fields	45.02	2.4	_	_	45.02	2.4	
Managers and administrators in a c	45.09	2.6	- 27.04	10.0	45.09 —	2.6	
Managers and administrators, n.e.c	29.23 23.15	9.7 8.0	27.04	9.7	23.54	6.9	
9	24.58	10.6	-	-	-	-	
Sales	21.92	16.5	21.92	16.5	-	_	
Cashiers	10.97	3.2	10.97	3.2	-	_	
Administrative support, including clerical	13.80	2.3	13.38	3.0	15.07	2.2	
2	10.08	7.7	-	_	_ 40.77	_	
3 4	11.85	3.7	11.01	1.5 4.0	13.77	5.5 2.4	
5	14.31 14.45	2.8 4.5	13.96 14.14	5.1	15.05 –	2.4	
6	18.68	1.1	-	-	_	_	
Secretaries	15.01	4.5	15.16	6.6	14.73	3.4	
4	14.65	4.6	14.76	6.8	14.43	3.5	
Bookkeepers, accounting and auditing clerks	13.55	7.6	_	-	_	_	
General office clerks	13.07	7.4	_	_	14.18	4.9	
4	15.08	5.9	_	_	-	_	
Teachers' aides	13.53	6.3	_	_	13.53	6.3	
3 Administrative support, n.e.c.	13.37 13.81	9.5 11.0	_	_	13.37 -	9.5	
Blue collar	15.56	3.4	15.50	3.5	17.53	3.0	
1	10.57	4.3	10.57	4.3	_	_	
2	11.91	5.0	11.88	5.0	_	_	
3	14.59	6.3	14.57	6.6	_	_	
4	14.60	3.5	14.60	3.5	_	_	
5 6	15.13 18.27	3.2 6.4	15.08 18.32	3.3 6.5	_	_	
7	22.09	3.1	22.43	3.4	18.99	2.5	
Precision production, craft, and repair	19.02	3.3	19.04	3.5	18.66	2.3	
4	16.00	5.3	16.00	5.3	_	-	
5	14.65	5.2	14.58	5.3	_	_	
6	20.38	7.0	20.60	7.1	- 10.70		
7	22.36	3.1	22.76	3.4	18.72	2.2	
Industrial machinery repairers	20.08 22.30	4.9 3.9	20.08	5.1	_	_	
Supervisors, production	22.58	4.9	22.58	4.9	_	_	
Tool and die makers	24.45	6.0	24.45	6.0	_	-	
Machine operators, assemblers, and inspectors	14.18	4.8	14.18	4.8	_	_	
1	9.63	5.0	9.63	5.0	-	_	
2	11.83	6.8	11.83	6.8	_	-	
3	14.18	7.9	14.18	7.9	_	-	
4 5	14.47 15.18	4.7 4.8	14.47 15.16	4.7 4.8	_		
6	17.01	7.3	17.01	7.3	_	_	
Fabricating machine operators, n.e.c.	17.37	12.7	17.37	12.7	_	_	
Molding and casting machine operators	11.06	10.7	11.06	10.7	_	_	
Painting and paint spraying machine operators	14.74	8.0	14.74	8.0	-	_	
Fairting and paint spraying machine operators					1	1	
Miscellaneous machine operators, n.e.c	14.05	6.7	14.05	6.7	_	-	
	14.05 13.78 14.19	6.7 8.8 1.6	14.05 13.78 14.19	8.8 1.6	_ _ _	_	

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, Grand Rapids-Muskegon-Holland, MI, April 2002 — Continued

	To	otal	Private	industry	State and local government		
Occupation and level	Mean	Relative error ⁵ (percent)	Mean	Relative error ⁵ (percent)	Mean	Relative error ⁵ (percent)	
Blue collar –Continued							
Machine operators, assemblers, and inspectors -Continued							
Assemblers –Continued							
3	\$14.22	8.0	\$14.22	8.0	_	_	
4	12.82	7.2	12.82	7.2	_	_	
Miscellaneous hand working, n.e.c.	16.01	14.2	16.01	14.2	_	_	
Production inspectors, checkers and examiners	16.19	11.1	16.19	11.1	_	_	
Transportation and material moving	14.44	4.6	14.37	4.9	\$15.71	6.3	
2	11.18	6.1	11.02	6.1		_	
3	17.86	7.7	18.57	8.6	_	_	
4	14.32	8.3	14.32	8.3	_	_	
Truck drivers	14.16	7.1	14.09	7.3	_	_	
Industrial truck and tractor equipment operators	14.56	6.8	14.56	6.8	_	_	
Handlers, equipment cleaners, helpers, and laborers	13.73	4.1	13.66	4.2	_	_	
1	11.44	3.7	11.44	3.7			
2	13.68	9.4	13.68	9.4		_	
3	14.11	6.1	13.89	6.7		_	
Stock handlers and baggers	13.56	5.3	13.39	5.5	_	_	
Service	12.49	7.8	10.55	11.0	17.86	4.2	
1	7.63	10.7	7.55	10.7	17.00	4.2	
2	6.94	26.5	7.55	10.7		_	
3	11.95	6.2	11.62	7.9	13.28	5.0	
4	13.71	6.6	11.02	7.5	15.20	3.0	
5	16.72	7.0			16.09	7.8	
6	19.34	4.5	_	_	19.34	4.5	
7	19.44	10.3	_		- 13.54		
9	23.59	11.2	_	l _	23.59	11.2	
Protective service	20.40	3.4	_	l _	20.40	3.4	
6	19.34	4.5	_	_	19.34	4.5	
Police and detectives, public service	22.02	3.9	_	_	22.02	3.9	
Food service	7.33	9.6	7.14	9.4		_	
1	6.52	11.0	6.52	11.0	_	_	
3	9.12	9.0	_	_	_	_	
Waiters, waitresses, and bartenders	3.73	1.7	3.73	1.7	_	_	
Other food service	8.76	7.4	8.56	7.4	_	_	
1	7.60	7.3	7.60	7.3	_	_	
Food preparation, n.e.c.	7.59	7.5			l _	_	
Health service	10.82	2.8	l _	l _	l _	_	
3	10.02	2.9	_	l _	_	_	
Cleaning and building service	14.09	9.0	13.87	10.5	15.34	8.8	
3	14.65	4.6	15.07	'5.5			
		3.4	14.47	4.4	44.00		
Janitors and cleaners	14.37				14.09	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

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.

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 checkly began on the property. Therefore, a

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

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, Grand Rapids-Muskegon-Holland, MI, April 2002

	To	otal	Private	industry	State and local government		
Occupation and level	Mean	Relative error ⁵ (percent)	Mean	Relative error ⁵ (percent)	Mean	Relative error ⁵ (percen	
	\$10.46	9.5	\$10.30	10.6	\$12.08	10.1	
All excluding sales	10.58	10.1	10.43	11.3	12.08	10.1	
White collar	14.83	4.7	14.84	4.9	14.68	15.6	
1	9.05	1.6	9.09	1.4	_	_	
3	8.47 10.13	6.2 2.4	- 10.15	2.6	_	_	
9	25.56	6.7	10.13	2.0	_	_	
White collar excluding sales	15.90	5.3	16.03	5.8	14.68	15.6	
3	10.46	1.4	10.52	1.4	_	_	
9	25.56	6.7	-	-	-	_	
Professional specialty and technical	21.84	8.7	22.28	9.6	18.83	14.8	
Professional specialty	23.88	9.0	24.62	9.9	19.43	17.2	
9	25.56	6.7	_	_	_	-	
Mathematical and computer scientists	-	-	_	_	_	_	
Health related	24.70	2.6	24.86	2.9	_	_	
9 Registered nurses	25.13	7.0	- 22.74		_	_	
3	23.64 14.59	4.0	23.74	4.4	22.14	24.2	
Teachers, except college and university Social, recreation, and religious workers	-	24.2	_	_	23.14	24.2	
Technical	14.49	12.3	_	_	_	_	
Sales	8.77	2.9	8.77	2.9	-	_	
Cashiers	8.47	4.3	8.47	4.3	_	_	
Administrative support, including clerical	10.88	6.1	11.05	5.8	8.85	10.0	
3	10.46	1.6	10.53	1.6	_	_	
General office clerks	10.55	1.6	-	_	-	_	
Blue collar	8.11	4.6	8.05	4.8	9.47	18.4	
1	7.20	3.9	7.24	3.9	_	_	
Precision production, craft, and repair	-	_	-	_	-	_	
Machine operators, assemblers, and inspectors	8.49	1.2	8.49	1.2	-	_	
Transportation and material moving	_	-	-	-	-	_	
Handlers, equipment cleaners, helpers, and laborers	7.12	3.4	7.13	3.5	-	_	
Service	5.58	15.4	4.93	16.1	10.15	4.0	
1	4.70	14.9	4.31	15.0	9.27	4.2	
3	8.26	8.6	7.59	9.2	10.43	7.6	
Protective service	10.33	7.5	-		10.33	7.5	
Food service	4.57	16.9	4.21	16.4	10.80	4.3	
1	4.21	14.3	4.04	14.3	_	_	
3Waiters, waitresses, and bartenders	8.25 3.38	15.9 11.7	3.38	11.7	_	-	
1	3.20	10.3	3.20	10.3	_	_	
Waiters and waitresses	5.20	10.5	3.20		_		
1	3.12	10.1	3.12	10.1	-	<u> </u>	
Other food service	8.15	7.3	7.41	8.4	10.80	4.3	
1	7.17	9.1	_		_	_	
Sood proparation in a c	9.56	10.4	_	_	10.52	6.0	
Food preparation, n.e.c	7.89 7.10	13.8 13.1	_		10.53	6.2	
Health service	7.10	13.1	_			_	

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, Grand Rapids-Muskegon-Holland, MI, April 2002 — Continued

	Тс	otal	Private	industry	State and local government	
Occupation and level	Mean	Relative error ⁵ (percent)	Mean	Relative error ⁵ (percent)	Mean	Relative error ⁵ (percent)
Service –Continued Personal service Early childhood teachers' assistants	\$8.41 8.47	6.6 8.0	-	- -	\$9.82 -	7.8 -

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 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.

of all workers and dividing by the number of workers, weighted by hours.

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.

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 checkly beside to the deficition used by a post other beautiful parts. Therefore the control of the

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.

Table 5-1. Selected worker characteristics: Mean hourly earnings¹ by occupational group,² National Compensation Survey, Grand Rapids-Muskegon-Holland, MI, April 2002

	1						
		Private indu	stry and Sta	ate and local o	government		
Occupational group	Full-time workers ³	Part-time workers ³	Union ⁴	Nonunion ⁴	Time ⁵	Incentive ⁵	
			N	lean			
All occupations	\$17.62	\$10.46	\$19.10	\$15.89	\$16.53	\$27.27	
All excluding sales	17.39	10.58	19.24	15.55	16.60	_	
White collar		14.83	25.48	20.35	20.93	_	
White-collar excluding sales	22.84	15.90	26.40	20.28	21.76	_	
Professional specialty and technical	27.27	21.84	31.52	23.67	26.43	_	
Professional specialty	29.71	23.88	35.52	24.92	28.76	-	
Technical		14.49	18.50	20.28	19.71	_	
Executive, administrative, and managerial	29.52	_	29.96	29.49	29.58	_	
Sales	21.92	8.77	_	20.68	14.85	_	
Administrative support, including clerical	13.80	10.88	15.04	12.73	13.17	_	
Blue collar	15.56	8.11	16.87	14.37	15.14	_	
Precision production, craft, and repair	19.02		20.08	18.52	18.99	_	
Machine operators, assemblers, and inspectors	14.18	8.49	17.16	12.67	13.94	_	
Transportation and material moving	14.44		15.67	13.92	14.11	_	
Handlers, equipment cleaners, helpers, and laborers	13.73	7.12	-	11.91	12.12	-	
Service	12.49	5.58	15.21	9.06	10.78	_	
	Relative error ⁶ (percent)						
All occupations	2.6	9.5	3.7	3.3	2.6	26.4	
All excluding sales		10.1	3.7	3.5	2.7	-	
White collar	3.4	4.7	4.6	4.3	3.2	_	
White-collar excluding sales	3.3	5.3	4.8	4.2	3.3	_	
Professional specialty and technical	3.6	8.7	6.2	3.9	3.4	_	
Professional specialty	4.4	9.0	4.8	5.2	4.2	_	
Technical		12.3	13.8	7.3	6.6	_	
Executive, administrative, and managerial	5.4	_	13.7	5.8	5.5	_	
Sales	16.5	2.9	_	16.7	10.6	_	
Administrative support, including clerical	2.3	6.1	3.7	2.6	2.4	_	
Blue collar	3.4	4.6	5.6	4.0	3.5	_	
Precision production, craft, and repair	3.3	-	7.6	3.0	3.3	_	
Machine operators, assemblers, and inspectors		1.2	7.3	5.4	4.7	_	
Transportation and material moving	4.6	_	8.7	5.5	4.8	_	
Handlers, equipment cleaners, helpers, and laborers	4.1	3.4	_	6.6	4.6	_	
Service	7.8	15.4	4.3	12.2	8.1	_	

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 intermatics.

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

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

Onlon workers are those whose wages are determined unlocal 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

Table 5-2. Major industry division: Mean hourly earnings1 by occupational group,2 private industry, National Compensation Survey, Grand Rapids-Muskegon-Holland, MI, April 2002

				Fu	II-time an	d part-tir	me workers			
		Good	ls-produc	ing indus	stries ³		Service-	producing in	dustries ⁴	
Occupational group	All private industries	Total	Mining	Con- struc- tion	Manu- factur- ing	Total	Transport- ation and public util- ities	Wholesale and retail trade	Finance, insurance, and real estate	Serv- ices
						Mean				
All occupations		_ _	-	_	-	_ _	\$17.21 17.21	_ _	_ _	- -
White collar	19.68	_	_	_	_	_	_	_	_	_
White-collar excluding sales	19.64	_	_	-	-	_	_	_	_	-
Professional specialty and technical	23.16	_	_	_	_	_	_	_	_	_
Professional specialty		_	_	_	_	_	_	_	_	_
Technical		_	-	_	_	_	_	_	-	-
Executive, administrative, and managerial	27.76	_	_	_	_	_	_	_	_	_
Sales	19.81	_	_	_	_	_	_	_	_	_
Administrative support, including clerical	12.79	_	_	-	-	-	_	-	_	-
Blue collar	15.10	_	_	_	_	_	_	_	_	_
Precision production, craft, and repair		_	_	_	_	_	_	_	_	_
Machine operators, assemblers, and inspectors		_	_	_	_	_	_	_	_	_
Transportation and material moving		_	_	_	_	_	_	_	_	_
Handlers, equipment cleaners, helpers, and										
laborers	12.09	_	_	-	_	_	_	_	_	-
Service	8.98	_	-	-	_	_	_	_	_	_
					Relative	e error ⁵ (percent)			
All occupations	3.1	_	_		_	_	12.3	_	_	_
All excluding sales		_	_	-	_	_	12.3	_	_	_
White collar	4.4	_	_	_	_	_	_	_	_	_
White-collar excluding sales		_	-	-	_	_	_	_	_	-
Professional specialty and technical	3.9	_	_	_	_	_	_	_	_	_
Professional specialty	5.3	_	-	_	-	-	_	_	_	-
Technical		_	-	_	-	_	_	_	_	-
Executive, administrative, and managerial	6.9	_	-	_	-	_	_	_	-	-
Sales		_	-	_	-	_	_	_	-	-
Administrative support, including clerical	2.9	-	_	-	_	-	_	_	_	_
Blue collar	3.5	_	_	_	_	_	_	_	_	_
Precision production, craft, and repair	3.5	_	_	_	_	_	_	_	_	-
Machine operators, assemblers, and inspectors	4.7	_	-	_	-	-	_	_	-	-
Transportation and material moving	4.8	_	-	_	-	-	_	_	-	-
Handlers, equipment cleaners, helpers, and laborers	4.7	_	_	_	_	_	_	_	_	_
			_	-	_	_	_	_	_	-
Service	11.4	_	-	_	-	-	-	_	-	-

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.

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

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.

Table 5-3. Establishment employment size: Mean hourly earnings1 by occupational group,2 private industry, National Compensation Survey, Grand Rapids-Muskegon-Holland, MI, April 2002

		Full-time	and part-time	e workers				
Occupational group	All private		100	workers or r	more			
Оссиранопа угоир	industry workers	50 - 99 workers ³	Total	100 - 499 workers	500 workers or more			
			Mean					
All occupations All excluding sales		\$12.34 12.29	\$16.41 16.11	\$16.00 15.45	\$17.07 17.17			
White collar		17.29	20.23	20.48	19.76			
White-collar excluding sales	19.64	18.02	20.04	19.57	20.90			
Professional specialty and technical Professional specialty Technical	24.91	19.88 21.79 –	23.66 25.46 20.36	24.11 25.46 20.12	23.22 25.46 20.50			
Executive, administrative, and managerial	27.76 19.81 12.79	27.41 13.19 11.68	27.91 21.00 13.10	27.86 24.34 12.54	15.34 14.68			
Blue collar Precision production, craft, and repair Machine operators, assemblers, and inspectors Transportation and material moving	19.01 13.94 14.33	14.04 18.66 - 13.69	15.20 19.05 14.07 14.45	14.24 17.15 13.05 14.10	16.69 22.79 15.56 15.14			
Handlers, equipment cleaners, helpers, and laborers Service	12.09 8.98	12.05 5.12	12.10 11.52	11.64	12.54 11.50			
	Relative error ⁴ (percent)							
All accounties	2.4	44 E	3.0	4.1	F 4			
All occupations All excluding sales		11.5 11.9	3.0 3.2	4.1	5.1 5.2			
White collar		10.8 11.8	5.0 5.0	7.2 7.4	5.4 5.1			
Professional specialty and technical Professional specialty Executive, administrative, and managerial Sales Administrative support, including clerical	5.3	16.6 21.4 - 18.4 18.4 4.3	4.1 5.6 7.2 6.1 17.1 3.3	6.5 9.1 9.1 6.5 21.2 3.6	5.0 5.0 10.1 — 18.3 5.2			
Blue collar Precision production, craft, and repair Machine operators, assemblers, and inspectors Transportation and material moving Handlers, equipment cleaners, helpers, and laborers	4.7 4.8	8.1 3.3 - 8.0 11.0	3.7 3.8 4.9 5.1 5.4	4.7 3.6 6.4 6.2 10.2	6.7 5.5 7.9 10.1 5.5			
Service	11.4	12.2	8.6	13.7	6.5			

¹ Earnings are the straight-time hourly wages or salaries paid to employees. They include incentive pay, cost-of-living adjustments, and hazard pay. Excluded are premium pay for overtime, vacations, 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

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

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.

Table 6-1. Hourly wage percentiles for establishment jobs, 1 all workers: 2 Selected occupations, all industries, National Compensation Survey, Grand Rapids-Muskegon-Holland, MI, April 2002

Occupation ³	10	25	Median 50	75	90
All	\$8.74	\$11.00	\$14.79	\$19.67	\$27.83
All excluding sales	8.75	11.00	14.81	19.24	27.15
White collar	10.45	12.22	18.12	27.17	37.82
White collar excluding sales	10.75	13.00	18.51	27.07	39.23
Professional specialty and technical Professional specialty	13.64 16.78	19.67 22.51	24.74 25.62	31.36 37.71	43.15 43.31
Engineers, architects, and surveyors	23.15	24.52	27.83	31.36	39.23
Mathematical and computer scientists	19.05	19.05	36.30	36.67	36.67
Health related	21.00	22.16	23.11	28.97	31.92
Registered nurses	21.00	22.16	23.11	24.74	28.97
Teachers, college and university	31.48	35.05	40.67	45.66	59.26
Teachers, except college and university	10.00	24.18	33.22	43.31	45.32
Prekindergarten and kindergarten	9.08	9.08	9.08	19.24	19.24
Elementary school teachers Secondary school teachers	24.18 27.04	25.34 29.25	40.48 39.57	43.81 42.20	45.11 44.31
Teachers, special education	38.36	41.01	43.15	46.75	50.09
Teachers, n.e.c.	17.65	31.59	33.22	42.99	45.78
Librarians, archivists, and curators	_	_	_	_	_
Social scientists and urban planners	_	_	_	_	_
Social, recreation, and religious workers	7.00	16.27	20.52	22.50	24.94
Social workers	16.27	19.80	22.45	22.50	24.94
Writers, authors, entertainers, athletes, and					
professionals, n.e.c	13.44	15.50	18.56	24.29	26.88
reciffical	13.44	15.50	10.50	24.23	20.00
Executive, administrative, and managerial	16.83	22.39	27.17	35.00	45.68
Executives, administrators, and managers	16.83	25.00	30.39	38.65	45.77
Administrators, education and related fields	41.30	41.49	44.78	46.31	47.78
Managers and administrators, n.e.c	16.83	24.52	30.39	31.73	38.65
Management related	16.38	17.32	22.39	26.44	33.31
Sales	8.63	11.18	12.40	31.70	36.16
Cashiers	7.88	9.00	11.18	11.97	12.40
Administrative support, including clerical	9.88	10.96	12.68	15.46	17.25
Secretaries	10.97	12.07	14.03	16.74	18.34
Bookkeepers, accounting and auditing clerks	10.91	11.23	12.52	16.00	16.04
General office clerks	9.19	10.49	10.96	13.28	15.67
Teachers' aides	10.03	11.73	12.19	15.28	16.70
Administrative support, n.e.c.	10.15	10.15	12.16	16.87	18.97
Blue collar	9.70	11.40	14.48	17.78	23.24
Precision production, craft, and repair	12.57	14.68	18.68	23.00	27.89
Industrial machinery repairers	15.57	17.68	18.68	23.14	23.14
Supervisors, production	16.25	21.65	21.81	25.78	28.51
Tool and die makers	16.19	21.90	28.28	28.28	28.28
Machine operators, assemblers, and inspectors	9.70	10.85	13.30	15.55	18.43
Fabricating machine operators, n.e.c.		11.19	15.06	23.98	24.93
Molding and casting machine operators	8.00	8.00	10.39	15.20	15.20
Painting and paint spraying machine operators	10.53	12.89	15.19	16.69	18.35
Miscellaneous machine operators, n.e.c	8.67	9.88	13.76	15.65	18.35
Assemblers	10.25	10.85	12.38	14.79	16.73
Miscellaneous hand working, n.e.c	11.74	13.15	13.15	17.22	24.63
Production inspectors, checkers and examiners	10.92	11.87	14.96	24.17	24.63
Transportation and material moving	10.53	11.66	14.56	16.01	16.50
Truck drivers	11.61	12.12	14.49	16.01	16.01
Industrial truck and tractor equipment operators	10.53	11.03	14.05	16.18	17.33
	6.30	9.00	12.04	15.70	17.31
Handlers, equipment cleaners, helpers, and laborers	0.00			1 10 00	1701
Stock handlers and baggers	5.91	6.64	11.48	13.23	17.31
		6.64 12.04	11.48 15.55	13.23 17.84	17.84
Stock handlers and baggers	5.91 12.04	12.04	15.55	17.84	17.84
Stock handlers and baggers	5.91				

Table 6-1. Hourly wage percentiles for establishment jobs, 1 all workers: 2 Selected occupations, all industries, National Compensation Survey, Grand Rapids-Muskegon-Holland, MI, April 2002 — Continued

Occupation ³	10	25	Median 50	75	90
Service –Continued Food service Waiters, waitresses, and bartenders Waiters and waitresses Other food service Cooks Kitchen workers, food preparation	\$2.77 2.67 2.65 6.23 6.92 7.11	\$2.89 2.77 2.77 7.13 7.22 7.39	\$6.23 2.89 2.89 8.35 8.60 8.67	\$8.35 2.98 2.89 9.96 10.58 9.96	\$10.69 5.50 3.70 11.98 11.20
Food preparation, n.e.c. Health service	5.27 8.08 7.00 9.50 7.50	6.23 8.75 11.00 11.96 7.50 7.50	8.31 9.28 13.38 15.06 8.02 8.02	8.35 11.97 15.34 15.34 10.80 10.80	9.20 12.40 18.45 16.19 12.57 10.80

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,

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

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.

Table 6-2. Hourly wage percentiles for establishment jobs, 1 all workers: 2 Selected occupations, private industry, National Compensation Survey, Grand Rapids-Muskegon-Holland, MI, April 2002

	Private industry						
Occupation ³	10	25	Median 50	75	90		
	\$8.38	\$10.89	\$14.05	\$18.45	\$25.78		
All excluding sales	8.35	10.88	14.11	18.43	25.00		
White collar	10.05	11.59	16.74	25.34	34.06		
White collar excluding sales	10.49	12.07	16.83	25.34	31.25		
Professional specialty and technical	12.22	16.83	24.18	27.68	31.36		
Professional specialty Engineers, architects, and surveyors	10.87 23.15	22.16 24.52	24.74 27.83	29.25 31.36	36.67 39.23		
Mathematical and computer scientists	23.13	24.52 -	27.03	-	39.23		
Health related	21.00	22.16	23.13	29.58	31.25		
Registered nurses	21.00	22.16	22.93	24.82	29.58		
Teachers, except college and university	-	_	_	_	_		
Writers, authors, entertainers, athletes, and	_						
professionals, n.e.c Technical	13.13	15.50	18.56	26.88	26.88		
Executive, administrative, and managerial	16.83	18.27	26.44	31.27	45.68		
Executives, administrators, and managers	16.83	24.52	30.39	31.73	45.68		
Managers and administrators, n.e.c.	16.83	22.89	27.38	30.39	36.54		
Management related	16.38	16.92	19.23	27.17	33.31		
Sales	8.63	11.18	12.40	31.70	36.16		
Cashiers	7.88	9.00	11.18	11.97	12.40		
Administrative support, including clerical	9.76	10.75	12.07	14.35	16.74		
Secretaries	10.97	11.90	13.39	16.74	18.41		
Bookkeepers, accounting and auditing clerks	10.91	10.95	12.52	13.50	16.00		
General office clerks	8.00	10.41	10.49	10.96	13.27		
Administrative support, n.e.c.	10.15	10.15	12.16	18.38	18.97		
Blue collar	9.70	11.40	14.46	17.68	23.24		
Precision production, craft, and repair	12.46	14.68	18.68	23.14	27.89		
Industrial machinery repairers	15.57	17.04	18.68	23.14	23.90		
Supervisors, production	16.25	21.65	21.81	25.78	28.51		
Tool and die makers	16.19	21.90	28.28	28.28	28.28		
Machine operators, assemblers, and inspectors	9.70	10.85	13.29	15.55	18.43		
Fabricating machine operators, n.e.c	10.75 8.00	11.19 8.00	15.06 10.39	23.98 15.20	24.93 15.20		
Painting and paint spraying machine operators	10.53	12.89	15.19	16.69	18.35		
Miscellaneous machine operators, n.e.c	8.67	9.88	13.76	15.65	18.35		
Assemblers	10.25	10.85	12.38	14.79	16.73		
Miscellaneous hand working, n.e.c.	11.74	13.15	13.15	17.22	24.63		
Production inspectors, checkers and examiners	10.92	11.87	14.96	24.17	24.63		
Transportation and material moving	10.53	11.66	14.32	16.01	16.50		
Truck drivers	11.61	12.12	14.32	16.01	16.01		
Industrial truck and tractor equipment operators	10.53	11.03	14.05	16.18	17.33		
Handlers, equipment cleaners, helpers, and laborers	6.30	9.42	12.04	15.70	17.31		
Stock handlers and baggers	5.91	6.64	11.48	12.29	17.31		
Machine feeders and offbearers	12.04	12.04	15.55	17.84	17.84		
Service	2.89	5.27	8.35	11.72	15.34		
Food service	2.77	2.89	5.50	8.35	9.96		
Waiters, waitresses, and bartenders	2.67 2.65	2.77 2.77	2.89 2.89	2.98 2.89	5.50 3.70		
Other food service	6.23	7.13	8.31	9.54	10.89		
Cooks	6.92	6.92	8.60	9.54	10.89		
Kitchen workers, food preparation	7.11	7.39	8.67	9.96	10.80		
Food preparation, n.e.c.	5.27	6.23	8.31	8.35	8.35		
Health service	8.08	8.75	9.28	11.01	12.40		

Table 6-2. Hourly wage percentiles for establishment jobs, all workers: Selected occupations, private industry, National Compensation Survey, Grand Rapids-Muskegon-Holland, MI, April 2002 — Continued

	Private industry					
Occupation ³	10	25	Median 50	75	90	
Service –Continued Cleaning and building service Janitors and cleaners Personal service	\$7.00 9.50 –	\$11.00 11.63 —	\$13.38 15.34 –	\$15.34 15.34 –	\$18.45 16.85 -	

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 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.

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

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

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

Table 6-3. Hourly wage percentiles for establishment jobs, 1 all workers: 2 Selected occupations, State and local government, National Compensation Survey, Grand Rapids-Muskegon-Holland, MI, April 2002

Occupation ³	State and local government					
Occupation:	10	25	Median 50	75	90	
All	\$11.98	\$14.88	\$19.10	\$31.92	\$43.31	
	11.98	14.88	19.10	31.92	43.31	
White collar	12.83	16.27	23.27	41.06	44.78	
	12.83	16.27	23.27	41.06	44.78	
Professional specialty and technical	18.51	23.11	38.36	43.31	45.59	
	20.60	23.27	40.48	43.31	45.59	
	–	–	–	–	–	
Health related	20.93	22.27	23.11	23.27	31.92	
	20.93	22.27	23.11	23.11	23.27	
	31.48	35.05	40.67	45.66	59.26	
	27.04	39.57	43.15	44.31	45.78	
Elementary school teachers	27.07	40.48	43.31	44.41	45.59	
	27.04	39.57	41.06	43.18	47.25	
	38.36	41.01	43.15	46.75	50.09	
	17.65	31.59	33.22	42.99	45.78	
Librarians, archivists, and curators Social scientists and urban planners Social, recreation, and religious workers Social workers Writers, authors, entertainers, athletes, and	- 7.00 16.27	- - 16.27 19.80	20.52 22.45	22.50 22.50	- - 24.94 24.94	
professionals, n.e.c	_	_	_	_	_	
	16.44	17.35	19.23	21.52	23.11	
Executive, administrative, and managerial Executives, administrators, and managers Administrators, education and related fields Management related	22.39	24.44	36.17	41.49	46.31	
	25.30	33.03	38.65	44.22	46.31	
	41.30	41.49	44.78	46.31	47.78	
	17.94	22.39	22.39	23.51	34.40	
Administrative support, including clerical	11.62	12.78	14.67	16.76	18.34	
	12.43	12.78	14.45	15.60	17.27	
	10.83	13.26	13.28	15.26	17.25	
	10.03	11.73	12.19	15.28	16.70	
Blue collar	13.73	14.92	17.23	18.95	20.47	
Precision production, craft, and repair	16.77	17.31	18.55	20.05	20.90	
Machine operators, assemblers, and inspectors	_	_	_	-	_	
Transportation and material moving	14.65	14.65	14.88	15.03	18.47	
Handlers, equipment cleaners, helpers, and laborers	5.15	8.25	15.95	16.49	16.49	
Service Protective service Police and detectives, public service Food service Other food service Food preparation, n.e.c.	10.76	12.57	16.19	19.64	23.64	
	13.51	18.08	19.12	22.17	24.10	
	17.83	19.64	21.77	24.10	24.10	
	9.20	10.69	11.20	11.98	15.77	
	9.20	10.69	11.20	11.98	15.77	
	9.20	9.39	10.69	11.98	11.98	
Health service Cleaning and building service Janitors and cleaners Personal service	12.33 10.35 7.96	13.27 13.24 10.11	13.97 13.27 10.80	- 14.66 14.93 10.80	- 16.19 16.19 15.05	

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 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,

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.

nonproduction bonuses, and tips.

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

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

Table 6-4. Hourly wage percentiles for establishment jobs, 1 full-time workers: 2 Selected occupations, all industries, National Compensation Survey, Grand Rapids-Muskegon-Holland, MI, April 2002

Occupation ³	10	25	Median 50	75	90
All	\$9.96	\$11.87	\$15.34	\$21.10	\$28.21
All excluding sales	9.78	11.87	15.34	20.47	27.68
White collar	11.00	13.39	19.23	29.25	39.37
White collar excluding sales	11.00	14.35	19.44	27.83	40.48
Professional specialty and technical	15.50	19.80	25.34	33.76	43.31
Professional specialty	19.05	23.11	27.07	39.23	44.13
Engineers, architects, and surveyors	23.15	24.52	27.83	31.36	39.23
Mathematical and computer scientists Health related	19.67	22.16	23.11	29.58	37.71
Registered nurses	22.16	22.16	23.11	24.82	29.58
Teachers, college and university	31.48	35.05	40.67	45.66	59.26
Teachers, except college and university	19.24	25.34 25.34	38.36 40.48	43.31 43.81	45.50 45.11
Elementary school teachers Secondary school teachers	24.18 27.04	29.25	39.57	43.61	44.31
Teachers, special education	38.36	41.01	43.15	46.75	50.09
Librarians, archivists, and curators	-	_	_	_	_
Social scientists and urban planners	-	-	-	-	-
Social, recreation, and religious workers Social workers	16.27 16.27	19.80 19.80	22.45 22.45	22.50 22.50	24.94 24.94
Writers, authors, entertainers, athletes, and	10.21	19.00	22.43	22.50	24.34
professionals, n.e.c.	_	_	-	_	_
Technical	15.13	15.70	19.44	26.88	26.88
Executive, administrative, and managerial	16.83	22.39	27.17	35.00	45.68
Executives, administrators, and managers	16.83	25.00	30.39	38.65	45.77
Administrators, education and related fields	41.30	41.49	44.78	46.31	47.78
Managers and administrators, n.e.c	16.83 16.38	24.52 17.32	30.39 22.39	31.73 26.44	38.65 33.31
· ·					
Sales Cashiers	11.18 9.00	11.59 10.45	15.38 11.18	34.06 11.97	36.16 12.40
Administrative support, including clerical	10.74	11.25	13.39	16.65	17.92
Secretaries	10.74	12.78	15.46	16.74	18.41
Bookkeepers, accounting and auditing clerks	10.91	10.95	14.37	16.00	16.06
General office clerks	8.00	12.07	13.27	14.41	17.25
Teachers' aides	11.62 10.15	11.73 10.15	12.71 12.16	16.70 16.87	16.70 18.97
Blue collar	10.36	11.87	14.76	17.84	23.70
Precision production, craft, and repair	12.57	14.68	18.68	23.14	27.89
Industrial machinery repairers	15.57	17.68	18.68	23.14	23.14
Supervisors, production	16.25	21.65	21.81	25.78	28.51
Tool and die makers	16.19	21.90	28.28	28.28	28.28
Machine operators, assemblers, and inspectors	9.73	10.92	13.61	15.65	18.76
Fabricating machine operators, n.e.c.	10.75	11.19	15.06	23.98	24.93
Molding and casting machine operators Painting and paint spraying machine operators	8.00 10.53	8.00 12.89	10.39 15.19	15.20 16.69	15.20 18.35
Miscellaneous machine operators, n.e.c	8.67	12.04	14.11	16.37	18.35
Assemblers	10.28	10.85	12.55	14.81	16.73
Miscellaneous hand working, n.e.c.	11.74	13.15	13.15	17.22	24.63
Production inspectors, checkers and examiners	10.92	11.87	14.96	24.17	24.63
Transportation and material moving	10.53	11.66	14.65	16.01	16.50
Truck driversIndustrial truck and tractor equipment operators	11.61 10.53	12.12 11.03	15.54 14.05	16.01 16.18	16.01 17.33
			14.00	10.10	17.33
Handlers, equipment cleaners, helpers, and laborers Stock handlers and baggers	9.72 9.96	11.48 11.48	13.23 12.29	15.76 15.76	17.84 17.31
Service	6.23	8.35	11.72	15.65	19.11
Protective service	17.83	18.08	19.55	22.68	24.10
Police and detectives, public service	17.83	19.64	21.77	24.10	24.10
Food service	2.77	5.27	8.31	9.15	10.89
Waiters, waitresses, and bartenders	2.67	2.67	2.77	4.00	5.50
Other food service	6.23	7.13	8.35	10.20	12.00

Table 6-4. Hourly wage percentiles for establishment jobs, 1 full-time workers: 2 Selected occupations, all industries, National Compensation Survey, Grand Rapids-Muskegon-Holland, MI, April 2002 — Continued

Occupation ³	10	25	Median 50	75	90
Service –Continued Food service –Continued Other food service –Continued Food preparation, n.e.c. Health service Cleaning and building service Janitors and cleaners Personal service	\$5.27 8.75 9.50 10.44 –	\$6.23 9.28 11.00 13.24	\$8.31 11.01 13.97 15.06	\$8.35 11.97 15.34 15.34 –	\$8.35 12.40 18.45 16.19

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 32th 50th 75th and 00th proportiles follow the same logic Hourth. 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

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

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

Table 6-5. Hourly wage percentiles for establishment jobs, 1 part-time workers: 2 Selected occupations, all industries, National Compensation Survey, Grand Rapids-Muskegon-Holland, MI, April 2002

Occupation ³	10	25	Median 50	75	90
All	\$2.89	\$7.00	\$9.08	\$11.23	\$22.04
All excluding sales	2.89	6.64	9.11	11.90	22.71
White collar	8.63	9.52	11.23	21.00	28.83
White collar excluding sales	9.32	10.41	12.07	22.27	28.97
Professional specialty and technical	10.00	14.21	22.71	28.83	36.16
Professional specialty	10.00	21.00	22.93	28.97	36.67
Mathematical and computer scientists	_	_	_	_	_
Health related	21.00	22.71	22.93	28.83	31.25
Registered nurses	21.00	22.27	22.76	24.74	28.97
Teachers, except college and university	10.00	10.00	10.00	12.00	30.63
Social, recreation, and religious workers	_	_			_
Technical	10.05	10.44	14.21	15.10	22.04
Sales	7.42	8.55	8.63	9.52	9.52
Cashiers	7.42	7.42	8.55	9.52	9.52
Administrative support, including clerical	9.18	9.33	10.75	12.07	13.50
General office clerks	10.41	10.49	10.49	10.96	10.96
Blue collar	5.91	6.64	7.76	9.11	9.65
Precision production, craft, and repair	-	-	-	-	-
Machine operators, assemblers, and inspectors	7.50	7.78	9.00	9.11	9.11
Transportation and material moving	-	-	-	-	-
Handlers, equipment cleaners, helpers, and laborers	5.82	5.91	6.64	7.76	9.00
Service	2.89	2.89	4.17	8.08	9.36
Protective service	8.25	9.08	9.08	12.09	12.09
Food service	2.65	2.89	2.89	7.11	9.20
Waiters, waitresses, and bartenders	2.65	2.89	2.89	2.94	4.17
Other food service	5.15	7.11	7.86	9.20	11.20
Food preparation, n.e.c.	5.15	5.15	8.00	9.20	11.98
Health service	J.13 -	3.13	0.00	3.20	11.90
Cleaning and building service	_	_	_	_	_
0 0	- 7.47	7.50	7.50	8.39	10.76
Personal service Early childhood teachers' assistants	7.47 7.47	7.50	7.50	10.11	11.47
Early childhood teachers assistants	1.41	7.50	7.50	10.11	11.47

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 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.

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

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.

another firm, where a 40-hour week is the minimum full-time schedule.

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

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 Grand Rapids–Muskegon–Holland, MI, Metropolitan Statistical Area includes Allegan, Kent, Muskegon, and Ottawa 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 twostage stratified design with probability proportional to employment sampling at each stage. The first stage of sample selection was a probability sample of establishments. The sample of establishments was drawn by first stratifying the sampling frame by industry and ownership. The number of sample establishments allocated to each stratum is approximately proportional to the stratum employment. Each sampled establishment is selected within a stratum with a probability proportional to its employment. Use of this technique means that the larger an establishment's employment, the greater its chance of selection. Weights were applied to each establishment when the data were tabulated so that it represents similar units (by industry and employment size) in the economy that were not selected for collection. The second stage of sample selection, detailed below, was a probability sample of occupations within a sampled establishment.

Data collection

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

Occupational selection and classification

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

- 1. Probability-proportional-to-size selection of establishment jobs
- Classification of jobs into occupations based on the Census of Population system
- 3. Characterization of jobs as full-time v. part-time, union v. nonunion, and time v. incentive
- 4. Determination of the level of work of each job

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

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

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

The number of jobs for which data were collected in each establishment was based on the establishment's employment size, as shown in the following schedule:

Number	Number
of employees	of selected jobs
50–99	8
100-249	10
250-999	12
1,000-2,499	16
2,500+	20

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

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

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

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

In step three, certain other job characteristics of the chosen worker were identified. First, the worker was identified as holding either a full-time or part-time job, based on the establishment's definition of those terms. Then, the worker was classified as having a time versus incentive job, depending on whether any part of pay was directly based on the actual production of the worker, rather than solely

on hours worked. Finally, the worker was identified as being in a union job or a nonunion job. See the "Definition of terms" section on the following page for more detail.

Occupational leveling

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

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

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

Each factor contains a number of levels, and each level has an associated written description and point value. The number and range of points differ among the factors. For each factor, an occupation was assigned a level based on the written description that best matched the job. Within each occupation, the points for nine factors (supervisory duties was excluded) were recorded and totaled. The total determines the overall level of the occupation. A description of the levels for each factor is shown in appendix C.

Tabulations of levels of work for occupations in the survey follow the Federal Government's white-collar General Schedule. Point ranges for each of the 15 levels are shown in appendix D. It also includes an example of a job with its associated leveling factors, and a guide to help data users evaluate jobs in their firms

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

Collection period

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

Earnings

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

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

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

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

To calculate earnings for various periods (hourly, weekly, and annual), data on work schedules also were collected. For hourly workers, scheduled hours worked per day and per week, exclusive of overtime, were recorded. Annual weeks worked were determined. Because salaried workers, exempt from overtime provisions, often work beyond the assigned work schedule, their typical number of hours actually worked was collected.

Definition of terms

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

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

Level. A ranking of an occupation based on the requirements of the position. (See the description in the technical note on occupational leveling through point factor analysis for more details on the leveling process.)

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

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

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

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

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

Processing and analyzing the data

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

Weighting and nonresponse

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

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

Survey response

	Establish
	ments
Total in sampling frame	1,652
Total in sample	229
Responding	134
Out of business or not in survey scope	16
Unable or refused to provide data	79

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

Estimation

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

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

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

Percentiles

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

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

at the 10th percentile, 10 percent of a published 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 earlier NCS bulletins for this area (in the 3090 and 3095 bulletin series) were calculated from individual-worker earnings rather than from average wages for sampled establishment jobs. Research has shown that using average-wage data for jobs instead of individual-worker data has the effect of moving percentile estimates toward the median (50th percentile). This effect is greatest for occupations with a high degree of wage dispersion. However, medians calculated using the two methods are nearly identical.

Data reliability

The data in this bulletin are estimates from a scientifically selected probability sample. There are two types of errors possible in an estimate based on a sample survey, sampling and nonsampling.

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

A measure of the variation among these differing estimates is called the standard error or sampling error. It indicates the precision with which an estimate from a particular sample approximates the average result of all possible samples. The relative standard error (RSE) is the standard error divided by the estimate. RSE data are provided alongside the earnings data in the bulletin tables.

The standard error can be used to calculate a "confidence interval" around a sample estimate. As an example, suppose a table shows that mean hourly earnings for all workers were \$12.79, with a relative standard error of 3.6 percent for this estimate. At the 90-percent level, the confidence interval for the estimate is \$13.55 to \$12.03 (1.645 times 3.6 percent times \$12.79 = \$0.76, plus or minus \$12.79). If all possible samples were selected to estimate the population value, the interval from each sample would include the true population value approximately 90 percent of the time

Nonsampling errors also affect survey results. They can stem from many sources, such as inability to obtain information for some establishments, difficulties with survey definitions, inability of the respondents to provide correct information, or mistakes in recording or coding the data obtained. 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.

 $\label{eq:Appendix} \mbox{Appendix table 1. Number of workers1 represented by the survey, by occupational group,2 National Compensation Survey, Grand Rapids-Muskegon-Holland, MI, April 2002$

	Full-time and part-time workers					
Occupational group	Total	Private industry	State and local government			
All occupations	275,300 261,100	233,200 218,900	42,200 42,200			
White collar	103,800 89,500	76,700 62,400	27,100 27,100			
Professional specialty and technical	44,900 35,200 9,700 11,900 14,300	28,600 19,800 8,800 9,000 14,300	16,300 15,400 900 2,900			
Administrative support, including clerical	32,700	24,800	7,900			
Blue collar	125,300 32,700 57,400 16,700 18,500	121,300 30,800 57,400 15,400 17,700	4,000 1,800 - 1,300 900			
Service	46,300	35,200	11,100			

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

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

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