

# National Compensation Survey: Occupational Wages in the United States, 1998

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September 2000

Bulletin 2529

# Preface

The National Compensation Survey (NCS) provides comprehensive measures of occupational earnings, compensation cost trends, benefit incidence, and detailed benefit provisions. It integrates three Bureau of Labor Statistics (BLS) programs—the Occupational Compensation Survey, the Employment Cost Index, and the Employee Benefits Survey. The Occupational Compensation Survey provided data on occupational earnings; the Employment Cost Index measures changes in labor costs, as well as average hourly employer costs for employee compensation; and the Employee Benefits Survey provides information on benefit incidence and detailed benefit provisions. This bulletin, a product of the first phase of the NCS, focuses on occupational earnings.

The NCS replaced the Occupational Compensation Survey. The major difference between these two surveys is that the Occupational Compensation Survey used the same preselected list of occupations for all localities in which data are collected. The NCS uses a probability-based sample of establishments and occupations that is intended to represent more fully the employment patterns and occupational mix of each locality.

This bulletin presents aggregate pay data from the 1998 local area NCS. Data for more than one-half of the 154 individual NCS localities were published previously. This bulletin provides estimates of occupational pay for the Nation, as well as 9 census divisions, metropolitan and nonmetropolitan areas, and the 10 largest metropolitan areas.

For additional information regarding this survey, please contact the information staff in the BLS National Office at (202) 691-6199. 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 send E-mail to [OCLTINFO@bls.gov](mailto:OCLTINFO@bls.gov).

The BLS Office of Compensation and Working Conditions developed and produced this bulletin. The Directorate of Survey Processing coordinated the data file formation and tabulations. Field economists from the BLS regional offices, under the direction of the Assistant Regional Commissioners for Operations, collected the survey data. BLS thanks all survey respondents for their cooperation, without which this bulletin would not have been possible.

The data contained in this bulletin also are available at the BLS Internet site (<https://www.bls.gov/ocs/#data>). 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 database or spreadsheet, and a Portable Document Format (PDF) containing the entire bulletin.

Supplemental tables that are not included in this bulletin also are available at the BLS Internet site. These tables provide distributions of hourly earnings at the 10th, 25th, 50th (median), 75th, and 90th percentile positions for selected occupations. Earnings data are available for all workers, private industry, and State and local government. Further detail for full- and part-time workers is also provided.

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# Overview

This is the second annual issue of the National Compensation Survey (NCS) bulletin. It provides straight-time hourly occupational earnings data for all private industry and State and local government workers in the United States<sup>1</sup> in 1998. The NCS is designed to provide comprehensive measures of occupational earnings, compensation cost trends, benefit incidence, and detailed benefit provisions; occupational average hourly earnings data are the focus for this publication.

Occupations surveyed for this bulletin were selected from a list of occupations provided by each establishment, using probability techniques. This bulletin includes data on broad occupational classifications such as white- and blue-collar

workers, major occupational groups such as sales occupations and professional specialty and technical occupations, and individual occupations such as cashiers and teachers. The classification of company jobs into the NCS classification system required detailed procedures that are described in Appendix A.

Discussion of the earnings data presented in this bulletin has been divided into four chapters:

- Chapter 1—United States, private industry, State and local government
- Chapter 2—Worker characteristics
- Chapter 3—Establishment characteristics
- Chapter 4—Geographic areas

<sup>1</sup> See Appendix A for details on the industrial scope of the survey.

# Chapter 1.

## United States, private industry, State and local government

**T**able 1-1 provides an overview of straight-time hourly wages and salaries paid to employees working in the United States. Data are presented by sector of the economy, private industry versus State and local government. Table 1-2 concentrates on State and local government earnings. These tables are divided into three sections: worker characteristics, establishment characteristics, and geographic areas. Chapters 2 through 4 provide more detailed information about each of these sections.

In 1998, workers in the United States earned an average of \$15.72 per hour. White-collar occupations earned an average of \$19.39 per hour, blue-collar occupations earned \$12.90, and service occupations earned \$9.52. Earnings in private industry (averaging \$14.95 per hour) were lower than in State and local governments (averaging \$18.59 per hour). This difference can be explained by differences in the occupation and industry composition of the two sectors. White-collar and service occupations are more prevalent in State and local government than in private industry. Service occupations in State and local government are unique in that they are primarily made up of police and firefighters. With the exception of the construction industry, few government workers are in goods-producing industries.

When occupational earnings are compared by sector of the economy, the difference is greatest for employees in service occupations, who earned \$13.84 an hour in State and local government and \$7.85 in the private sector. Although white-collar workers in State and local government earned

more, on average, than did their counterparts in the private sector (\$20.96 and \$18.83, respectively), only one group of occupations within this broad occupational category showed higher average earnings in State and local government than in private industry: workers in professional specialty and technical occupations earned \$24.85 an hour in State and local government, while their private industry counterparts earned \$23.63. This difference can be explained, at least in part, by the influence of teachers, the majority of whom are State and local government employees with a tendency to have higher hourly earnings than their private sector counterparts.

Employees in executive, administrative, and managerial occupations and in sales occupations earned more in the private sector than in State and local government. The greatest difference between the two sectors was observed for workers in executive, administrative, and managerial occupations, who averaged \$28.63 an hour in private industry, compared with \$24.99 in State and local government. Earnings of workers in administrative support occupations were virtually the same: \$12.00 in the private sector, and \$12.01 in State and local government.

Pay in State and local government also was higher, on average, for blue-collar workers, who earned \$14.44 an hour, compared with \$12.77 for their counterparts in private industry. Machine operators, assemblers, and inspectors and handlers, equipment cleaners, helpers, and laborers earned more in State and local government than in private industry.

**Table 1-1. Summary, United States: Mean hourly earnings<sup>1</sup> and weekly hours by selected characteristics, private industry and State and local government, National Compensation Survey,<sup>2</sup> 1998**

Worker and establishment characteristics and geographic areas	Total			Private industry			State and local government		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>3</sup> (percent)		Mean	Relative error <sup>3</sup> (percent)		Mean	Relative error <sup>3</sup> (percent)	
<b>Total</b> .....	\$15.72	0.5	36.5	\$14.95	0.6	36.5	\$18.59	0.6	36.6
<b>Worker characteristics:<sup>4</sup></b>									
White-collar occupations <sup>5</sup> .....	19.39	.5	36.7	18.83	.7	36.8	20.96	.5	36.4
Professional specialty and technical ...	24.10	.6	36.4	23.63	.8	36.7	24.85	.6	35.9
Executive, administrative, and managerial .....	27.78	.7	40.0	28.63	.9	40.5	24.99	1.1	38.6
Sales .....	13.28	3.6	33.0	13.29	3.6	33.0	12.10	4.8	32.2
Administrative support .....	12.00	.5	37.0	12.00	.6	37.3	12.01	.7	36.3
Blue-collar occupations <sup>5</sup> .....	12.90	.6	38.5	12.77	.7	38.6	14.44	1.1	37.5
Precision production, craft, and repair	16.58	1.0	39.8	16.60	1.1	39.8	16.39	1.5	39.8
Machine operators, assemblers, and inspectors .....	11.59	.9	39.6	11.58	.9	39.6	13.50	6.6	38.3
Transportation and material moving ...	13.72	1.1	37.9	13.77	1.2	38.9	13.52	1.7	33.8
Handlers, equipment cleaners, helpers, and laborers .....	9.69	.7	35.9	9.52	.7	35.7	11.84	2.0	38.4
Service occupations <sup>5</sup> .....	9.52	.7	33.0	7.85	.6	31.8	13.84	1.3	36.7
Full time .....	16.40	.5	39.6	15.69	.6	39.8	18.97	.7	38.9
Part time .....	9.25	1.0	21.1	8.66	1.0	21.4	12.94	2.2	19.3
Union .....	17.76	.9	36.9	15.81	1.3	37.0	20.44	.7	36.7
Nonunion .....	15.10	.6	36.4	14.77	.7	36.4	17.01	.9	36.4
Time .....	15.66	.5	36.4	14.84	.6	36.4	18.59	.6	36.6
Incentive .....	17.14	2.7	38.6	17.14	2.7	38.6	-	-	-
<b>Establishment characteristics:</b>									
Goods producing .....	( <sup>6</sup> )	( <sup>6</sup> )	( <sup>6</sup> )	16.00	.8	39.8	( <sup>6</sup> )	( <sup>6</sup> )	( <sup>6</sup> )
Service producing .....	( <sup>6</sup> )	( <sup>6</sup> )	( <sup>6</sup> )	14.40	.7	35.0	( <sup>6</sup> )	( <sup>6</sup> )	( <sup>6</sup> )
50-99 workers <sup>7</sup> .....	13.04	1.1	35.2	12.96	1.2	35.1	14.40	3.6	36.0
100-499 workers .....	14.21	.7	36.3	13.82	.8	36.4	17.59	1.3	35.6
500-999 workers .....	16.45	1.4	37.3	15.82	1.6	37.7	18.83	1.7	35.7
1,000-2,499 workers .....	16.51	7.3	36.8	15.81	9.3	37.1	18.65	2.0	35.9
2,500 workers or more .....	20.07	.6	37.3	21.05	1.1	37.0	19.27	.7	37.5
<b>Geographic areas:<sup>8</sup></b>									
Metropolitan .....	16.40	.6	36.4	15.67	.7	36.3	19.23	.6	36.6
Nonmetropolitan .....	12.31	1.2	37.1	11.16	1.3	37.2	15.90	1.8	36.6
New England .....	17.38	1.4	35.1	16.50	1.7	35.0	21.35	1.3	35.5
Middle Atlantic .....	18.10	1.5	35.8	17.14	1.8	35.8	21.72	1.6	35.5
East North Central .....	16.08	.8	36.2	15.44	.9	36.3	19.32	1.5	35.7
West North Central .....	14.85	1.6	36.5	14.05	1.9	36.3	17.87	1.2	37.0
South Atlantic .....	14.40	1.0	37.1	13.82	1.1	36.9	16.22	1.4	38.0
East South Central .....	11.87	2.3	37.7	11.21	2.6	37.9	15.93	2.2	36.8
West South Central .....	14.62	1.8	37.2	14.27	2.3	36.9	15.63	1.2	38.0
Mountain .....	14.58	2.7	36.4	13.30	2.9	36.4	18.32	2.9	36.4
Pacific .....	17.86	1.3	36.2	16.82	1.7	36.4	21.26	1.0	35.5

<sup>1</sup> 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.

<sup>2</sup> This survey covers all 50 States. Collection was conducted between July 1997 and April 1999. The average reference period was August 1998.

<sup>3</sup> 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.

<sup>4</sup> Employees are classified as working either a full-time or a part-time schedule based on the definition used by each establishment. Union workers are those whose wages are determined through collective bargaining. Wages of time workers are based solely on hourly rate or salary; incentive workers are those whose wages

are at least partially based on productivity payments such as piece rates, commissions, and production bonuses.

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

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

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

<sup>8</sup> Data are presented for metropolitan and nonmetropolitan area divisions as well as 9 census area divisions. See appendix E for a list of survey areas and States comprising the 9 census area divisions.

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

Table 1-2. State and local government: Mean hourly earnings,<sup>1</sup> and weekly hours by selected characteristics, National Compensation Survey,<sup>2</sup> 1998

Worker and establishment characteristics and geographic areas	State and local government			State government			Local government		
	Hourly earnings		Weekly hours	Hourly earnings		Weekly hours	Hourly earnings		Weekly hours
	Mean	Relative error <sup>3</sup> (percent)		Mean	Relative error <sup>3</sup> (percent)		Mean	Relative error <sup>3</sup> (percent)	
<b>Total</b> .....	\$18.59	0.6	36.6	\$17.89	1.2	38.7	\$18.87	0.6	35.8
<b>Worker characteristics:<sup>4</sup></b>									
White-collar occupations <sup>5</sup> .....	20.96	.5	36.4	19.65	.9	38.5	21.54	.6	35.5
Professional specialty and technical .....	24.85	.6	35.9	22.85	1.0	38.2	25.61	.7	35.0
Executive, administrative, and managerial .....	24.99	1.1	38.6	23.43	1.5	39.4	26.13	1.6	38.0
Sales .....	12.10	4.8	32.2	13.29	4.1	34.5	11.34	8.0	30.9
Administrative support .....	12.01	.7	36.3	12.22	.9	38.6	11.91	.9	35.4
Blue-collar occupations <sup>5</sup> .....	14.44	1.1	37.5	13.69	1.6	39.0	14.63	1.3	37.1
Precision production, craft, and repair .....	16.39	1.5	39.8	14.52	2.1	39.8	17.19	1.6	39.7
Machine operators, assemblers, and inspectors .....	13.50	6.6	38.3	11.59	8.5	38.4	14.06	7.8	38.3
Transportation and material moving .....	13.52	1.7	33.8	14.27	3.0	39.1	13.44	1.8	33.4
Handlers, equipment cleaners, helpers, and laborers .....	11.84	2.0	38.4	10.60	3.4	36.5	12.10	2.3	38.8
Service occupations <sup>5</sup> .....	13.84	1.3	36.7	13.53	2.3	39.0	13.95	1.5	35.9
Full time .....	18.97	.7	38.9	17.90	1.2	39.7	19.42	.7	38.5
Part time .....	12.94	2.2	19.3	17.58	3.4	19.9	12.28	2.7	19.3
Union .....	20.44	.7	36.7	17.97	1.3	38.5	21.29	.8	36.1
Nonunion .....	17.01	.9	36.4	17.84	1.8	38.8	16.63	.9	35.4
<b>Establishment characteristics:<sup>6</sup></b>									
50-99 workers <sup>6</sup> .....	14.40	3.6	36.0	13.30	5.3	38.3	14.57	3.8	35.6
100-499 workers .....	17.59	1.3	35.6	15.71	3.5	37.5	17.81	1.3	35.4
500-999 workers .....	18.83	1.7	35.7	16.14	3.1	38.3	19.37	1.7	35.3
1,000-2,499 workers .....	18.65	2.0	35.9	16.11	5.0	38.5	19.40	1.8	35.1
2,500 workers or more .....	19.27	.7	37.5	18.76	1.0	38.9	19.64	.9	36.5
<b>Geographic areas:<sup>7</sup></b>									
Metropolitan .....	19.23	.6	36.6	18.38	.9	38.7	19.57	.6	35.8
Nonmetropolitan .....	15.90	1.8	36.6	15.78	4.1	38.8	15.95	1.5	35.8
New England .....	21.35	1.3	35.5	20.78	1.8	37.0	21.71	1.7	34.7
Middle Atlantic .....	21.72	1.6	35.5	20.39	3.0	38.9	22.14	1.7	34.6
East North Central .....	19.32	1.5	35.7	18.43	2.1	38.6	19.60	1.8	34.9
West North Central .....	17.87	1.2	37.0	17.78	2.5	39.1	17.93	1.2	35.6
South Atlantic .....	16.22	1.4	38.0	15.69	3.0	39.9	16.49	1.0	37.0
East South Central .....	15.93	2.2	36.8	15.71	3.3	38.1	15.99	2.6	36.4
West South Central .....	15.63	1.2	38.0	15.39	2.6	38.5	15.72	1.1	37.8
Mountain .....	18.32	2.9	36.4	20.52	5.1	38.6	17.48	2.4	35.7
Pacific .....	21.26	1.0	35.5	19.72	1.9	37.2	21.80	1.2	34.9

<sup>1</sup> 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.

<sup>2</sup> This survey covers all 50 States. Collection was conducted between July 1997 and April 1999. The average reference period was August 1998.

<sup>3</sup> 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.

<sup>4</sup> 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.

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

<sup>6</sup> Establishments classified with 50-99 workers may contain establishments with fewer than 50 due to staff reductions between survey sampling and collection.

<sup>7</sup> Data are presented for metropolitan and nonmetropolitan area divisions as well as 9 census area divisions. See appendix E for a list of survey areas and States comprising the 9 census area divisions.



# Chapter 2.

## Worker characteristics

Chapter 2 presents earnings data for occupational groups and for selected occupations. Tables 2-1, 2-2, and 2-3 compare full- and part-time earnings for the Nation, as well as for private industry and State and local government. Table 2-4 shows pay by level of work for selected occupations.<sup>2</sup> This chapter also provides data by bargaining status (union versus nonunion) and time versus incentive pay status.

The NCS classifies workers into one of 480 occupations based on duties and responsibilities. These occupations are aggregated first into 11 major occupational groups (MOG's), and then into three broad occupational categories: white-collar occupations, blue-collar occupations, and service occupations. Only nine MOG's are used in the NCS.<sup>3</sup>

White-collar occupations are classified into the following MOG's:

- Professional specialty and technical occupations
- Executive, administrative, and managerial occupations
- Sales occupations
- Administrative support occupations, including clerical

Blue-collar occupations are classified into the following MOG's:

- Precision production, craft, and repair occupations
- Machine operators, assemblers, and inspectors
- Transportation and material moving occupations
- Handlers, equipment cleaners, helpers, and laborers

Service occupations are grouped into one MOG: Service occupations, except private household. However, the following occupational groups are included:

- Protective service occupations
- Food service occupations
- Health service occupations
- Cleaning and building service occupations
- Personal service occupations

### Earnings by occupational group and detailed occupation

White-collar pay, which averaged \$19.39, was higher than

pay for the other broad occupational groups, regardless of sector of the economy; pay for white-collar excluding sales<sup>4</sup> occupations was even higher, \$20.27. At \$12.90, blue-collar workers' earnings were, on average, more than \$6 an hour below white-collar pay. Employees in service occupations received the lowest pay, \$9.52 an hour.

*White-collar pay.* Pay varied considerably within the white-collar category; earnings averaged the most for executive, administrative, and managerial occupations (\$27.78 an hour) and the least for administrative support occupations (\$12.00 an hour).

Within the executive, administrative, and managerial category, executives, administrators, and managers had the highest average pay, \$31.73 an hour. Some of the most highly compensated occupations included chief executives and general administrators, public administration (\$60.36 an hour), and managers, marketing, advertising, and public relations (\$35.26 an hour). Average hourly earnings ranging from \$25 to \$34 were not uncommon for executives, administrators, and managers.

While employees in executive, administrative, and managerial occupations averaged the highest per-hour earnings, some of the highest paid individual occupations were found in the professional specialty and technical group. For example, airplane pilots and navigators had the highest earnings of all occupations (\$79.22, on average, per hour); agriculture and forestry teachers had earnings exceeding \$40 per hour. Hourly earnings of law teachers averaged \$58.19. Substitute teachers' earnings, however, averaged \$10 an hour, among the lowest within the white-collar group.

The average earnings for employees in professional specialty and technical occupations were \$24.10 an hour. Professional specialty occupations had the second highest earnings, \$25.90 an hour, on average. Earnings in technical occupations averaged \$17.83 an hour. They ranged from \$12.17 an hour for health record technologists and technicians to \$79.22 an hour for airline pilots and navigators, the largest spread for any occupational group.

Employees in sales occupations earned \$13.28, on average; their earnings ranged from \$7.78 per hour for news vendors to \$37.13 for employees in securities and financial services sales. Workers in such occupations as sales counter

<sup>2</sup> See Appendixes A, C, and D for more information on techniques used to derive the level of work.

<sup>3</sup> Excluded in the NCS are MOG's I and J, which include agricultural occupations and the Federal Government workforce.

<sup>4</sup> A separate category was created for white-collar occupations excluding sales because of the volatility of incentive earnings in sales occupations.

clerks, cashiers, and apparel sales had average earnings of around \$8 (\$8.15, \$7.80, and \$8.28, respectively). On the opposite end of the spectrum, employees in real estate sales had earnings of \$35.63 per hour, and sales engineers earned \$27.46.

Administrative support and clerical occupations showed the lowest average hourly earnings of all white-collar occupations, \$12.00. On the lower end of this major occupational group, hotel clerks earned an average of \$8.58 an hour. Several other occupations, including bank tellers, messengers, and file clerks, had earnings below or slightly above \$9 an hour. Earnings in many of the remaining occupations tended to fall between \$10 and \$13.

*Blue-collar pay.* Blue-collar workers averaged \$12.90 an hour; the differences in pay between occupational groups that make up the blue-collar category tended to be smaller than those between white-collar occupations. Precision production, craft, and repair occupations had the highest average earnings, \$16.58 an hour, while handlers, equipment cleaners, helpers, and laborers, had the lowest, \$9.69.

Earnings of workers in precision production, craft, and repair occupations ranged from \$8.98 for precious stones and metal workers to \$24.12 for carpet installers. A few supervisory occupations within this group had earnings in excess of \$20 per hour; in addition, a few nonsupervisory occupations earned above \$21 per hour—for example, aircraft engine mechanics (\$21.79) and power plant operators (\$22.02).

Earnings of machine operators, assemblers, and inspectors averaged \$11.59 an hour, ranging from \$7.44 an hour for laundering and drying machine operators to \$15.83 an hour for separating, filtering, and clarifying machine operators. Earnings below \$10 an hour were not uncommon in this occupational group, although the majority of occupations had hourly earnings of between \$10 and \$13.

Pay of transportation and material moving occupations, which averaged \$13.72, showed considerable variation, from \$27.74 an hour for locomotive operating occupations to \$7.04 for parking lot attendants. In addition to this latter occupation, only a few other occupations, such as motor transportation, not elsewhere classified, and taxicab drivers and chauffeurs had average earnings of less than \$10 an hour.

Hourly earnings of handlers, equipment cleaners, helpers, and laborers averaged \$9.69, ranging from \$7.31 per hour, on average, for nursery workers to \$18.83 for stevedores. Earnings below \$10 an hour were not uncommon in this major occupational group.

*Pay for service occupations.* Those employed in service occupations tended to have lower average hourly earnings than did white-collar and blue-collar workers; earnings for workers in service occupations averaged \$9.52 an hour. With the exception of protective service occupations, with earnings averaging \$14.36 an hour, all other occupational

groups had earnings below \$10. Food service occupations had average hourly earnings of \$6.76 an hour; health service occupations showed earnings of \$8.77 an hour. The only two occupations with earnings exceeding \$20 an hour were supervisors, police and detectives (\$24.14 an hour) and public transportation attendants (\$25.24 an hour). Workers in these two occupations are employed almost exclusively in State and local government.

### **Pay by full- and part-time status**

Earnings were higher for full-time than for part-time workers, averaging \$16.40 per hour versus \$9.25. NCS classifies workers as full-time or part-time based on the employer's classification of the occupation. The difference in earnings between full-time and part-time workers was the greatest among white-collar workers, in particular in the executive, administrative, and managerial category, where earnings of full-time employees averaged \$27.83 per hour, while those of their part-time counterparts averaged \$20.62.

There was a significant difference in pay of full- and part-time employees in blue-collar occupations, \$13.17 versus \$8.00. A significant difference also was observed among precision production, craft, and repair occupations, in which full-time private industry employees averaged \$16.61 an hour, and part-time employees averaged \$11.84. For service occupations, the difference was greater in State and local government, where full-time workers averaged \$14.33 an hour and their part-time counterparts averaged \$8.65. The difference for service employees in private industry was smaller, with full-time workers averaging \$8.37 an hour, while their counterparts employed on a part-time basis averaged \$6.34. Full-time employees in protective occupations in State and local government had the highest average hourly earnings (\$17.48) among the five categories of service occupations, while part-time protective service employees in State and local government averaged \$9.53.

### **Pay by work level**

A factor evaluation is conducted on all occupations selected during the collection process to determine the work level; this evaluation involves the analysis of 10 leveling factors. This "generic leveling" process ranks and compares all of the occupations that are randomly selected in an establishment, using the same criteria throughout. When an occupation is leveled, it is slotted into 1 of the 15 work levels that follow the Federal Government's white-collar General Schedule. (For a broader discussion on generic leveling, see Appendixes A, C, and D).

Within the overall *white-collar* occupational group, earnings data are presented for all 15 work levels, with average hourly earnings ranging from \$6.85 for level 1 workers to \$64.13 for level 15. Lower level file clerks, general clerks, and messengers are the types of occupations that would fit into work level 1, whereas work level 15 includes such occupations as high level professional engineers and lawyers.

Employees who have received a bachelor's degree but

have little professional experience usually fill entry-level positions (level 5) within professional occupations. Fully qualified professional employees—those who can perform complex tasks with few guidelines and minimal supervision—normally are classified at level 11. Table 2-4 shows, for example, that entry-level (level 5) engineers, architects, and surveyors averaged \$18.16 an hour in 1998, while their “expert” (level 15) counterparts averaged \$47.43.

*Blue-collar occupation work levels also are determined using the generic leveling technique.* Bus, truck, and stationary engine mechanics performing at the journey level (level 7) averaged \$17.55 per hour. Semiskilled workers who operate and control machines commonly filled jobs at levels 3, 4, and 5. Within the transportation and material moving group, truck drivers often were found to operate at work level 4 or 5; their average hourly earnings were \$14.14 and \$15.45 at levels 4 and 5, respectively. Many of the employees in the handlers, equipment cleaners, helpers, and laborers category were primarily unskilled workers requiring little or no previous experience. They were concentrated in the three lowest work levels, where average earnings ranged from \$7.76 (level 1) to \$10.92 (level 3).

Although each of the categories for *service workers* had eight or more work levels, most of the workers, protective service workers excepted, were concentrated in work levels 1 through 4. Overall average hourly earnings for protective service workers (\$14.36) were roughly equal to the average for work level 6. Work level 3 average hourly earnings for employees in food service, health service, and personal service occupations were \$6.71, \$8.43, and \$8.08, respectively. The overall occupational average earnings (as distinct from work level averages) were \$6.76, \$8.77, and \$9.27 for workers in these three job groups. Work level 2 average hourly earnings for cleaning and building service workers were \$8.62; this compared with \$9.03 for all cleaning and building service workers.

### **Pay by bargaining status**

Union workers’ wages averaged \$17.76 an hour, compared

with \$15.10 for nonunion workers, as shown in table 2-5. The difference was greater in State and local government, where union wages averaged \$20.44 and nonunion wages averaged \$17.01, than in private industry, where they averaged \$15.81 and \$14.77, respectively. Among all workers, the difference was the greatest for service occupations, in which union workers earned \$14.02 per hour and their nonunion counterparts earned \$8.14. The difference for blue-collar occupations was \$4.42, with union wages averaging \$15.81, and nonunion wages averaging \$11.39. White-collar occupations showed a smaller difference; union wages averaged \$21.85, whereas nonunion wages averaged \$18.91. In fact, in the white-collar category, two major occupational groups showed higher wages for nonunion than for union workers. Union wages in sales occupations were \$11.12, whereas nonunion wages were \$13.48. Similarly, for executive, administrative, and managerial occupations, union wages averaged \$23.58, while nonunion wages averaged \$28.13.

### **Pay for time and incentive workers in private industry**

Incentive workers, whose wages are based at least partially on productivity payments such as piece rates, commissions, and production bonuses, earned an average of \$17.14 per hour. Time workers, whose wages are based solely on an hourly rate or salary, averaged \$14.84. Incentive workers in white-collar occupations averaged \$21.44, compared with \$18.70 for time-paid workers. The difference in average hourly rates for incentive- and time-paid employees was greatest in sales occupations; pay averaged \$21.27 and \$11.07, respectively. Incentive- and time-paid employees in administrative support, including clerical occupations, on the other hand, had almost identical earnings—\$12.10 and \$12.00 an hour, respectively. Among blue-collar workers, incentive workers earned \$13.25 an hour on average, while time-paid workers earned \$12.74. Time-paid workers in service occupations earned \$7.83 per hour, compared with \$9.37 for incentive workers.

Table 2-1. **United States, selected occupations: Mean hourly earnings<sup>1</sup> and weekly hours for full-time and part-time workers,<sup>2</sup> National Compensation Survey,<sup>3</sup> 1998**

Occupation <sup>4</sup>	Total			Full time			Part time		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)	
<b>All</b> .....	\$15.72	0.5	36.5	\$16.40	0.5	39.6	\$9.25	1.0	21.1
All excluding sales .....	15.89	.5	36.8	16.47	.5	39.6	9.67	1.1	21.0
<b>White collar</b> .....	19.39	.5	36.7	20.09	.5	39.4	11.86	1.3	20.9
White collar excluding sales .....	20.27	.5	37.3	20.65	.5	39.4	14.55	1.4	20.7
<b>Professional specialty and technical</b> .....	24.10	.6	36.4	24.43	.6	38.9	19.78	1.4	19.4
Professional specialty .....	25.90	.5	36.3	26.20	.5	38.9	21.69	1.5	18.8
Engineers, architects, and surveyors .....	28.97	.7	40.3	28.97	.7	40.4	27.67	8.2	23.2
Architects .....	25.85	5.7	40.1	25.83	5.8	40.5	—	—	—
Aerospace engineers .....	30.96	2.5	40.1	30.96	2.5	40.1	—	—	—
Metallurgical and materials engineers .....	27.28	5.0	40.2	27.28	5.0	40.2	—	—	—
Mining engineers .....	32.66	7.6	33.3	30.49	5.7	41.4	—	—	—
Petroleum engineers .....	43.02	4.4	40.5	43.02	4.4	40.5	—	—	—
Chemical engineers .....	33.37	2.2	40.0	33.37	2.2	40.0	—	—	—
Nuclear engineers .....	34.60	2.1	40.6	34.60	2.1	40.6	—	—	—
Civil engineers .....	27.69	2.3	40.1	27.69	2.3	40.2	—	—	—
Electrical and electronic engineers .....	30.35	1.1	40.3	30.37	1.1	40.4	—	—	—
Industrial engineers .....	25.26	2.4	40.6	25.26	2.4	40.6	—	—	—
Mechanical engineers .....	26.26	1.2	40.2	26.28	1.3	40.4	—	—	—
Marine engineers and naval architects .....	30.54	5.7	41.3	30.54	5.7	41.3	—	—	—
Engineers, n.e.c. ....	30.11	1.2	40.3	30.10	1.2	40.4	32.46	5.6	24.2
Surveyors and mapping scientists .....	21.13	4.9	40.1	21.23	5.0	40.4	—	—	—
Mathematical and computer scientists .....	27.95	1.5	40.0	27.86	1.5	40.1	42.33	28.9	28.8
Computer systems analysts and scientists .....	27.89	1.3	40.1	27.90	1.3	40.1	25.37	7.6	25.7
Operations and systems researchers and analysts .....	28.56	6.8	39.6	27.92	6.9	40.0	51.40	27.4	30.7
Actuaries .....	27.38	9.2	39.4	27.38	9.2	39.4	—	—	—
Statisticians .....	23.77	8.4	38.0	23.83	8.5	38.2	—	—	—
Mathematical scientists, n.e.c. ....	24.88	8.2	38.8	24.88	8.2	38.8	—	—	—
Natural scientists .....	25.48	1.7	39.6	25.45	1.7	40.0	28.39	9.2	20.5
Physicists and astronomers .....	37.74	7.7	40.4	37.74	7.7	40.4	—	—	—
Chemists, except biochemists .....	28.62	3.4	40.0	28.69	3.5	40.1	—	—	—
Atmospheric and space scientists .....	22.91	15.0	41.3	22.91	15.0	41.3	—	—	—
Geologists and geodesists .....	30.68	6.3	40.4	30.68	6.3	40.4	—	—	—
Physical scientists, n.e.c. ....	26.56	2.4	39.9	26.56	2.4	39.9	—	—	—
Agricultural and food scientists .....	22.48	8.5	39.6	22.13	8.8	39.9	—	—	—
Biological and life scientists .....	21.66	7.3	39.2	21.55	7.3	39.8	—	—	—
Forestry and conservation scientists .....	20.34	3.5	40.1	20.34	3.5	40.1	—	—	—
Medical scientists .....	23.14	4.8	38.6	22.97	4.9	39.7	29.60	10.6	18.5
Health related .....	22.56	1.0	34.2	22.49	1.2	39.5	22.84	1.4	21.2
Physicians .....	38.55	5.4	39.6	37.20	5.8	43.2	55.99	5.2	19.0
Dentists .....	34.36	8.6	29.4	34.90	11.4	39.6	33.02	8.1	17.8
Optometrists .....	38.60	6.1	37.7	38.14	7.7	39.9	—	—	—
Health diagnosing practitioners, n.e.c. ....	19.82	12.7	33.9	—	—	—	—	—	—
Registered nurses .....	20.86	.7	33.5	20.71	.7	39.1	21.48	1.3	21.3
Pharmacists .....	27.35	1.9	34.8	27.87	1.2	40.0	24.97	6.4	21.8
Dietitians .....	16.70	1.8	36.9	16.54	2.0	39.7	18.36	3.1	20.8
Respiratory therapists .....	17.76	1.6	34.4	17.84	1.6	39.4	17.37	3.4	21.3
Occupational therapists .....	23.08	2.9	34.1	22.68	3.4	39.2	25.48	5.2	19.3
Physical therapists .....	23.92	2.3	34.4	23.48	2.2	39.5	25.66	8.9	22.6
Speech therapists .....	23.46	6.6	33.8	23.26	7.4	38.1	25.05	4.4	18.1
Therapists, n.e.c. ....	16.51	3.1	37.0	16.31	3.0	39.3	18.36	12.3	23.8
Physicians' assistants .....	26.36	4.1	38.3	26.75	4.1	39.6	—	—	—
Teachers, college and university .....	33.82	1.5	34.1	34.19	1.5	39.3	29.31	5.2	13.3
Earth, environmental, and marine science teachers .....	33.84	10.4	36.5	33.78	10.6	37.5	—	—	—
Biological science teachers .....	33.80	8.1	36.5	33.53	8.3	39.8	40.53	20.0	11.8
Chemistry teachers .....	31.61	7.3	40.4	31.67	7.5	41.7	—	—	—
Physics teachers .....	47.49	7.0	37.1	47.49	7.0	37.2	—	—	—
Natural science teachers, n.e.c. ....	38.48	6.3	38.8	38.54	6.3	38.9	—	—	—
Psychology teachers .....	32.26	6.4	33.5	32.91	6.9	39.4	20.62	9.5	9.1
Economics teachers .....	46.28	11.2	43.1	46.28	11.2	43.1	—	—	—
History teachers .....	32.36	5.4	36.6	32.62	5.6	39.8	24.56	14.1	10.6
Political science teachers .....	33.60	6.2	37.2	33.44	6.2	39.1	—	—	—

See footnotes at end of table.

Table 2-1. **United States, selected occupations: Mean hourly earnings<sup>1</sup> and weekly hours for full-time and part-time workers,<sup>2</sup> National Compensation Survey,<sup>3</sup> 1998–Continued**

Occupation <sup>4</sup>	Total			Full time			Part time		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)	
<b>White collar –Continued</b>									
<b>Professional specialty and technical –Continued</b>									
Professional specialty –Continued									
Teachers, college and university –Continued									
Sociology teachers .....	\$36.75	8.3	34.6	\$37.33	8.2	38.9	–	–	–
Social science teachers, n.e.c. ....	32.95	7.2	37.3	33.15	7.4	39.2	\$20.20	29.1	9.1
Engineering teachers .....	38.51	12.0	37.5	38.55	12.6	40.0	37.80	18.0	17.3
Mathematical science teachers .....	33.59	6.2	33.3	34.25	6.6	38.8	25.52	9.1	12.2
Computer science teachers .....	25.48	11.3	30.5	30.11	8.4	37.9	20.42	2.2	25.1
Medical science teachers .....	44.51	5.8	38.9	42.17	6.5	43.7	68.22	7.3	18.3
Health specialties teachers .....	33.96	7.5	36.8	34.29	7.5	38.7	21.69	10.9	12.8
Business, commerce, and marketing teachers ..	35.50	6.5	34.8	35.91	7.0	39.4	24.26	8.5	8.4
Agriculture and forestry teachers .....	42.82	26.4	35.5	42.82	26.4	35.5	–	–	–
Art, drama, and music teachers .....	29.29	2.9	31.9	29.76	3.4	39.0	26.05	7.8	14.1
Physical education teachers .....	25.28	8.7	33.4	25.29	9.2	39.8	24.99	14.4	8.6
Education teachers .....	31.19	9.1	35.1	31.77	9.3	40.4	19.09	10.4	9.5
English teachers .....	32.60	4.8	33.1	32.90	5.0	38.0	27.32	6.8	10.1
Foreign language teachers .....	26.29	13.4	33.2	26.62	15.8	40.9	24.38	15.5	15.9
Law teachers .....	58.19	8.2	35.9	60.32	8.1	39.0	–	–	–
Social work teachers .....	25.91	7.4	32.7	26.45	7.2	40.5	–	–	–
Theology teachers .....	35.46	4.2	39.1	35.11	4.2	39.3	–	–	–
Trade and industrial teachers .....	27.22	3.3	32.4	27.59	3.2	38.0	21.81	8.5	10.2
Home economics teachers .....	29.92	14.9	30.4	–	–	–	–	–	–
Teachers, post secondary, subject not specified	33.48	7.2	32.1	34.30	7.6	39.0	22.41	7.4	9.4
Teachers, post secondary, n.e.c. ....	31.26	1.9	31.5	31.72	2.0	38.4	27.26	5.6	12.1
Teachers, except college and university .....	26.82	.8	34.6	27.27	.8	36.7	16.82	3.3	15.3
Prekindergarten and kindergarten .....	21.09	3.9	35.1	21.43	4.0	37.2	15.41	13.3	18.4
Elementary school teachers .....	27.72	.9	36.1	27.75	.9	36.5	25.34	7.9	18.8
Secondary school teachers .....	27.86	1.2	36.7	27.84	1.2	37.0	29.05	6.0	22.2
Teachers, special education .....	28.18	1.9	35.5	28.26	1.9	35.9	23.86	16.6	21.8
Teachers, n.e.c. ....	26.51	2.6	30.8	27.40	2.8	36.3	18.02	7.1	12.5
Substitute teachers .....	10.00	3.5	16.1	10.90	9.6	33.6	9.84	3.8	14.7
Vocational and educational counselors .....	24.78	3.8	36.5	24.90	3.9	37.7	21.88	11.8	20.5
Librarians, archivists, and curators .....	21.39	2.2	36.5	21.69	2.2	38.4	17.25	5.1	21.8
Librarians .....	21.53	2.3	36.5	21.86	2.3	38.3	17.28	5.3	22.6
Archivists and curators .....	20.33	7.7	37.1	20.43	7.9	39.2	–	–	–
Social scientists and urban planners .....	23.65	3.0	36.7	23.83	3.1	39.0	20.74	8.2	18.5
Economists .....	25.93	3.8	39.8	25.93	3.8	39.8	–	–	–
Psychologists .....	23.81	5.0	34.6	24.19	5.2	38.3	20.77	8.4	19.4
Sociologists .....	17.54	3.2	39.3	17.54	3.2	39.3	–	–	–
Social scientists, n.e.c. ....	16.66	10.9	37.7	16.56	11.1	39.3	–	–	–
Urban planners .....	22.08	3.5	36.8	22.12	3.5	39.5	–	–	–
Social, recreation, and religious workers .....	15.87	1.3	37.6	15.92	1.3	39.2	14.88	3.6	19.7
Social workers .....	16.06	1.3	37.8	16.08	1.4	39.1	15.72	3.9	21.0
Recreation workers .....	13.11	3.7	33.4	13.39	3.9	39.2	10.88	9.4	15.3
Clergy .....	15.21	15.8	42.2	15.25	17.0	46.1	14.71	10.1	19.8
Religious workers, n.e.c. ....	20.55	15.8	36.6	20.63	16.1	39.7	17.24	22.5	8.3
Lawyers and judges .....	36.62	2.4	40.0	36.87	2.5	41.7	27.03	10.6	15.8
Lawyers .....	36.30	2.6	40.3	36.52	2.6	41.8	27.44	11.5	16.7
Judges .....	42.18	7.0	34.7	43.27	6.4	39.6	23.83	25.6	11.3
Writers, authors, entertainers, athletes, and professionals, n.e.c. ....	23.92	3.8	36.4	24.48	3.9	39.8	16.16	7.7	16.5
Technical writers .....	21.50	6.8	38.9	21.66	7.0	40.0	17.32	14.0	22.9
Designers .....	22.27	3.9	39.7	22.49	3.9	40.3	12.78	14.6	24.6
Musicians and composers .....	36.96	20.4	15.4	39.48	27.1	30.3	33.69	31.2	9.4
Actors and directors .....	33.29	21.2	34.5	37.17	20.7	40.4	13.53	28.0	19.9
Painters, sculptors, craft artists, and artist printmakers .....	25.94	23.5	39.6	26.19	23.7	40.2	–	–	–
Photographers .....	17.11	7.1	38.9	16.94	7.2	40.0	–	–	–
Artists, performers, and related workers, n.e.c.	13.30	9.6	27.1	15.59	11.3	38.4	10.91	10.1	20.7
Editors and reporters .....	23.14	4.9	38.7	23.35	4.9	39.4	14.63	13.5	22.7
Public relations specialists .....	20.57	4.9	36.6	20.63	5.2	39.3	19.55	12.8	16.6
Announcers .....	22.52	21.9	25.7	26.98	23.8	40.9	16.04	26.2	16.7

See footnotes at end of table.

Table 2-1. **United States, selected occupations: Mean hourly earnings<sup>1</sup> and weekly hours for full-time and part-time workers,<sup>2</sup> National Compensation Survey,<sup>3</sup> 1998**—Continued

Occupation <sup>4</sup>	Total			Full time			Part time		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)	
<b>White collar</b> —Continued									
<b>Professional specialty and technical</b> —Continued									
Professional specialty—Continued									
Writers, authors, entertainers, athletes, and professionals, n.e.c.—Continued									
Athletes .....	\$33.28	40.1	23.9	\$40.88	43.9	40.7	\$12.11	9.3	11.1
Professional, n.e.c. ....	25.63	3.1	38.9	25.67	3.1	39.8	24.37	16.3	23.9
Technical .....	17.83	1.2	36.8	18.16	1.3	39.1	13.97	1.7	21.5
Clinical laboratory technologists and technicians .....									
Dental hygienists .....	15.39	1.7	37.2	15.41	1.8	39.6	15.12	3.2	20.3
Health record technologists and technicians .....	19.86	8.2	35.7	19.46	9.5	38.5	—	—	—
Radiological technicians .....	12.17	3.6	34.6	12.02	3.9	38.6	13.14	7.4	20.2
Licensed practical nurses .....	16.91	1.7	33.5	16.73	1.6	39.5	17.67	4.4	20.7
Health technologists and technicians, n.e.c. ....	12.98	.9	34.8	12.92	1.0	39.3	13.32	1.8	22.2
Electrical and electronic technicians .....	13.35	1.2	35.0	13.57	1.3	39.8	11.84	2.8	19.3
Industrial engineering technicians .....	18.35	1.8	39.8	18.33	1.8	40.0	19.33	20.5	26.7
Mechanical engineering technicians .....	18.71	4.6	40.3	18.71	4.6	40.3	—	—	—
Engineering technicians, n.e.c. ....	19.24	4.0	40.1	19.29	4.0	40.3	—	—	—
Drafters .....	18.80	1.6	39.3	18.80	1.6	39.8	18.71	5.6	29.4
Surveying and mapping technicians .....	18.71	3.9	39.6	18.84	4.0	40.1	13.12	17.0	25.5
Biological technicians .....	15.92	5.6	39.6	16.04	5.5	39.6	—	—	—
Chemical technicians .....	15.13	4.4	37.1	15.53	4.4	39.8	9.90	6.0	19.9
Science technicians, n.e.c. ....	17.11	2.3	39.7	17.15	2.4	39.9	—	—	—
Airplane pilots and navigators .....	18.18	3.2	38.3	18.06	3.3	39.6	—	—	—
Broadcast equipment operators .....	79.22	9.4	23.6	79.31	9.4	23.6	—	—	—
Computer programmers .....	17.82	11.0	35.7	19.37	10.3	39.5	7.58	6.5	21.7
Tool programmers, numerical control .....	22.06	1.9	39.5	22.12	1.9	39.8	17.34	17.2	25.2
Legal assistants .....	17.32	4.7	40.1	17.32	4.7	40.1	—	—	—
Technical and related, n.e.c. ....	17.19	2.6	39.3	17.29	2.5	39.4	—	—	—
	18.60	1.7	38.4	18.77	1.7	39.7	14.49	4.8	22.3
<b>Executive, administrative, and managerial</b> .....									
Executives, administrators, and managers .....	27.78	.7	40.0	27.83	.7	40.4	20.62	5.4	17.9
Legislators .....	31.73	.9	40.3	31.78	.9	40.7	22.57	8.2	15.5
Chief executives and general administrators, public administration .....	15.09	13.3	13.2	12.98	16.9	33.8	17.90	21.2	7.3
Administrators and officials, public administration .....	60.36	32.1	39.7	60.36	32.1	39.8	—	—	—
Financial managers .....	25.80	1.7	39.1	25.81	1.7	39.7	24.92	18.3	12.7
Personnel and labor relations managers .....	32.82	2.3	40.2	32.85	2.3	40.3	25.37	20.8	21.0
Purchasing managers .....	32.18	3.1	41.1	32.20	3.1	41.2	—	—	—
Managers, marketing, advertising, and public relations .....	28.91	3.4	41.1	28.91	3.4	41.1	—	—	—
Administrators, education and related fields .....	35.26	2.0	40.8	35.29	2.0	40.8	—	—	—
Managers, medicine and health .....	31.96	1.7	39.1	32.08	1.7	39.5	21.79	14.5	19.9
Managers, food servicing and lodging establishments .....	29.33	2.3	39.7	29.30	2.3	40.0	31.63	15.2	23.1
Managers, properties and real estate .....	18.24	3.3	42.7	18.29	3.3	43.1	13.47	9.6	23.5
Funeral directors .....	23.18	8.9	40.5	23.21	8.9	40.6	—	—	—
Managers, service organizations, n.e.c. ....	25.26	14.3	40.3	25.26	14.3	40.3	—	—	—
Managers and administrators, n.e.c. ....	23.33	11.6	39.6	23.33	11.8	40.0	23.35	32.7	24.8
Management related .....	34.38	1.4	41.2	34.39	1.4	41.3	21.99	20.1	17.8
Accountants and auditors .....	21.88	.8	39.6	21.91	.8	39.9	18.30	4.6	22.0
Underwriters .....	20.38	1.8	39.6	20.38	1.9	39.8	20.73	3.3	21.1
Other financial officers .....	25.67	5.0	39.3	25.67	5.0	39.3	—	—	—
Management analysts .....	24.80	3.4	39.8	24.83	3.4	40.0	18.99	5.0	19.2
Personnel, training, and labor relations specialists .....	23.54	2.1	40.0	23.49	2.1	40.1	34.42	15.8	23.6
Purchasing agents and buyers, farm products ..	21.11	2.3	39.7	21.16	2.3	40.0	17.55	9.7	26.0
Buyers, wholesale and retail trade, except farm products .....	18.92	9.5	39.9	18.92	9.5	39.9	—	—	—
Purchasing agents and buyers, n.e.c. ....	23.20	5.8	40.6	23.23	5.8	41.0	—	—	—
Business and promotional agents .....	21.84	2.2	39.9	21.85	2.2	39.9	—	—	—
	17.79	5.7	39.7	17.79	5.7	39.7	—	—	—

See footnotes at end of table.

Table 2-1. **United States, selected occupations: Mean hourly earnings<sup>1</sup> and weekly hours for full-time and part-time workers,<sup>2</sup> National Compensation Survey,<sup>3</sup> 1998**—Continued

Occupation <sup>4</sup>	Total			Full time			Part time		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)	
<b>White collar</b> —Continued									
<b>Executive, administrative, and managerial</b>									
—Continued									
Management related—Continued									
Construction inspectors .....	\$19.97	3.4	39.5	\$19.94	3.4	40.0	—	—	—
Inspectors and compliance officers, except construction .....	19.23	3.5	38.9	19.25	3.5	39.3	—	—	—
Management related, n.e.c. ....	22.31	1.2	39.4	22.37	1.2	39.8	\$16.67	8.5	21.8
<b>Sales</b>									
Supervisors, sales .....	13.28	3.6	33.0	15.26	5.3	40.2	7.12	.9	21.2
Supervisors, sales .....	20.02	4.0	40.6	20.17	4.1	41.2	10.87	18.7	21.3
Insurance sales .....	21.59	14.1	36.0	22.57	14.0	39.0	—	—	—
Real estate sales .....	35.63	18.1	40.3	36.41	17.8	41.2	—	—	—
Securities and financial services sales .....	37.13	9.6	39.9	37.43	9.5	40.1	—	—	—
Advertising and related sales .....	19.62	6.4	38.3	20.05	6.7	39.7	8.72	8.0	20.3
Sales, other business services .....	19.42	5.6	36.7	20.19	5.5	39.5	8.92	8.3	18.7
Sales engineers .....	27.46	4.4	42.3	27.46	4.4	42.3	—	—	—
Sales representatives, mining, manufacturing, and wholesale .....	24.77	3.1	40.9	24.92	3.1	41.1	9.06	23.3	27.0
Sales workers, motor vehicles and boats .....	18.96	3.1	45.0	18.98	3.1	45.0	—	—	—
Sales workers, apparel .....	8.28	4.0	27.1	9.16	4.3	37.9	7.37	4.8	20.8
Sales workers, shoes .....	9.65	6.6	27.9	11.53	7.0	38.5	7.39	4.1	21.0
Sales workers, furniture and home furnishings ..	11.02	11.3	29.7	14.02	8.2	39.6	7.00	7.6	22.2
Sales workers, radio, tv, hi-fi, and appliances ...	10.18	6.3	35.4	10.51	6.7	39.2	7.47	4.6	19.6
Sales workers, hardware and building supplies ..	10.95	5.3	36.9	11.51	6.2	40.0	8.25	2.5	26.7
Sales workers, parts .....	14.38	4.6	38.8	14.85	4.7	40.8	7.66	5.0	22.8
Sales workers, other commodities .....	9.69	2.1	29.9	10.99	2.7	39.4	7.26	1.1	20.6
Sales counter clerks .....	8.15	3.1	28.5	9.26	3.5	39.2	6.78	3.2	21.3
Cashiers .....	7.80	1.3	30.1	8.43	1.6	39.5	6.76	.9	21.6
Street and door-to-door sales workers .....	12.96	11.6	30.0	16.28	10.2	38.3	8.04	10.8	22.8
News vendors .....	7.78	11.7	20.9	—	—	—	6.71	3.9	17.9
Demonstrators, promoters, and models, sales ..	9.69	7.7	22.1	12.37	8.2	39.2	7.34	3.5	15.9
Sales support, n.e.c. ....	12.69	3.1	36.3	13.35	3.1	40.0	8.45	4.8	22.9
<b>Administrative support, including clerical</b>									
Supervisors, general office .....	16.78	1.4	39.6	16.78	1.4	39.6	15.90	8.2	22.6
Supervisors, computer equipment operators .....	20.72	3.5	39.9	20.72	3.5	39.9	—	—	—
Supervisors, financial records processing .....	17.81	1.8	39.5	17.81	1.8	39.6	—	—	—
Chief communications operators .....	16.89	6.5	40.3	16.89	6.5	40.3	—	—	—
Supervisors, distribution, scheduling, and adjusting clerks .....	17.67	3.0	40.1	17.69	3.0	40.3	—	—	—
Computer operators .....	14.08	1.8	39.2	14.14	1.7	39.6	9.49	10.8	22.1
Peripheral equipment operators .....	10.27	3.5	38.3	10.25	3.5	39.4	—	—	—
Secretaries .....	13.39	.7	38.2	13.49	.7	39.2	11.18	2.6	24.2
Stenographers .....	14.15	2.6	36.0	14.27	2.7	39.0	12.90	8.8	20.4
Typists .....	11.91	1.4	37.1	12.01	1.5	38.7	10.31	3.2	22.7
Interviewers .....	9.86	1.8	33.9	10.10	2.0	39.2	8.88	4.0	22.0
Hotel clerks .....	8.58	3.5	36.8	8.73	3.6	39.5	6.99	2.8	22.0
Transportation ticket and reservation agents .....	11.69	9.9	36.0	11.93	9.7	39.9	10.38	10.9	23.7
Receptionists .....	9.22	1.1	35.3	9.43	1.3	39.5	8.08	2.1	22.2
Information clerks, n.e.c. ....	11.77	3.2	36.4	11.76	2.1	39.6	11.84	17.1	25.4
Classified ad clerks .....	10.38	12.9	35.2	10.58	14.9	38.4	—	—	—
Correspondence clerks .....	11.94	3.3	38.0	12.02	3.2	39.6	10.14	12.5	20.6
Order clerks .....	11.94	2.2	37.6	12.30	2.4	39.7	8.43	3.0	24.9
Personnel clerks, except payroll and timekeeping .....	12.71	1.8	38.0	12.85	1.8	39.6	9.88	3.4	21.2
Library clerks .....	10.48	1.9	30.0	10.99	2.5	38.1	9.05	2.9	18.8
File clerks .....	9.08	1.6	35.5	9.21	1.8	39.2	8.16	4.4	21.3
Records clerks, n.e.c. ....	11.07	1.2	37.8	11.16	1.3	39.4	9.75	4.0	22.9
Bookkeepers, accounting and auditing clerks ...	11.74	.8	38.4	11.86	.7	39.4	9.03	4.2	24.1
Payroll and timekeeping clerks .....	12.62	1.8	38.2	12.79	1.7	39.7	8.60	10.0	20.4
Billing clerks .....	11.00	1.5	38.5	11.06	1.5	39.7	9.62	3.4	22.3
Cost and rate clerks .....	11.76	6.8	39.7	11.76	6.8	39.7	—	—	—

See footnotes at end of table.

Table 2-1. **United States, selected occupations: Mean hourly earnings<sup>1</sup> and weekly hours for full-time and part-time workers,<sup>2</sup> National Compensation Survey,<sup>3</sup> 1998**—Continued

Occupation <sup>4</sup>	Total			Full time			Part time		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)	
<b>White collar</b> —Continued									
<b>Administrative support, including clerical</b> —Continued									
Billing, posting, and calculating machine operators .....	\$10.15	5.1	33.2	\$10.81	5.9	39.6	\$8.32	3.9	22.9
Duplicating machine operators .....	9.52	2.4	36.1	9.79	2.7	39.4	8.23	2.4	25.7
Mail preparing and paper handling machine operators .....	9.36	5.0	35.6	9.59	5.1	39.4	7.63	6.5	20.5
Office machine operators, n.e.c. ....	8.71	4.6	36.5	8.87	5.3	39.4	7.67	3.3	24.8
Telephone operators .....	11.48	3.5	36.2	11.82	3.6	39.1	8.37	3.1	21.8
Communications equipment operators, n.e.c. ....	10.41	3.9	33.6	10.67	2.9	39.4	8.83	9.5	17.7
Mail clerks, except postal service .....	9.10	3.0	36.1	9.46	3.6	39.3	7.50	3.7	26.3
Messengers .....	8.92	6.8	36.3	9.05	7.8	39.1	7.96	6.3	24.4
Dispatchers .....	12.92	3.7	38.3	13.08	3.5	40.2	9.80	9.5	20.1
Production coordinators .....	14.69	1.8	38.9	14.81	1.8	40.0	7.90	8.6	15.1
Traffic, shipping and receiving clerks .....	11.50	3.0	37.8	11.63	3.2	39.8	—	—	—
Stock and inventory clerks .....	11.27	1.5	36.2	11.65	1.4	39.8	7.99	3.0	20.4
Meter readers .....	15.08	3.9	39.5	15.16	4.0	40.0	—	—	—
Weighers, measurers, checkers, and samplers	12.73	5.7	36.3	12.94	5.9	40.0	10.10	13.1	16.5
Expeditors .....	13.12	3.0	38.0	13.42	3.5	39.8	11.76	7.8	31.7
Material recording, scheduling, and distribution clerks, n.e.c. ....	11.79	3.3	37.5	12.17	3.3	39.9	7.50	5.1	22.7
Insurance adjusters, examiners, and investigators .....	14.96	2.9	39.0	14.98	2.9	39.1	10.44	5.3	25.7
Investigators and adjusters, except insurance ...	12.61	2.6	38.3	12.75	2.7	39.8	10.10	4.6	22.8
Eligibility clerks, social welfare .....	13.02	2.1	38.4	13.08	2.1	38.9	10.35	5.0	24.5
Bill and account collectors .....	11.65	2.7	38.5	11.77	2.7	39.8	8.73	4.3	21.4
General office clerks .....	11.25	.8	36.7	11.50	.8	39.4	8.67	2.2	21.7
Bank tellers .....	8.97	1.4	32.2	9.14	1.6	39.5	8.43	1.6	20.4
Proofreaders .....	12.53	13.2	38.1	12.75	13.1	39.8	—	—	—
Data entry keyers .....	10.04	1.4	37.6	10.19	1.5	39.5	8.50	3.0	25.6
Statistical clerks .....	11.56	3.9	37.2	11.67	4.0	39.2	9.32	5.1	17.9
Teachers' aides .....	9.52	1.8	30.6	9.21	1.6	35.5	10.40	4.0	21.7
Administrative support, n.e.c. ....	12.06	1.7	36.6	12.37	1.8	39.4	9.15	3.2	22.0
<b>Blue collar</b> .....	12.90	.6	38.5	13.17	.7	40.1	8.00	1.3	22.1
<b>Precision production, craft, and repair</b> .....	16.58	1.0	39.8	16.61	1.0	40.0	11.84	9.9	23.4
Supervisors, mechanics and repairers .....	21.96	1.7	40.7	21.97	1.7	40.7	—	—	—
Automobile mechanics .....	17.25	2.7	40.5	17.25	2.7	40.5	—	—	—
Automobile mechanic apprentices .....	10.43	6.0	39.8	10.47	6.1	40.2	—	—	—
Bus, truck, and stationary engine mechanics ....	15.45	1.9	40.2	15.44	1.9	40.2	—	—	—
Aircraft engine mechanics .....	21.79	3.2	40.0	21.80	3.2	40.0	—	—	—
Small engine repairs .....	12.25	6.1	35.9	12.66	5.9	39.9	—	—	—
Automobile body and related repairers .....	16.55	5.1	40.8	16.55	5.1	40.8	—	—	—
Aircraft mechanics, except engine .....	19.28	2.4	40.0	19.28	2.4	40.0	—	—	—
Heavy equipment mechanics .....	17.28	3.1	40.0	17.30	3.1	40.1	—	—	—
Farm equipment mechanics .....	14.58	10.6	40.0	14.58	10.6	40.0	—	—	—
Industrial machinery repairers .....	16.58	1.9	39.9	16.57	1.9	39.9	—	—	—
Machinery maintenance .....	13.51	2.6	39.8	13.52	2.6	39.9	9.47	6.2	21.9
Electronic repairers, communications and industrial equipment .....	17.57	3.6	39.4	17.70	3.6	40.0	11.72	19.8	23.7
Data processing equipment repairers .....	16.57	3.3	37.8	16.26	1.9	40.0	—	—	—
Household appliance and power tool repairers	16.77	6.1	38.3	16.97	6.1	40.0	—	—	—
Telephone line installers and repairers .....	19.28	3.0	39.6	19.28	3.0	39.9	—	—	—
Telephone installers and repairers .....	18.00	1.8	39.9	18.00	1.8	39.9	—	—	—
Heating, air conditioning, and refrigeration mechanics .....	16.16	2.3	39.7	15.90	1.9	40.0	—	—	—
Camera, watch, and musical instrument repairers .....	16.47	14.1	40.0	16.47	14.1	40.0	—	—	—
Locksmiths and safe repairers .....	17.30	4.8	40.0	17.30	4.8	40.0	—	—	—
Office machine repairers .....	16.09	5.0	40.0	16.09	5.0	40.0	—	—	—
Mechanical controls and valve repairers .....	18.11	4.0	39.5	18.22	4.0	40.0	—	—	—

See footnotes at end of table.



Table 2-1. **United States, selected occupations: Mean hourly earnings<sup>1</sup> and weekly hours for full-time and part-time workers,<sup>2</sup> National Compensation Survey,<sup>3</sup> 1998**—Continued

Occupation <sup>4</sup>	Total			Full time			Part time		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)	
<b>Blue collar</b> —Continued									
<b>Precision production, craft, and repair</b> —Continued									
Elevator installers and repairers .....	\$19.27	23.4	40.0	\$19.27	23.4	40.0	—	—	—
Millwrights .....	19.06	5.5	40.1	19.06	5.5	40.1	—	—	—
Mechanics and repairers, n.e.c. ....	15.62	1.4	39.7	15.67	1.4	39.9	\$10.32	10.8	23.4
Supervisors, brickmasons, stonemasons, and tilesetters .....	18.44	5.3	40.0	18.44	5.3	40.0	—	—	—
Supervisors, carpenters and related workers ....	21.04	5.8	40.3	21.04	5.8	40.3	—	—	—
Supervisors, electricians and power transmission installers .....	22.78	4.8	40.0	22.78	4.8	40.0	—	—	—
Supervisors, painters, paperhangers, and plasterers .....	18.30	2.3	40.4	18.30	2.3	40.4	—	—	—
Supervisors, plumbers, pipefitters, and steamfitters .....	23.27	6.6	40.1	23.27	6.6	40.1	—	—	—
Supervisors, construction trades, n.e.c. ....	18.58	3.1	40.3	18.57	3.1	40.4	—	—	—
Brickmasons and stonemasons .....	16.56	5.5	40.0	16.56	5.5	40.0	—	—	—
Brickmason and stonemason apprentices .....	12.73	9.6	40.0	12.73	9.6	40.0	—	—	—
Carpet installers .....	24.12	4.9	39.0	24.12	4.9	39.0	—	—	—
Carpenters .....	17.04	2.1	39.6	17.08	2.1	39.8	12.55	13.2	24.8
Carpenter apprentices .....	12.47	3.6	40.0	12.47	3.6	40.0	—	—	—
Drywall installers .....	15.46	2.3	39.8	15.46	2.3	40.0	—	—	—
Electricians .....	18.91	1.9	39.9	18.90	1.9	40.0	—	—	—
Electrician apprentices .....	13.27	6.3	40.0	13.27	6.3	40.0	—	—	—
Electrical power installers and repairers .....	21.47	2.7	40.0	21.47	2.7	40.0	—	—	—
Painters, construction and maintenance .....	15.60	5.7	39.4	15.62	5.7	39.5	—	—	—
Plasterers .....	18.61	16.4	40.0	18.61	16.4	40.0	—	—	—
Plumbers, pipefitters and steamfitters .....	20.08	2.0	39.9	20.08	2.0	39.9	—	—	—
Plumber, pipefitter, and steamfitter apprentices	14.33	4.4	39.9	14.33	4.4	39.9	—	—	—
Concrete and terrazzo finishers .....	14.23	8.3	39.7	14.24	8.6	40.6	—	—	—
Glaziers .....	17.30	6.6	38.9	17.30	6.6	38.9	—	—	—
Insulation workers .....	11.88	6.0	35.2	12.13	6.6	39.9	—	—	—
Paving, surfacing, and tamping equipment operators .....	11.48	12.0	40.0	11.48	12.0	40.0	—	—	—
Roofers .....	13.64	6.2	34.5	13.64	6.2	34.5	—	—	—
Sheetmetal duct installers .....	19.43	8.1	38.8	19.43	8.1	38.8	—	—	—
Structural metal workers .....	16.57	4.6	39.6	16.60	4.8	40.2	—	—	—
Drillers, earth .....	11.49	10.6	40.0	11.49	10.6	40.0	—	—	—
Construction trades, n.e.c. ....	14.76	2.8	39.3	14.76	2.8	39.7	—	—	—
Supervisors, extractive .....	22.05	14.5	41.2	22.96	11.7	42.3	—	—	—
Drillers, oil well .....	17.37	2.6	41.3	17.37	2.6	41.3	—	—	—
Explosives workers .....	15.91	16.0	39.6	15.91	16.0	39.6	—	—	—
Mining machine operators .....	18.63	6.4	40.0	18.63	6.4	40.0	—	—	—
Mining, n.e.c. ....	19.72	3.6	40.1	19.72	3.6	40.1	—	—	—
Supervisors, production .....	19.00	2.6	40.7	19.00	2.6	40.7	—	—	—
Tool and die makers .....	19.72	1.8	40.0	19.72	1.8	40.0	—	—	—
Tool and die maker apprentices .....	14.33	4.9	40.0	14.33	4.9	40.0	—	—	—
Precision assemblers, metal .....	16.19	3.0	40.0	16.19	3.0	40.0	—	—	—
Machinists .....	17.12	1.1	40.0	17.12	1.1	40.0	—	—	—
Machinist apprentices .....	12.63	4.9	40.0	12.63	4.9	40.0	—	—	—
Boilermakers .....	18.28	5.2	39.9	18.28	5.2	39.9	—	—	—
Precision grinders, filers, and tool sharpeners ...	14.90	4.7	40.1	14.90	4.7	40.1	—	—	—
Patternmakers and modelmakers, metal .....	18.21	5.7	40.0	18.21	5.7	40.0	—	—	—
Layout workers .....	14.87	4.9	40.0	14.87	4.9	40.0	—	—	—
Precious stones and metals workers .....	8.98	8.8	39.3	8.98	8.8	39.3	—	—	—
Engravers, metal .....	15.41	22.7	39.2	15.26	23.3	39.8	—	—	—
Sheet metal workers .....	16.76	5.1	40.0	16.76	5.1	40.0	—	—	—
Sheet metal worker apprentices .....	13.39	7.0	37.1	13.39	7.0	37.1	—	—	—
Cabinet makers and bench carpenters .....	11.20	4.7	39.7	11.20	4.7	39.7	—	—	—
Furniture and wood finishers .....	11.68	2.5	40.0	11.68	2.5	40.0	—	—	—
Tailors .....	11.86	3.4	39.5	11.86	3.4	39.5	—	—	—
Upholsterers .....	12.57	9.3	39.6	12.57	9.3	39.6	—	—	—
Hand molders and shapers, except jewelers .....	16.34	3.1	40.2	16.34	3.1	40.2	—	—	—
Patternmakers, layout workers, and cutters .....	19.77	7.8	39.9	20.05	7.7	39.9	—	—	—

See footnotes at end of table.

Table 2-1. **United States, selected occupations: Mean hourly earnings<sup>1</sup> and weekly hours for full-time and part-time workers,<sup>2</sup> National Compensation Survey,<sup>3</sup> 1998**—Continued

Occupation <sup>4</sup>	Total			Full time			Part time		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)	
<b>Blue collar</b> —Continued									
<b>Precision production, craft, and repair</b> —Continued									
Optical goods workers .....	\$11.00	12.8	39.7	\$11.00	12.8	39.7	—	—	—
Dental laboratory and medical appliance technicians .....	14.47	10.8	39.5	14.47	10.8	39.5	—	—	—
Bookbinders .....	13.57	6.1	39.4	13.57	6.1	39.4	—	—	—
Electrical and electronic equipment assemblers .....	9.78	3.0	39.8	9.81	3.0	40.0	\$6.97	6.7	25.3
Miscellaneous precision workers, n.e.c. ....	15.51	5.4	39.8	15.53	5.4	39.9	—	—	—
Precision food production .....	10.90	7.3	40.0	10.90	7.3	40.0	—	—	—
Butchers and meat cutters .....	10.20	3.5	38.5	10.30	3.7	39.6	—	—	—
Bakers .....	9.82	4.9	36.7	10.00	5.3	39.6	8.26	9.5	22.9
Food batchmakers .....	10.48	5.2	38.7	10.46	5.1	39.8	—	—	—
Inspectors, testers, and graders .....	16.37	2.2	40.2	16.40	2.2	40.3	—	—	—
Precision inspectors, testers, and related workers, n.e.c. ....	19.04	6.6	40.0	19.04	6.6	40.0	—	—	—
Adjusters and calibrators .....	13.36	14.1	39.6	13.34	14.2	40.0	—	—	—
Water and sewer treatment plant operators .....	15.53	2.8	39.4	15.69	2.7	40.0	—	—	—
Power plant operators .....	22.02	1.9	39.7	22.02	1.9	39.7	—	—	—
Stationary engineers .....	19.02	3.1	39.5	19.01	3.1	39.8	—	—	—
Miscellaneous plant and system operators, n.e.c. ....	21.34	2.2	40.1	21.34	2.2	40.1	—	—	—
<b>Machine operators, assemblers, and inspectors</b> .....	11.59	.9	39.6	11.65	.9	39.9	7.47	2.0	23.0
Lathe and turning machine set-up operators .....	14.03	2.6	40.0	14.03	2.6	40.0	—	—	—
Lathe and turning machine operators .....	12.83	6.3	39.9	12.83	6.3	39.9	—	—	—
Milling and planing machine operators .....	13.38	6.9	40.0	13.38	6.9	40.0	—	—	—
Punching and stamping press operators .....	12.08	3.0	39.8	12.10	3.0	40.0	—	—	—
Rolling machine operators .....	13.46	6.1	40.3	13.46	6.1	40.3	—	—	—
Drilling and boring machine operators .....	11.39	12.2	40.0	11.39	12.2	40.0	—	—	—
Grinding, abrading, buffing, and polishing machine operators .....	11.58	2.9	39.9	11.59	2.9	40.0	—	—	—
Forging machine operators .....	12.86	4.5	39.9	12.86	4.5	39.9	—	—	—
Numerical control machine operators .....	13.57	2.1	40.0	13.57	2.1	40.0	—	—	—
Fabricating machine operators, n.e.c. ....	13.29	2.3	40.0	13.29	2.3	40.0	—	—	—
Molding and casting machine operators .....	10.36	2.9	39.8	10.41	2.9	39.9	6.65	8.9	32.9
Metal plating machine operators .....	11.98	3.3	40.0	12.03	3.1	40.3	—	—	—
Heat treating equipment operators .....	13.78	2.4	40.0	13.78	2.4	40.0	—	—	—
Wood lathe, routing, and planing machine operators .....	10.60	11.3	37.1	10.63	11.7	39.7	—	—	—
Sawing machine operators .....	9.14	5.2	39.7	9.14	5.2	40.0	—	—	—
Shaping and jointing machine operators .....	9.73	6.8	39.9	9.73	6.8	39.9	—	—	—
Nailing and tacking machine operators .....	9.91	2.3	40.0	9.91	2.3	40.0	—	—	—
Printing press operators .....	14.64	3.2	39.2	14.69	3.2	39.5	10.03	20.0	22.3
Photoengravers and lithographers .....	15.22	3.0	38.6	15.31	2.9	39.0	—	—	—
Typesetters and compositors .....	13.22	4.7	37.7	13.27	4.9	39.3	12.19	9.1	19.4
Winding and twisting machine operators .....	11.01	7.3	39.9	11.02	7.3	39.9	—	—	—
Knitting, looping, taping, and weaving machine operators .....	10.10	1.9	40.0	10.10	1.9	40.0	—	—	—
Textile cutting machine operators .....	8.94	5.4	40.0	8.94	5.4	40.0	—	—	—
Textile sewing machine operators .....	7.98	2.7	39.7	7.99	2.7	39.9	6.72	7.6	20.3
Shoe machine operators .....	9.11	8.6	39.9	9.11	8.6	39.9	—	—	—
Pressing machine operators .....	7.97	6.3	39.2	7.98	6.4	39.8	—	—	—
Laundering and dry cleaning machine operators .....	7.44	1.7	36.5	7.50	1.8	39.5	6.93	3.8	21.3
Cementing and gluing machine operators .....	9.58	9.5	40.0	9.58	9.5	40.0	—	—	—
Packaging and filling machine operators .....	10.55	4.3	39.4	10.56	4.4	40.0	9.67	5.8	21.2
Extruding and forming machine operators .....	11.28	2.7	39.8	11.28	2.7	39.8	—	—	—
Mixing and blending machine operators .....	13.28	2.8	39.9	13.27	2.8	40.0	—	—	—
Separating, filtering, and clarifying machine operators .....	15.83	3.7	39.8	15.85	3.7	39.9	—	—	—
Compressing and compacting machine operators .....	10.40	2.1	39.5	10.45	2.3	40.0	—	—	—
Painting and paint spraying machine operators .....	12.11	2.9	40.2	12.11	2.9	40.2	—	—	—
Roasting and baking machine operators, food ..	11.61	5.5	39.4	11.61	5.6	40.0	—	—	—

See footnotes at end of table.

Table 2-1. **United States, selected occupations: Mean hourly earnings<sup>1</sup> and weekly hours for full-time and part-time workers,<sup>2</sup> National Compensation Survey,<sup>3</sup> 1998**—Continued

Occupation <sup>4</sup>	Total			Full time			Part time		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)	
<b>Blue collar</b> —Continued									
<b>Machine operators, assemblers, and inspectors</b>									
—Continued									
Washing, cleaning, and pickling machine operators .....	\$10.91	9.4	36.5	\$10.98	9.5	40.2	—	—	—
Folding machine operators .....	11.34	4.0	39.7	11.38	3.9	39.8	—	—	—
Furnace, kiln, and oven operators, except food .....	13.68	4.4	39.9	13.68	4.4	40.0	—	—	—
Crushing and grinding machine operators .....	11.89	5.7	39.9	11.89	5.7	39.9	—	—	—
Slicing and cutting machine operators .....	12.65	3.6	39.9	12.72	3.6	40.0	—	—	—
Motion picture projectionists .....	13.07	9.6	25.9	—	—	—	—	—	—
Photographic process machine operators .....	10.42	2.9	38.0	10.64	2.8	39.9	\$7.51	7.3	23.2
Miscellaneous machine operators, n.e.c. ....	11.97	2.6	39.7	12.00	2.6	39.9	7.62	8.0	26.7
Welders and cutters .....	14.19	1.9	40.0	14.20	1.9	40.0	—	—	—
Solders and braziers .....	9.04	8.3	40.0	9.06	8.4	40.0	—	—	—
Assemblers .....	11.63	2.6	39.3	11.73	2.6	39.9	6.79	2.1	23.1
Hand cutting and trimming .....	9.51	8.9	39.4	9.55	8.9	39.9	—	—	—
Hand molding, casting, and forming .....	12.13	9.9	40.0	12.13	9.9	40.0	—	—	—
Hand painting, coating, and decorating .....	10.21	5.6	38.6	10.22	5.7	40.0	—	—	—
Hand engraving and printing .....	8.91	3.5	40.0	8.91	3.5	40.0	—	—	—
Miscellaneous hand working, n.e.c. ....	9.85	3.3	38.8	9.99	3.5	39.9	5.70	3.4	20.7
Production inspectors, checkers and examiners .....	11.11	2.6	39.8	11.12	2.6	40.0	8.54	7.4	27.3
Production testers .....	11.73	3.4	39.8	11.75	3.4	40.0	—	—	—
Production samplers and weighers .....	13.64	4.5	39.6	13.64	4.5	39.6	—	—	—
Graders and sorters, except agricultural .....	9.19	6.4	39.9	9.21	6.4	40.0	—	—	—
Hand inspectors, n.e.c. ....	9.27	7.5	39.9	9.27	7.5	39.9	—	—	—
<b>Transportation and material moving</b> .....	13.72	1.1	37.9	14.08	1.1	40.9	9.94	2.1	21.3
Supervisors, motor vehicle operators .....	16.46	5.2	41.1	16.57	5.2	41.2	—	—	—
Truck drivers .....	13.93	1.2	41.4	14.04	1.2	42.7	11.11	4.3	22.1
Driver-sales workers .....	14.23	4.2	37.6	15.07	3.5	41.4	6.58	8.9	20.5
Bus drivers .....	12.61	1.6	29.2	13.49	2.1	36.7	11.12	2.0	21.7
Taxicab drivers and chauffeurs .....	8.32	4.5	30.0	8.81	4.9	38.8	7.26	8.5	20.2
Parking lot attendants .....	7.04	4.3	28.2	7.73	5.0	39.9	6.22	4.6	20.9
Motor transportation, n.e.c. ....	8.99	4.6	32.2	9.70	5.6	39.2	6.24	2.1	19.0
Railroad conductors and yardmasters .....	26.78	4.4	40.2	26.78	4.4	40.2	—	—	—
Locomotive operating .....	27.74	8.4	40.7	27.75	8.4	40.7	—	—	—
Railroad brake, signal and switch operators .....	23.30	10.2	40.0	23.30	10.2	40.0	—	—	—
Rail vehicle operators, n.e.c. ....	21.02	4.4	40.0	21.02	4.4	40.0	—	—	—
Ship captains and mates, except fishing boats ..	16.30	3.8	47.6	16.40	3.9	48.6	—	—	—
Sailors and deckhands .....	11.39	8.0	43.3	11.24	7.5	45.6	—	—	—
Bridge, lock and lighthouse tenders .....	11.16	2.1	40.0	—	—	—	—	—	—
Supervisors, material moving equipment .....	18.74	6.2	40.4	18.74	6.2	40.4	—	—	—
Operating engineers .....	17.33	8.1	40.0	17.33	8.1	40.0	—	—	—
Longshore equipment operators .....	26.96	7.6	37.5	—	—	—	—	—	—
Hoist and winch operators .....	12.94	5.5	40.9	12.94	5.5	40.9	—	—	—
Crane and tower operators .....	15.61	3.3	40.1	15.61	3.3	40.1	—	—	—
Excavating and loading machine operators .....	14.17	4.3	40.0	14.17	4.3	40.0	—	—	—
Grader, dozer, and scraper operators .....	13.46	6.4	40.0	13.46	6.4	40.0	—	—	—
Industrial truck and tractor equipment operators .....	12.10	1.8	39.8	12.12	1.8	40.0	10.17	8.2	25.5
Miscellaneous material moving equipment operators, n.e.c. ....	14.33	3.0	37.8	14.59	3.1	39.9	10.14	1.8	20.5
<b>Handlers, equipment cleaners, helpers, and laborers</b> .....	9.69	.7	35.9	10.11	.8	39.8	7.12	1.0	22.2
Nursery workers .....	7.31	3.4	37.9	7.40	3.7	40.1	6.07	3.9	21.7
Supervisors, agriculture-related workers .....	17.49	4.7	39.9	17.55	4.7	40.1	—	—	—
Groundskeepers and gardeners, except farm ...	9.31	5.2	38.4	9.41	5.8	39.8	7.57	3.6	23.8
Animal caretakers, except farm .....	10.22	5.8	38.2	10.39	5.6	39.6	—	—	—
Inspectors, agricultural products .....	7.84	6.1	37.4	8.09	8.8	40.0	—	—	—
Supervisors, handlers, equipment cleaners, and laborers, n.e.c. ....	14.57	2.6	39.8	14.61	2.6	40.2	—	—	—
Helpers, mechanics and repairers .....	11.69	4.4	39.1	11.78	4.4	40.0	8.04	6.6	21.0
Helpers, construction trades .....	10.46	3.8	39.3	10.50	3.8	39.8	8.13	16.1	24.2

See footnotes at end of table.

Table 2-1. **United States, selected occupations: Mean hourly earnings<sup>1</sup> and weekly hours for full-time and part-time workers,<sup>2</sup> National Compensation Survey,<sup>3</sup> 1998**—Continued

Occupation <sup>4</sup>	Total			Full time			Part time		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)	
<b>Blue collar</b> —Continued									
<b>Handlers, equipment cleaners, helpers, and laborers</b> —Continued									
Helpers, extractive .....	\$15.17	11.8	38.7	—	—	—	—	—	—
Construction laborers .....	11.34	2.8	39.4	\$11.46	2.9	39.9	\$7.32	6.5	28.5
Production helpers .....	9.75	3.5	39.0	9.82	3.5	39.8	6.89	3.9	21.6
Garbage collectors .....	12.63	11.7	39.6	12.82	11.6	40.0	—	—	—
Stevedores .....	18.83	3.7	39.2	18.82	3.7	39.3	—	—	—
Stock handlers and baggers .....	8.64	1.4	29.9	9.97	1.7	39.6	6.49	1.2	21.4
Machine feeders and offbearers .....	9.37	2.6	39.3	9.38	2.6	39.8	8.48	10.2	21.7
Freight, stock, and material handlers, n.e.c. ....	10.50	2.0	35.5	10.70	2.4	39.8	9.37	2.1	22.1
Garage and service station related .....	8.25	7.1	34.2	8.57	5.7	38.9	6.93	12.3	22.9
Vehicle washers and equipment cleaners .....	8.86	3.2	37.4	9.01	3.4	40.0	6.93	4.7	20.6
Hand packers and packagers .....	8.49	1.7	37.9	8.63	1.8	39.8	6.96	1.8	24.8
Laborers, except construction, n.e.c. ....	9.57	1.3	37.8	9.81	1.3	39.8	6.90	3.3	24.3
<b>Service</b> .....	9.52	.7	33.0	10.30	.8	39.1	6.61	.7	20.8
Protective service .....	14.36	1.6	38.0	14.89	1.6	40.7	8.16	1.9	21.0
Supervisors, firefighters and fire prevention .....	20.00	2.9	49.2	20.00	2.9	49.3	—	—	—
Supervisors, police and detectives .....	24.14	2.7	40.1	24.14	2.7	40.2	—	—	—
Supervisors, guards .....	15.49	7.1	38.4	15.81	7.1	39.4	8.95	6.2	24.9
Fire inspection and fire prevention .....	18.31	4.8	37.6	18.48	4.8	40.8	—	—	—
Firefighting .....	15.32	2.5	44.5	15.54	2.2	48.7	7.07	9.0	10.6
Police and detectives, public service .....	19.49	1.4	39.5	19.57	1.3	40.0	10.97	13.8	18.1
Sheriffs, bailiffs, and other law enforcement officers .....	15.91	2.6	38.7	16.02	2.7	39.8	12.54	7.5	21.0
Correctional institution officers .....	14.17	4.3	39.8	14.19	4.3	39.9	10.84	14.9	25.3
Crossing guards .....	8.73	4.5	17.3	—	—	—	8.35	4.6	16.8
Guards and police, except public service .....	8.63	1.7	35.1	8.78	1.9	39.4	7.88	1.7	23.2
Protective service, n.e.c. ....	11.51	4.7	29.1	13.02	5.3	39.6	8.05	7.8	18.1
Food service .....	6.76	.7	30.1	7.34	.9	38.5	5.66	.8	21.2
Supervisors, food preparation and service .....	11.45	1.6	38.5	11.82	1.6	40.8	7.55	3.5	24.2
Bartenders .....	6.31	2.6	29.5	6.71	3.4	37.5	5.76	3.1	22.6
Waiters and waitresses .....	4.17	3.4	28.8	4.39	3.3	38.1	3.83	2.6	20.8
Cooks .....	8.67	1.1	34.2	8.97	1.2	38.4	7.39	1.7	23.0
Food counter, fountain, and related .....	6.12	1.3	25.8	6.42	2.4	37.2	5.90	1.3	21.1
Kitchen workers, food preparation .....	7.57	1.2	30.1	8.00	1.6	38.7	6.88	1.3	22.1
Waiters/Waitresses' assistants .....	5.68	2.2	27.7	6.14	3.2	38.0	5.01	2.4	20.1
Food preparation, n.e.c. ....	6.85	1.3	29.8	7.13	2.8	38.6	6.29	1.1	20.6
Health service .....	8.77	.8	33.7	8.89	.9	38.8	8.19	1.2	20.7
Dental assistants .....	10.26	3.7	36.3	10.19	3.9	40.0	—	—	—
Health aides, except nursing .....	9.79	1.4	33.5	10.03	1.6	38.9	8.44	2.7	19.0
Nursing aides, orderlies and attendants .....	8.49	.8	33.7	8.58	1.0	38.8	8.13	1.4	21.2
Cleaning and building service .....	9.03	.9	35.1	9.40	1.0	39.4	6.84	1.1	21.3
Supervisors, cleaning and building service workers .....	11.15	10.4	39.6	11.23	10.8	40.0	7.84	5.3	28.8
Maids and housemen .....	7.52	1.9	34.9	7.59	2.1	38.6	7.07	2.4	21.0
Janitors and cleaners .....	9.09	1.1	34.5	9.55	1.1	39.5	6.77	1.2	21.3
Pest control .....	12.36	8.5	40.0	12.36	8.5	40.0	—	—	—

See footnotes at end of table.

Table 2-1. **United States, selected occupations: Mean hourly earnings<sup>1</sup> and weekly hours for full-time and part-time workers,<sup>2</sup> National Compensation Survey,<sup>3</sup> 1998**—Continued

Occupation <sup>4</sup>	Total			Full time			Part time		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)	
<b>Service</b> —Continued									
Personal service .....	\$9.27	1.8	29.6	\$10.10	2.1	37.0	\$7.10	3.7	19.5
Supervisors, personal service .....	16.56	1.3	38.7	—	—	—	9.42	6.0	22.0
Hairdressers and cosmetologists .....	—	—	—	—	—	—	8.28	5.4	20.6
Attendants, amusement, and recreation facilities .....	6.20	5.1	30.1	6.38	4.8	39.5	5.84	6.0	20.4
Guides .....	9.40	3.5	30.5	10.05	3.8	38.1	7.58	7.1	19.5
Ushers .....	6.55	5.1	19.3	—	—	—	6.21	3.9	16.2
Public transportation attendants .....	25.24	6.1	21.1	26.29	5.6	21.4	14.31	17.2	19.2
Baggage porters and bellhops .....	7.19	6.4	35.6	7.04	7.0	39.4	8.03	7.2	23.3
Welfare service aides .....	7.55	4.9	28.1	8.46	4.0	39.1	6.30	5.9	20.3
Early childhood teachers' assistants .....	8.12	1.8	29.1	8.44	2.2	36.8	7.44	2.9	20.1
Child care workers, n.e.c. ....	8.51	2.3	26.2	8.98	3.8	38.6	7.88	2.9	18.4
Service, n.e.c. ....	7.54	11.2	31.5	7.49	14.0	39.0	7.74	5.4	18.4

<sup>1</sup> 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.

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

<sup>3</sup> This survey covers all 50 States. Collection was conducted between July 1997 and

April 1999. The average reference period was August 1998.

<sup>4</sup> A classification system including about 480 individual occupations is used to cover all workers in the civilian economy. For more information, see appendix B.

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

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

Table 2-2. Private industry, selected occupations: Mean hourly earnings<sup>1</sup> for full-time and part-time workers,<sup>2</sup> National Compensation Survey,<sup>3</sup> 1998

Occupation <sup>4</sup>	Total			Full time			Part time		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)	
All .....	\$14.95	0.6	36.5	\$15.69	0.6	39.8	\$8.66	1.0	21.4
All excluding sales .....	15.10	.6	36.8	15.72	.6	39.8	9.03	1.2	21.4
<b>White collar</b> .....	18.83	.7	36.8	19.65	.7	39.9	11.06	1.5	21.3
White collar excluding sales .....	19.96	.7	37.7	20.36	.7	39.8	14.09	1.7	21.4
<b>Professional specialty and technical</b> .....	23.63	.8	36.7	23.97	.8	39.6	19.67	1.8	19.9
Professional specialty .....	25.80	.8	36.8	26.13	.8	39.9	22.02	1.9	19.5
Engineers, architects, and surveyors .....	29.30	.7	40.4	29.30	.7	40.5	28.65	7.6	22.8
Architects .....	25.69	9.8	40.8	25.65	10.0	41.5	—	—	—
Aerospace engineers .....	30.96	2.5	40.1	30.96	2.5	40.1	—	—	—
Metallurgical and materials engineers .....	28.65	4.4	40.3	28.65	4.4	40.3	—	—	—
Mining engineers .....	32.66	7.6	33.3	30.49	5.7	41.4	—	—	—
Petroleum engineers .....	43.02	4.4	40.5	43.02	4.4	40.5	—	—	—
Chemical engineers .....	33.38	2.2	40.0	33.38	2.2	40.0	—	—	—
Nuclear engineers .....	35.18	1.8	40.6	35.18	1.8	40.6	—	—	—
Civil engineers .....	28.60	3.1	40.7	28.58	3.1	40.8	—	—	—
Electrical and electronic engineers .....	30.48	1.1	40.4	30.50	1.1	40.4	—	—	—
Industrial engineers .....	25.34	2.4	40.6	25.34	2.4	40.6	—	—	—
Mechanical engineers .....	26.30	1.3	40.4	26.32	1.3	40.5	—	—	—
Marine engineers and naval architects .....	32.03	4.5	41.5	32.03	4.5	41.5	—	—	—
Engineers, n.e.c. ....	30.48	1.2	40.3	30.47	1.2	40.4	32.46	5.6	24.2
Surveyors and mapping scientists .....	22.59	7.6	41.5	22.59	7.6	41.5	—	—	—
Mathematical and computer scientists .....	28.64	1.6	40.0	28.54	1.6	40.1	43.33	28.9	29.5
Computer systems analysts and scientists .....	28.68	1.4	40.1	28.69	1.4	40.2	25.23	8.4	27.0
Operations and systems researchers and analysts .....	28.68	6.9	39.6	28.04	6.9	40.0	51.60	27.3	30.8
Actuaries .....	27.38	9.2	39.4	27.38	9.2	39.4	—	—	—
Statisticians .....	24.53	9.2	38.1	24.53	9.2	38.1	—	—	—
Mathematical scientists, n.e.c. ....	28.77	9.9	38.4	28.77	9.9	38.4	—	—	—
Natural scientists .....	28.09	2.1	39.6	28.08	2.1	40.0	29.05	10.6	19.8
Physicists and astronomers .....	41.13	5.1	40.5	41.13	5.1	40.5	—	—	—
Chemists, except biochemists .....	29.23	3.7	40.0	29.30	3.7	40.1	—	—	—
Atmospheric and space scientists .....	22.61	16.0	40.7	22.61	16.0	40.7	—	—	—
Geologists and geodesists .....	32.87	6.6	40.6	32.87	6.6	40.6	—	—	—
Physical scientists, n.e.c. ....	29.54	2.4	40.0	29.54	2.4	40.0	—	—	—
Agricultural and food scientists .....	24.39	8.6	38.9	23.53	9.2	39.8	—	—	—
Biological and life scientists .....	24.58	4.6	39.1	24.41	4.7	40.0	—	—	—
Medical scientists .....	25.03	6.1	37.9	24.93	6.2	39.4	28.54	14.9	15.6
Health related .....	22.72	1.1	33.4	22.69	1.3	39.4	22.83	1.5	20.7
Physicians .....	44.15	6.7	38.0	42.79	7.3	42.4	57.73	4.7	18.7
Dentists .....	34.69	6.8	29.2	—	—	—	—	—	—
Optometrists .....	38.60	6.1	37.7	38.14	7.7	39.9	—	—	—
Health diagnosing practitioners, n.e.c. ....	19.82	12.7	33.9	—	—	—	—	—	—
Registered nurses .....	20.84	.8	32.9	20.70	.9	39.1	21.35	1.3	21.0
Pharmacists .....	27.93	1.1	34.2	28.08	1.1	40.1	27.06	2.9	18.7
Dietitians .....	16.86	1.7	35.9	16.67	2.0	39.8	18.21	3.4	21.0
Respiratory therapists .....	17.86	1.8	34.4	17.83	1.8	39.5	18.03	2.8	20.0
Occupational therapists .....	23.11	3.4	34.1	22.76	4.0	39.3	25.10	5.9	19.5
Physical therapists .....	23.87	2.3	33.9	22.88	2.2	39.6	29.73	4.4	18.3
Speech therapists .....	23.15	3.1	31.9	22.71	3.8	39.5	25.02	5.1	17.6
Therapists, n.e.c. ....	16.07	3.8	36.4	15.98	3.7	39.3	16.81	16.6	22.4
Physicians' assistants .....	26.78	4.5	38.6	26.99	4.5	39.6	—	—	—
Teachers, college and university .....	36.20	2.4	34.1	36.69	2.4	38.7	28.29	9.8	11.8
Biological science teachers .....	36.20	8.2	35.1	35.48	8.6	38.8	—	—	—
Chemistry teachers .....	43.11	16.8	36.0	43.11	16.8	36.0	—	—	—
Physics teachers .....	49.91	6.5	36.9	49.92	6.5	37.0	—	—	—
Natural science teachers, n.e.c. ....	33.25	10.9	35.7	33.48	10.9	36.1	—	—	—
Psychology teachers .....	36.08	7.6	30.4	37.71	7.6	38.5	19.87	13.9	9.9
Economics teachers .....	29.83	9.5	37.6	29.83	9.5	37.6	—	—	—
History teachers .....	30.97	8.6	39.0	31.09	8.6	40.2	—	—	—
Political science teachers .....	35.40	9.9	36.3	35.05	10.1	38.2	—	—	—
Sociology teachers .....	36.11	10.3	25.1	37.65	10.1	34.7	—	—	—
Social science teachers, n.e.c. ....	36.09	6.7	32.9	36.74	6.9	37.9	—	—	—
Engineering teachers .....	37.36	13.2	33.0	36.67	14.4	36.6	44.78	12.1	16.2

See footnotes at end of table.

Table 2-2. Private industry, selected occupations: Mean hourly earnings<sup>1</sup> for full-time and part-time workers,<sup>2</sup> National Compensation Survey,<sup>3</sup> 1998–Continued

Occupation <sup>4</sup>	Total			Full time			Part time		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)	
<b>White collar –Continued</b>									
<b>Professional specialty and technical –Continued</b>									
Professional specialty –Continued									
Teachers, college and university –Continued									
Mathematical science teachers .....	\$35.80	9.3	35.0	\$36.20	9.5	38.0	\$23.03	9.7	10.2
Computer science teachers .....	27.31	9.6	28.7	27.58	10.2	37.5	24.51	19.7	8.3
Medical science teachers .....	46.04	5.1	41.2	45.45	5.4	41.6	56.33	15.0	35.2
Health specialties teachers .....	31.68	6.9	39.5	32.08	6.9	41.9	19.51	3.9	14.4
Business, commerce, and marketing teachers ..	40.60	6.5	30.8	41.61	6.7	37.5	21.19	8.5	6.9
Art, drama, and music teachers .....	29.39	5.3	29.2	29.96	6.9	38.3	27.27	8.8	15.3
Physical education teachers .....	25.66	4.9	37.1	26.00	4.9	38.6	–	–	–
Education teachers .....	30.02	16.5	31.8	30.59	17.2	39.4	19.61	14.3	7.0
English teachers .....	31.74	11.2	32.9	32.16	11.5	37.7	22.27	13.4	8.4
Foreign language teachers .....	31.30	6.9	32.6	32.30	7.3	39.2	21.37	11.4	12.3
Law teachers .....	61.90	8.2	38.0	62.01	8.2	39.0	–	–	–
Social work teachers .....	26.11	8.0	32.0	26.74	7.9	40.5	–	–	–
Theology teachers .....	34.54	8.4	37.3	34.59	8.4	37.8	–	–	–
Trade and industrial teachers .....	19.43	14.0	33.2	18.81	15.2	39.6	25.53	7.1	12.9
Teachers, post secondary, subject not specified	33.41	6.1	33.5	34.11	6.0	37.7	19.09	18.7	10.1
Teachers, post secondary, n.e.c. ....	34.78	7.2	31.9	35.69	7.2	38.1	21.81	10.2	9.7
Teachers, except college and university .....	17.15	1.9	32.0	17.41	2.0	38.3	15.05	4.4	13.7
Prekindergarten and kindergarten .....	10.80	5.0	35.5	11.01	4.6	37.8	8.73	9.4	21.8
Elementary school teachers .....	20.16	2.9	35.4	20.21	3.0	38.0	19.50	6.3	18.2
Secondary school teachers .....	22.53	2.8	36.6	22.57	2.9	38.1	21.27	4.7	18.1
Teachers, special education .....	19.95	4.5	36.1	19.92	4.6	37.4	21.36	25.4	13.0
Teachers, n.e.c. ....	16.62	3.4	24.0	16.95	3.8	39.1	15.73	6.2	11.6
Substitute teachers .....	9.31	7.5	12.3	–	–	–	9.19	7.4	12.1
Vocational and educational counselors .....	15.79	4.2	37.0	15.79	4.3	38.8	15.81	9.2	16.9
Librarians, archivists, and curators .....	21.02	3.8	35.4	21.34	3.9	38.2	15.80	15.1	16.2
Librarians .....	20.47	3.6	35.2	20.78	3.7	37.9	16.00	16.2	17.4
Archivists and curators .....	23.16	12.7	36.5	23.38	13.0	39.2	–	–	–
Social scientists and urban planners .....	23.07	3.7	35.9	23.32	3.7	39.5	20.60	9.9	18.9
Economists .....	26.30	3.9	39.8	26.30	3.9	39.8	–	–	–
Psychologists .....	18.27	4.0	31.5	17.58	4.0	39.0	20.60	10.1	19.0
Social scientists, n.e.c. ....	25.60	5.5	32.6	26.15	5.8	37.6	–	–	–
Social, recreation, and religious workers .....	14.45	1.6	37.0	14.40	1.6	39.4	15.12	4.8	19.9
Social workers .....	14.59	1.7	36.8	14.51	1.7	39.1	15.68	4.7	20.4
Recreation workers .....	11.64	3.8	36.2	11.85	3.6	39.2	8.47	23.2	16.8
Clergy .....	15.23	16.4	43.0	15.22	17.4	46.3	15.38	10.4	20.0
Religious workers, n.e.c. ....	20.55	15.8	36.6	20.63	16.1	39.7	17.24	22.5	8.3
Lawyers and judges .....	41.44	2.6	43.8	41.48	2.6	44.0	–	–	–
Lawyers .....	41.43	2.6	43.8	41.47	2.6	44.0	–	–	–
Writers, authors, entertainers, athletes, and professionals, n.e.c. ....	24.21	4.2	36.7	24.77	4.3	39.8	15.44	9.7	16.4
Technical writers .....	21.50	6.8	38.9	21.66	7.0	40.0	17.32	14.0	22.9
Designers .....	22.40	4.0	39.8	22.61	4.0	40.3	13.03	15.1	25.1
Musicians and composers .....	38.79	20.3	15.2	40.49	27.3	30.0	36.33	30.2	8.9
Actors and directors .....	33.51	21.3	35.0	37.17	20.7	40.4	13.08	31.1	20.0
Painters, sculptors, craft artists, and artist printmakers .....	26.60	24.6	39.6	26.89	24.8	40.3	–	–	–
Photographers .....	17.18	7.8	38.8	17.00	7.9	40.0	–	–	–
Artists, performers, and related workers, n.e.c.	12.76	12.1	27.0	15.92	14.6	38.6	–	–	–
Editors and reporters .....	23.29	5.0	38.8	23.49	5.0	39.4	14.74	14.3	22.6
Public relations specialists .....	21.03	6.4	37.3	21.02	6.7	39.4	21.25	11.9	20.5
Announcers .....	22.52	21.9	25.7	26.98	23.8	40.9	16.04	26.2	16.7
Athletes .....	–	–	–	–	–	–	12.09	12.4	10.2
Professional, n.e.c. ....	26.04	3.5	39.4	26.16	3.5	39.8	18.42	13.2	23.9
Technical .....	18.48	1.4	36.6	18.87	1.4	39.0	13.83	1.7	21.2
Clinical laboratory technologists and technicians .....	15.47	2.0	36.9	15.50	2.1	39.6	15.07	3.5	20.0
Dental hygienists .....	23.17	2.0	32.3	–	–	–	–	–	–
Health record technologists and technicians .....	12.02	4.0	34.8	12.07	4.4	38.5	11.57	6.8	19.2
Radiological technicians .....	17.00	1.6	33.7	16.98	1.7	39.4	17.06	3.0	21.1

See footnotes at end of table.

Table 2-2. Private industry, selected occupations: Mean hourly earnings<sup>1</sup> for full-time and part-time workers,<sup>2</sup> National Compensation Survey,<sup>3</sup> 1998–Continued

Occupation <sup>4</sup>	Total			Full time			Part time		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)	
<b>White collar –Continued</b>									
<b>Professional specialty and technical –Continued</b>									
Technical –Continued									
Licensed practical nurses .....	\$13.04	1.0	34.2	\$12.98	1.1	39.2	\$13.28	1.9	22.2
Health technologists and technicians, n.e.c. ....	13.26	1.4	34.2	13.47	1.6	39.8	12.02	2.8	18.9
Electrical and electronic technicians .....	18.64	1.2	39.9	18.62	1.2	40.0	20.72	20.7	29.6
Industrial engineering technicians .....	18.87	4.5	40.3	18.87	4.5	40.3	–	–	–
Mechanical engineering technicians .....	19.97	1.9	40.1	20.02	1.9	40.4	–	–	–
Engineering technicians, n.e.c. ....	19.61	1.8	39.6	19.65	1.8	40.0	16.16	9.5	20.5
Drafters .....	18.75	4.3	39.6	18.89	4.3	40.2	11.19	17.3	23.1
Surveying and mapping technicians .....	15.79	8.6	40.0	16.01	8.6	40.0	–	–	–
Biological technicians .....	16.77	5.7	39.5	16.76	5.8	39.8	–	–	–
Chemical technicians .....	17.02	2.5	39.8	17.04	2.5	39.9	–	–	–
Science technicians, n.e.c. ....	18.65	3.4	38.4	18.52	3.5	39.8	–	–	–
Airplane pilots and navigators .....	79.93	9.5	23.5	80.02	9.5	23.5	–	–	–
Broadcast equipment operators .....	17.95	12.5	35.5	19.73	11.6	39.5	7.56	6.7	22.1
Computer programmers .....	22.38	2.0	39.4	22.45	2.0	39.7	17.21	18.2	25.2
Tool programmers, numerical control .....	17.32	4.7	40.1	17.32	4.7	40.1	–	–	–
Legal assistants .....	17.91	2.7	39.4	17.91	2.7	39.4	–	–	–
Technical and related, n.e.c. ....	19.44	2.0	39.0	19.58	2.0	39.8	14.51	6.9	22.1
<b>Executive, administrative, and managerial .....</b>									
Executives, administrators, and managers .....	28.63	.9	40.5	28.67	.9	40.6	20.61	7.6	23.2
Administrators and officials, public administration .....	32.51	1.4	40.9	32.55	1.4	41.0	23.32	11.8	22.7
Financial managers .....	24.65	13.8	39.5	24.65	13.8	39.5	–	–	–
Personnel and labor relations managers .....	32.74	2.5	40.2	32.77	2.5	40.3	25.96	21.2	21.0
Purchasing managers .....	32.39	3.5	41.4	32.41	3.5	41.4	–	–	–
Managers, marketing, advertising, and public relations .....	29.26	3.6	41.2	29.26	3.6	41.2	–	–	–
Administrators, education and related fields .....	35.35	2.0	40.8	35.38	2.0	40.8	–	–	–
Managers, medicine and health .....	25.48	3.5	38.8	25.81	3.4	39.9	14.00	8.6	19.7
Managers, food servicing and lodging establishments .....	29.88	2.4	39.7	29.85	2.4	40.2	31.63	15.2	23.1
Managers, properties and real estate .....	18.35	3.5	43.2	18.40	3.5	43.5	11.92	10.7	21.4
Funeral directors .....	23.34	10.2	40.8	23.38	10.2	40.8	–	–	–
Managers, service organizations, n.e.c. ....	25.26	14.3	40.3	25.26	14.3	40.3	–	–	–
Managers and administrators, n.e.c. ....	23.83	13.8	39.8	23.75	13.9	40.2	28.40	32.1	26.2
Management related .....	34.86	1.4	41.3	34.88	1.4	41.4	21.16	27.7	23.6
Accountants and auditors .....	22.73	.9	39.9	22.76	.9	40.0	17.76	5.3	23.8
Underwriters .....	20.94	2.2	39.8	20.94	2.2	39.9	20.43	4.7	24.9
Other financial officers .....	25.67	5.0	39.3	25.67	5.0	39.3	–	–	–
Management analysts .....	25.13	3.8	40.1	25.15	3.8	40.3	18.48	6.6	18.8
Personnel, training, and labor relations specialists .....	24.45	2.6	40.1	24.46	2.6	40.2	–	–	–
Purchasing agents and buyers, farm products ..	21.79	2.8	39.8	21.86	2.8	40.1	16.50	10.5	25.8
Buyers, wholesale and retail trade, except farm products .....	19.21	9.6	39.9	19.21	9.6	39.9	–	–	–
Purchasing agents and buyers, n.e.c. ....	23.23	6.0	40.7	23.27	6.0	41.0	–	–	–
Business and promotional agents .....	23.37	2.3	39.9	23.39	2.3	39.9	–	–	–
Construction inspectors .....	19.13	7.6	39.6	19.13	7.6	39.6	–	–	–
Inspectors and compliance officers, except construction .....	20.66	6.9	41.9	20.66	6.9	41.9	–	–	–
Management related, n.e.c. ....	23.10	3.8	40.2	23.13	3.8	40.3	–	–	–
	22.77	1.4	39.7	22.82	1.4	40.0	17.90	10.7	23.5
<b>Sales .....</b>									
Supervisors, sales .....	13.29	3.6	33.0	15.29	5.4	40.2	7.09	.9	21.3
Insurance sales .....	20.07	4.1	40.7	20.22	4.1	41.2	8.61	5.6	21.6
Real estate sales .....	22.20	14.9	35.6	23.34	14.7	38.9	–	–	–
Securities and financial services sales .....	37.80	17.7	40.9	38.52	17.3	41.6	–	–	–
Advertising and related sales .....	37.13	9.6	39.9	37.43	9.5	40.1	–	–	–
Sales, other business services .....	19.62	6.4	38.3	20.05	6.7	39.7	8.72	8.0	20.3
Sales engineers .....	19.43	5.6	36.7	20.19	5.6	39.5	8.92	8.3	18.7
	27.46	4.4	42.3	27.46	4.4	42.3	–	–	–

See footnotes at end of table.



Table 2-2. Private industry, selected occupations: Mean hourly earnings<sup>1</sup> for full-time and part-time workers,<sup>2</sup> National Compensation Survey,<sup>3</sup> 1998—Continued

Occupation <sup>4</sup>	Total			Full time			Part time		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)	
<b>White collar —Continued</b>									
<b>Sales —Continued</b>									
Sales representatives, mining, manufacturing, and wholesale .....	\$24.77	3.1	40.9	\$24.92	3.1	41.1	\$9.06	23.3	27.0
Sales workers, motor vehicles and boats .....	18.96	3.1	45.0	18.98	3.1	45.0	—	—	—
Sales workers, apparel .....	8.28	4.0	27.1	9.16	4.3	37.9	7.37	4.8	20.8
Sales workers, shoes .....	9.65	6.6	27.9	11.53	7.0	38.5	7.39	4.1	21.0
Sales workers, furniture and home furnishings ..	11.02	11.3	29.7	14.02	8.2	39.6	7.00	7.6	22.2
Sales workers, radio, tv, hi-fi, and appliances ...	10.18	6.3	35.4	10.51	6.7	39.2	7.47	4.6	19.6
Sales workers, hardware and building supplies ..	10.95	5.3	36.9	11.51	6.2	40.0	8.25	2.5	26.7
Sales workers, other commodities .....	14.38	4.6	38.8	14.85	4.7	40.8	7.66	5.0	22.8
Sales counter clerks .....	9.69	2.1	29.9	11.00	2.7	39.4	7.26	1.0	20.7
Sales counter clerks .....	8.12	3.1	28.5	9.22	3.6	39.2	6.78	3.2	21.4
Cashiers .....	7.74	1.6	30.1	8.36	1.3	39.5	6.73	1.1	21.6
Street and door-to-door sales workers .....	12.96	11.6	30.0	16.28	10.2	38.3	8.04	10.8	22.8
News vendors .....	7.78	11.7	20.9	—	—	—	6.71	3.9	17.9
Demonstrators, promoters, and models, sales ..	9.69	7.7	22.1	12.37	8.2	39.2	7.34	3.5	16.0
Sales support, n.e.c. ....	12.68	3.1	36.3	13.35	3.1	40.0	8.45	4.8	22.9
<b>Administrative support, including clerical .....</b>	12.00	.6	37.3	12.27	.6	39.5	9.04	1.4	22.8
Supervisors, general office .....	17.15	1.8	39.7	17.15	1.8	39.8	16.22	9.2	22.2
Supervisors, computer equipment operators .....	20.27	4.1	40.1	20.27	4.1	40.1	—	—	—
Supervisors, financial records processing .....	17.92	1.9	39.7	17.93	1.9	39.8	—	—	—
Chief communications operators .....	18.12	8.9	40.5	18.12	8.9	40.5	—	—	—
Supervisors, distribution, scheduling, and adjusting clerks .....	17.77	3.1	40.3	17.79	3.1	40.5	—	—	—
Computer operators .....	14.40	1.9	39.3	14.44	1.9	39.6	9.69	15.5	23.4
Peripheral equipment operators .....	10.10	3.6	38.4	10.06	3.6	39.5	—	—	—
Secretaries .....	13.76	.8	38.1	13.89	.8	39.2	11.40	3.1	24.9
Stenographers .....	12.41	2.5	36.6	12.56	2.5	39.5	11.24	6.3	23.3
Typists .....	12.25	2.1	37.1	12.45	2.2	38.9	10.11	3.4	25.0
Interviewers .....	9.75	1.9	33.2	10.07	2.2	39.1	8.67	3.9	21.9
Hotel clerks .....	8.58	3.5	36.8	8.73	3.6	39.4	6.99	2.8	22.0
Transportation ticket and reservation agents .....	11.58	10.1	35.9	11.81	9.9	39.9	10.38	10.9	23.7
Receptionists .....	9.20	1.2	35.4	9.40	1.3	39.5	8.09	2.2	22.4
Information clerks, n.e.c. ....	11.72	3.6	36.4	11.71	2.3	39.6	11.81	18.4	25.8
Classified ad clerks .....	10.43	13.6	35.3	10.58	14.9	38.4	—	—	—
Correspondence clerks .....	11.98	3.3	37.9	12.07	3.2	39.6	10.14	12.5	20.6
Order clerks .....	11.90	2.2	37.6	12.26	2.4	39.7	8.42	3.0	24.9
Personnel clerks, except payroll and timekeeping .....	12.57	1.8	38.9	12.63	1.8	39.7	10.29	5.8	22.3
Library clerks .....	11.42	2.7	31.6	11.90	2.8	37.8	9.36	6.5	18.6
File clerks .....	8.98	1.7	35.3	9.11	1.8	39.3	8.18	4.5	21.4
Records clerks, n.e.c. ....	11.00	1.4	37.7	11.12	1.4	39.4	9.17	3.4	22.6
Bookkeepers, accounting and auditing clerks ...	11.58	.8	38.4	11.72	.7	39.5	8.83	4.4	24.1
Payroll and timekeeping clerks .....	12.50	1.9	38.2	12.68	1.9	39.7	8.55	10.1	21.0
Billing clerks .....	10.96	1.5	38.7	11.01	1.5	39.6	9.61	3.8	23.7
Cost and rate clerks .....	11.76	6.8	39.7	11.76	6.8	39.7	—	—	—
Billing, posting, and calculating machine operators .....	10.16	5.1	33.2	10.82	6.0	39.6	8.32	3.9	22.9
Duplicating machine operators .....	9.71	2.3	35.0	10.16	2.5	39.2	8.21	2.4	25.8
Mail preparing and paper handling machine operators .....	9.36	5.0	35.6	9.59	5.1	39.4	7.63	6.5	20.5
Office machine operators, n.e.c. ....	8.65	4.7	36.8	8.78	5.4	39.4	7.75	3.6	25.4
Telephone operators .....	11.54	3.7	36.2	11.90	3.8	39.1	8.31	3.1	21.9
Communications equipment operators, n.e.c. ....	9.84	6.3	34.0	10.01	5.4	40.0	—	—	—
Mail clerks, except postal service .....	9.18	3.1	35.8	9.59	3.7	39.3	7.50	3.7	26.3
Messengers .....	8.79	7.5	36.4	8.90	8.8	39.3	8.08	6.1	25.0
Dispatchers .....	12.48	5.8	38.1	12.69	5.2	40.4	8.99	12.6	20.0
Production coordinators .....	14.67	1.8	38.9	14.79	1.9	40.0	7.90	8.6	15.1
Traffic, shipping and receiving clerks .....	11.47	3.1	37.8	11.59	3.3	39.9	—	—	—
Stock and inventory clerks .....	11.23	1.7	35.9	11.65	1.5	39.8	7.92	3.0	20.2
Meter readers .....	15.94	4.5	39.9	15.97	4.5	40.0	—	—	—

See footnotes at end of table.

Table 2-2. Private industry, selected occupations: Mean hourly earnings<sup>1</sup> for full-time and part-time workers,<sup>2</sup> National Compensation Survey,<sup>3</sup> 1998—Continued

Occupation <sup>4</sup>	Total			Full time			Part time		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)	
<b>White collar</b> —Continued									
<b>Administrative support, including clerical</b> —Continued									
Weighers, measurers, checkers, and samplers	\$12.67	6.1	38.9	\$12.88	6.1	40.1	—	—	—
Expeditors	13.09	3.0	38.0	13.39	3.6	39.8	\$11.76	7.8	31.7
Material recording, scheduling, and distribution clerks, n.e.c.	11.74	3.4	37.5	12.13	3.4	39.9	7.50	5.1	22.7
Insurance adjusters, examiners, and investigators	14.97	3.0	39.0	14.99	3.0	39.0	10.44	5.3	25.7
Investigators and adjusters, except insurance	12.53	2.7	38.3	12.66	2.8	39.7	10.11	4.7	22.8
Eligibility clerks, social welfare	10.99	4.1	38.1	10.98	4.2	39.2	11.09	4.3	20.7
Bill and account collectors	11.58	2.8	38.4	11.70	2.8	39.8	8.73	4.3	21.4
General office clerks	11.12	1.0	36.5	11.41	1.0	39.5	8.51	2.1	21.8
Bank tellers	8.97	1.4	32.2	9.14	1.6	39.5	8.43	1.6	20.4
Proofreaders	10.46	5.4	37.5	10.64	5.6	39.7	—	—	—
Data entry keyers	9.79	1.5	37.4	9.95	1.7	39.5	8.49	3.1	25.9
Statistical clerks	11.93	4.6	36.7	12.07	4.7	39.1	9.48	5.5	17.9
Teachers' aides	8.29	4.0	31.5	8.65	5.5	37.4	7.52	4.5	23.4
Administrative support, n.e.c.	11.91	2.1	36.6	12.27	2.2	39.5	8.93	3.4	22.5
<b>Blue collar</b>	12.77	.7	38.6	13.04	.7	40.1	7.71	1.4	22.3
<b>Precision production, craft, and repair</b>									
Supervisors, mechanics and repairers	22.34	1.8	40.8	22.34	1.8	40.9	—	—	—
Automobile mechanics	17.16	2.6	40.6	17.16	2.6	40.6	—	—	—
Automobile mechanic apprentices	10.19	6.8	39.8	10.24	6.9	40.2	—	—	—
Bus, truck, and stationary engine mechanics	15.19	2.2	40.2	15.19	2.2	40.3	—	—	—
Aircraft engine mechanics	21.80	3.2	40.0	21.81	3.2	40.0	—	—	—
Small engine repairs	12.13	9.2	33.6	12.85	9.0	39.8	—	—	—
Automobile body and related repairers	16.54	5.1	40.8	16.54	5.1	40.8	—	—	—
Aircraft mechanics, except engine	19.28	2.4	40.0	19.28	2.4	40.0	—	—	—
Heavy equipment mechanics	17.50	3.7	40.0	17.52	3.7	40.1	—	—	—
Industrial machinery repairers	16.56	1.9	39.9	16.56	1.9	39.9	—	—	—
Machinery maintenance	13.46	2.6	39.8	13.47	2.6	40.0	—	—	—
Electronic repairers, communications and industrial equipment	17.58	3.9	39.4	17.70	3.9	40.0	11.76	21.0	24.1
Data processing equipment repairers	16.67	3.7	37.5	16.34	2.4	40.0	—	—	—
Household appliance and power tool repairers	16.77	6.1	38.3	16.97	6.1	40.0	—	—	—
Telephone line installers and repairers	19.59	2.7	39.6	19.59	2.7	39.9	—	—	—
Telephone installers and repairers	17.88	1.7	39.9	17.88	1.7	39.9	—	—	—
Heating, air conditioning, and refrigeration mechanics	16.64	3.0	39.7	16.29	2.3	40.0	—	—	—
Camera, watch, and musical instrument repairers	16.47	14.1	40.0	16.47	14.1	40.0	—	—	—
Locksmiths and safe repairers	17.90	6.6	40.0	17.90	6.6	40.0	—	—	—
Office machine repairers	15.86	5.2	40.0	15.86	5.2	40.0	—	—	—
Mechanical controls and valve repairers	18.43	5.3	40.0	18.43	5.3	40.0	—	—	—
Elevator installers and repairers	19.17	24.0	40.0	19.17	24.0	40.0	—	—	—
Millwrights	19.13	5.6	40.1	19.13	5.6	40.1	—	—	—
Mechanics and repairers, n.e.c.	16.04	1.6	39.7	16.10	1.6	39.9	10.52	11.4	23.7
Supervisors, brickmasons, stonemasons, and tilesetters	22.60	4.5	40.0	22.60	4.5	40.0	—	—	—
Supervisors, carpenters and related workers	21.37	5.9	40.3	21.37	5.9	40.3	—	—	—
Supervisors, electricians and power transmission installers	22.69	5.1	40.0	22.69	5.1	40.0	—	—	—
Supervisors, painters, paperhangers, and plasterers	18.28	2.4	40.4	18.28	2.4	40.4	—	—	—
Supervisors, plumbers, pipefitters, and steamfitters	23.82	8.1	40.3	23.82	8.1	40.3	—	—	—
Supervisors, construction trades, n.e.c.	19.94	2.3	40.6	19.93	2.3	40.7	—	—	—
Brickmasons and stonemasons	16.93	7.6	40.0	16.93	7.6	40.0	—	—	—
Brickmason and stonemason apprentices	12.73	9.6	40.0	12.73	9.6	40.0	—	—	—
Carpet installers	24.86	4.1	38.9	24.86	4.1	38.9	—	—	—

See footnotes at end of table.

Table 2-2. Private industry, selected occupations: Mean hourly earnings<sup>1</sup> for full-time and part-time workers,<sup>2</sup> National Compensation Survey,<sup>3</sup> 1998–Continued

Occupation <sup>4</sup>	Total			Full time			Part time		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)	
<b>Blue collar –Continued</b>									
<b>Precision production, craft, and repair –Continued</b>									
Carpenters .....	\$16.98	2.2	39.6	\$17.03	2.2	39.9	\$12.57	13.4	25.2
Carpenter apprentices .....	12.47	3.6	40.0	12.47	3.6	40.0	–	–	–
Drywall installers .....	15.46	2.3	39.8	15.46	2.3	40.0	–	–	–
Electricians .....	19.18	2.1	39.9	19.17	2.1	40.0	–	–	–
Electrician apprentices .....	12.83	6.9	40.0	12.83	6.9	40.0	–	–	–
Electrical power installers and repairers .....	21.78	3.2	40.0	21.78	3.2	40.0	–	–	–
Painters, construction and maintenance .....	15.32	7.4	39.4	15.34	7.4	39.5	–	–	–
Plumbers, pipefitters and steamfitters .....	20.73	1.9	40.0	20.73	1.9	40.0	–	–	–
Plumber, pipefitter, and steamfitter apprentices .....	14.13	5.0	39.9	14.13	5.0	39.9	–	–	–
Concrete and terrazzo finishers .....	14.12	8.9	39.7	14.12	9.2	40.7	–	–	–
Glaziers .....	14.29	6.4	38.0	14.29	6.4	38.0	–	–	–
Insulation workers .....	11.85	6.0	35.1	12.10	6.7	39.9	–	–	–
Roofers .....	13.56	6.4	34.4	13.56	6.4	34.4	–	–	–
Sheetmetal duct installers .....	19.43	8.1	38.8	19.43	8.1	38.8	–	–	–
Structural metal workers .....	16.18	4.6	39.6	16.20	4.7	40.2	–	–	–
Drillers, earth .....	11.49	10.6	40.0	11.49	10.6	40.0	–	–	–
Construction trades, n.e.c. ....	16.43	3.3	38.9	16.46	3.3	39.6	–	–	–
Supervisors, extractive .....	22.05	14.5	41.2	22.96	11.7	42.3	–	–	–
Drillers, oil well .....	17.37	2.6	41.3	17.37	2.6	41.3	–	–	–
Explosives workers .....	15.91	16.0	39.6	15.91	16.0	39.6	–	–	–
Mining machine operators .....	18.63	6.4	40.0	18.63	6.4	40.0	–	–	–
Mining, n.e.c. ....	19.72	3.6	40.1	19.72	3.6	40.1	–	–	–
Supervisors, production .....	19.02	2.6	40.7	19.02	2.6	40.7	–	–	–
Tool and die makers .....	19.74	1.8	40.0	19.74	1.8	40.0	–	–	–
Tool and die maker apprentices .....	14.33	4.9	40.0	14.33	4.9	40.0	–	–	–
Precision assemblers, metal .....	16.19	3.0	40.0	16.19	3.0	40.0	–	–	–
Machinists .....	17.02	1.1	40.0	17.02	1.1	40.0	–	–	–
Machinist apprentices .....	12.63	4.9	40.0	12.63	4.9	40.0	–	–	–
Boilermakers .....	18.41	5.3	40.0	18.41	5.3	40.0	–	–	–
Precision grinders, filers, and tool sharpeners ...	14.90	4.7	40.1	14.90	4.7	40.1	–	–	–
Patternmakers and modelmakers, metal .....	18.21	5.7	40.0	18.21	5.7	40.0	–	–	–
Layout workers .....	14.87	4.9	40.0	14.87	4.9	40.0	–	–	–
Precious stones and metals workers .....	8.98	8.8	39.3	8.98	8.8	39.3	–	–	–
Engravers, metal .....	15.41	22.7	39.2	15.26	23.3	39.8	–	–	–
Sheet metal workers .....	16.76	5.1	40.0	16.76	5.1	40.0	–	–	–
Sheet metal worker apprentices .....	13.39	7.0	37.1	13.39	7.0	37.1	–	–	–
Cabinet makers and bench carpenters .....	10.87	5.2	39.6	10.87	5.2	39.6	–	–	–
Furniture and wood finishers .....	11.68	2.5	40.0	11.68	2.5	40.0	–	–	–
Tailors .....	11.86	3.4	39.5	11.86	3.4	39.5	–	–	–
Upholsterers .....	12.57	9.3	39.6	12.57	9.3	39.6	–	–	–
Hand molders and shapers, except jewelers .....	16.34	3.1	40.2	16.34	3.1	40.2	–	–	–
Patternmakers, layout workers, and cutters .....	19.81	7.8	39.9	20.09	7.7	39.9	–	–	–
Optical goods workers .....	11.00	12.8	39.7	11.00	12.8	39.7	–	–	–
Dental laboratory and medical appliance technicians .....	15.59	12.6	39.1	15.59	12.6	39.1	–	–	–
Bookbinders .....	13.57	6.1	39.4	13.57	6.1	39.4	–	–	–
Electrical and electronic equipment assemblers .....	9.78	3.0	39.8	9.81	3.0	40.0	6.97	6.7	25.3
Miscellaneous precision workers, n.e.c. ....	15.50	5.4	39.8	15.52	5.4	39.9	–	–	–
Precision food production .....	10.90	7.3	40.0	10.90	7.3	40.0	–	–	–
Butchers and meat cutters .....	10.20	3.5	38.5	10.30	3.7	39.6	–	–	–
Bakers .....	9.52	3.4	36.3	9.69	3.6	39.5	8.26	9.5	22.9
Food batchmakers .....	10.48	5.2	38.7	10.46	5.1	39.8	–	–	–
Inspectors, testers, and graders .....	16.24	2.3	40.2	16.27	2.3	40.4	–	–	–
Precision inspectors, testers, and related workers, n.e.c. ....	19.04	6.6	40.0	19.04	6.6	40.0	–	–	–
Adjusters and calibrators .....	13.36	14.1	39.6	13.34	14.2	40.0	–	–	–
Water and sewer treatment plant operators .....	14.85	6.1	37.1	15.68	3.2	40.0	–	–	–
Power plant operators .....	22.16	2.1	39.6	22.16	2.1	39.6	–	–	–
Stationary engineers .....	19.09	3.5	39.5	19.06	3.5	39.9	–	–	–
Miscellaneous plant and system operators, n.e.c. ....	21.44	2.2	40.1	21.44	2.2	40.1	–	–	–

See footnotes at end of table.

Table 2-2. Private industry, selected occupations: Mean hourly earnings<sup>1</sup> for full-time and part-time workers,<sup>2</sup> National Compensation Survey,<sup>3</sup> 1998—Continued

Occupation <sup>4</sup>	Total			Full time			Part time		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)	
<b>Blue collar—Continued</b>									
<b>Machine operators, assemblers, and inspectors .....</b>	\$11.58	0.9	39.6	\$11.63	0.9	39.9	\$7.43	2.0	23.1
Lathe and turning machine set-up operators .....	14.03	2.6	40.0	14.03	2.6	40.0	—	—	—
Lathe and turning machine operators .....	12.83	6.3	39.9	12.83	6.3	39.9	—	—	—
Milling and planing machine operators .....	13.38	6.9	40.0	13.38	6.9	40.0	—	—	—
Punching and stamping press operators .....	12.08	3.0	39.8	12.10	3.0	40.0	—	—	—
Rolling machine operators .....	13.46	6.1	40.3	13.46	6.1	40.3	—	—	—
Drilling and boring machine operators .....	11.38	12.2	40.0	11.38	12.2	40.0	—	—	—
Grinding, abrading, buffing, and polishing machine operators .....	11.58	2.9	39.9	11.59	2.9	40.0	—	—	—
Forging machine operators .....	12.86	4.5	39.9	12.86	4.5	39.9	—	—	—
Numerical control machine operators .....	13.56	2.1	40.0	13.56	2.1	40.0	—	—	—
Fabricating machine operators, n.e.c. ....	13.29	2.3	40.0	13.29	2.3	40.0	—	—	—
Molding and casting machine operators .....	10.36	2.9	39.8	10.41	2.9	39.9	6.65	8.9	32.9
Metal plating machine operators .....	11.98	3.3	40.0	12.03	3.1	40.3	—	—	—
Heat treating equipment operators .....	13.78	2.4	40.0	13.78	2.4	40.0	—	—	—
Wood lathe, routing, and planing machine operators .....	10.60	11.3	37.1	10.63	11.7	39.7	—	—	—
Sawing machine operators .....	9.14	5.2	39.7	9.14	5.2	40.0	—	—	—
Shaping and jointing machine operators .....	9.73	6.8	39.9	9.73	6.8	39.9	—	—	—
Nailing and tacking machine operators .....	9.91	2.3	40.0	9.91	2.3	40.0	—	—	—
Printing press operators .....	14.74	3.4	39.3	14.79	3.4	39.5	9.87	24.4	22.9
Photoengravers and lithographers .....	15.22	3.0	38.6	15.31	2.9	39.0	—	—	—
Typesetters and compositors .....	12.92	4.3	37.8	12.95	4.5	39.5	12.19	9.1	19.4
Winding and twisting machine operators .....	11.01	7.3	39.9	11.02	7.3	39.9	—	—	—
Knitting, looping, taping, and weaving machine operators .....	10.10	1.9	40.0	10.10	1.9	40.0	—	—	—
Textile cutting machine operators .....	8.94	5.4	40.0	8.94	5.4	40.0	—	—	—
Textile sewing machine operators .....	7.98	2.7	39.7	7.99	2.7	39.9	6.72	7.6	20.3
Shoe machine operators .....	9.11	8.6	39.9	9.11	8.6	39.9	—	—	—
Pressing machine operators .....	7.97	6.3	39.2	7.98	6.4	39.8	—	—	—
Laundering and dry cleaning machine operators .....	7.33	1.7	36.4	7.39	1.9	39.4	6.77	3.7	21.5
Cementing and gluing machine operators .....	9.58	9.5	40.0	9.58	9.5	40.0	—	—	—
Packaging and filling machine operators .....	10.55	4.3	39.4	10.56	4.4	40.0	9.67	5.8	21.2
Extruding and forming machine operators .....	11.28	2.7	39.8	11.28	2.7	39.8	—	—	—
Mixing and blending machine operators .....	13.28	2.8	39.9	13.27	2.8	40.0	—	—	—
Separating, filtering, and clarifying machine operators .....	15.83	3.8	39.8	15.85	3.8	39.9	—	—	—
Compressing and compacting machine operators .....	10.41	2.2	39.7	10.45	2.3	40.0	—	—	—
Painting and paint spraying machine operators .....	12.10	2.9	40.2	12.10	2.9	40.2	—	—	—
Roasting and baking machine operators, food ..	11.61	5.5	39.4	11.61	5.6	40.0	—	—	—
Washing, cleaning, and pickling machine operators .....	10.91	9.4	36.5	10.98	9.5	40.2	—	—	—
Folding machine operators .....	11.34	4.0	39.7	11.38	3.9	39.8	—	—	—
Furnace, kiln, and oven operators, except food ..	13.53	4.7	39.9	13.53	4.7	40.0	—	—	—
Crushing and grinding machine operators .....	11.89	5.7	39.9	11.89	5.7	39.9	—	—	—
Slicing and cutting machine operators .....	12.65	3.6	39.9	12.72	3.6	40.0	—	—	—
Motion picture projectionists .....	13.07	9.6	25.9	—	—	—	—	—	—
Photographic process machine operators .....	10.42	2.9	37.9	10.65	2.8	39.9	7.51	7.3	23.2
Miscellaneous machine operators, n.e.c. ....	11.95	2.6	39.7	11.99	2.6	39.9	7.60	8.0	26.8
Welders and cutters .....	14.06	1.9	40.0	14.07	1.9	40.0	—	—	—
Solders and braziers .....	9.04	8.3	40.0	9.06	8.4	40.0	—	—	—
Assemblers .....	11.63	2.6	39.3	11.73	2.6	39.9	6.79	2.1	23.1
Hand cutting and trimming .....	9.51	8.9	39.4	9.55	8.9	39.9	—	—	—
Hand molding, casting, and forming .....	12.13	9.9	40.0	12.13	9.9	40.0	—	—	—
Hand painting, coating, and decorating .....	10.17	5.7	38.5	10.19	5.8	40.0	—	—	—
Hand engraving and printing .....	8.91	3.5	40.0	8.91	3.5	40.0	—	—	—
Miscellaneous hand working, n.e.c. ....	9.85	3.3	38.8	9.99	3.5	39.9	5.70	3.4	20.7
Production inspectors, checkers and examiners ..	11.11	2.6	39.8	11.12	2.6	40.0	8.54	7.4	27.3
Production testers .....	11.73	3.4	39.8	11.75	3.4	40.0	—	—	—
Production samplers and weighers .....	13.64	4.5	39.6	13.64	4.5	39.6	—	—	—
Graders and sorters, except agricultural .....	9.19	6.4	39.9	9.21	6.4	40.0	—	—	—

See footnotes at end of table.

Table 2-2. Private industry, selected occupations: Mean hourly earnings<sup>1</sup> for full-time and part-time workers,<sup>2</sup> National Compensation Survey,<sup>3</sup> 1998–Continued

Occupation <sup>4</sup>	Total			Full time			Part time		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)	
<b>Blue collar –Continued</b>									
<b>Machine operators, assemblers, and inspectors –Continued</b>									
Hand inspectors, n.e.c. ....	\$9.27	7.5	39.9	\$9.27	7.5	39.9	–	–	–
<b>Transportation and material moving</b> .....	13.77	1.2	38.9	14.12	1.2	41.4	\$9.18	3.0	21.6
Supervisors, motor vehicle operators .....	16.66	4.0	41.8	16.83	4.0	42.0	–	–	–
Truck drivers .....	13.96	1.2	41.5	14.07	1.3	43.0	11.21	4.4	22.1
Driver-sales workers .....	14.23	4.2	37.6	15.07	3.5	41.5	6.58	8.9	20.5
Bus drivers .....	11.31	2.8	30.3	11.93	3.7	38.7	10.42	4.1	23.1
Taxicab drivers and chauffeurs .....	8.20	4.5	29.9	8.94	5.2	38.7	6.62	3.4	20.0
Parking lot attendants .....	7.01	4.3	28.1	7.70	5.1	39.9	6.22	4.6	20.9
Motor transportation, n.e.c. ....	8.22	4.5	31.4	8.83	5.7	39.2	6.24	2.1	19.0
Railroad conductors and yardmasters .....	26.82	4.4	40.2	26.82	4.4	40.2	–	–	–
Locomotive operating .....	30.26	8.1	40.9	30.26	8.1	40.9	–	–	–
Railroad brake, signal and switch operators .....	23.65	10.9	40.0	23.65	10.9	40.0	–	–	–
Rail vehicle operators, n.e.c. ....	22.32	3.9	40.0	22.32	3.9	40.0	–	–	–
Ship captains and mates, except fishing boats ..	16.04	3.9	48.0	16.14	3.9	49.2	–	–	–
Sailors and deckhands .....	10.69	8.7	44.3	10.51	7.8	46.6	–	–	–
Supervisors, material moving equipment .....	19.16	6.0	40.5	19.16	6.0	40.5	–	–	–
Operating engineers .....	21.57	4.4	40.0	21.57	4.4	40.0	–	–	–
Longshore equipment operators .....	27.40	6.8	37.4	–	–	–	–	–	–
Hoist and winch operators .....	12.94	5.5	40.9	12.94	5.5	40.9	–	–	–
Crane and tower operators .....	15.55	3.4	40.1	15.55	3.4	40.1	–	–	–
Excavating and loading machine operators .....	14.74	5.1	40.1	14.74	5.1	40.1	–	–	–
Grader, dozer, and scrapper operators .....	14.69	9.1	40.2	14.69	9.1	40.2	–	–	–
Industrial truck and tractor equipment operators	12.11	1.9	39.8	12.13	1.9	40.0	10.17	8.2	25.5
Miscellaneous material moving equipment operators, n.e.c. ....	14.66	3.5	37.5	15.01	3.6	40.0	10.15	1.8	20.6
<b>Handlers, equipment cleaners, helpers, and laborers</b> .....	9.52	.7	35.7	9.93	.8	39.8	7.10	1.0	22.2
Nursery workers .....	7.28	3.5	38.0	7.38	3.9	40.1	–	–	–
Supervisors, agriculture-related workers .....	19.19	10.0	40.3	19.19	10.0	40.3	–	–	–
Groundskeepers and gardeners, except farm ...	8.45	3.9	38.8	8.49	4.3	39.9	7.39	4.8	22.5
Animal caretakers, except farm .....	9.74	11.3	36.9	10.05	11.6	39.8	–	–	–
Inspectors, agricultural products .....	7.84	6.1	37.4	8.09	8.8	40.0	–	–	–
Supervisors, handlers, equipment cleaners, and laborers, n.e.c. ....	14.37	2.7	39.8	14.41	2.8	40.3	–	–	–
Helpers, mechanics and repairers .....	11.40	5.8	39.3	11.50	5.7	40.1	7.49	8.3	21.7
Helpers, construction trades .....	10.38	4.1	39.2	10.42	4.1	39.7	8.14	16.3	24.0
Helpers, extractive .....	15.17	11.8	38.7	–	–	–	–	–	–
Construction laborers .....	11.37	3.4	39.5	11.49	3.4	39.9	7.04	8.6	29.8
Production helpers .....	9.75	3.5	39.1	9.82	3.5	39.8	6.69	3.8	22.4
Garbage collectors .....	9.26	8.1	39.6	9.25	9.1	40.3	–	–	–
Stevedores .....	18.90	3.8	39.2	18.89	3.8	39.2	–	–	–
Stock handlers and baggers .....	8.63	1.4	29.8	9.97	1.7	39.6	6.49	1.2	21.4
Machine feeders and offbearers .....	9.38	2.6	39.3	9.39	2.6	39.8	8.48	10.2	21.7
Freight, stock, and material handlers, n.e.c. ....	10.49	2.1	35.4	10.70	2.4	39.8	9.37	2.1	22.2
Garage and service station related .....	7.90	6.8	34.2	8.35	5.9	38.9	6.05	4.2	22.9
Vehicle washers and equipment cleaners .....	8.81	3.2	37.4	8.96	3.5	40.0	6.95	5.2	20.7
Hand packers and packagers .....	8.49	1.7	37.9	8.63	1.8	39.8	6.96	1.8	24.8
Laborers, except construction, n.e.c. ....	9.39	1.4	37.8	9.63	1.4	39.8	6.88	3.5	24.6
<b>Service</b> .....	7.85	.6	31.8	8.37	.7	38.6	6.34	.7	21.0
Protective service .....	8.74	1.7	35.0	8.95	1.8	39.4	7.71	1.6	22.8
Supervisors, guards .....	13.42	5.3	38.7	13.59	5.4	39.6	–	–	–
Police and detectives, public service .....	10.30	13.9	32.5	–	–	–	–	–	–
Guards and police, except public service .....	8.43	1.9	35.2	8.57	2.1	39.4	7.75	1.7	23.5
Protective service, n.e.c. ....	8.76	8.6	24.4	10.55	13.0	39.0	6.55	2.2	16.7
Food service .....	6.54	.8	30.1	7.12	1.0	38.8	5.46	.8	21.2
Supervisors, food preparation and service .....	11.40	1.8	38.7	11.83	1.7	41.4	7.40	3.4	24.2

See footnotes at end of table.

Table 2-2. Private industry, selected occupations: Mean hourly earnings<sup>1</sup> for full-time and part-time workers,<sup>2</sup> National Compensation Survey,<sup>3</sup> 1998—Continued

Occupation <sup>4</sup>	Total			Full time			Part time		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)	
<b>Service—Continued</b>									
<b>Food service—Continued</b>									
Bartenders .....	\$6.31	2.6	29.5	\$6.71	3.4	37.5	\$5.76	3.1	22.6
Waiters and waitresses .....	4.16	3.4	28.8	4.37	3.5	38.1	3.83	2.6	20.8
Cooks .....	8.56	1.2	34.4	8.87	1.3	38.8	7.21	1.9	22.9
Food counter, fountain, and related .....	6.06	1.3	25.9	6.40	2.4	37.3	5.82	1.3	21.2
Kitchen workers, food preparation .....	7.49	1.3	30.1	8.02	1.7	39.0	6.68	1.3	22.3
Waiters/Waitresses' assistants .....	5.64	2.2	27.7	6.10	3.1	38.0	5.01	2.4	20.1
Food preparation, n.e.c. ....	6.56	.8	30.2	6.87	2.1	39.0	5.95	.8	20.8
<b>Health service</b> .....	8.37	.8	33.1	8.44	.8	38.7	8.08	1.1	20.7
Dental assistants .....	10.46	4.2	35.1	10.37	4.4	40.0	—	—	—
Health aides, except nursing .....	9.33	1.6	32.5	9.58	1.7	38.8	8.25	2.8	18.8
Nursing aides, orderlies and attendants .....	8.13	.8	33.2	8.15	.9	38.6	8.04	1.3	21.2
<b>Cleaning and building service</b> .....	8.34	1.1	34.0	8.72	1.3	39.2	6.69	1.1	21.4
Supervisors, cleaning and building service workers .....	10.04	9.5	39.6	10.11	10.0	40.0	7.68	5.1	28.7
Maids and housemen .....	7.49	2.0	34.8	7.57	2.2	38.6	6.96	2.3	21.1
Janitors and cleaners .....	8.34	1.5	32.8	8.87	1.6	39.4	6.60	1.1	21.3
Pest control .....	12.73	9.3	40.0	12.73	9.3	40.0	—	—	—
<b>Personal service</b> .....	9.22	2.4	30.0	10.10	3.0	36.9	6.71	4.2	19.6
Supervisors, personal service .....	—	—	—	—	—	—	8.63	9.5	23.1
Hairdressers and cosmetologists .....	—	—	—	—	—	—	8.27	5.5	20.6
Attendants, amusement, and recreation facilities .....	6.03	4.6	30.9	6.26	4.3	39.5	5.51	5.0	20.4
Guides .....	9.02	3.9	31.5	9.40	3.5	38.0	7.78	9.0	20.0
Ushers .....	6.56	5.2	19.9	—	—	—	6.21	4.0	16.8
Public transportation attendants .....	26.41	6.2	20.3	27.13	5.6	20.6	16.49	22.0	17.0
Baggage porters and bellhops .....	7.19	6.4	35.6	7.04	7.0	39.4	8.03	7.2	23.3
Welfare service aides .....	7.12	5.2	27.0	8.04	4.7	39.4	6.20	5.7	20.5
Early childhood teachers' assistants .....	7.07	2.1	27.0	7.48	2.9	37.8	6.50	2.6	19.2
Child care workers, n.e.c. ....	7.93	2.1	28.6	8.36	3.1	39.6	7.10	2.1	18.6
Service, n.e.c. ....	7.09	11.5	31.8	6.97	14.1	39.2	7.56	6.0	18.7

<sup>1</sup> 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.

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

<sup>3</sup> This survey covers all 50 States. Collection was conducted between July 1997 and

April 1999. The average reference period was August 1998.

<sup>4</sup> A classification system including about 480 individual occupations is used to cover all workers in the civilian economy. For more information, see appendix B.

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

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

Table 2-3. State and local government, selected occupations: Mean hourly earnings<sup>1</sup> and weekly hours for full-time and part-time workers,<sup>2</sup> National Compensation Survey,<sup>3</sup> 1998

Occupation <sup>4</sup>	Total			Full time			Part time		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)	
<b>All</b> .....	\$18.59	0.6	36.6	\$18.97	0.7	38.9	\$12.94	2.2	19.3
All excluding sales .....	18.61	.6	36.6	18.99	.7	38.9	12.97	2.2	19.3
<b>White collar</b> .....	20.96	.5	36.4	21.26	.5	38.4	15.73	2.4	19.1
White collar excluding sales .....	21.00	.5	36.4	21.30	.5	38.4	15.84	2.4	19.1
<b>Professional specialty and technical</b> .....	24.85	.6	35.9	25.12	.6	37.9	20.04	2.3	18.2
Professional specialty .....	26.03	.6	35.7	26.29	.6	37.7	21.04	2.2	17.5
Engineers, architects, and surveyors .....	25.43	1.7	39.5	25.46	1.8	39.5	-	-	-
Architects .....	26.05	4.0	39.3	26.05	4.0	39.3	-	-	-
Civil engineers .....	26.36	2.5	39.3	26.41	2.5	39.3	-	-	-
Electrical and electronic engineers .....	26.81	4.4	40.0	26.81	4.4	40.0	-	-	-
Industrial engineers .....	19.64	3.4	39.7	19.64	3.4	39.7	-	-	-
Mechanical engineers .....	25.24	8.2	36.9	25.24	8.2	36.9	-	-	-
Engineers, n.e.c. ....	23.96	4.9	40.2	23.96	4.9	40.2	-	-	-
Surveyors and mapping scientists .....	19.39	6.4	38.5	19.60	6.4	39.2	-	-	-
Mathematical and computer scientists .....	21.52	2.8	39.7	21.52	2.8	39.8	-	-	-
Computer systems analysts and scientists .....	21.64	2.9	39.7	21.63	2.9	39.8	-	-	-
Operations and systems researchers and analysts .....	19.98	19.0	38.8	20.07	19.2	39.2	-	-	-
Natural scientists .....	20.70	2.6	39.6	20.66	2.6	39.8	-	-	-
Chemists, except biochemists .....	23.83	4.9	40.3	23.83	4.9	40.3	-	-	-
Geologists and geodesists .....	24.03	17.3	40.0	24.03	17.3	40.0	-	-	-
Physical scientists, n.e.c. ....	20.92	4.1	39.7	20.92	4.1	39.7	-	-	-
Agricultural and food scientists .....	21.33	12.9	40.0	21.33	12.9	40.0	-	-	-
Biological and life scientists .....	18.33	6.6	39.3	18.37	6.7	39.5	-	-	-
Forestry and conservation scientists .....	20.03	8.7	39.8	20.03	8.7	39.8	-	-	-
Medical scientists .....	21.39	6.6	39.3	21.17	6.7	40.0	-	-	-
Health related .....	21.99	1.7	36.9	21.86	1.7	39.7	22.90	4.4	24.6
Physicians .....	28.22	11.0	42.9	27.49	11.5	44.7	47.83	17.0	20.6
Registered nurses .....	20.95	1.4	36.1	20.73	1.2	39.1	22.46	4.5	23.7
Pharmacists .....	25.16	6.7	37.1	26.92	4.8	39.7	20.94	4.3	32.0
Dietitians .....	16.42	3.7	38.7	16.35	3.8	39.6	-	-	-
Respiratory therapists .....	17.19	3.3	34.4	17.94	2.7	39.1	15.33	1.1	26.5
Occupational therapists .....	22.97	4.9	33.9	22.33	5.5	38.6	27.40	11.3	18.4
Physical therapists .....	24.04	6.3	35.9	25.93	5.5	38.7	20.76	3.6	31.8
Speech therapists .....	23.69	11.2	35.4	23.60	11.9	37.3	25.13	8.7	19.6
Therapists, n.e.c. ....	17.22	7.2	38.0	16.82	7.1	39.4	21.52	11.6	27.3
Teachers, college and university .....	32.87	1.7	34.1	33.17	1.7	39.6	29.59	6.1	13.8
Earth, environmental, and marine science teachers .....	34.84	15.3	34.9	34.76	15.7	36.3	-	-	-
Biological science teachers .....	32.73	10.8	37.1	32.73	11.0	40.3	-	-	-
Chemistry teachers .....	29.18	4.0	41.5	29.21	4.0	43.2	-	-	-
Physics teachers .....	43.51	12.1	37.6	43.51	12.1	37.6	-	-	-
Natural science teachers, n.e.c. ....	39.73	7.7	39.6	39.73	7.7	39.6	-	-	-
Psychology teachers .....	29.74	7.1	35.9	29.95	7.5	39.9	-	-	-
History teachers .....	33.34	8.0	35.0	33.74	8.4	39.6	-	-	-
Political science teachers .....	32.20	7.8	38.0	32.21	7.9	39.7	-	-	-
Sociology teachers .....	36.83	9.2	36.3	37.29	9.2	39.5	-	-	-
Social science teachers, n.e.c. ....	32.15	8.9	38.6	32.26	9.0	39.5	-	-	-
Engineering teachers .....	38.92	15.6	39.3	39.19	16.1	41.3	32.42	29.0	18.3
Mathematical science teachers .....	32.52	7.9	32.5	33.23	8.6	39.2	25.91	10.6	12.6
Computer science teachers .....	25.13	13.0	30.8	31.11	10.2	38.1	20.30	1.7	26.7
Medical science teachers .....	43.27	9.5	37.2	39.31	11.0	45.8	72.65	9.8	15.6
Health specialties teachers .....	35.14	10.2	35.6	35.41	10.2	37.3	33.28	16.5	11.9
Business, commerce, and marketing teachers ..	33.16	6.0	37.0	33.35	6.4	40.2	26.65	12.7	10.0
Agriculture and forestry teachers .....	42.82	26.4	35.5	42.82	26.4	35.5	-	-	-
Art, drama, and music teachers .....	29.20	4.1	34.9	29.61	4.2	39.5	21.58	9.8	10.9
Physical education teachers .....	25.00	14.8	31.2	24.77	16.1	40.7	28.13	14.5	7.5
Education teachers .....	32.35	7.6	39.2	32.92	7.3	41.4	-	-	-
English teachers .....	32.99	4.8	33.2	33.25	5.0	38.2	28.94	7.0	10.8
Foreign language teachers .....	23.27	18.4	33.5	22.81	21.8	42.2	25.28	20.0	17.5
Theology teachers .....	36.25	3.8	40.8	35.60	2.6	40.9	-	-	-
Trade and industrial teachers .....	28.19	2.3	32.3	28.63	2.3	37.8	21.10	9.8	9.8
Teachers, post secondary, subject not specified	33.50	9.0	31.7	34.36	9.6	39.4	22.98	7.9	9.3

See footnotes at end of table.

Table 2-3. **State and local government, selected occupations: Mean hourly earnings<sup>1</sup> and weekly hours for full-time and part-time workers,<sup>2</sup> National Compensation Survey,<sup>3</sup> 1998–Continued**

Occupation <sup>4</sup>	Total			Full time			Part time		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)	
<b>White collar –Continued</b>									
<b>Professional specialty and technical –Continued</b>									
Professional specialty –Continued									
Teachers, college and university –Continued									
Teachers, post secondary, n.e.c. ....	\$30.50	1.5	31.4	\$30.81	1.5	38.5	\$27.97	6.1	12.5
Teachers, except college and university .....	27.68	.8	34.8	28.08	.8	36.5	17.29	4.1	15.7
Prekindergarten and kindergarten .....	26.35	2.7	35.0	26.48	2.8	36.8	23.29	7.8	15.5
Elementary school teachers .....	28.01	1.0	36.1	28.02	1.0	36.5	26.77	8.7	18.9
Secondary school teachers .....	28.12	1.3	36.7	28.10	1.3	37.0	30.29	5.0	23.0
Teachers, special education .....	28.96	1.9	35.5	29.04	1.9	35.8	24.12	17.5	23.5
Teachers, n.e.c. ....	28.22	2.7	32.4	28.82	2.8	36.0	19.66	9.7	13.2
Substitute teachers .....	10.02	3.6	16.2	10.88	9.6	33.6	9.86	3.9	14.8
Vocational and educational counselors .....	27.34	3.9	36.4	27.48	4.0	37.4	23.61	13.5	21.8
Librarians, archivists, and curators .....	21.56	2.9	37.1	21.86	2.9	38.5	17.79	5.0	25.0
Librarians .....	21.95	3.0	37.0	22.30	3.0	38.5	17.73	5.1	25.2
Archivists and curators .....	16.77	5.6	37.9	16.67	5.8	39.1	–	–	–
Social scientists and urban planners .....	24.27	4.7	37.5	24.34	4.8	38.6	21.30	8.6	16.9
Economists .....	20.77	7.2	40.0	20.77	7.2	40.0	–	–	–
Psychologists .....	27.38	5.4	37.0	27.59	5.5	38.0	21.50	8.9	21.2
Social scientists, n.e.c. ....	13.51	11.0	39.9	13.51	11.0	39.9	–	–	–
Urban planners .....	22.33	3.4	36.7	22.37	3.4	39.5	–	–	–
Social, recreation, and religious workers .....	16.73	1.6	37.9	16.80	1.7	39.1	14.58	5.4	19.5
Social workers .....	16.88	1.7	38.4	16.91	1.8	39.1	15.78	6.7	22.2
Recreation workers .....	14.34	4.9	31.3	14.83	5.2	39.2	11.70	8.5	14.9
Lawyers and judges .....	31.00	3.3	36.3	31.23	3.4	39.1	26.75	11.4	15.6
Lawyers .....	29.55	3.0	36.5	29.68	3.1	39.1	27.17	12.5	16.4
Judges .....	42.07	7.1	34.7	43.16	6.5	39.6	23.83	25.6	11.3
Writers, authors, entertainers, athletes, and professionals, n.e.c. ....	21.56	4.7	34.1	21.88	5.1	39.6	19.19	13.7	16.9
Designers .....	15.97	8.7	36.8	16.55	7.9	39.9	–	–	–
Musicians and composers .....	14.89	9.0	18.0	–	–	–	–	–	–
Painters, sculptors, craft artists, and artist printmakers .....	18.17	11.0	39.6	18.17	11.0	39.6	–	–	–
Artists, performers, and related workers, n.e.c. ....	15.41	2.7	27.3	14.61	1.1	38.0	16.74	5.1	18.7
Editors and reporters .....	18.90	5.2	38.3	19.18	5.0	39.3	–	–	–
Public relations specialists .....	19.16	4.9	34.4	19.47	5.0	39.0	–	–	–
Athletes .....	25.25	17.8	26.5	–	–	–	12.15	11.6	13.8
Professional, n.e.c. ....	23.78	6.5	37.2	23.23	6.0	39.9	28.08	19.4	24.0
Technical .....	15.02	1.2	37.5	15.06	1.4	39.6	14.60	6.5	22.8
Clinical laboratory technologists and technicians .....	15.02	5.4	38.5	15.01	5.6	39.6	15.51	5.5	22.3
Health record technologists and technicians .....	13.00	7.7	33.6	11.71	7.6	39.5	16.93	5.4	23.2
Radiological technicians .....	16.38	7.2	32.2	15.14	4.0	39.6	21.37	13.9	18.5
Licensed practical nurses .....	12.77	2.0	37.3	12.69	2.2	39.7	13.67	4.9	22.2
Health technologists and technicians, n.e.c. ....	13.57	2.3	36.9	13.82	2.2	39.8	11.09	8.5	21.1
Electrical and electronic technicians .....	14.75	14.6	38.6	14.83	15.0	39.7	–	–	–
Engineering technicians, n.e.c. ....	16.82	3.4	38.7	16.54	3.2	39.4	–	–	–
Drafters .....	18.32	4.6	39.3	18.42	4.8	40.0	–	–	–
Surveying and mapping technicians .....	16.08	6.2	39.2	16.08	6.2	39.2	–	–	–
Biological technicians .....	12.60	4.3	34.0	13.25	3.7	39.8	9.44	4.1	19.9
Chemical technicians .....	19.37	5.0	38.1	19.91	4.1	40.0	–	–	–
Science technicians, n.e.c. ....	15.57	4.3	38.0	15.56	4.4	38.8	–	–	–
Broadcast equipment operators .....	17.04	8.8	37.0	17.35	7.7	39.3	–	–	–
Computer programmers .....	19.51	4.0	39.7	19.51	4.0	39.9	–	–	–
Legal assistants .....	15.40	5.2	39.2	15.66	4.7	39.5	–	–	–
Technical and related, n.e.c. ....	16.12	4.5	36.9	16.27	4.7	39.2	14.48	6.7	22.5
<b>Executive, administrative, and managerial .....</b>	<b>24.99</b>	<b>1.1</b>	<b>38.6</b>	<b>25.04</b>	<b>1.1</b>	<b>39.4</b>	<b>20.62</b>	<b>7.3</b>	<b>13.3</b>
Executives, administrators, and managers .....	29.05	1.2	38.5	29.14	1.3	39.6	21.58	10.5	11.0
Legislators .....	15.09	13.3	13.2	12.98	16.9	33.8	17.90	21.2	7.3
Chief executives and general administrators, public administration .....	38.28	5.1	39.6	38.27	5.1	39.6	–	–	–

See footnotes at end of table.



Table 2-3. **State and local government, selected occupations: Mean hourly earnings<sup>1</sup> and weekly hours for full-time and part-time workers,<sup>2</sup> National Compensation Survey,<sup>3</sup> 1998–Continued**

Occupation <sup>4</sup>	Total			Full time			Part time		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)	
<b>White collar –Continued</b>									
<b>Executive, administrative, and managerial –Continued</b>									
Executives, administrators, and managers –Continued									
Administrators and officials, public administration .....									
	\$25.83	1.7	39.1	\$25.84	1.7	39.7	\$24.92	18.3	12.7
Financial managers .....	33.58	3.6	39.9	33.61	3.6	40.0	–	–	–
Personnel and labor relations managers .....	30.72	5.7	39.6	30.72	5.7	39.6	–	–	–
Purchasing managers .....	25.28	11.3	39.8	25.28	11.3	39.8	–	–	–
Managers, marketing, advertising, and public relations .....	22.56	11.1	39.5	22.56	11.1	39.5	–	–	–
Administrators, education and related fields .....	33.81	1.8	39.2	33.82	1.8	39.4	31.40	15.1	20.1
Managers, medicine and health .....	27.24	7.8	39.6	27.24	7.8	39.6	–	–	–
Managers, food servicing and lodging establishments .....	17.25	6.9	38.8	17.26	7.1	39.2	–	–	–
Managers, properties and real estate .....	22.17	6.0	39.2	22.17	6.0	39.2	–	–	–
Managers, service organizations, n.e.c. ....	20.54	4.3	38.3	20.91	4.2	39.3	–	–	–
Managers and administrators, n.e.c. ....	28.24	4.5	39.3	28.26	4.5	39.9	–	–	–
Management related .....	19.21	1.5	38.8	19.21	1.5	39.3	19.27	8.7	19.2
Accountants and auditors .....	18.37	3.6	39.0	18.35	3.6	39.3	–	–	–
Other financial officers .....	22.30	6.7	38.0	22.30	6.7	38.2	–	–	–
Management analysts .....	20.27	2.9	39.3	20.01	2.8	39.6	–	–	–
Personnel, training, and labor relations specialists .....	18.72	2.8	39.3	18.69	2.8	39.5	21.53	9.8	26.9
Buyers, wholesale and retail trade, except farm products .....	22.29	7.1	39.6	22.29	7.1	39.6	–	–	–
Purchasing agents and buyers, n.e.c. ....	15.38	3.3	39.9	15.38	3.3	39.9	–	–	–
Construction inspectors .....	19.81	4.0	39.0	19.77	4.0	39.6	–	–	–
Inspectors and compliance officers, except construction .....	17.78	4.2	38.5	17.80	4.2	38.9	–	–	–
Management related, n.e.c. ....	20.81	2.6	38.5	20.92	2.6	39.2	14.65	12.5	19.5
<b>Sales</b>									
Supervisors, sales .....	12.10	4.8	32.2	12.49	4.9	37.8	10.55	14.7	20.2
Real estate sales .....	16.52	11.6	32.3	15.25	7.1	39.9	–	–	–
Sales workers, other commodities .....	18.69	11.5	35.9	19.04	11.7	38.6	–	–	–
Cashiers .....	9.05	9.5	30.6	9.54	11.2	39.1	–	–	–
	10.53	5.9	31.5	11.03	7.1	36.8	8.90	5.4	21.5
<b>Administrative support, including clerical</b>									
Supervisors, general office .....	12.01	.7	36.3	12.16	.7	38.7	10.19	2.5	21.0
Supervisors, computer equipment operators .....	16.01	1.8	39.2	16.01	1.8	39.2	–	–	–
Supervisors, financial records processing .....	22.36	3.9	39.1	22.36	3.9	39.1	–	–	–
Chief communications operators .....	16.67	4.8	38.3	16.67	4.8	38.3	–	–	–
Supervisors, distribution, scheduling, and adjusting clerks .....	15.30	7.8	40.0	15.30	7.8	40.0	–	–	–
Computer operators .....	17.00	9.9	38.7	17.00	9.9	38.7	–	–	–
Secretaries .....	12.96	3.9	38.7	13.04	3.7	39.5	–	–	–
Stenographers .....	12.66	1.2	38.3	12.72	1.2	39.1	10.32	3.8	21.6
Typists .....	16.30	4.6	35.4	16.28	4.8	38.5	–	–	–
Interviewers .....	11.66	1.7	37.2	11.69	1.8	38.5	10.70	5.1	19.2
Receptionists .....	10.40	4.4	38.0	10.26	4.7	39.7	12.24	5.4	23.9
Information clerks, n.e.c. ....	9.60	4.3	34.9	9.80	4.7	39.2	7.98	5.2	18.3
Order clerks .....	12.14	4.7	36.6	12.12	5.2	39.5	12.25	12.1	20.8
Personnel clerks, except payroll and timekeeping .....	15.57	5.6	38.8	15.73	5.5	40.0	–	–	–
Library clerks .....	13.18	5.2	35.2	13.70	5.5	39.3	–	–	–
File clerks .....	10.20	2.3	29.5	10.68	3.1	38.2	8.99	3.2	18.8
Records clerks, n.e.c. ....	9.95	5.8	37.4	10.08	6.0	39.1	–	–	–
Bookkeepers, accounting and auditing clerks .....	11.30	2.9	38.0	11.27	3.0	39.3	11.82	7.0	23.8
Payroll and timekeeping clerks .....	12.50	1.7	38.7	12.52	1.7	39.1	11.48	5.5	24.4
Billing clerks .....	13.67	4.1	38.1	13.68	4.1	39.1	–	–	–
Duplicating machine operators .....	11.43	6.6	37.0	11.52	6.9	40.0	–	–	–
	9.01	6.8	39.6	9.00	6.8	39.9	–	–	–

See footnotes at end of table.

Table 2-3. **State and local government, selected occupations: Mean hourly earnings<sup>1</sup> and weekly hours for full-time and part-time workers,<sup>2</sup> National Compensation Survey,<sup>3</sup> 1998–Continued**

Occupation <sup>4</sup>	Total			Full time			Part time		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)	
<b>White collar –Continued</b>									
<b>Administrative support, including clerical –Continued</b>									
Telephone operators .....	\$10.54	6.9	37.3	\$10.56	7.2	39.3	–	–	–
Communications equipment operators, n.e.c. ....	11.45	3.2	32.9	–	–	–	–	–	–
Mail clerks, except postal service .....	8.36	9.8	39.1	8.39	10.0	39.8	–	–	–
Messengers .....	9.76	9.3	35.7	9.98	9.0	38.0	–	–	–
Dispatchers .....	13.27	4.6	38.4	13.38	4.7	40.0	\$10.67	10.6	20.3
Production coordinators .....	16.84	9.4	39.8	16.84	9.4	39.8	–	–	–
Traffic, shipping and receiving clerks .....	13.37	3.5	38.7	13.37	3.5	38.7	–	–	–
Stock and inventory clerks .....	11.62	3.7	39.2	11.67	3.8	39.5	9.93	8.1	31.8
Meter readers .....	13.45	5.0	38.9	13.54	5.2	40.0	–	–	–
Material recording, scheduling, and distribution clerks, n.e.c. ....	14.06	6.3	40.0	14.06	6.3	40.0	–	–	–
Insurance adjusters, examiners, and investigators .....	14.32	6.4	40.0	14.32	6.4	40.0	–	–	–
Investigators and adjusters, except insurance ...	14.89	5.1	38.3	15.11	5.2	39.8	–	–	–
Eligibility clerks, social welfare .....	13.61	2.1	38.5	13.68	2.1	38.8	9.96	7.7	27.1
Bill and account collectors .....	12.96	4.1	39.6	12.96	4.1	39.6	–	–	–
General office clerks .....	11.46	1.3	37.1	11.63	1.2	39.2	9.05	6.0	21.5
Data entry keyers .....	11.20	3.3	38.8	11.24	3.3	39.3	–	–	–
Statistical clerks .....	10.34	4.0	38.8	10.39	4.1	39.8	–	–	–
Teachers' aides .....	9.60	1.8	30.5	9.25	1.7	35.4	10.63	4.0	21.6
Administrative support, n.e.c. ....	12.50	1.7	36.6	12.67	1.8	39.0	10.19	7.0	19.7
<b>Blue collar .....</b>	<b>14.44</b>	<b>1.1</b>	<b>37.5</b>	<b>14.66</b>	<b>1.2</b>	<b>39.4</b>	<b>10.89</b>	<b>2.0</b>	<b>21.1</b>
<b>Precision production, craft, and repair .....</b>									
Supervisors, mechanics and repairers .....	16.39	1.5	39.8	16.40	1.5	39.8	11.73	9.8	18.3
Automobile mechanics .....	19.75	3.7	39.9	19.75	3.7	39.9	–	–	–
Bus, truck, and stationary engine mechanics ....	17.62	8.1	39.8	17.62	8.1	39.8	–	–	–
Small engine repairs .....	16.50	4.0	40.0	16.50	4.0	40.0	–	–	–
Heavy equipment mechanics .....	12.42	6.8	40.0	12.42	6.8	40.0	–	–	–
Industrial machinery repairers .....	16.36	5.4	40.0	16.36	5.4	40.0	–	–	–
Machinery maintenance .....	17.88	6.5	40.0	17.88	6.5	40.0	–	–	–
Electronic repairers, communications and industrial equipment .....	14.66	8.2	38.4	14.69	8.2	38.5	–	–	–
Data processing equipment repairers .....	17.53	5.2	39.3	17.63	5.2	40.0	–	–	–
Heating, air conditioning, and refrigeration mechanics .....	15.78	4.2	40.0	15.78	4.2	40.0	–	–	–
Mechanical controls and valve repairers .....	14.97	3.4	39.6	14.96	3.4	39.9	–	–	–
Mechanics and repairers, n.e.c. ....	17.35	4.5	38.3	17.70	4.1	40.0	–	–	–
Supervisors, electricians and power transmission installers .....	14.26	2.6	39.7	14.28	2.6	39.8	–	–	–
Supervisors, plumbers, pipefitters, and steamfitters .....	23.39	13.0	40.0	23.39	13.0	40.0	–	–	–
Supervisors, construction trades, n.e.c. ....	22.44	12.2	39.8	22.44	12.2	39.8	–	–	–
Carpenters .....	16.76	6.3	39.9	16.76	6.3	39.9	–	–	–
Electricians .....	17.35	5.7	39.4	17.36	5.7	39.5	–	–	–
Electrician apprentices .....	17.60	3.7	39.9	17.60	3.7	39.9	–	–	–
Electrical power installers and repairers .....	17.81	4.7	40.0	17.81	4.7	40.0	–	–	–
Painters, construction and maintenance .....	19.92	2.8	40.0	19.92	2.8	40.0	–	–	–
Plumbers, pipefitters and steamfitters .....	16.50	5.7	39.4	16.50	5.7	39.4	–	–	–
Plumber, pipefitter, and steamfitter apprentices	16.98	4.7	39.7	16.98	4.7	39.7	–	–	–
Concrete and terrazzo finishers .....	15.80	4.7	40.0	15.80	4.7	40.0	–	–	–
Paving, surfacing, and tamping equipment operators .....	15.55	10.5	40.0	15.55	10.5	40.0	–	–	–
Construction trades, n.e.c. ....	12.87	1.7	40.0	12.87	1.7	40.0	–	–	–
Supervisors, production .....	13.00	3.9	39.7	12.99	3.9	39.8	–	–	–
Machinists .....	17.99	10.3	40.0	17.99	10.3	40.0	–	–	–
Inspectors, testers, and graders .....	20.08	7.1	40.0	20.08	7.1	40.0	–	–	–
Water and sewer treatment plant operators .....	18.23	4.5	39.6	18.24	4.5	39.7	–	–	–
Power plant operators .....	15.68	3.1	39.9	15.69	3.1	40.0	–	–	–
	21.40	4.5	39.8	21.40	4.5	39.8	–	–	–

See footnotes at end of table.

Table 2-3. **State and local government, selected occupations: Mean hourly earnings<sup>1</sup> and weekly hours for full-time and part-time workers,<sup>2</sup> National Compensation Survey,<sup>3</sup> 1998–Continued**

Occupation <sup>4</sup>	Total			Full time			Part time		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)	
<b>Blue collar –Continued</b>									
<b>Precision production, craft, and repair –Continued</b>									
Stationary engineers .....	\$18.89	6.6	39.7	\$18.89	6.6	39.7	–	–	–
Miscellaneous plant and system operators, n.e.c. ....	14.38	5.2	40.0	14.38	5.2	40.0	–	–	–
<b>Machine operators, assemblers, and inspectors .....</b>	<b>13.50</b>	<b>6.6</b>	<b>38.3</b>	<b>13.62</b>	<b>6.7</b>	<b>39.6</b>	<b>\$9.95</b>	<b>7.0</b>	<b>19.3</b>
Printing press operators .....	11.94	4.3	37.9	12.00	4.5	39.8	–	–	–
Laundering and dry cleaning machine operators .....	8.67	6.2	37.5	8.58	6.5	39.8	10.47	7.7	17.2
Furnace, kiln, and oven operators, except food .....	15.67	3.6	39.5	15.67	3.6	39.5	–	–	–
Miscellaneous machine operators, n.e.c. ....	14.71	12.5	38.8	14.73	12.6	39.2	–	–	–
Welders and cutters .....	18.88	7.5	40.0	18.88	7.5	40.0	–	–	–
<b>Transportation and material moving .....</b>	<b>13.52</b>	<b>1.7</b>	<b>33.8</b>	<b>13.87</b>	<b>1.9</b>	<b>38.3</b>	<b>11.62</b>	<b>2.2</b>	<b>20.8</b>
Supervisors, motor vehicle operators .....	16.11	12.5	39.9	16.11	12.5	39.9	–	–	–
Truck drivers .....	13.55	3.8	39.4	13.64	3.8	39.9	8.82	7.2	23.5
Bus drivers .....	13.44	1.7	28.5	14.39	2.0	35.6	11.65	2.2	20.7
Taxicab drivers and chauffeurs .....	9.55	19.8	31.6	7.48	11.0	38.9	–	–	–
Motor transportation, n.e.c. ....	14.13	5.4	39.2	14.16	5.4	39.4	–	–	–
Locomotive operating .....	19.46	3.3	39.9	19.49	3.3	40.0	–	–	–
Ship captains and mates, except fishing boats ..	21.56	10.2	40.0	21.56	10.2	40.0	–	–	–
Bridge, lock and lighthouse tenders .....	11.16	2.1	40.0	–	–	–	–	–	–
Supervisors, material moving equipment .....	14.40	10.4	39.3	14.40	10.4	39.3	–	–	–
Operating engineers .....	13.42	7.8	40.0	13.42	7.8	40.0	–	–	–
Excavating and loading machine operators .....	12.68	8.9	40.0	12.68	8.9	40.0	–	–	–
Grader, dozer, and scrapper operators .....	12.63	8.5	39.9	12.63	8.5	39.9	–	–	–
Industrial truck and tractor equipment operators ..	11.00	3.7	40.0	11.00	3.7	40.0	–	–	–
Miscellaneous material moving equipment operators, n.e.c. ....	12.99	3.8	39.1	13.01	3.8	39.4	–	–	–
<b>Handlers, equipment cleaners, helpers, and laborers .....</b>	<b>11.84</b>	<b>2.0</b>	<b>38.4</b>	<b>12.05</b>	<b>2.1</b>	<b>39.8</b>	<b>7.98</b>	<b>4.1</b>	<b>22.7</b>
Supervisors, agriculture-related workers .....	16.57	4.1	39.7	16.65	4.1	40.0	–	–	–
Groundskeepers and gardeners, except farm ...	11.29	2.9	37.7	11.64	3.1	39.7	7.74	5.3	25.1
Animal caretakers, except farm .....	10.68	11.0	39.5	10.68	11.0	39.5	–	–	–
Supervisors, handlers, equipment cleaners, and laborers, n.e.c. ....	15.63	4.7	40.0	15.63	4.7	40.0	–	–	–
Helpers, mechanics and repairers .....	12.80	6.0	38.5	12.87	6.1	39.6	–	–	–
Helpers, construction trades .....	11.16	5.1	40.0	11.17	5.1	40.0	–	–	–
Construction laborers .....	11.19	4.0	38.9	11.31	4.1	39.7	8.05	2.3	25.5
Production helpers .....	10.44	8.4	23.8	11.10	13.0	40.0	–	–	–
Garbage collectors .....	13.63	11.2	39.6	13.79	10.9	39.9	–	–	–
Stock handlers and baggers .....	10.80	4.9	38.2	11.01	4.9	40.0	–	–	–
Freight, stock, and material handlers, n.e.c. ....	11.11	9.0	39.1	11.16	9.1	40.0	–	–	–
Garage and service station related .....	12.37	6.6	34.2	11.26	2.7	40.0	–	–	–
Vehicle washers and equipment cleaners .....	11.57	7.5	37.4	11.84	7.3	39.7	–	–	–
Laborers, except construction, n.e.c. ....	11.17	3.2	38.1	11.39	3.3	40.0	7.10	3.4	20.3
<b>Service .....</b>	<b>13.84</b>	<b>1.3</b>	<b>36.7</b>	<b>14.33</b>	<b>1.4</b>	<b>40.1</b>	<b>8.65</b>	<b>1.5</b>	<b>19.3</b>
Protective service .....	17.25	1.9	39.7	17.48	2.0	41.3	9.53	3.9	17.1
Supervisors, firefighters and fire prevention .....	20.04	2.9	49.4	20.04	2.9	49.5	–	–	–
Supervisors, police and detectives .....	24.19	2.7	40.1	24.19	2.7	40.2	–	–	–
Supervisors, guards .....	18.97	11.8	37.9	19.61	11.4	39.1	–	–	–
Fire inspection and fire prevention .....	18.97	4.8	37.1	19.19	4.9	40.9	–	–	–
Firefighting .....	15.35	2.5	44.6	15.55	2.3	48.6	7.15	10.1	10.2
Police and detectives, public service .....	19.54	1.4	39.6	19.62	1.3	40.0	9.95	12.0	18.3
Sheriffs, bailiffs, and other law enforcement officers .....	15.91	2.6	38.7	16.02	2.7	39.8	12.49	7.7	21.0
Correctional institution officers .....	14.37	4.4	39.8	14.38	4.4	39.9	–	–	–
Crossing guards .....	8.70	4.6	17.2	–	–	–	8.36	4.6	16.9
Guards and police, except public service .....	12.28	2.5	33.3	12.62	2.6	39.1	10.55	4.2	18.7
Protective service, n.e.c. ....	12.85	4.6	32.0	13.88	5.0	39.8	9.45	7.4	19.6

See footnotes at end of table.

Table 2-3. **State and local government, selected occupations: Mean hourly earnings<sup>1</sup> and weekly hours for full-time and part-time workers,<sup>2</sup> National Compensation Survey,<sup>3</sup> 1998–Continued**

Occupation <sup>4</sup>	Total			Full time			Part time		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)	
<b>Service –Continued</b>									
Food service .....	\$9.12	1.3	29.7	\$9.45	2.0	36.3	\$8.29	1.7	20.4
Supervisors, food preparation and service .....	11.75	4.0	37.0	11.81	4.2	37.7	–	–	–
Cooks .....	9.45	1.8	32.6	9.64	1.9	35.6	8.61	4.1	23.7
Food counter, fountain, and related .....	7.60	2.9	23.1	7.11	4.2	35.1	7.90	3.9	19.2
Kitchen workers, food preparation .....	8.05	3.4	29.7	7.91	4.5	37.0	8.39	4.5	20.4
Waiters/Waitresses' assistants .....	10.19	9.6	25.3	–	–	–	–	–	–
Food preparation, n.e.c. ....	8.70	1.8	27.4	9.02	2.7	35.8	8.20	2.5	19.9
Health service .....	10.58	1.8	36.7	10.68	1.9	39.3	9.42	5.1	20.3
Dental assistants .....	9.68	7.9	40.0	9.68	7.9	40.0	–	–	–
Health aides, except nursing .....	11.16	2.6	37.1	11.21	2.8	39.0	10.24	4.7	21.0
Nursing aides, orderlies and attendants .....	10.36	2.4	36.4	10.47	2.6	39.4	9.19	6.7	20.1
Cleaning and building service .....	10.77	1.2	38.3	10.86	1.3	39.7	8.64	3.7	20.4
Supervisors, cleaning and building service workers .....	14.93	3.6	39.9	14.93	3.6	39.9	–	–	–
Maids and housemen .....	8.25	6.1	36.6	8.03	6.1	39.7	11.39	7.3	17.2
Janitors and cleaners .....	10.47	1.3	38.2	10.56	1.4	39.7	8.46	3.7	20.6
Personal service .....	9.49	2.4	28.2	10.10	3.4	37.3	8.33	2.1	19.1
Supervisors, personal service .....	15.04	7.6	32.9	15.95	8.8	39.1	11.18	7.9	19.8
Attendants, amusement, and recreation facilities .....	7.42	2.9	24.9	7.98	6.2	40.0	7.05	1.8	20.1
Guides .....	12.32	10.8	24.6	–	–	–	6.82	3.7	17.6
Ushers .....	6.33	1.7	4.4	–	–	–	6.33	1.7	4.4
Public transportation attendants .....	13.66	11.9	34.9	15.43	9.6	39.5	9.24	5.4	27.1
Welfare service aides .....	9.38	6.4	34.3	9.48	7.1	38.5	8.48	4.1	17.4
Early childhood teachers' assistants .....	8.86	2.7	30.8	8.98	3.1	36.3	8.53	4.8	21.3
Child care workers, n.e.c. ....	9.45	4.3	23.2	10.50	9.8	36.5	8.64	3.3	18.1
Service, n.e.c. ....	11.12	4.0	29.7	11.60	3.9	37.8	9.24	11.1	16.1

<sup>1</sup> 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.

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

a 40-hour week is the minimum full-time schedule.

<sup>3</sup> This survey covers all 50 States. Collection was conducted between July 1997 and April 1999. The average reference period was August 1998.

<sup>4</sup> A classification system including about 480 individual occupations is used to cover all workers in the civilian economy. For more information, see appendix B.

<sup>5</sup> 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 2-4. Selected occupations<sup>1</sup> and levels:<sup>2</sup> Mean hourly earnings<sup>3</sup> and weekly hours, private industry and State and local government, National Compensation Survey,<sup>4</sup> 1998

Occupation and level	Total			Private industry			State and local government		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)	
All .....	\$15.72	0.5	36.5	\$14.95	0.6	36.5	\$18.59	0.6	36.6
All excluding sales .....	15.89	.5	36.8	15.10	.6	36.8	18.61	.6	36.6
<b>White collar</b> .....	19.39	.5	36.7	18.83	.7	36.8	20.96	.5	36.4
1 .....	6.85	.8	27.4	6.78	.8	27.4	7.58	2.4	27.6
2 .....	8.44	.8	31.7	8.38	1.0	31.6	8.74	1.4	32.2
3 .....	9.25	1.3	34.4	9.09	1.3	34.3	10.08	1.1	35.0
4 .....	11.41	.6	37.0	11.41	.7	37.0	11.44	.8	36.8
5 .....	13.84	.6	37.5	13.98	.7	38.0	13.40	.9	35.9
6 .....	15.69	.9	37.9	15.73	.8	38.4	15.58	2.3	36.7
7 .....	18.97	.6	37.8	18.43	.7	38.2	20.04	1.2	37.1
8 .....	21.29	.6	37.4	20.08	.6	37.8	23.44	1.3	36.7
9 .....	25.07	.6	37.3	23.76	.7	38.1	26.96	.9	36.1
10 .....	27.17	.8	38.9	27.85	1.0	39.5	25.48	1.4	37.5
11 .....	31.31	.8	39.0	32.18	.9	39.3	28.75	1.1	38.1
12 .....	36.62	1.8	39.9	37.00	2.2	40.4	34.80	1.6	37.7
13 .....	45.19	1.8	39.8	48.44	2.0	39.7	37.21	1.9	40.1
14 .....	57.56	1.8	40.9	59.32	1.9	41.4	47.56	3.9	38.4
15 .....	64.13	7.9	40.8	80.61	7.9	41.6	46.26	3.5	39.9
Not able to be leveled .....	27.75	4.1	35.3	29.20	5.3	35.6	24.52	4.1	34.6
White collar excluding sales .....	20.27	.5	37.3	19.96	.7	37.7	21.00	.5	36.4
1 .....	7.36	1.5	30.0	7.29	1.8	30.6	7.64	2.6	27.9
2 .....	8.82	.9	34.0	8.84	1.1	34.5	8.75	1.4	32.3
3 .....	9.73	.9	35.9	9.64	1.1	36.1	10.05	1.1	35.1
4 .....	11.60	.5	37.6	11.65	.7	37.8	11.43	.8	36.8
5 .....	13.62	.5	37.3	13.70	.5	37.9	13.39	.9	35.9
6 .....	15.49	.9	37.7	15.45	.7	38.1	15.58	2.3	36.7
7 .....	18.83	.6	37.6	18.16	.6	37.9	20.06	1.2	37.1
8 .....	21.24	.7	37.2	19.82	.6	37.4	23.45	1.3	36.8
9 .....	24.95	.6	37.2	23.48	.6	38.0	26.96	.9	36.1
10 .....	26.85	.8	38.8	27.44	.9	39.4	25.49	1.4	37.5
11 .....	30.98	.8	38.9	31.79	.9	39.2	28.75	1.1	38.1
12 .....	36.30	1.8	39.9	36.62	2.2	40.4	34.80	1.6	37.7
13 .....	44.75	1.6	39.8	47.84	1.8	39.7	37.21	1.9	40.1
14 .....	57.30	1.7	40.9	59.01	1.8	41.4	47.56	3.9	38.4
15 .....	64.13	7.9	40.8	80.61	7.9	41.6	46.26	3.5	39.9
Not able to be leveled .....	27.84	4.1	35.3	29.38	5.4	35.7	24.52	4.1	34.6
<b>Professional specialty and technical</b> .....	24.10	.6	36.4	23.63	.8	36.7	24.85	.6	35.9
Professional specialty .....	25.90	.5	36.3	25.80	.8	36.8	26.03	.6	35.7
2 .....	7.06	4.7	14.1	7.86	4.2	22.0	6.41	4.8	11.0
3 .....	7.04	3.4	15.1	6.80	6.7	22.4	7.29	2.0	11.3
4 .....	9.64	4.2	23.0	10.35	5.5	25.6	8.15	3.9	19.0
5 .....	13.88	1.5	32.7	14.31	1.9	35.5	13.23	2.4	29.2
6 .....	17.55	2.5	35.0	15.97	1.8	36.1	19.56	4.3	33.6
7 .....	20.64	1.0	36.0	19.10	1.0	35.6	22.09	1.7	36.3
8 .....	22.71	.9	35.6	20.23	1.0	34.9	24.91	1.4	36.2
9 .....	25.76	.8	35.9	23.12	.9	36.3	28.03	1.0	35.6
10 .....	26.26	.9	38.0	26.72	1.0	38.8	25.39	2.0	36.5
11 .....	29.77	.8	38.4	30.49	.8	39.0	27.80	1.7	36.9
12 .....	36.25	.9	39.0	36.69	1.0	39.8	34.33	2.1	35.9
13 .....	42.49	2.6	39.5	46.31	3.2	39.2	36.01	2.6	40.2
14 .....	52.02	2.5	39.9	53.07	2.8	40.4	47.97	4.3	38.1
15 .....	49.95	3.8	40.6	59.97	5.1	42.7	46.10	3.5	39.9
Not able to be leveled .....	29.18	5.6	34.1	29.82	8.0	32.9	27.89	4.4	36.9
Engineers, architects, and surveyors .....	28.97	.7	40.3	29.30	.7	40.4	25.43	1.7	39.5
5 .....	18.16	3.0	40.2	18.48	2.8	40.2	-	-	-
6 .....	19.70	1.9	40.0	19.48	2.0	40.2	-	-	-
7 .....	22.13	2.3	40.1	22.20	2.4	40.2	21.36	4.5	39.4
8 .....	23.22	2.8	40.4	23.35	3.0	40.6	21.91	4.4	38.4
9 .....	24.65	1.0	40.3	24.83	1.1	40.4	23.49	2.1	39.4
10 .....	27.91	1.3	40.3	28.25	1.1	40.2	25.08	4.8	41.1
11 .....	30.97	.8	40.4	31.14	.8	40.5	29.32	3.7	39.1
12 .....	35.06	.9	40.3	35.24	.9	40.3	30.61	4.0	39.5

See footnotes at end of table.

Table 2-4. Selected occupations<sup>1</sup> and levels:<sup>2</sup> Mean hourly earnings<sup>3</sup> and weekly hours, private industry and State and local government, National Compensation Survey,<sup>4</sup> 1998—Continued

Occupation and level	Total			Private industry			State and local government		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)	
<b>White collar—Continued</b>									
<b>Professional specialty and technical—Continued</b>									
Professional specialty—Continued									
Engineers, architects, and surveyors—Continued									
13 .....	\$42.02	1.2	40.6	\$42.09	1.2	40.6	—	—	—
14 .....	45.30	1.9	40.1	45.39	1.9	40.1	—	—	—
15 .....	47.43	2.0	41.1	48.00	1.8	40.3	—	—	—
Not able to be leveled .....	27.50	5.1	39.7	27.62	5.5	39.6	—	—	—
Architects .....	25.85	5.7	40.1	25.69	9.8	40.8	\$26.05	4.0	39.3
8 .....	21.81	4.4	40.0	21.25	4.0	40.0	—	—	—
9 .....	24.79	3.6	39.3	24.88	6.9	40.0	24.75	4.2	39.1
11 .....	31.80	4.0	38.5	31.72	4.3	38.4	—	—	—
12 .....	31.09	7.6	41.8	—	—	—	—	—	—
Aerospace engineers .....	30.96	2.5	40.1	30.96	2.5	40.1	—	—	—
7 .....	21.48	2.3	40.0	21.48	2.3	40.0	—	—	—
9 .....	25.24	2.3	40.1	25.24	2.3	40.1	—	—	—
10 .....	25.76	2.4	40.0	25.76	2.4	40.0	—	—	—
11 .....	30.34	1.9	40.0	30.34	1.9	40.0	—	—	—
12 .....	33.64	1.6	40.2	33.64	1.6	40.2	—	—	—
13 .....	41.01	3.6	40.0	41.01	3.6	40.0	—	—	—
Metallurgical and materials engineers .....	27.28	5.0	40.2	28.65	4.4	40.3	—	—	—
8 .....	20.99	4.9	41.2	20.99	4.9	41.2	—	—	—
9 .....	28.42	11.2	40.0	28.42	11.2	40.0	—	—	—
10 .....	25.24	4.6	40.0	28.47	5.6	40.0	—	—	—
Mining engineers .....	32.66	7.6	33.3	32.66	7.6	33.3	—	—	—
Petroleum engineers .....	43.02	4.4	40.5	43.02	4.4	40.5	—	—	—
9 .....	37.91	5.5	39.8	37.91	5.5	39.8	—	—	—
11 .....	35.70	2.3	40.2	35.70	2.3	40.2	—	—	—
12 .....	48.51	6.8	41.3	48.51	6.8	41.3	—	—	—
13 .....	46.72	2.6	40.1	46.72	2.6	40.1	—	—	—
Chemical engineers .....	33.37	2.2	40.0	33.38	2.2	40.0	—	—	—
9 .....	26.50	1.6	40.0	26.47	1.6	40.0	—	—	—
10 .....	32.74	3.1	40.6	32.74	3.1	40.6	—	—	—
11 .....	34.31	2.0	40.1	34.31	2.0	40.1	—	—	—
12 .....	40.70	7.3	40.0	40.70	7.3	40.0	—	—	—
Nuclear engineers .....	34.60	2.1	40.6	35.18	1.8	40.6	—	—	—
9 .....	28.66	7.9	40.0	29.90	5.6	40.0	—	—	—
11 .....	34.57	2.9	41.2	34.57	2.9	41.2	—	—	—
12 .....	39.01	4.5	40.4	39.01	4.5	40.4	—	—	—
13 .....	39.74	2.7	40.0	—	—	—	—	—	—
Civil engineers .....	27.69	2.3	40.1	28.60	3.1	40.7	26.36	2.5	39.3
5 .....	18.15	4.3	39.5	—	—	—	—	—	—
6 .....	20.09	3.6	39.3	18.80	3.0	40.3	—	—	—
7 .....	21.26	3.1	39.9	21.61	5.2	40.3	20.86	1.9	39.4
8 .....	21.55	4.0	40.4	21.69	5.4	40.8	21.35	5.6	39.8
9 .....	23.81	2.4	40.1	23.63	3.2	40.8	23.99	3.6	39.5
10 .....	29.90	4.4	40.2	30.32	8.0	40.6	29.51	3.7	39.8
11 .....	29.57	3.1	39.9	28.42	3.8	40.7	31.01	4.7	39.0
12 .....	34.01	4.6	40.5	35.42	5.2	41.1	30.36	7.6	39.0
13 .....	41.87	2.5	40.3	41.91	2.9	40.4	—	—	—
14 .....	45.34	6.3	40.1	45.34	6.3	40.1	—	—	—
Electrical and electronic engineers .....	30.35	1.1	40.3	30.48	1.1	40.4	26.81	4.4	40.0
5 .....	19.42	5.4	39.3	19.42	5.4	39.3	—	—	—
6 .....	19.88	3.3	40.0	19.88	3.3	40.0	—	—	—
7 .....	23.25	2.5	40.0	22.99	2.2	40.0	—	—	—
8 .....	27.35	6.1	40.5	27.23	6.3	40.5	—	—	—
9 .....	26.46	1.2	40.4	26.42	1.3	40.4	27.93	.2	40.2
10 .....	29.12	2.7	40.2	29.20	2.7	40.2	—	—	—
11 .....	31.24	1.2	40.4	31.78	1.3	40.5	—	—	—
12 .....	35.94	1.5	40.4	35.98	1.5	40.5	—	—	—
13 .....	44.90	2.3	41.8	44.90	2.3	41.8	—	—	—
14 .....	47.48	4.8	40.4	47.48	4.8	40.4	—	—	—

See footnotes at end of table.

Table 2-4. Selected occupations<sup>1</sup> and levels:<sup>2</sup> Mean hourly earnings<sup>3</sup> and weekly hours, private industry and State and local government, National Compensation Survey,<sup>4</sup> 1998–Continued

Occupation and level	Total			Private industry			State and local government		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)	
<b>White collar –Continued</b>									
<b>Professional specialty and technical –Continued</b>									
Professional specialty –Continued									
Engineers, architects, and surveyors –Continued									
Electrical and electronic engineers –Continued									
Not able to be leveled .....	\$30.78	18.4	37.2	\$30.78	18.4	37.2	–	–	–
Industrial engineers .....	25.26	2.4	40.6	25.34	2.4	40.6	\$19.64	3.4	39.7
5 .....	16.53	1.3	40.0	16.53	1.3	40.0	–	–	–
6 .....	16.00	6.5	40.0	16.00	6.5	40.0	–	–	–
7 .....	19.53	2.4	40.5	19.53	2.4	40.5	–	–	–
8 .....	21.18	6.8	41.1	21.18	6.8	41.1	–	–	–
9 .....	23.03	2.1	40.3	23.12	2.2	40.3	19.83	3.5	39.7
10 .....	27.14	2.9	41.6	27.29	2.9	41.6	–	–	–
11 .....	28.25	2.1	40.6	28.26	2.1	40.6	–	–	–
12 .....	32.54	5.2	40.7	32.54	5.2	40.7	–	–	–
13 .....	42.76	4.4	40.4	42.76	4.4	40.4	–	–	–
Mechanical engineers .....	26.26	1.2	40.2	26.30	1.3	40.4	25.24	8.2	36.9
5 .....	18.28	5.4	40.3	18.28	5.4	40.3	–	–	–
6 .....	18.02	5.8	40.9	18.02	5.8	40.9	–	–	–
7 .....	21.55	3.5	39.3	21.55	3.5	39.3	–	–	–
8 .....	22.61	4.2	39.7	22.82	4.4	40.5	–	–	–
9 .....	24.48	1.5	40.3	24.48	1.5	40.4	–	–	–
10 .....	24.97	3.8	40.5	24.79	3.9	40.6	–	–	–
11 .....	29.66	1.8	40.6	29.70	1.8	40.6	–	–	–
12 .....	32.99	1.8	40.4	32.98	1.9	40.4	–	–	–
13 .....	34.80	3.1	40.1	34.80	3.1	40.1	–	–	–
Not able to be leveled .....	21.33	2.8	40.0	21.33	2.8	40.0	–	–	–
Marine engineers and naval architects .....	30.54	5.7	41.3	32.03	4.5	41.5	–	–	–
Engineers, n.e.c. ....	30.11	1.2	40.3	30.48	1.2	40.3	23.96	4.9	40.2
5 .....	18.44	4.5	40.2	19.32	3.0	40.2	–	–	–
6 .....	21.10	2.2	40.2	21.10	2.2	40.2	–	–	–
7 .....	22.45	4.9	40.6	22.61	5.1	40.7	–	–	–
8 .....	24.57	3.1	40.2	24.62	3.1	40.2	–	–	–
9 .....	24.86	2.5	40.4	25.13	2.8	40.4	22.51	2.4	39.7
10 .....	28.32	1.9	40.4	28.78	1.4	40.1	–	–	–
11 .....	31.90	1.5	40.5	32.09	1.5	40.6	29.32	2.2	38.4
12 .....	35.13	.9	40.0	35.18	.9	40.0	–	–	–
13 .....	42.01	2.1	40.4	42.00	2.1	40.4	–	–	–
14 .....	44.35	2.5	40.2	44.35	2.5	40.2	–	–	–
Not able to be leveled .....	28.80	5.4	40.3	28.80	5.4	40.3	–	–	–
Surveyors and mapping scientists .....	21.13	4.9	40.1	22.59	7.6	41.5	19.39	6.4	38.5
Mathematical and computer scientists .....	27.95	1.5	40.0	28.64	1.6	40.0	21.52	2.8	39.7
5 .....	16.27	3.0	40.0	16.48	3.0	40.0	–	–	–
6 .....	17.92	2.1	39.6	18.86	2.4	39.6	15.23	2.0	39.5
7 .....	20.87	2.3	39.9	21.61	2.3	39.9	18.01	2.1	39.8
8 .....	21.41	2.0	40.1	21.83	2.1	40.2	18.01	3.7	39.3
9 .....	25.59	1.9	39.9	26.02	2.1	39.9	22.40	1.5	39.7
10 .....	27.38	1.3	40.3	27.77	1.4	40.5	25.06	6.6	39.2
11 .....	30.30	1.6	40.0	30.61	1.6	40.0	24.82	1.0	40.5
12 .....	35.17	3.1	39.9	35.13	3.2	39.9	–	–	–
13 .....	41.38	5.9	40.3	41.38	5.9	40.3	–	–	–
14 .....	49.86	7.7	40.6	49.86	7.7	40.6	–	–	–
Not able to be leveled .....	28.48	7.1	39.5	28.53	7.1	39.5	–	–	–
Computer systems analysts and scientists .....	27.89	1.3	40.1	28.68	1.4	40.1	21.64	2.9	39.7
5 .....	17.41	3.3	40.2	17.61	3.4	40.2	–	–	–
6 .....	17.56	2.2	39.7	18.91	2.9	39.8	15.23	2.0	39.5
7 .....	20.99	2.5	40.0	21.88	2.3	40.0	18.05	2.1	39.9
8 .....	21.42	2.2	40.2	21.90	2.4	40.3	18.05	3.8	39.2
9 .....	25.15	1.2	40.1	25.54	1.3	40.2	22.71	1.5	39.7
10 .....	27.38	1.3	40.3	27.81	1.4	40.5	24.96	6.9	39.2
11 .....	30.49	1.6	40.1	30.90	1.7	40.1	24.82	1.0	40.5
12 .....	35.25	3.5	39.9	35.21	3.6	39.9	–	–	–

See footnotes at end of table.

Table 2-4. Selected occupations<sup>1</sup> and levels:<sup>2</sup> Mean hourly earnings<sup>3</sup> and weekly hours, private industry and State and local government, National Compensation Survey,<sup>4</sup> 1998–Continued

Occupation and level	Total			Private industry			State and local government		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)	
<b>White collar –Continued</b>									
<b>Professional specialty and technical –Continued</b>									
Professional specialty –Continued									
Mathematical and computer scientists –Continued									
Computer systems analysts and scientists –Continued									
13 .....	\$39.81	5.2	40.4	\$39.81	5.2	40.4	–	–	–
14 .....	45.81	3.1	40.1	45.81	3.1	40.1	–	–	–
Not able to be leveled .....	30.58	8.3	39.1	30.67	8.4	39.1	–	–	–
Operations and systems researchers and analysts .....	28.56	6.8	39.6	28.68	6.9	39.6	\$19.98	19.0	38.8
5 .....	14.39	4.6	39.9	14.55	5.0	39.9	–	–	–
6 .....	18.86	4.3	39.3	18.86	4.3	39.3	–	–	–
7 .....	20.89	5.6	39.8	20.91	5.6	39.9	–	–	–
8 .....	21.36	5.4	39.6	21.39	5.4	39.6	–	–	–
9 .....	28.49	10.6	38.8	28.68	10.6	38.9	–	–	–
10 .....	27.12	4.5	40.3	27.00	4.7	40.3	–	–	–
11 .....	29.55	4.6	39.5	29.55	4.6	39.5	–	–	–
12 .....	34.24	2.9	40.5	34.16	3.0	40.5	–	–	–
Not able to be leveled .....	23.69	5.8	40.1	23.69	5.8	40.1	–	–	–
Actuaries .....	27.38	9.2	39.4	27.38	9.2	39.4	–	–	–
Statisticians .....	23.77	8.4	38.0	24.53	9.2	38.1	–	–	–
9 .....	26.14	5.0	37.4	26.54	4.9	37.1	–	–	–
Mathematical scientists, n.e.c. ....	24.88	8.2	38.8	28.77	9.9	38.4	–	–	–
Natural scientists .....	25.48	1.7	39.6	28.09	2.1	39.6	20.70	2.6	39.6
5 .....	14.59	4.4	39.9	15.88	4.6	40.1	13.84	6.1	39.8
6 .....	16.42	6.6	38.3	16.65	7.2	38.1	–	–	–
7 .....	20.42	5.4	39.7	19.51	2.6	39.7	22.31	10.0	39.5
8 .....	19.21	2.8	39.8	21.46	3.9	40.3	17.61	3.9	39.4
9 .....	22.52	2.3	39.4	22.71	2.7	39.7	22.30	3.5	39.1
10 .....	23.14	3.8	40.3	25.05	3.6	40.0	21.38	7.4	40.7
11 .....	28.73	2.6	39.8	30.18	1.8	39.9	24.21	4.8	39.5
12 .....	34.78	2.1	39.9	35.70	1.9	40.1	26.99	9.2	38.8
13 .....	35.72	7.8	39.1	40.66	2.7	39.1	–	–	–
14 .....	48.38	4.7	40.5	49.60	4.1	39.8	–	–	–
15 .....	51.55	10.5	40.4	51.55	10.5	40.4	–	–	–
Not able to be leveled .....	27.51	10.3	35.6	29.98	10.8	34.5	–	–	–
Physicists and astronomers .....	37.74	7.7	40.4	41.13	5.1	40.5	–	–	–
12 .....	39.50	3.7	40.7	39.50	3.7	40.7	–	–	–
Chemists, except biochemists .....	28.62	3.4	40.0	29.23	3.7	40.0	23.83	4.9	40.3
5 .....	16.34	12.5	41.4	16.34	12.5	41.4	–	–	–
6 .....	15.82	1.2	40.0	15.82	1.2	40.0	–	–	–
7 .....	18.28	3.3	38.6	18.30	3.5	38.6	–	–	–
8 .....	21.22	3.4	40.0	21.36	3.4	40.0	–	–	–
9 .....	24.06	1.9	39.9	23.55	2.4	39.9	24.98	2.9	40.0
10 .....	25.31	5.1	40.0	26.65	3.5	40.0	–	–	–
11 .....	32.32	1.7	40.0	32.33	1.7	40.0	–	–	–
12 .....	35.52	4.3	41.1	35.52	4.3	41.1	–	–	–
13 .....	42.06	3.5	40.7	43.00	2.9	40.0	–	–	–
Atmospheric and space scientists .....	22.91	15.0	41.3	22.61	16.0	40.7	–	–	–
Geologists and geodesists .....	30.68	6.3	40.4	32.87	6.6	40.6	24.03	17.3	40.0
5 .....	16.99	6.5	40.1	–	–	–	–	–	–
7 .....	24.36	6.4	40.0	24.98	7.0	40.0	–	–	–
9 .....	23.40	6.0	40.0	–	–	–	–	–	–
11 .....	32.80	5.2	42.0	33.41	5.4	42.1	–	–	–
12 .....	36.54	5.9	40.6	36.54	5.9	40.6	–	–	–
13 .....	40.82	8.2	40.1	47.52	3.5	40.2	–	–	–
Physical scientists, n.e.c. ....	26.56	2.4	39.9	29.54	2.4	40.0	20.92	4.1	39.7
7 .....	20.04	6.8	40.0	20.96	6.8	40.0	–	–	–
8 .....	19.62	11.8	40.0	22.86	10.1	40.2	–	–	–
9 .....	21.28	3.1	39.9	25.67	5.1	40.0	20.42	3.2	39.9
10 .....	21.81	2.8	40.0	25.36	2.6	39.8	19.92	7.1	40.1

See footnotes at end of table.



Table 2-4. Selected occupations<sup>1</sup> and levels:<sup>2</sup> Mean hourly earnings<sup>3</sup> and weekly hours, private industry and State and local government, National Compensation Survey,<sup>4</sup> 1998–Continued

Occupation and level	Total			Private industry			State and local government		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)	
<b>White collar –Continued</b>									
<b>Professional specialty and technical –Continued</b>									
Professional specialty –Continued									
Natural scientists –Continued									
Physical scientists, n.e.c. –Continued									
11 .....	\$30.06	2.5	39.7	\$30.73	1.4	40.0	–	–	–
12 .....	36.63	2.0	40.0	36.78	2.0	40.0	–	–	–
13 .....	37.27	2.2	40.0	37.27	2.2	40.0	–	–	–
Agricultural and food scientists .....	22.48	8.5	39.6	24.39	8.6	38.9	\$21.33	12.9	40.0
Biological and life scientists .....	21.66	7.3	39.2	24.58	4.6	39.1	18.33	6.6	39.3
5 .....	14.53	.7	39.7	–	–	–	–	–	–
7 .....	18.36	3.9	39.7	18.22	4.2	40.4	–	–	–
8 .....	19.11	3.1	39.8	21.48	6.9	39.9	18.29	2.0	39.7
9 .....	22.50	3.9	39.2	22.10	5.5	39.5	23.33	5.0	38.4
11 .....	24.78	8.2	39.5	26.55	4.4	39.7	–	–	–
12 .....	30.39	7.6	38.9	32.36	6.1	39.6	–	–	–
13 .....	33.59	12.7	40.0	37.91	3.2	40.0	–	–	–
14 .....	42.19	8.3	41.6	44.17	7.5	40.2	–	–	–
Forestry and conservation scientists .....	20.34	3.5	40.1	–	–	–	20.03	8.7	39.8
Medical scientists .....	23.14	4.8	38.6	25.03	6.1	37.9	21.39	6.6	39.3
5 .....	10.97	6.0	39.7	12.29	4.2	39.2	–	–	–
7 .....	23.10	8.7	39.7	16.48	6.4	38.8	–	–	–
9 .....	22.09	8.4	38.4	22.10	9.6	39.4	22.09	14.7	37.1
10 .....	15.50	11.4	43.2	–	–	–	–	–	–
11 .....	24.08	5.2	39.3	23.78	11.3	38.6	–	–	–
12 .....	32.22	5.9	38.1	33.77	4.5	37.5	–	–	–
13 .....	23.22	24.5	35.8	33.85	16.4	33.7	–	–	–
Health related .....	22.56	1.0	34.2	22.72	1.1	33.4	21.99	1.7	36.9
4 .....	14.13	10.3	25.6	14.13	10.3	25.6	–	–	–
5 .....	15.48	4.1	32.8	16.11	5.1	31.6	14.12	4.5	35.9
6 .....	17.96	2.9	34.9	18.52	2.5	33.9	16.58	7.2	37.7
7 .....	18.75	1.1	33.6	18.84	1.1	32.9	18.40	2.1	36.7
8 .....	20.04	1.2	33.2	19.93	1.4	32.6	20.50	2.0	36.1
9 .....	21.84	1.1	34.0	21.74	1.2	33.4	22.16	1.9	35.9
10 .....	24.26	2.5	38.3	24.89	2.8	37.2	22.30	5.7	42.4
11 .....	26.65	2.0	36.1	27.26	2.3	35.2	24.89	4.4	38.7
12 .....	41.92	6.6	35.8	44.74	4.9	35.0	35.22	19.3	38.1
13 .....	53.89	10.3	36.5	70.40	13.1	34.3	34.89	22.5	39.4
14 .....	64.74	3.9	35.8	68.54	2.8	37.1	47.43	9.7	30.9
15 .....	69.33	6.0	40.8	–	–	–	–	–	–
Not able to be leveled .....	29.08	9.1	39.2	30.98	10.2	37.4	22.08	12.4	47.1
Physicians .....	38.55	5.4	39.6	44.15	6.7	38.0	28.22	11.0	42.9
7 .....	15.38	6.1	42.0	16.54	6.2	40.0	–	–	–
8 .....	14.63	7.0	46.5	14.63	7.0	46.5	–	–	–
9 .....	17.30	5.1	45.8	18.87	7.6	41.8	15.41	5.0	51.8
10 .....	15.87	5.7	47.9	17.00	8.3	44.5	14.04	7.0	54.6
11 .....	24.53	7.8	41.1	24.66	7.7	39.5	24.10	22.1	47.5
12 .....	50.28	11.3	35.2	57.41	5.4	33.6	36.97	29.5	38.6
13 .....	54.82	10.8	36.3	73.53	13.6	33.9	34.73	23.1	39.4
14 .....	64.74	3.9	35.8	68.54	2.8	37.1	47.43	9.7	30.9
15 .....	69.33	6.0	40.8	–	–	–	–	–	–
Not able to be leveled .....	28.09	8.4	42.7	31.49	10.5	40.1	21.22	14.2	49.3
Dentists .....	34.36	8.6	29.4	34.69	6.8	29.2	–	–	–
Optometrists .....	38.60	6.1	37.7	38.60	6.1	37.7	–	–	–
Health diagnosing practitioners, n.e.c. ....	19.82	12.7	33.9	19.82	12.7	33.9	–	–	–
Registered nurses .....	20.86	.7	33.5	20.84	.8	32.9	20.95	1.4	36.1
5 .....	17.17	5.8	32.0	17.47	6.8	30.9	15.92	1.8	37.3
6 .....	18.86	2.3	34.7	19.06	2.9	33.7	18.17	2.8	38.5
7 .....	18.82	1.2	33.3	18.94	1.2	32.6	18.28	2.7	36.3
8 .....	19.99	1.3	32.8	19.97	1.5	32.2	20.09	2.3	35.9
9 .....	21.63	1.2	33.4	21.50	1.4	32.9	22.13	2.1	35.3
10 .....	26.43	2.1	36.1	26.52	2.4	35.6	25.99	2.5	38.3

See footnotes at end of table.

Table 2-4. Selected occupations<sup>1</sup> and levels:<sup>2</sup> Mean hourly earnings<sup>3</sup> and weekly hours, private industry and State and local government, National Compensation Survey,<sup>4</sup> 1998–Continued

Occupation and level	Total			Private industry			State and local government		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)	
<b>White collar –Continued</b>									
<b>Professional specialty and technical –Continued</b>									
Professional specialty –Continued									
Health related –Continued									
Registered nurses –Continued									
11 .....	\$26.79	2.6	36.8	\$26.94	3.4	36.3	\$26.29	3.3	38.4
12 .....	31.40	4.0	37.8	31.12	4.8	37.2	31.88	6.9	38.9
Not able to be leveled .....	33.82	20.6	37.3	33.82	20.6	37.3	–	–	–
Pharmacists .....	27.35	1.9	34.8	27.93	1.1	34.2	25.16	6.7	37.1
5 .....	19.91	22.6	23.6	18.24	30.9	23.5	–	–	–
7 .....	24.96	7.6	33.2	23.35	5.3	31.7	–	–	–
8 .....	27.17	1.5	32.1	27.18	1.5	32.3	–	–	–
9 .....	26.36	1.0	37.2	26.92	.9	36.7	23.88	2.8	39.5
10 .....	28.05	3.9	37.5	28.05	1.8	37.0	–	–	–
11 .....	27.15	5.1	33.0	28.95	2.7	31.7	23.29	9.3	36.1
12 .....	34.17	3.4	39.7	34.21	3.9	40.4	–	–	–
Not able to be leveled .....	26.04	8.3	33.9	26.04	8.3	33.9	–	–	–
Dietitians .....	16.70	1.8	36.9	16.86	1.7	35.9	16.42	3.7	38.7
5 .....	12.93	5.5	37.7	13.65	4.4	37.0	–	–	–
6 .....	14.92	3.8	38.4	15.43	4.5	38.0	–	–	–
7 .....	16.71	1.7	36.3	16.90	2.9	34.0	16.49	1.8	39.4
8 .....	18.05	2.4	36.0	18.06	3.1	34.9	18.01	2.4	40.0
9 .....	17.64	4.4	37.6	17.90	4.0	37.0	17.31	8.0	38.3
10 .....	20.87	3.9	28.7	–	–	–	–	–	–
11 .....	17.38	5.6	40.0	–	–	–	–	–	–
Respiratory therapists .....	17.76	1.6	34.4	17.86	1.8	34.4	17.19	3.3	34.4
5 .....	15.29	1.8	33.3	15.23	2.4	33.6	–	–	–
6 .....	17.16	3.0	32.1	17.18	3.2	32.2	–	–	–
7 .....	17.99	2.8	35.0	18.21	3.1	35.1	16.58	4.8	33.8
8 .....	17.60	2.0	35.7	17.46	2.5	35.0	18.29	2.3	39.2
9 .....	19.22	3.0	32.9	19.37	3.5	33.2	–	–	–
Occupational therapists .....	23.08	2.9	34.1	23.11	3.4	34.1	22.97	4.9	33.9
5 .....	13.72	7.6	32.8	13.72	7.6	32.8	–	–	–
7 .....	20.61	5.8	35.8	21.79	6.7	34.5	–	–	–
8 .....	21.42	2.3	36.6	20.98	1.8	36.6	–	–	–
9 .....	23.58	4.2	32.4	22.92	5.0	33.2	26.01	5.7	29.7
10 .....	25.20	11.0	25.9	27.35	14.3	22.9	–	–	–
Physical therapists .....	23.92	2.3	34.4	23.87	2.3	33.9	24.04	6.3	35.9
6 .....	20.91	8.3	36.6	20.17	5.5	36.0	–	–	–
7 .....	21.53	6.6	28.7	20.93	6.6	28.1	–	–	–
8 .....	22.66	4.4	35.6	21.54	3.0	35.6	–	–	–
9 .....	23.60	2.6	36.0	24.00	2.4	35.7	22.41	5.8	36.9
10 .....	31.06	5.4	34.7	29.13	2.9	33.9	–	–	–
11 .....	29.06	6.4	31.0	30.75	8.7	28.6	–	–	–
Speech therapists .....	23.46	6.6	33.8	23.15	3.1	31.9	23.69	11.2	35.4
7 .....	24.62	12.8	35.9	19.70	10.5	35.6	30.15	14.4	36.1
8 .....	23.74	4.0	35.7	22.10	3.5	32.7	24.36	6.9	36.9
9 .....	25.03	4.5	34.1	21.60	3.7	35.0	27.97	6.7	33.4
10 .....	27.03	3.8	35.9	–	–	–	27.37	7.6	37.2
11 .....	25.45	5.9	32.7	25.73	7.5	29.0	–	–	–
Therapists, n.e.c. ....	16.51	3.1	37.0	16.07	3.8	36.4	17.22	7.2	38.0
5 .....	12.77	2.3	36.5	–	–	–	–	–	–
6 .....	14.87	6.5	38.5	11.82	4.8	39.1	16.55	8.7	38.2
7 .....	15.39	3.3	36.9	14.58	4.2	36.5	17.55	4.7	38.0
8 .....	17.13	7.3	36.5	15.16	4.1	36.6	24.16	4.4	36.1
9 .....	19.30	5.7	36.9	18.49	7.5	36.4	21.74	6.5	38.5
10 .....	18.54	14.2	39.4	17.42	19.2	39.6	–	–	–
11 .....	18.81	8.6	38.0	18.81	10.8	37.5	–	–	–
Physicians' assistants .....	26.36	4.1	38.3	26.78	4.5	38.6	–	–	–
5 .....	11.41	4.1	31.0	11.19	2.7	32.2	–	–	–
9 .....	27.25	3.1	39.9	27.28	3.3	40.0	–	–	–
10 .....	29.05	2.9	39.5	29.54	3.2	39.3	–	–	–

See footnotes at end of table.

Table 2-4. Selected occupations<sup>1</sup> and levels:<sup>2</sup> Mean hourly earnings<sup>3</sup> and weekly hours, private industry and State and local government, National Compensation Survey,<sup>4</sup> 1998–Continued

Occupation and level	Total			Private industry			State and local government		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)	
<b>White collar –Continued</b>									
<b>Professional specialty and technical –Continued</b>									
Professional specialty –Continued									
Health related –Continued									
Physicians' assistants –Continued									
11 .....	\$35.67	2.3	38.6	\$35.67	2.3	38.6	–	–	–
Teachers, college and university .....	33.82	1.5	34.1	36.20	2.4	34.1	\$32.87	1.7	34.1
5 .....	13.77	4.4	23.3	13.69	5.5	25.7	13.80	5.4	22.7
6 .....	16.85	6.1	22.6	16.65	13.3	25.2	16.92	6.6	21.8
7 .....	22.12	6.3	25.6	20.30	6.2	23.1	23.00	7.3	27.0
8 .....	25.05	4.5	28.9	22.74	3.9	28.0	25.66	5.6	29.2
9 .....	26.34	2.7	28.6	24.05	6.1	30.8	27.00	2.9	28.0
10 .....	27.78	3.8	30.5	27.37	4.0	31.2	28.02	5.6	30.2
11 .....	31.20	2.7	35.5	34.11	4.7	35.8	29.59	2.3	35.3
12 .....	37.09	1.7	35.4	40.60	3.7	36.9	35.63	1.7	34.9
13 .....	38.51	3.1	39.6	46.10	3.5	36.5	36.27	3.1	40.6
14 .....	52.78	4.6	40.2	58.19	6.3	43.8	49.59	6.0	38.4
15 .....	51.06	6.7	40.6	66.61	6.4	45.6	48.70	5.7	40.0
Not able to be leveled .....	37.51	9.2	40.7	38.69	8.6	35.8	37.14	11.7	42.5
Earth, environmental, and marine science									
teachers .....	33.84	10.4	36.5	–	–	–	34.84	15.3	34.9
11 .....	30.58	5.1	35.6	–	–	–	–	–	–
Biological science teachers .....	33.80	8.1	36.5	36.20	8.2	35.1	32.73	10.8	37.1
7 .....	24.05	8.7	22.3	24.05	8.7	22.3	–	–	–
9 .....	32.25	2.9	37.1	–	–	–	–	–	–
10 .....	28.39	6.2	24.5	–	–	–	–	–	–
11 .....	36.35	15.2	30.0	43.66	18.9	38.9	29.29	10.5	24.6
12 .....	36.94	7.7	34.1	38.27	13.5	32.1	35.91	8.0	35.8
13 .....	29.13	4.8	48.1	39.08	4.5	39.1	–	–	–
Chemistry teachers .....	31.61	7.3	40.4	43.11	16.8	36.0	29.18	4.0	41.5
10 .....	27.89	8.7	38.3	–	–	–	–	–	–
11 .....	38.70	20.9	35.9	–	–	–	31.13	10.7	35.0
12 .....	45.08	13.5	33.9	–	–	–	–	–	–
13 .....	29.08	4.5	43.9	–	–	–	28.08	3.1	44.6
Physics teachers .....	47.49	7.0	37.1	49.91	6.5	36.9	43.51	12.1	37.6
Natural science teachers, n.e.c. ....	38.48	6.3	38.8	33.25	10.9	35.7	39.73	7.7	39.6
11 .....	31.70	2.4	38.5	–	–	–	–	–	–
12 .....	41.59	4.0	37.8	–	–	–	–	–	–
Psychology teachers .....	32.26	6.4	33.5	36.08	7.6	30.4	29.74	7.1	35.9
9 .....	24.09	9.2	20.7	24.82	15.9	29.8	–	–	–
10 .....	25.63	6.4	24.0	24.09	1.7	23.3	–	–	–
11 .....	30.21	5.2	33.8	33.85	5.7	27.1	–	–	–
12 .....	31.09	17.4	35.0	–	–	–	–	–	–
13 .....	39.91	8.2	39.3	40.89	10.8	38.9	–	–	–
Economics teachers .....	46.28	11.2	43.1	29.83	9.5	37.6	–	–	–
History teachers .....	32.36	5.4	36.6	30.97	8.6	39.0	33.34	8.0	35.0
9 .....	27.12	8.3	21.2	–	–	–	–	–	–
11 .....	32.14	5.4	39.3	–	–	–	–	–	–
12 .....	34.17	7.4	39.6	–	–	–	–	–	–
Political science teachers .....	33.60	6.2	37.2	35.40	9.9	36.3	32.20	7.8	38.0
11 .....	28.72	3.2	39.8	–	–	–	–	–	–
12 .....	36.77	12.6	36.3	–	–	–	–	–	–
Sociology teachers .....	36.75	8.3	34.6	36.11	10.3	25.1	36.83	9.2	36.3
12 .....	31.28	8.3	34.2	–	–	–	–	–	–
Social science teachers, n.e.c. ....	32.95	7.2	37.3	36.09	6.7	32.9	32.15	8.9	38.6
9 .....	31.42	9.2	32.4	–	–	–	–	–	–
11 .....	30.00	8.1	32.2	27.98	11.9	28.1	–	–	–
12 .....	47.27	13.2	37.5	–	–	–	–	–	–
13 .....	34.57	12.6	39.2	41.63	7.2	36.0	–	–	–
Engineering teachers .....	38.51	12.0	37.5	37.36	13.2	33.0	38.92	15.6	39.3
9 .....	23.18	10.6	35.8	23.58	15.2	36.2	22.48	9.5	35.2
11 .....	36.44	4.8	31.5	39.37	4.3	35.8	–	–	–

See footnotes at end of table.

Table 2-4. Selected occupations<sup>1</sup> and levels:<sup>2</sup> Mean hourly earnings<sup>3</sup> and weekly hours, private industry and State and local government, National Compensation Survey,<sup>4</sup> 1998–Continued

Occupation and level	Total			Private industry			State and local government		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)	
<b>White collar –Continued</b>									
<b>Professional specialty and technical –Continued</b>									
Professional specialty –Continued									
Teachers, college and university –Continued									
Engineering teachers –Continued									
13 .....	\$36.35	11.4	43.9	–	–	–	–	–	–
Mathematical science teachers .....	33.59	6.2	33.3	\$35.80	9.3	35.0	\$32.52	7.9	32.5
8 .....	16.33	25.0	32.7	–	–	–	15.95	27.4	32.2
9 .....	25.44	4.7	33.6	–	–	–	25.76	5.0	34.6
10 .....	33.71	7.2	22.1	25.88	4.2	26.3	37.27	7.3	20.6
11 .....	36.23	5.3	33.6	–	–	–	40.34	6.8	34.8
12 .....	46.08	4.6	30.6	–	–	–	–	–	–
13 .....	37.11	8.8	39.5	39.51	16.1	37.9	35.70	9.0	40.4
Computer science teachers .....	25.48	11.3	30.5	27.31	9.6	28.7	25.13	13.0	30.8
7 .....	18.92	9.1	33.4	–	–	–	–	–	–
8 .....	21.45	17.7	24.5	16.53	10.1	22.5	–	–	–
9 .....	26.73	3.3	23.5	–	–	–	26.54	4.3	21.2
10 .....	26.60	10.1	25.4	20.50	15.0	35.3	–	–	–
11 .....	21.49	7.0	34.4	–	–	–	20.99	5.1	34.3
Medical science teachers .....	44.51	5.8	38.9	46.04	5.1	41.2	43.27	9.5	37.2
9 .....	26.99	3.6	13.6	–	–	–	–	–	–
10 .....	29.15	22.1	34.9	–	–	–	–	–	–
11 .....	39.60	12.0	36.1	43.24	9.7	37.4	–	–	–
12 .....	39.44	6.4	40.5	36.54	5.5	44.5	40.02	7.3	39.8
13 .....	45.05	6.8	39.5	44.70	2.8	44.4	45.39	13.1	35.7
14 .....	50.63	10.5	47.5	57.73	6.8	45.3	–	–	–
Health specialties teachers .....	33.96	7.5	36.8	31.68	6.9	39.5	35.14	10.2	35.6
7 .....	25.19	28.7	24.3	–	–	–	–	–	–
8 .....	25.91	6.1	37.5	–	–	–	30.10	3.3	35.2
9 .....	23.10	3.8	36.1	24.59	9.2	36.5	22.92	4.0	36.0
10 .....	29.41	6.9	37.7	–	–	–	30.52	6.6	37.3
11 .....	30.27	7.4	35.8	27.08	3.1	35.7	32.30	9.0	35.8
12 .....	51.84	24.6	37.6	–	–	–	–	–	–
13 .....	45.64	4.5	38.6	–	–	–	–	–	–
Business, commerce, and marketing teachers ..	35.50	6.5	34.8	40.60	6.5	30.8	33.16	6.0	37.0
7 .....	15.39	4.6	13.0	15.39	4.6	13.0	–	–	–
9 .....	27.43	5.8	26.8	29.76	7.4	31.3	25.97	5.9	24.6
10 .....	33.60	13.1	28.9	22.92	3.0	23.0	39.94	9.1	34.0
11 .....	31.70	4.9	38.5	41.93	10.3	30.1	30.12	1.6	40.3
12 .....	43.54	10.4	35.0	43.31	12.6	38.0	44.47	11.4	26.5
13 .....	43.73	13.2	41.2	57.17	13.1	39.2	–	–	–
Agriculture and forestry teachers .....	42.82	26.4	35.5	–	–	–	42.82	26.4	35.5
Art, drama, and music teachers .....	29.29	2.9	31.9	29.39	5.3	29.2	29.20	4.1	34.9
8 .....	20.65	10.4	34.4	17.13	10.4	30.4	–	–	–
9 .....	25.13	11.9	30.2	30.59	9.5	28.5	21.97	9.6	31.3
10 .....	26.88	5.8	21.8	26.21	2.6	23.6	28.16	14.1	19.1
11 .....	29.22	3.8	32.6	27.18	3.5	29.9	31.54	6.1	36.5
12 .....	31.04	6.4	40.4	33.89	9.4	37.3	27.92	8.0	44.5
13 .....	38.58	7.2	39.1	–	–	–	–	–	–
Physical education teachers .....	25.28	8.7	33.4	25.66	4.9	37.1	25.00	14.8	31.2
9 .....	25.23	6.2	21.2	–	–	–	–	–	–
11 .....	28.46	6.0	38.6	27.02	6.4	39.7	–	–	–
Education teachers .....	31.19	9.1	35.1	30.02	16.5	31.8	32.35	7.6	39.2
8 .....	25.09	7.8	24.1	26.09	11.0	19.1	–	–	–
9 .....	16.77	21.3	41.5	–	–	–	–	–	–
10 .....	25.32	5.3	22.8	–	–	–	–	–	–
11 .....	29.65	5.2	38.6	29.77	7.9	37.8	29.43	.9	40.0
12 .....	43.93	12.4	33.6	–	–	–	–	–	–
English teachers .....	32.60	4.8	33.1	31.74	11.2	32.9	32.99	4.8	33.2
7 .....	15.31	6.5	17.6	15.31	6.5	17.6	–	–	–
8 .....	28.35	10.1	28.4	–	–	–	31.09	8.2	26.4
9 .....	25.38	3.2	30.4	24.20	3.6	36.9	26.94	6.1	24.6

See footnotes at end of table.

Table 2-4. Selected occupations<sup>1</sup> and levels:<sup>2</sup> Mean hourly earnings<sup>3</sup> and weekly hours, private industry and State and local government, National Compensation Survey,<sup>4</sup> 1998–Continued

Occupation and level	Total			Private industry			State and local government		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)	
<b>White collar –Continued</b>									
<b>Professional specialty and technical –Continued</b>									
Professional specialty –Continued									
Teachers, college and university –Continued									
English teachers –Continued									
10 .....	\$26.29	5.0	28.1	\$26.78	6.3	31.5	\$25.93	7.2	26.1
11 .....	30.84	4.4	35.1	30.17	7.2	35.1	30.99	5.2	35.1
12 .....	33.82	10.2	38.9	49.63	16.6	39.1	28.40	5.1	38.8
13 .....	45.78	1.7	34.7	–	–	–	–	–	–
Foreign language teachers .....	26.29	13.4	33.2	31.30	6.9	32.6	23.27	18.4	33.5
9 .....	26.06	4.4	26.1	24.69	10.7	25.8	26.42	5.5	26.2
10 .....	19.01	21.3	43.4	–	–	–	–	–	–
11 .....	29.39	9.1	34.2	28.38	12.2	40.7	31.37	8.0	26.1
12 .....	40.61	6.6	35.6	40.59	8.4	37.0	–	–	–
Law teachers .....	58.19	8.2	35.9	61.90	8.2	38.0	–	–	–
13 .....	66.64	12.1	38.2	66.64	12.1	38.2	–	–	–
Social work teachers .....	25.91	7.4	32.7	26.11	8.0	32.0	–	–	–
Theology teachers .....	35.46	4.2	39.1	34.54	8.4	37.3	36.25	3.8	40.8
10 .....	34.89	4.7	36.7	34.82	5.2	36.5	–	–	–
11 .....	27.80	7.0	38.7	27.06	7.2	38.9	–	–	–
12 .....	35.23	6.3	39.2	35.23	6.3	39.2	–	–	–
13 .....	43.06	5.0	41.6	44.50	14.0	35.9	–	–	–
Trade and industrial teachers .....	27.22	3.3	32.4	19.43	14.0	33.2	28.19	2.3	32.3
7 .....	27.87	2.5	35.2	–	–	–	28.10	2.3	35.1
8 .....	28.02	8.4	29.6	–	–	–	29.24	8.5	31.8
9 .....	27.00	3.8	36.0	–	–	–	27.22	4.1	36.1
10 .....	27.56	6.9	18.0	–	–	–	–	–	–
11 .....	29.47	11.2	30.8	–	–	–	–	–	–
Home economics teachers .....	29.92	14.9	30.4	–	–	–	–	–	–
Teachers, post secondary, subject not specified	33.48	7.2	32.1	33.41	6.1	33.5	33.50	9.0	31.7
7 .....	24.69	6.4	27.5	–	–	–	25.08	7.0	27.8
8 .....	16.91	2.6	32.0	–	–	–	–	–	–
9 .....	25.84	7.2	19.6	29.72	8.8	24.3	24.06	8.8	18.0
10 .....	29.46	3.7	34.2	32.77	4.2	31.8	28.76	3.6	34.7
11 .....	33.01	7.0	36.6	34.09	7.3	40.1	31.53	12.3	32.8
12 .....	33.66	8.6	33.5	34.85	9.6	35.7	33.29	11.0	32.9
13 .....	44.38	8.6	39.0	–	–	–	42.79	9.0	40.1
Teachers, post secondary, n.e.c. ....	31.26	1.9	31.5	34.78	7.2	31.9	30.50	1.5	31.4
5 .....	13.91	5.1	23.6	–	–	–	13.95	5.6	23.8
6 .....	17.47	15.1	12.1	–	–	–	18.78	19.0	10.6
7 .....	20.21	5.9	26.3	23.62	7.0	37.0	17.84	5.8	22.0
8 .....	21.72	3.3	28.7	21.51	4.1	25.1	21.76	3.8	29.4
9 .....	28.20	3.8	26.5	21.84	6.2	21.7	28.81	3.8	27.0
10 .....	27.68	2.9	31.9	27.32	7.1	35.7	27.87	2.4	30.1
11 .....	30.20	4.8	34.3	35.63	22.1	33.9	29.19	2.0	34.4
12 .....	34.90	1.9	33.3	42.94	6.5	34.8	34.33	2.1	33.2
13 .....	38.84	3.8	35.1	45.36	8.9	29.4	37.35	4.5	36.7
14 .....	51.59	11.4	37.2	–	–	–	45.86	5.9	35.8
Not able to be leveled .....	34.77	16.3	34.7	43.68	6.5	35.0	26.59	25.2	34.4
Teachers, except college and university	26.82	.8	34.6	17.15	1.9	32.0	27.68	.8	34.8
2 .....	6.39	5.2	9.7	–	–	–	6.23	5.4	10.7
3 .....	7.38	2.0	10.7	7.53	6.5	9.7	7.34	2.1	11.0
4 .....	8.72	3.3	19.9	9.21	4.0	20.8	8.19	5.0	19.0
5 .....	12.41	3.9	24.3	11.28	4.3	30.3	13.22	5.9	21.2
6 .....	21.48	5.8	30.8	12.37	2.9	32.2	25.20	5.5	30.2
7 .....	23.66	2.2	36.0	17.81	3.9	35.4	24.16	2.3	36.1
8 .....	26.64	1.6	36.0	18.45	4.5	33.5	27.17	1.6	36.2
9 .....	29.94	1.3	35.3	22.14	2.5	33.6	30.29	1.3	35.4
10 .....	29.11	3.7	34.8	26.02	5.6	30.5	29.40	3.9	35.3
11 .....	30.73	5.6	35.2	26.38	5.8	35.1	31.10	5.9	35.2
12 .....	34.59	5.7	29.6	30.43	8.9	24.1	36.33	5.0	32.8
Not able to be leveled .....	21.64	8.8	31.0	15.07	10.6	21.9	23.81	8.5	35.9

See footnotes at end of table.

Table 2-4. Selected occupations<sup>1</sup> and levels:<sup>2</sup> Mean hourly earnings<sup>3</sup> and weekly hours, private industry and State and local government, National Compensation Survey,<sup>4</sup> 1998—Continued

Occupation and level	Total			Private industry			State and local government		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)	
<b>White collar—Continued</b>									
<b>Professional specialty and technical—Continued</b>									
Professional specialty—Continued									
Teachers, except college and university—Continued									
Prekindergarten and kindergarten .....	\$21.09	3.9	35.1	\$10.80	5.0	35.5	\$26.35	2.7	35.0
4 .....	9.26	1.6	39.6	9.26	1.6	39.6	—	—	—
5 .....	9.57	4.9	34.7	9.46	5.6	34.5	10.25	6.7	36.0
6 .....	13.25	7.4	35.0	9.81	4.8	34.5	20.27	8.0	36.0
7 .....	22.81	12.0	37.5	13.30	2.7	37.8	26.98	8.8	37.4
8 .....	25.58	5.8	35.6	14.10	18.4	35.5	27.34	4.4	35.6
9 .....	27.04	3.8	33.5	17.98	18.0	36.2	27.36	4.0	33.4
Elementary school teachers .....	27.72	.9	36.1	20.16	2.9	35.4	28.01	1.0	36.1
5 .....	21.29	12.1	32.1	13.73	15.5	26.8	22.98	12.5	33.6
6 .....	28.10	6.1	35.1	16.10	7.5	36.7	28.43	6.1	35.1
7 .....	24.07	2.6	36.9	19.85	4.7	35.6	24.28	2.7	36.9
8 .....	26.54	1.5	36.6	18.91	7.6	36.5	26.82	1.5	36.6
9 .....	29.93	1.6	35.7	21.83	5.6	36.1	30.20	1.6	35.7
10 .....	32.68	6.8	35.2	23.96	4.1	29.6	32.80	6.8	35.3
11 .....	30.47	15.4	34.4	—	—	—	30.42	15.9	34.8
Secondary school teachers .....	27.86	1.2	36.7	22.53	2.8	36.6	28.12	1.3	36.7
5 .....	20.33	5.6	27.5	19.94	4.4	30.3	20.49	7.7	26.5
6 .....	26.17	7.5	36.7	16.91	8.3	38.3	28.47	7.7	36.4
7 .....	24.40	2.5	37.5	21.14	3.8	36.9	24.51	2.6	37.5
8 .....	28.09	2.8	36.8	22.15	6.7	36.3	28.34	2.8	36.9
9 .....	29.32	1.8	36.5	24.54	2.5	37.0	29.54	1.9	36.5
10 .....	30.86	7.4	36.2	28.73	7.1	32.2	31.08	8.1	36.7
11 .....	28.87	6.3	35.8	23.16	7.9	40.7	29.14	6.5	35.6
Teachers, special education .....	28.18	1.9	35.5	19.95	4.5	36.1	28.96	1.9	35.5
5 .....	12.77	9.5	35.4	13.15	6.5	38.6	12.46	15.3	33.1
6 .....	18.68	7.2	36.5	—	—	—	20.22	6.1	35.8
7 .....	24.91	4.7	36.5	19.03	11.0	37.3	25.52	5.0	36.5
8 .....	27.07	3.3	35.8	21.10	6.5	35.5	27.55	3.4	35.8
9 .....	30.87	2.5	35.0	21.47	6.4	33.6	31.38	2.4	35.1
10 .....	32.48	5.2	34.3	—	—	—	33.19	5.4	34.0
11 .....	29.26	8.7	35.0	26.05	7.7	38.5	—	—	—
Teachers, n.e.c. ....	26.51	2.6	30.8	16.62	3.4	24.0	28.22	2.7	32.4
3 .....	7.61	4.2	13.2	7.52	6.4	9.7	—	—	—
4 .....	9.04	5.9	14.3	9.38	7.9	13.2	8.49	11.1	16.6
5 .....	12.41	4.1	21.5	13.11	7.1	22.0	11.96	8.3	21.3
6 .....	15.42	5.1	24.6	13.83	2.6	27.9	17.89	6.5	20.9
7 .....	24.26	5.9	35.9	18.19	4.7	32.7	25.15	6.7	36.4
8 .....	24.34	4.9	32.7	17.10	10.6	26.0	25.56	4.6	34.2
9 .....	32.12	2.9	32.0	20.75	6.6	22.6	32.61	2.9	32.6
10 .....	29.30	4.5	32.6	25.18	7.9	28.2	31.35	5.1	35.3
11 .....	30.77	7.0	36.2	30.65	9.2	27.8	30.79	7.7	37.6
12 .....	34.20	12.0	22.0	—	—	—	37.37	5.9	28.1
Not able to be leveled .....	17.81	6.4	26.7	—	—	—	—	—	—
Substitute teachers .....	10.00	3.5	16.1	9.31	7.5	12.3	10.02	3.6	16.2
2 .....	6.23	5.4	10.7	—	—	—	6.23	5.4	10.7
3 .....	7.19	1.5	9.4	—	—	—	7.19	1.5	9.4
4 .....	7.60	4.6	20.1	—	—	—	7.61	4.6	20.1
5 .....	9.03	2.6	15.0	9.01	9.0	10.8	9.03	2.7	15.1
6 .....	11.93	12.6	13.9	9.35	3.6	8.1	12.07	13.2	14.5
7 .....	10.45	3.3	18.0	9.15	13.0	22.2	10.52	3.5	17.9
8 .....	14.31	12.1	14.8	—	—	—	14.29	12.3	15.3
9 .....	15.80	12.8	27.4	—	—	—	15.88	12.9	28.5
Vocational and educational counselors .....	24.78	3.8	36.5	15.79	4.2	37.0	27.34	3.9	36.4
5 .....	13.11	8.3	35.6	11.61	7.1	38.6	14.84	12.2	32.6
6 .....	12.35	4.1	37.2	11.35	3.2	37.6	16.06	2.0	35.7
7 .....	18.96	7.0	38.7	15.66	7.1	38.4	20.03	8.9	38.8
8 .....	25.03	5.6	36.8	16.36	5.6	36.8	27.45	5.4	36.8

See footnotes at end of table.

Table 2-4. Selected occupations<sup>1</sup> and levels:<sup>2</sup> Mean hourly earnings<sup>3</sup> and weekly hours, private industry and State and local government, National Compensation Survey,<sup>4</sup> 1998—Continued

Occupation and level	Total			Private industry			State and local government		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)	
<b>White collar—Continued</b>									
<b>Professional specialty and technical—Continued</b>									
Professional specialty—Continued									
Teachers, except college and university—Continued									
Vocational and educational counselors—Continued									
9 .....	\$28.28	6.8	35.9	\$20.13	4.5	35.9	\$29.46	7.1	35.9
10 .....	29.18	4.5	37.3	26.52	10.5	37.9	29.21	4.6	37.3
11 .....	33.13	7.7	35.3	25.22	10.2	38.0	34.24	7.9	35.0
Not able to be leveled .....	24.57	10.5	32.4	—	—	—	24.89	10.6	36.1
Librarians, archivists, and curators .....									
5 .....	21.39	2.2	36.5	21.02	3.8	35.4	21.56	2.9	37.1
6 .....	13.89	5.5	34.8	12.95	5.1	32.7	14.56	8.5	36.6
7 .....	13.08	13.0	33.4	9.50	12.1	27.7	14.35	15.0	36.0
8 .....	16.74	7.1	36.4	15.89	5.0	35.9	17.07	9.3	36.5
9 .....	21.26	5.1	38.2	21.33	6.6	39.3	21.25	5.9	38.0
10 .....	23.87	4.0	36.5	20.82	4.5	35.0	25.50	5.2	37.3
11 .....	23.50	5.3	37.2	23.61	8.7	36.4	23.39	6.2	38.1
12 .....	25.16	6.8	35.9	30.20	6.7	36.1	22.91	8.6	35.8
12 .....	26.28	9.2	38.6	26.30	12.4	38.8	—	—	—
Librarians .....									
5 .....	21.53	2.3	36.5	20.47	3.6	35.2	21.95	3.0	37.0
6 .....	14.20	5.9	36.0	13.01	5.5	35.0	15.15	8.9	36.9
7 .....	13.05	13.2	33.3	9.18	12.2	27.3	14.35	15.0	36.0
8 .....	17.12	7.9	35.9	16.45	3.2	35.7	17.37	10.5	36.0
9 .....	21.30	5.4	37.9	20.87	8.7	37.3	21.36	6.0	38.0
10 .....	24.44	3.9	36.4	21.68	3.2	35.1	25.78	5.4	37.1
11 .....	23.43	5.8	37.4	23.53	9.9	36.6	23.33	6.5	38.2
12 .....	24.72	8.1	35.4	27.83	8.5	34.0	23.82	9.5	35.8
12 .....	28.73	6.3	38.3	—	—	—	—	—	—
Archivists and curators .....									
7 .....	20.33	7.7	37.1	23.16	12.7	36.5	16.77	5.6	37.9
9 .....	14.48	7.7	39.1	—	—	—	—	—	—
11 .....	17.62	10.4	36.6	—	—	—	—	—	—
11 .....	26.65	16.4	37.7	—	—	—	—	—	—
Social scientists and urban planners .....									
5 .....	23.65	3.0	36.7	23.07	3.7	35.9	24.27	4.7	37.5
6 .....	12.61	6.8	35.2	13.04	6.5	32.8	—	—	—
7 .....	15.30	3.9	35.3	15.02	5.0	37.5	16.35	4.7	28.9
8 .....	17.82	3.0	39.0	18.59	3.9	39.1	16.69	5.5	38.9
9 .....	20.41	3.5	35.5	19.52	5.5	37.7	21.45	3.8	33.3
10 .....	23.93	8.5	35.3	20.22	6.4	33.4	26.89	11.0	37.1
11 .....	23.85	4.6	38.5	24.56	7.3	38.3	23.34	5.8	38.7
12 .....	28.94	3.4	36.8	30.80	4.8	33.4	27.82	3.9	39.1
13 .....	32.13	2.6	40.0	32.95	3.1	40.1	28.88	5.7	39.6
13 .....	40.70	6.5	34.2	41.49	6.2	33.9	—	—	—
Not able to be leveled .....	25.45	9.7	35.9	25.34	17.5	34.9	—	—	—
Economists .....									
5 .....	25.93	3.8	39.8	26.30	3.9	39.8	20.77	7.2	40.0
6 .....	15.02	4.0	41.4	15.02	4.0	41.4	—	—	—
7 .....	15.00	4.7	40.3	15.00	4.7	40.3	—	—	—
8 .....	19.13	4.3	40.7	19.43	4.3	40.7	—	—	—
9 .....	23.66	6.4	39.5	23.66	6.4	39.5	—	—	—
10 .....	24.36	5.2	40.0	25.00	4.8	40.0	—	—	—
11 .....	29.60	4.5	38.2	29.65	4.5	38.1	—	—	—
12 .....	30.31	7.9	38.9	32.82	5.2	38.5	—	—	—
12 .....	33.54	3.6	40.6	33.54	3.6	40.6	—	—	—
Not able to be leveled .....	26.26	18.6	41.1	26.26	18.6	41.1	—	—	—
Psychologists .....									
5 .....	23.81	5.0	34.6	18.27	4.0	31.5	27.38	5.4	37.0
6 .....	11.89	10.6	28.1	—	—	—	—	—	—
7 .....	15.21	6.9	31.7	14.62	9.7	35.5	—	—	—
8 .....	15.63	4.9	37.1	15.98	7.0	32.8	15.46	6.8	39.5
9 .....	19.50	4.8	36.3	16.07	7.2	36.4	22.07	5.1	36.3
10 .....	25.37	12.8	32.8	15.53	3.0	28.6	31.18	10.9	35.8
11 .....	24.51	7.9	37.8	19.62	5.7	38.4	29.69	9.6	37.3
11 .....	28.42	3.6	36.3	27.97	7.5	29.3	28.55	4.2	38.9

See footnotes at end of table.

Table 2-4. Selected occupations<sup>1</sup> and levels:<sup>2</sup> Mean hourly earnings<sup>3</sup> and weekly hours, private industry and State and local government, National Compensation Survey,<sup>4</sup> 1998—Continued

Occupation and level	Total			Private industry			State and local government		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)	
<b>White collar—Continued</b>									
<b>Professional specialty and technical—Continued</b>									
Professional specialty—Continued									
Social scientists and urban planners—Continued									
Psychologists—Continued									
12 .....	\$28.59	5.0	38.7	\$28.82	8.8	37.2	\$28.47	5.9	39.5
Sociologists .....	17.54	3.2	39.3	—	—	—	—	—	—
Social scientists, n.e.c. ....	16.66	10.9	37.7	25.60	5.5	32.6	13.51	11.0	39.9
8 .....	20.11	2.0	38.6	—	—	—	—	—	—
9 .....	15.03	7.6	39.9	—	—	—	—	—	—
Urban planners .....	22.08	3.5	36.8	—	—	—	22.33	3.4	36.7
7 .....	16.34	7.1	39.6	—	—	—	17.08	7.1	39.4
9 .....	21.05	3.8	39.9	—	—	—	21.05	3.8	39.9
10 .....	25.40	4.8	38.6	—	—	—	25.40	4.8	38.6
Social, recreation, and religious workers .....	15.87	1.3	37.6	14.45	1.6	37.0	16.73	1.6	37.9
3 .....	6.08	14.5	33.9	—	—	—	—	—	—
4 .....	8.85	2.7	27.1	9.48	3.6	36.2	7.61	2.8	18.1
5 .....	11.59	1.5	37.1	10.67	1.6	36.2	12.20	2.1	37.8
6 .....	13.18	2.4	38.2	11.12	2.5	38.0	14.45	2.8	38.3
7 .....	14.63	1.4	37.9	13.68	1.9	37.7	15.23	1.7	38.0
8 .....	15.44	1.8	38.0	14.42	2.8	37.7	16.02	2.4	38.2
9 .....	18.49	1.9	37.1	17.56	2.2	35.3	19.04	2.6	38.3
10 .....	19.68	4.6	38.9	18.19	7.2	39.3	21.39	4.0	38.5
11 .....	22.76	6.1	37.7	19.98	8.3	36.6	24.22	7.7	38.4
12 .....	27.08	10.3	38.0	—	—	—	27.01	11.1	40.0
Not able to be leveled .....	19.82	4.9	35.7	—	—	—	19.89	5.0	35.7
Social workers .....	16.06	1.3	37.8	14.59	1.7	36.8	16.88	1.7	38.4
5 .....	11.72	2.0	38.4	10.70	2.0	37.1	12.31	2.9	39.1
6 .....	13.26	2.6	38.1	11.00	2.8	37.9	14.55	2.7	38.3
7 .....	14.51	1.4	38.0	13.76	2.0	38.0	15.00	1.8	38.0
8 .....	15.54	2.0	38.2	14.53	3.0	37.6	16.05	2.5	38.5
9 .....	18.47	1.9	37.1	17.31	2.1	35.2	19.11	2.6	38.3
10 .....	20.24	3.5	37.9	18.85	5.3	37.0	21.60	4.1	38.9
11 .....	23.48	5.9	36.8	21.67	6.1	33.5	24.22	7.7	38.4
12 .....	26.97	10.8	38.0	—	—	—	27.01	11.1	40.0
Not able to be leveled .....	20.36	5.1	38.9	—	—	—	20.37	5.2	39.0
Recreation workers .....	13.11	3.7	33.4	11.64	3.8	36.2	14.34	4.9	31.3
3 .....	5.79	14.4	33.6	—	—	—	—	—	—
4 .....	8.21	5.3	23.3	8.86	6.6	33.8	—	—	—
5 .....	10.58	3.7	30.7	10.25	3.1	33.1	11.03	7.6	27.9
6 .....	12.41	8.4	39.0	11.91	5.2	39.9	13.01	15.7	37.9
7 .....	16.03	4.4	38.0	12.56	7.1	35.1	17.26	3.3	39.1
8 .....	14.47	5.9	34.7	14.10	9.1	39.3	14.96	6.1	30.2
9 .....	15.53	9.6	34.5	—	—	—	—	—	—
Clergy .....	15.21	15.8	42.2	15.23	16.4	43.0	—	—	—
8 .....	15.33	10.8	36.9	15.33	10.8	36.9	—	—	—
9 .....	18.30	11.6	36.3	18.30	11.6	36.3	—	—	—
11 .....	13.79	30.2	55.0	13.79	30.2	55.0	—	—	—
Religious workers, n.e.c. ....	20.55	15.8	36.6	20.55	15.8	36.6	—	—	—
9 .....	24.54	10.6	39.9	24.54	10.6	39.9	—	—	—
Lawyers and judges .....	36.62	2.4	40.0	41.44	2.6	43.8	31.00	3.3	36.3
7 .....	20.02	10.0	38.2	—	—	—	17.95	8.3	37.4
8 .....	21.13	5.1	37.5	22.26	7.9	41.5	20.40	6.7	35.4
9 .....	22.44	4.5	37.1	25.92	7.8	42.2	20.62	3.8	34.9
10 .....	28.09	3.8	39.4	31.82	5.3	44.1	22.11	4.5	33.6
11 .....	30.59	4.6	38.4	33.69	5.1	43.1	26.90	6.2	34.0
12 .....	40.46	4.3	41.6	42.34	5.2	45.0	35.62	6.5	34.8
13 .....	48.02	3.2	42.9	48.39	3.9	44.0	46.75	4.9	39.4
14 .....	53.11	4.8	44.0	55.84	6.2	44.4	46.64	6.1	43.2
15 .....	43.16	3.5	40.6	68.38	8.5	43.0	—	—	—
Not able to be leveled .....	34.81	8.1	37.9	47.19	9.7	40.4	32.46	8.8	37.5
Lawyers .....	36.30	2.6	40.3	41.43	2.6	43.8	29.55	3.0	36.5

See footnotes at end of table.



Table 2-4. Selected occupations<sup>1</sup> and levels:<sup>2</sup> Mean hourly earnings<sup>3</sup> and weekly hours, private industry and State and local government, National Compensation Survey,<sup>4</sup> 1998–Continued

Occupation and level	Total			Private industry			State and local government		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)	
<b>White collar –Continued</b>									
<b>Professional specialty and technical –Continued</b>									
Professional specialty –Continued									
Lawyers and judges –Continued									
Lawyers –Continued									
7 .....	\$20.02	10.0	38.2	–	–	–	\$17.95	8.3	37.4
8 .....	21.13	5.1	37.5	\$22.26	7.9	41.5	20.40	6.7	35.4
9 .....	22.30	4.7	37.8	25.53	7.9	42.2	20.39	3.2	35.5
10 .....	28.37	3.9	41.0	31.82	5.3	44.1	22.04	5.0	36.3
11 .....	30.56	4.6	38.8	33.69	5.1	43.1	26.81	6.2	34.6
12 .....	40.42	4.4	41.6	42.34	5.2	45.0	35.07	7.1	34.4
13 .....	48.10	3.3	43.3	48.39	3.9	44.0	46.92	5.4	40.5
14 .....	53.73	5.4	44.6	55.84	6.2	44.4	–	–	–
15 .....	43.16	3.5	40.6	68.38	8.5	43.0	–	–	–
Not able to be leveled .....	32.11	6.0	37.8	47.19	9.7	40.4	28.50	3.8	37.2
Judges .....	42.18	7.0	34.7	–	–	–	42.07	7.1	34.7
13 .....	45.72	10.8	33.6	–	–	–	45.72	10.8	33.6
Not able to be leveled .....	47.40	3.8	38.7	–	–	–	47.40	3.8	38.7
Writers, authors, entertainers, athletes, and professionals, n.e.c. ....	23.92	3.8	36.4	24.21	4.2	36.7	21.56	4.7	34.1
4 .....	10.53	15.5	31.9	10.54	15.6	32.0	–	–	–
5 .....	14.36	2.8	37.7	14.23	2.9	39.1	16.34	10.5	25.0
6 .....	13.89	2.4	38.8	13.94	2.6	39.0	13.55	4.6	37.4
7 .....	18.06	2.2	39.1	18.09	2.4	39.3	17.82	6.0	37.6
8 .....	19.90	2.2	38.7	19.89	2.4	38.6	19.94	3.9	39.5
9 .....	23.21	2.6	38.5	23.24	2.8	38.6	22.72	4.1	37.6
10 .....	26.11	4.4	40.4	27.14	4.2	40.0	–	–	–
11 .....	31.33	3.2	38.9	31.52	3.3	38.9	26.37	6.0	39.9
12 .....	36.90	3.4	39.3	37.66	3.4	40.3	–	–	–
13 .....	41.26	4.5	39.5	41.32	4.6	39.4	–	–	–
14 .....	42.63	3.8	40.9	43.23	4.3	41.0	–	–	–
Not able to be leveled .....	28.20	12.2	30.3	29.22	14.1	30.1	23.38	9.5	31.1
Technical writers .....	21.50	6.8	38.9	21.50	6.8	38.9	–	–	–
5 .....	14.60	3.2	38.6	14.60	3.2	38.6	–	–	–
6 .....	16.72	7.7	39.8	16.72	7.7	39.8	–	–	–
7 .....	19.14	3.6	39.4	19.10	3.6	39.4	–	–	–
8 .....	19.18	5.3	39.4	19.18	5.3	39.4	–	–	–
9 .....	21.81	4.7	36.6	21.81	4.7	36.6	–	–	–
11 .....	29.97	5.1	40.2	29.97	5.1	40.2	–	–	–
Designers .....	22.27	3.9	39.7	22.40	4.0	39.8	15.97	8.7	36.8
4 .....	8.43	4.4	33.9	8.43	4.4	33.9	–	–	–
5 .....	14.56	4.6	39.2	14.56	4.6	39.2	–	–	–
6 .....	15.53	3.3	38.9	15.76	3.3	39.7	14.38	10.2	35.3
7 .....	18.45	2.8	39.7	18.48	2.9	39.7	–	–	–
8 .....	20.17	3.8	38.6	20.17	3.8	38.6	–	–	–
9 .....	22.94	3.4	39.9	22.99	3.5	39.9	–	–	–
10 .....	27.51	6.1	41.1	27.51	6.1	41.1	–	–	–
11 .....	30.57	7.3	40.8	30.57	7.3	40.8	–	–	–
12 .....	36.00	5.2	42.7	36.00	5.2	42.7	–	–	–
Musicians and composers .....	36.96	20.4	15.4	38.79	20.3	15.2	14.89	9.0	18.0
Not able to be leveled .....	36.96	20.4	15.4	38.79	20.3	15.2	14.89	9.0	18.0
Actors and directors .....	33.29	21.2	34.5	33.51	21.3	35.0	–	–	–
Not able to be leveled .....	33.29	21.2	34.5	33.51	21.3	35.0	–	–	–
Painters, sculptors, craft artists, and artist printmakers .....	25.94	23.5	39.6	26.60	24.6	39.6	18.17	11.0	39.6
Not able to be leveled .....	25.94	23.5	39.6	26.60	24.6	39.6	18.17	11.0	39.6
Photographers .....	17.11	7.1	38.9	17.18	7.8	38.8	–	–	–
5 .....	13.72	10.9	40.0	13.72	10.9	40.0	–	–	–
6 .....	15.34	6.6	39.9	14.87	9.1	39.8	–	–	–
7 .....	21.61	21.4	41.0	24.79	23.5	41.6	–	–	–
8 .....	20.50	6.9	39.3	20.71	6.9	39.3	–	–	–
9 .....	23.59	4.7	39.4	23.59	4.7	39.4	–	–	–

See footnotes at end of table.

Table 2-4. Selected occupations<sup>1</sup> and levels:<sup>2</sup> Mean hourly earnings<sup>3</sup> and weekly hours, private industry and State and local government, National Compensation Survey,<sup>4</sup> 1998–Continued

Occupation and level	Total			Private industry			State and local government		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)	
<b>White collar –Continued</b>									
<b>Professional specialty and technical –Continued</b>									
Professional specialty –Continued									
Writers, authors, entertainers, athletes, and professionals, n.e.c. –Continued									
Artists, performers, and related workers, n.e.c.	\$13.30	9.6	27.1	\$12.76	12.1	27.0	\$15.41	2.7	27.3
Not able to be leveled .....	13.30	9.6	27.1	12.76	12.1	27.0	15.41	2.7	27.3
Editors and reporters .....	23.14	4.9	38.7	23.29	5.0	38.8	18.90	5.2	38.3
4 .....	16.91	25.1	30.5	–	–	–	–	–	–
5 .....	12.44	4.6	38.2	12.45	4.6	38.2	–	–	–
6 .....	13.06	4.3	37.5	13.08	4.4	37.7	–	–	–
7 .....	16.47	3.6	38.9	16.27	3.5	38.9	–	–	–
8 .....	21.47	4.4	38.6	21.53	4.7	38.5	–	–	–
9 .....	22.51	6.4	39.0	22.51	6.4	39.0	–	–	–
10 .....	27.57	8.7	39.7	27.57	8.7	39.7	–	–	–
11 .....	33.60	7.1	39.1	33.92	7.3	39.1	–	–	–
12 .....	47.02	11.3	38.9	47.02	11.3	38.9	–	–	–
13 .....	43.47	7.5	37.4	43.47	7.5	37.4	–	–	–
Not able to be leveled .....	48.50	26.4	42.5	57.75	20.8	43.4	–	–	–
Public relations specialists .....	20.57	4.9	36.6	21.03	6.4	37.3	19.16	4.9	34.4
5 .....	13.26	10.7	30.7	11.73	8.5	38.9	15.61	12.1	23.3
6 .....	12.72	4.5	40.0	12.91	5.6	40.2	–	–	–
7 .....	18.88	8.5	37.7	17.98	6.3	37.9	20.65	19.3	37.1
8 .....	17.77	3.9	37.1	17.84	4.9	36.3	17.56	5.5	39.9
9 .....	22.17	3.6	36.1	22.05	4.4	35.6	22.63	4.9	38.4
10 .....	25.36	9.3	39.5	28.88	8.4	39.2	–	–	–
11 .....	33.52	8.7	37.8	34.02	9.7	37.6	–	–	–
12 .....	39.89	6.3	37.6	39.89	6.3	37.6	–	–	–
Announcers .....	22.52	21.9	25.7	22.52	21.9	25.7	–	–	–
Not able to be leveled .....	22.52	21.9	25.7	22.52	21.9	25.7	–	–	–
Athletes .....	33.28	40.1	23.9	–	–	–	25.25	17.8	26.5
Not able to be leveled .....	33.28	40.1	23.9	–	–	–	25.25	17.8	26.5
Professional, n.e.c. ....	25.63	3.1	38.9	26.04	3.5	39.4	23.78	6.5	37.2
5 .....	16.24	3.9	39.0	16.04	4.0	39.1	–	–	–
6 .....	13.41	5.7	39.7	13.46	6.8	40.0	–	–	–
7 .....	18.38	4.0	38.9	18.92	4.6	39.6	16.35	3.3	36.6
8 .....	19.76	3.6	39.5	19.17	4.5	39.6	21.37	4.8	39.2
9 .....	25.49	3.7	39.3	25.59	3.9	39.5	23.77	8.2	34.9
10 .....	24.12	6.8	41.1	25.78	5.1	40.1	–	–	–
11 .....	29.48	4.9	38.0	29.70	5.1	37.9	–	–	–
12 .....	34.61	2.7	38.1	35.61	2.6	39.7	–	–	–
13 .....	39.22	2.3	40.0	39.22	2.3	40.0	–	–	–
14 .....	45.06	5.1	40.0	–	–	–	–	–	–
Not able to be leveled .....	26.25	7.5	38.3	26.43	11.0	38.8	25.95	8.1	37.4
Technical .....	17.83	1.2	36.8	18.48	1.4	36.6	15.02	1.2	37.5
2 .....	8.05	2.5	33.7	7.83	2.9	31.9	8.59	3.1	39.1
3 .....	9.65	2.4	32.7	9.75	2.6	33.1	9.04	2.9	30.1
4 .....	11.60	1.1	36.0	11.80	1.2	35.9	10.86	2.4	36.5
5 .....	13.40	.8	36.2	13.55	1.0	35.8	12.81	1.5	38.0
6 .....	15.07	1.7	36.7	15.44	1.6	36.6	13.78	3.0	37.0
7 .....	18.11	1.5	37.9	18.39	1.8	37.9	16.85	1.5	37.6
8 .....	19.32	.9	38.6	19.66	1.0	38.6	17.75	2.0	38.6
9 .....	23.94	2.0	38.2	24.61	2.3	38.1	20.89	1.5	38.5
10 .....	29.74	5.2	38.0	30.38	5.6	37.8	23.89	6.2	39.2
11 .....	55.88	8.1	30.8	56.73	8.2	30.6	26.63	8.9	39.7
12 .....	69.58	19.6	27.2	69.58	19.6	27.2	–	–	–
13 .....	142.31	9.1	20.4	142.31	9.1	20.4	–	–	–
Not able to be leveled .....	18.68	4.0	36.5	18.61	4.4	36.6	19.22	8.2	35.8
Clinical laboratory technologists and technicians .....	15.39	1.7	37.2	15.47	2.0	36.9	15.02	5.4	38.5
2 .....	7.24	4.6	34.8	7.24	4.6	34.8	–	–	–
3 .....	9.50	2.2	35.5	9.42	2.3	35.3	–	–	–

See footnotes at end of table.

Table 2-4. Selected occupations<sup>1</sup> and levels:<sup>2</sup> Mean hourly earnings<sup>3</sup> and weekly hours, private industry and State and local government, National Compensation Survey,<sup>4</sup> 1998—Continued

Occupation and level	Total			Private industry			State and local government		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)	
<b>White collar—Continued</b>									
<b>Professional specialty and technical—Continued</b>									
<b>Technical—Continued</b>									
<b>Clinical laboratory technologists and technicians—Continued</b>									
4 .....	\$10.84	2.5	36.7	\$10.99	3.7	35.7	\$10.53	1.2	38.7
5 .....	13.14	4.2	37.4	13.50	4.1	37.0	11.60	9.4	39.0
6 .....	14.34	4.8	38.1	14.37	5.3	38.2	13.95	5.6	37.7
7 .....	16.38	3.2	37.3	16.25	3.5	37.0	17.28	4.4	39.3
8 .....	17.75	2.1	37.3	17.78	2.6	36.7	17.66	4.4	39.2
9 .....	19.48	1.5	37.2	19.74	1.7	37.4	18.28	2.6	36.2
10 .....	21.95	3.3	38.6	21.60	3.6	38.4	—	—	—
11 .....	23.11	3.4	37.7	22.73	3.5	37.5	—	—	—
Dental hygienists .....	19.86	8.2	35.7	23.17	2.0	32.3	—	—	—
Health record technologists and technicians .....	12.17	3.6	34.6	12.02	4.0	34.8	13.00	7.7	33.6
2 .....	8.45	7.0	38.1	—	—	—	—	—	—
3 .....	10.29	14.0	33.1	10.32	14.4	33.6	—	—	—
4 .....	10.71	2.9	36.0	10.77	3.0	36.0	—	—	—
5 .....	11.60	5.7	32.4	11.38	5.6	32.2	—	—	—
6 .....	15.34	3.1	36.0	15.62	1.9	37.8	—	—	—
7 .....	16.48	6.5	39.6	16.77	8.0	39.5	—	—	—
8 .....	18.23	2.7	29.6	—	—	—	—	—	—
9 .....	19.45	2.9	36.8	—	—	—	—	—	—
Radiological technicians .....	16.91	1.7	33.5	17.00	1.6	33.7	16.38	7.2	32.2
4 .....	13.86	8.9	34.5	14.59	8.8	33.6	—	—	—
5 .....	14.29	2.0	30.9	14.35	2.2	29.6	13.97	4.3	40.0
6 .....	15.72	2.0	34.3	15.88	2.3	35.0	14.51	2.1	29.8
7 .....	18.64	2.8	31.0	18.64	2.7	31.7	18.69	11.9	26.9
8 .....	18.77	3.2	37.0	18.32	1.8	38.1	20.91	13.9	32.7
9 .....	21.83	4.1	37.2	22.64	4.1	37.4	—	—	—
Licensed practical nurses .....	12.98	.9	34.8	13.04	1.0	34.2	12.77	2.0	37.3
4 .....	11.81	2.0	35.3	11.85	2.2	34.6	11.60	5.3	39.0
5 .....	12.78	1.3	34.3	12.83	1.6	33.7	12.57	1.9	37.4
6 .....	13.10	2.5	34.9	13.40	2.7	34.3	11.97	3.0	37.3
7 .....	14.21	1.3	35.2	13.95	1.4	35.2	15.09	2.2	35.4
8 .....	14.89	3.7	35.8	14.69	4.3	35.1	15.79	5.8	39.3
Health technologists and technicians, n.e.c. ....	13.35	1.2	35.0	13.26	1.4	34.2	13.57	2.3	36.9
2 .....	8.23	2.6	34.2	8.42	4.0	29.0	8.08	3.3	40.0
3 .....	9.25	3.5	29.7	9.41	3.5	28.9	8.19	9.5	36.1
4 .....	10.76	1.8	34.0	11.04	2.1	34.4	9.91	3.6	32.8
5 .....	12.94	1.7	35.9	12.97	1.9	35.2	12.81	3.8	38.5
6 .....	13.80	2.0	34.7	13.61	2.5	33.2	14.10	3.5	37.1
7 .....	15.97	2.0	38.2	16.26	2.8	37.4	15.47	2.5	39.6
8 .....	16.92	2.2	35.5	17.00	2.5	34.3	16.70	5.0	39.3
9 .....	21.72	3.2	37.0	19.64	5.6	35.9	24.16	3.1	38.4
11 .....	38.41	3.5	40.0	—	—	—	—	—	—
Not able to be leveled .....	16.42	9.1	36.9	16.45	11.3	36.2	—	—	—
Electrical and electronic technicians .....	18.35	1.8	39.8	18.64	1.2	39.9	14.75	14.6	38.6
2 .....	9.02	4.1	39.3	—	—	—	—	—	—
3 .....	10.78	8.0	34.9	11.15	6.9	40.0	—	—	—
4 .....	11.99	1.8	38.7	12.13	1.5	39.0	—	—	—
5 .....	14.26	3.4	39.6	14.26	3.5	39.8	—	—	—
6 .....	15.37	7.4	39.9	16.72	1.9	39.9	11.44	16.0	39.7
7 .....	19.35	1.8	39.9	19.43	1.9	39.9	17.71	5.1	39.9
8 .....	20.27	1.7	39.9	20.19	1.8	40.0	21.91	6.6	38.9
9 .....	23.18	1.9	39.9	23.17	2.0	39.9	—	—	—
10 .....	24.22	1.6	40.0	23.76	1.6	40.0	—	—	—
Not able to be leveled .....	15.44	5.2	39.9	15.27	5.5	40.0	—	—	—
Industrial engineering technicians .....	18.71	4.6	40.3	18.87	4.5	40.3	—	—	—
5 .....	14.76	3.1	39.3	14.76	3.1	39.3	—	—	—
7 .....	18.65	3.0	40.8	19.45	3.7	41.0	—	—	—
Mechanical engineering technicians .....	19.24	4.0	40.1	19.97	1.9	40.1	—	—	—

See footnotes at end of table.

Table 2-4. Selected occupations<sup>1</sup> and levels:<sup>2</sup> Mean hourly earnings<sup>3</sup> and weekly hours, private industry and State and local government, National Compensation Survey,<sup>4</sup> 1998—Continued

Occupation and level	Total			Private industry			State and local government		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)	
<b>White collar—Continued</b>									
<b>Professional specialty and technical—Continued</b>									
<b>Technical—Continued</b>									
<b>Mechanical engineering technicians—Continued</b>									
4 .....	\$13.80	8.3	36.5	\$13.80	8.3	36.5	—	—	—
5 .....	13.50	6.0	39.7	15.06	7.2	39.3	—	—	—
6 .....	16.17	7.7	40.8	16.17	7.7	40.8	—	—	—
7 .....	19.72	3.2	40.0	19.65	3.3	40.0	—	—	—
8 .....	21.93	3.1	39.9	21.93	3.1	39.9	—	—	—
9 .....	23.86	3.3	41.5	23.86	3.3	41.5	—	—	—
Engineering technicians, n.e.c. ....	18.80	1.6	39.3	19.61	1.8	39.6	\$16.82	3.4	38.7
3 .....	10.44	5.3	40.0	11.27	6.1	39.9	—	—	—
4 .....	12.07	3.8	38.1	11.88	4.3	39.4	—	—	—
5 .....	13.99	2.4	39.7	14.80	2.9	39.8	12.61	4.4	39.6
6 .....	16.40	2.6	38.4	16.50	2.7	38.2	16.17	5.8	38.9
7 .....	18.01	2.6	39.9	18.70	3.1	40.0	16.66	3.6	39.7
8 .....	21.13	2.9	40.2	22.06	2.5	40.3	18.17	4.5	39.9
9 .....	22.26	2.2	38.4	22.84	1.7	39.4	20.83	2.8	36.0
10 .....	26.92	1.9	39.6	27.18	2.1	40.0	—	—	—
11 .....	33.57	8.3	40.0	33.57	8.3	40.0	—	—	—
Drafters .....	18.71	3.9	39.6	18.75	4.3	39.6	18.32	4.6	39.3
3 .....	9.88	7.1	39.2	9.88	7.1	39.2	—	—	—
4 .....	13.15	5.3	37.4	13.22	5.4	37.4	—	—	—
5 .....	14.50	3.0	39.2	14.51	3.2	39.4	14.39	8.8	36.6
6 .....	17.75	3.3	40.2	17.71	3.6	40.2	—	—	—
7 .....	20.61	9.4	40.1	20.66	11.1	40.1	20.37	4.1	40.0
8 .....	19.60	2.3	40.3	19.60	2.3	40.3	—	—	—
9 .....	24.74	3.2	39.5	24.92	3.3	39.5	—	—	—
10 .....	30.66	3.1	40.9	30.66	3.1	40.9	—	—	—
11 .....	32.42	7.0	40.0	32.42	7.0	40.0	—	—	—
Surveying and mapping technicians .....	15.92	5.6	39.6	15.79	8.6	40.0	16.08	6.2	39.2
4 .....	12.37	4.8	40.0	—	—	—	—	—	—
5 .....	13.36	4.2	39.5	14.58	5.2	40.0	11.75	7.0	38.8
6 .....	19.73	15.1	40.2	20.37	17.3	40.2	—	—	—
7 .....	18.06	4.1	39.0	19.09	6.1	40.0	17.60	5.9	38.5
8 .....	19.44	7.0	40.0	18.34	11.5	40.0	20.53	6.7	40.0
Biological technicians .....	15.13	4.4	37.1	16.77	5.7	39.5	12.60	4.3	34.0
3 .....	8.74	3.0	25.2	—	—	—	—	—	—
4 .....	11.27	7.4	39.6	11.70	10.6	39.4	—	—	—
5 .....	13.74	3.6	39.7	14.07	6.3	40.0	—	—	—
6 .....	16.50	12.5	39.8	17.30	12.3	39.8	—	—	—
7 .....	17.75	4.7	37.8	19.09	4.8	40.0	15.29	4.9	34.4
8 .....	18.24	8.9	38.8	21.21	5.1	38.2	—	—	—
Chemical technicians .....	17.11	2.3	39.7	17.02	2.5	39.8	19.37	5.0	38.1
4 .....	14.30	5.2	38.8	14.34	5.4	39.5	—	—	—
5 .....	14.83	3.2	39.6	14.82	3.2	39.6	—	—	—
6 .....	18.05	4.2	40.2	18.04	4.3	40.2	—	—	—
7 .....	16.99	5.0	39.5	16.96	5.0	39.5	—	—	—
8 .....	19.56	3.4	40.0	19.68	3.8	40.0	18.71	4.1	40.0
9 .....	24.73	8.1	39.6	—	—	—	—	—	—
Science technicians, n.e.c. ....	18.18	3.2	38.3	18.65	3.4	38.4	15.57	4.3	38.0
4 .....	14.37	3.8	40.0	14.81	4.2	40.0	—	—	—
5 .....	16.07	4.5	39.3	15.99	4.7	39.3	—	—	—
6 .....	18.94	4.5	38.7	20.59	3.9	39.5	13.95	6.8	36.5
7 .....	18.51	4.5	38.0	18.92	5.2	37.9	16.52	7.0	38.2
8 .....	17.92	6.0	39.2	18.28	7.1	39.0	16.45	7.7	40.0
9 .....	21.77	4.9	39.6	21.73	4.9	39.6	—	—	—
Not able to be leveled .....	19.94	8.8	28.5	—	—	—	—	—	—
Airplane pilots and navigators .....	79.22	9.4	23.6	79.93	9.5	23.5	—	—	—
7 .....	35.66	21.0	32.1	35.66	21.0	32.1	—	—	—
8 .....	25.91	5.8	32.8	25.91	5.8	32.8	—	—	—

See footnotes at end of table.

Table 2-4. Selected occupations<sup>1</sup> and levels:<sup>2</sup> Mean hourly earnings<sup>3</sup> and weekly hours, private industry and State and local government, National Compensation Survey,<sup>4</sup> 1998–Continued

Occupation and level	Total			Private industry			State and local government		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)	
<b>White collar –Continued</b>									
<b>Professional specialty and technical –Continued</b>									
<b>Technical –Continued</b>									
<b>Airplane pilots and navigators –Continued</b>									
9 .....	\$54.78	14.8	24.9	\$57.02	14.6	24.3	–	–	–
10 .....	73.24	23.0	23.1	73.24	23.0	23.1	–	–	–
11 .....	116.38	6.0	20.0	116.38	6.0	20.0	–	–	–
12 .....	108.58	10.3	19.7	108.58	10.3	19.7	–	–	–
<b>Broadcast equipment operators .....</b>	<b>17.82</b>	<b>11.0</b>	<b>35.7</b>	<b>17.95</b>	<b>12.5</b>	<b>35.5</b>	<b>\$17.04</b>	<b>8.8</b>	<b>37.0</b>
2 .....	6.90	.0	28.1	6.90	.0	28.1	–	–	–
3 .....	7.49	2.5	23.7	7.47	2.7	24.8	–	–	–
4 .....	10.64	8.4	35.7	10.77	8.9	35.6	–	–	–
5 .....	11.76	5.5	39.9	11.81	5.7	40.0	–	–	–
6 .....	16.98	17.6	39.5	18.22	19.2	40.0	–	–	–
7 .....	16.88	4.8	36.6	16.88	4.8	36.6	–	–	–
8 .....	18.99	10.7	39.8	–	–	–	–	–	–
9 .....	22.74	8.9	39.4	24.54	9.5	39.1	–	–	–
<b>Computer programmers .....</b>	<b>22.06</b>	<b>1.9</b>	<b>39.5</b>	<b>22.38</b>	<b>2.0</b>	<b>39.4</b>	<b>19.51</b>	<b>4.0</b>	<b>39.7</b>
4 .....	12.58	13.4	39.6	12.58	13.4	39.6	–	–	–
5 .....	15.52	4.1	37.3	15.73	4.4	37.3	–	–	–
6 .....	17.16	4.1	38.1	17.21	4.3	38.1	–	–	–
7 .....	19.91	3.6	39.9	20.15	3.7	39.9	17.53	5.9	40.0
8 .....	19.98	2.1	39.4	20.52	2.1	39.6	17.28	5.5	38.9
9 .....	24.35	2.1	39.9	24.65	2.4	39.7	22.57	2.8	41.0
10 .....	29.87	4.1	39.8	30.18	4.2	39.8	–	–	–
11 .....	30.32	3.9	40.0	30.32	3.9	40.0	–	–	–
Not able to be leveled .....	18.46	9.4	39.4	18.28	10.3	40.0	–	–	–
<b>Tool programmers, numerical control .....</b>	<b>17.32</b>	<b>4.7</b>	<b>40.1</b>	<b>17.32</b>	<b>4.7</b>	<b>40.1</b>	<b>–</b>	<b>–</b>	<b>–</b>
7 .....	16.69	3.8	40.0	16.69	3.8	40.0	–	–	–
8 .....	21.53	8.7	40.0	21.53	8.7	40.0	–	–	–
<b>Legal assistants .....</b>	<b>17.19</b>	<b>2.6</b>	<b>39.3</b>	<b>17.91</b>	<b>2.7</b>	<b>39.4</b>	<b>15.40</b>	<b>5.2</b>	<b>39.2</b>
4 .....	11.61	5.4	39.4	12.17	3.4	40.0	–	–	–
5 .....	15.08	6.4	39.4	15.32	9.4	39.8	14.85	8.3	38.9
6 .....	16.26	4.3	39.8	17.37	4.4	39.6	14.58	4.3	40.0
7 .....	16.99	2.3	39.0	17.00	2.1	39.2	16.97	7.5	38.4
8 .....	17.86	3.8	39.5	17.92	4.1	39.4	–	–	–
9 .....	21.89	9.1	39.7	24.62	7.4	39.5	–	–	–
<b>Technical and related, n.e.c. ....</b>	<b>18.60</b>	<b>1.7</b>	<b>38.4</b>	<b>19.44</b>	<b>2.0</b>	<b>39.0</b>	<b>16.12</b>	<b>4.5</b>	<b>36.9</b>
2 .....	8.61	3.9	31.2	7.97	3.2	24.3	–	–	–
3 .....	8.99	6.0	34.5	8.98	6.5	37.3	–	–	–
4 .....	12.16	3.4	38.3	12.45	4.1	37.9	11.35	8.5	39.4
5 .....	13.36	2.9	38.4	13.69	2.5	39.2	12.59	4.0	36.6
6 .....	15.40	2.5	37.3	15.43	3.1	38.7	15.34	4.5	34.5
7 .....	19.31	2.1	39.2	19.68	2.4	39.9	18.24	4.1	37.1
8 .....	19.38	3.6	38.7	20.32	3.9	39.0	16.82	5.5	37.8
9 .....	22.56	3.1	39.7	23.18	3.4	39.6	20.84	.2	40.0
10 .....	24.98	4.6	40.0	25.97	3.2	40.0	–	–	–
11 .....	35.12	3.8	39.3	35.73	3.3	39.2	–	–	–
Not able to be leveled .....	20.08	6.9	36.3	19.78	7.4	37.2	–	–	–
<b>Executive, administrative, and managerial .....</b>	<b>27.78</b>	<b>.7</b>	<b>40.0</b>	<b>28.63</b>	<b>.9</b>	<b>40.5</b>	<b>24.99</b>	<b>1.1</b>	<b>38.6</b>
4 .....	8.94	8.3	40.7	9.20	7.8	43.5	–	–	–
5 .....	14.05	1.5	39.8	14.08	1.7	40.1	13.91	3.4	38.5
6 .....	15.04	1.5	39.7	15.53	1.5	40.0	13.90	3.0	39.2
7 .....	17.47	.7	39.6	17.59	.8	39.9	17.09	1.5	38.6
8 .....	19.21	.9	40.0	19.35	1.1	40.4	18.75	1.8	38.7
9 .....	23.49	.7	40.1	23.83	.8	40.4	22.31	1.2	39.0
10 .....	27.20	1.1	40.1	27.80	1.4	40.4	25.74	1.8	39.2
11 .....	30.48	.6	40.3	30.74	.7	40.6	29.84	1.3	39.5
12 .....	36.18	3.1	40.7	36.37	3.7	40.9	35.22	2.5	39.4
13 .....	45.86	1.4	40.6	47.52	1.7	40.8	39.50	5.2	39.9
14 .....	60.49	2.2	41.5	62.23	2.3	41.9	47.13	6.6	38.8

See footnotes at end of table.

Table 2-4. Selected occupations<sup>1</sup> and levels:<sup>2</sup> Mean hourly earnings<sup>3</sup> and weekly hours, private industry and State and local government, National Compensation Survey,<sup>4</sup> 1998—Continued

Occupation and level	Total			Private industry			State and local government		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)	
<b>White collar—Continued</b>									
<b>Executive, administrative, and managerial—Continued</b>									
15 .....	\$91.68	9.7	41.1	\$91.80	9.8	41.1	—	—	—
Not able to be leveled .....	37.11	5.7	36.2	41.08	7.0	39.5	\$27.67	3.4	30.2
Executives, administrators, and managers .....	31.73	.9	40.3	32.51	1.4	40.9	29.05	1.2	38.5
5 .....	13.48	3.2	40.3	13.59	3.6	40.7	12.71	4.7	37.6
6 .....	14.20	3.0	40.4	14.28	3.7	40.6	13.96	5.3	39.8
7 .....	17.06	1.8	39.8	16.90	2.2	40.4	17.61	3.2	38.0
8 .....	19.26	1.5	40.7	19.34	1.6	41.1	18.89	3.9	39.2
9 .....	23.96	1.0	40.4	24.03	1.1	40.9	23.66	2.0	39.0
10 .....	27.76	1.4	40.5	28.03	1.6	40.7	27.02	2.7	39.7
11 .....	31.07	.8	40.4	31.28	.9	40.8	30.63	1.4	39.5
12 .....	36.41	3.5	40.7	36.56	4.3	41.1	35.73	2.4	39.4
13 .....	45.53	1.5	40.7	47.22	1.9	40.9	39.67	5.2	39.9
14 .....	61.62	2.2	41.6	63.68	2.2	42.1	47.13	6.6	38.8
15 .....	94.15	9.7	41.1	94.30	9.8	41.1	—	—	—
Not able to be leveled .....	40.23	7.6	35.2	45.66	9.6	39.7	29.28	3.7	28.7
Legislators .....	15.09	13.3	13.2	—	—	—	15.09	13.3	13.2
Not able to be leveled .....	15.82	12.8	12.9	—	—	—	15.82	12.8	12.9
Chief executives and general administrators, public administration .....	60.36	32.1	39.7	—	—	—	38.28	5.1	39.6
11 .....	34.22	6.2	39.2	—	—	—	—	—	—
12 .....	38.80	8.5	40.6	—	—	—	37.18	10.8	40.7
Administrators and officials, public administration .....	25.80	1.7	39.1	24.65	13.8	39.5	25.83	1.7	39.1
5 .....	13.72	5.8	39.2	—	—	—	13.72	5.8	39.2
6 .....	13.00	7.4	40.1	—	—	—	12.99	8.6	40.1
7 .....	16.56	5.8	37.2	—	—	—	16.55	6.2	37.0
8 .....	18.91	4.5	39.1	—	—	—	18.80	4.6	39.1
9 .....	23.29	3.1	38.7	—	—	—	23.35	3.1	38.6
10 .....	23.51	3.6	40.5	—	—	—	23.51	3.6	40.5
11 .....	26.86	3.0	39.5	—	—	—	26.91	3.0	39.5
12 .....	32.71	2.5	39.5	—	—	—	32.86	2.5	39.7
13 .....	32.51	4.4	39.6	—	—	—	32.31	4.6	39.6
14 .....	38.97	12.1	38.5	—	—	—	38.15	12.0	38.4
Not able to be leveled .....	33.43	3.5	37.4	—	—	—	33.18	3.5	37.4
Financial managers .....	32.82	2.3	40.2	32.74	2.5	40.2	33.58	3.6	39.9
5 .....	14.04	8.9	40.9	14.04	8.9	40.9	—	—	—
6 .....	14.27	8.5	39.2	14.27	8.5	39.2	—	—	—
7 .....	17.20	9.9	39.7	17.20	9.9	39.7	—	—	—
8 .....	19.21	3.0	38.9	19.24	3.0	39.1	—	—	—
9 .....	23.02	3.3	40.1	23.09	3.5	40.1	21.82	4.7	39.8
10 .....	27.39	2.4	41.0	27.73	2.3	41.1	22.85	10.5	39.6
11 .....	30.66	2.2	40.7	31.02	2.4	40.7	28.55	4.2	40.7
12 .....	37.51	2.5	40.4	38.32	2.5	40.5	30.28	4.0	39.8
13 .....	48.05	4.3	39.9	46.96	5.1	39.8	51.12	1.6	40.0
14 .....	69.44	7.0	39.3	70.60	7.0	39.5	—	—	—
Not able to be leveled .....	46.69	18.9	38.8	47.15	19.9	38.7	—	—	—
Personnel and labor relations managers .....	32.18	3.1	41.1	32.39	3.5	41.4	30.72	5.7	39.6
6 .....	12.40	6.1	40.0	—	—	—	—	—	—
7 .....	17.78	7.0	39.7	17.63	9.9	40.7	—	—	—
8 .....	18.72	2.4	40.4	18.93	2.7	40.7	17.78	4.8	39.2
9 .....	22.44	5.4	42.0	21.91	5.1	42.3	26.30	12.6	40.2
10 .....	30.86	4.6	40.5	30.48	5.5	40.6	—	—	—
11 .....	32.50	2.7	40.5	31.48	2.6	40.6	38.35	4.3	40.1
12 .....	37.71	2.3	40.6	37.88	2.3	40.7	35.51	7.1	40.0
13 .....	49.28	5.2	43.0	50.48	5.5	43.9	—	—	—
14 .....	62.90	5.0	39.6	63.89	4.9	39.6	—	—	—
Not able to be leveled .....	41.69	6.1	40.0	41.69	6.1	40.0	—	—	—
Purchasing managers .....	28.91	3.4	41.1	29.26	3.6	41.2	25.28	11.3	39.8
7 .....	15.49	2.3	40.5	15.28	2.4	40.6	—	—	—

See footnotes at end of table.

Table 2-4. Selected occupations<sup>1</sup> and levels:<sup>2</sup> Mean hourly earnings<sup>3</sup> and weekly hours, private industry and State and local government, National Compensation Survey,<sup>4</sup> 1998–Continued

Occupation and level	Total			Private industry			State and local government		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)	
<b>White collar –Continued</b>									
<b>Executive, administrative, and managerial –Continued</b>									
Executives, administrators, and managers –Continued									
Purchasing managers –Continued									
8 .....	\$17.48	4.6	42.5	\$17.63	5.3	42.9	–	–	–
9 .....	22.60	3.0	40.7	22.79	3.2	40.7	–	–	–
10 .....	33.25	4.2	40.2	33.24	4.3	40.2	–	–	–
11 .....	30.21	2.7	40.2	29.98	3.4	40.2	–	–	–
12 .....	36.01	3.3	41.9	36.28	3.4	42.1	–	–	–
13 .....	44.80	5.2	40.3	44.80	5.2	40.3	–	–	–
14 .....	54.29	6.7	40.0	–	–	–	–	–	–
Managers, marketing, advertising, and public relations .....									
7 .....	35.26	2.0	40.8	35.35	2.0	40.8	\$22.56	11.1	39.5
8 .....	17.58	3.1	39.6	17.41	3.2	39.5	–	–	–
9 .....	18.97	6.7	40.5	18.97	6.8	40.6	–	–	–
10 .....	25.76	2.3	40.8	25.77	2.3	40.8	–	–	–
11 .....	31.32	5.8	41.0	31.32	5.8	41.0	–	–	–
12 .....	32.26	3.7	40.8	32.26	3.7	40.8	–	–	–
13 .....	40.47	2.1	40.7	40.49	2.1	40.7	–	–	–
14 .....	47.64	3.2	41.8	47.65	3.2	41.8	–	–	–
Not able to be leveled .....	59.77	5.0	41.2	59.77	5.0	41.2	–	–	–
Not able to be leveled .....	36.01	10.7	40.7	36.06	10.7	40.7	–	–	–
Administrators, education and related fields .....									
5 .....	31.96	1.7	39.1	25.48	3.5	38.8	33.81	1.8	39.2
6 .....	10.75	4.1	35.5	10.86	6.1	33.8	–	–	–
7 .....	13.15	15.9	35.3	11.15	7.6	34.5	–	–	–
8 .....	16.50	6.2	35.2	13.91	3.5	35.4	20.26	8.1	35.0
9 .....	19.68	4.4	39.1	16.91	3.8	39.2	22.44	5.6	38.9
10 .....	24.93	3.4	38.6	21.56	2.4	37.3	26.25	4.2	39.1
11 .....	31.58	3.8	39.2	21.75	5.5	40.3	33.35	3.5	39.0
12 .....	32.09	1.9	39.3	23.97	3.0	40.1	33.28	2.0	39.2
13 .....	37.34	3.5	39.1	33.54	6.0	40.4	37.99	3.8	38.9
14 .....	42.88	5.9	40.0	43.48	10.3	39.5	42.60	7.2	40.2
Not able to be leveled .....	48.21	3.5	45.3	46.51	4.9	48.8	49.36	5.1	43.1
Not able to be leveled .....	38.81	9.6	39.2	–	–	–	38.30	10.4	39.5
Managers, medicine and health .....									
5 .....	29.33	2.3	39.7	29.88	2.4	39.7	27.24	7.8	39.6
6 .....	15.64	10.8	37.2	15.82	11.5	37.2	–	–	–
7 .....	17.37	10.7	40.0	17.54	12.6	40.0	–	–	–
8 .....	17.89	7.3	39.6	19.33	2.8	39.7	13.68	17.1	39.3
9 .....	22.84	1.9	39.3	23.13	2.3	39.2	21.79	2.1	39.5
10 .....	24.80	2.8	40.7	24.89	2.9	40.8	23.26	5.6	38.9
11 .....	27.85	2.2	39.9	28.42	2.1	40.0	25.57	3.6	39.6
12 .....	35.66	2.8	39.6	36.63	3.3	39.5	32.95	5.7	40.0
13 .....	43.01	5.5	38.9	42.27	6.4	39.0	47.43	10.6	38.3
14 .....	57.48	7.9	41.9	54.75	7.8	42.3	–	–	–
Not able to be leveled .....	44.14	18.4	39.7	56.90	21.6	39.5	–	–	–
Managers, food servicing and lodging establishments .....									
5 .....	18.24	3.3	42.7	18.35	3.5	43.2	17.25	6.9	38.8
6 .....	12.57	4.3	39.0	12.55	4.7	39.3	–	–	–
7 .....	13.82	3.6	42.2	13.53	4.2	43.1	–	–	–
8 .....	15.37	2.2	43.0	14.89	2.5	43.8	–	–	–
9 .....	15.23	4.0	44.7	15.14	4.2	45.2	–	–	–
10 .....	20.07	4.3	43.4	19.96	4.3	43.5	–	–	–
11 .....	25.11	6.9	42.6	25.22	7.1	43.3	–	–	–
12 .....	30.77	7.1	42.9	30.77	7.1	42.9	–	–	–
13 .....	32.34	7.9	39.7	32.46	9.5	40.2	–	–	–
Managers, properties and real estate .....									
6 .....	23.18	8.9	40.5	23.34	10.2	40.8	22.17	6.0	39.2
7 .....	10.86	7.5	39.3	10.70	8.3	39.2	–	–	–
8 .....	14.07	4.2	40.1	–	–	–	–	–	–
9 .....	17.27	9.9	40.4	17.27	10.2	40.4	–	–	–
10 .....	23.71	6.4	40.2	24.50	6.7	40.3	–	–	–

See footnotes at end of table.

Table 2-4. Selected occupations<sup>1</sup> and levels:<sup>2</sup> Mean hourly earnings<sup>3</sup> and weekly hours, private industry and State and local government, National Compensation Survey,<sup>4</sup> 1998—Continued

Occupation and level	Total			Private industry			State and local government		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)	
<b>White collar—Continued</b>									
<b>Executive, administrative, and managerial—Continued</b>									
Executives, administrators, and managers—Continued									
Managers, properties and real estate—Continued									
12 .....	\$40.33	8.6	42.0	—	—	—	—	—	—
Funeral directors .....	25.26	14.3	40.3	\$25.26	14.3	40.3	—	—	—
Managers, service organizations, n.e.c. ....	23.33	11.6	39.6	23.83	13.8	39.8	\$20.54	4.3	38.3
5 .....	11.56	3.9	35.5	12.09	4.5	36.7	—	—	—
6 .....	12.79	6.1	39.3	13.63	9.6	39.9	—	—	—
7 .....	14.55	5.4	40.2	14.67	6.9	40.4	14.17	4.3	39.3
8 .....	17.97	4.5	40.0	17.64	5.5	40.1	19.58	12.5	39.3
9 .....	23.28	5.8	38.5	24.31	6.5	39.1	19.82	7.2	36.7
10 .....	23.15	6.2	39.7	21.96	8.8	39.5	25.46	4.6	40.0
11 .....	28.91	4.8	39.7	29.65	5.6	39.9	25.68	4.7	38.9
12 .....	—	—	—	—	—	—	28.46	5.3	39.6
13 .....	51.58	9.5	35.6	51.58	9.5	35.6	—	—	—
14 .....	74.16	4.9	46.3	74.16	4.9	46.3	—	—	—
Managers and administrators, n.e.c. ....	34.38	1.4	41.2	34.86	1.4	41.3	28.24	4.5	39.3
5 .....	14.28	5.7	43.3	14.28	5.8	43.4	—	—	—
6 .....	16.11	6.2	41.7	16.17	6.5	41.9	—	—	—
7 .....	18.29	2.7	40.4	18.10	3.1	40.6	19.46	6.9	39.4
8 .....	21.38	2.3	41.1	21.63	2.5	41.2	19.33	5.1	39.8
9 .....	24.64	1.3	41.3	24.81	1.3	41.4	22.76	3.8	39.5
10 .....	28.35	2.5	40.5	28.56	2.5	40.6	22.36	3.8	38.8
11 .....	32.30	1.0	41.0	32.39	1.1	41.1	31.31	4.6	40.2
12 .....	37.93	1.5	41.6	38.02	1.6	41.6	36.23	2.1	40.4
13 .....	47.45	2.8	41.3	47.75	2.9	41.3	39.86	6.4	42.5
14 .....	63.39	2.7	42.2	63.92	2.7	42.5	53.14	3.7	36.1
15 .....	89.04	6.0	41.8	89.19	6.1	41.8	—	—	—
Not able to be leveled .....	43.52	13.5	39.3	46.15	14.0	40.0	24.09	12.9	35.0
Management related .....	21.88	.8	39.6	22.73	.9	39.9	19.21	1.5	38.8
4 .....	9.16	8.6	43.9	9.16	8.6	43.9	—	—	—
5 .....	14.25	1.7	39.6	14.27	1.9	39.8	14.18	4.0	38.7
6 .....	15.24	1.7	39.6	15.87	1.8	39.8	13.88	3.4	39.1
7 .....	17.66	1.6	39.5	17.93	1.9	39.7	16.86	1.7	39.0
8 .....	19.18	2.0	39.6	19.35	2.6	40.0	18.68	2.1	38.5
9 .....	22.91	.8	39.7	23.57	.9	39.9	20.91	1.5	39.0
10 .....	26.26	1.9	39.4	27.37	2.5	39.9	24.07	2.6	38.6
11 .....	28.64	1.7	39.9	29.34	1.9	40.0	25.46	1.9	39.6
12 .....	34.53	3.1	40.1	35.18	3.1	40.2	27.43	4.8	39.7
13 .....	49.25	3.8	39.9	50.18	3.3	40.0	—	—	—
14 .....	46.15	6.4	40.2	46.15	6.4	40.2	—	—	—
Not able to be leveled .....	30.86	6.1	38.3	33.18	6.8	39.2	22.98	9.0	35.7
Accountants and auditors .....	20.38	1.8	39.6	20.94	2.2	39.8	18.37	3.6	39.0
5 .....	15.20	2.7	39.5	15.32	2.3	39.8	14.82	8.6	38.5
6 .....	15.49	5.5	39.8	16.77	3.5	39.9	13.62	10.0	39.7
7 .....	17.46	1.2	39.4	17.62	1.3	39.5	16.66	2.8	39.0
8 .....	17.66	5.4	39.9	17.65	6.4	39.9	17.71	2.2	39.7
9 .....	21.84	1.2	39.4	22.37	1.4	39.7	20.37	2.4	38.3
10 .....	25.38	2.1	39.7	25.42	2.3	40.1	25.27	4.4	38.5
11 .....	27.03	2.2	39.8	27.08	2.3	39.8	26.33	3.6	38.5
12 .....	32.23	3.8	39.9	33.60	3.0	40.0	23.39	5.2	39.5
13 .....	37.08	16.6	40.6	43.74	10.6	40.9	—	—	—
Not able to be leveled .....	23.34	8.3	42.5	23.61	8.7	42.7	—	—	—
Underwriters .....	25.67	5.0	39.3	25.67	5.0	39.3	—	—	—
5 .....	12.45	5.5	39.3	12.45	5.5	39.3	—	—	—
6 .....	14.00	3.4	39.3	14.00	3.4	39.3	—	—	—
7 .....	18.40	3.3	38.8	18.40	3.3	38.8	—	—	—
8 .....	19.21	3.0	40.1	19.21	3.0	40.1	—	—	—

See footnotes at end of table.



Table 2-4. Selected occupations<sup>1</sup> and levels:<sup>2</sup> Mean hourly earnings<sup>3</sup> and weekly hours, private industry and State and local government, National Compensation Survey,<sup>4</sup> 1998—Continued

Occupation and level	Total			Private industry			State and local government		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)	
<b>White collar—Continued</b>									
<b>Executive, administrative, and managerial—Continued</b>									
Management related—Continued									
Underwriters—Continued									
9 .....	\$24.57	5.4	39.3	\$24.57	5.4	39.3	—	—	—
10 .....	21.26	4.1	39.7	21.26	4.1	39.7	—	—	—
11 .....	27.67	3.5	39.8	27.67	3.5	39.8	—	—	—
Other financial officers .....	24.80	3.4	39.8	25.13	3.8	40.1	\$22.30	6.7	38.0
5 .....	13.40	4.0	39.9	13.26	4.1	39.9	—	—	—
6 .....	15.18	3.1	39.8	15.18	3.1	39.8	—	—	—
7 .....	17.01	2.1	39.9	16.90	2.4	40.0	17.88	3.5	38.8
8 .....	19.73	2.9	39.9	20.20	3.4	40.0	17.46	4.1	39.1
9 .....	23.32	3.2	40.1	23.41	3.6	40.2	22.53	4.6	39.2
10 .....	27.87	5.6	38.4	28.76	7.9	40.3	—	—	—
11 .....	29.60	3.7	40.5	29.77	3.7	40.5	—	—	—
12 .....	35.74	9.3	40.0	36.97	9.5	40.1	—	—	—
13 .....	51.09	12.5	39.7	51.09	12.5	39.7	—	—	—
14 .....	54.42	5.9	41.3	54.42	5.9	41.3	—	—	—
Not able to be leveled .....	38.52	23.5	39.0	38.52	23.5	39.0	—	—	—
Management analysts .....	23.54	2.1	40.0	24.45	2.6	40.1	20.27	2.9	39.3
5 .....	16.94	2.5	39.4	16.86	3.4	40.1	—	—	—
6 .....	15.86	3.2	40.0	15.86	3.2	40.0	—	—	—
7 .....	17.30	4.4	41.6	17.33	4.7	41.8	—	—	—
8 .....	20.91	4.4	39.7	20.91	4.5	39.8	—	—	—
9 .....	24.57	2.2	40.1	24.97	2.0	40.2	22.35	8.6	39.7
10 .....	22.14	4.7	39.6	28.20	4.8	39.9	17.75	3.0	39.5
11 .....	25.23	2.7	39.6	29.57	3.5	39.7	21.69	4.0	39.5
12 .....	35.03	2.9	39.2	35.09	2.9	39.2	—	—	—
13 .....	44.33	5.9	41.6	44.33	5.9	41.6	—	—	—
Not able to be leveled .....	32.37	15.9	41.2	32.37	15.9	41.2	—	—	—
Personnel, training, and labor relations specialists .....									
5 .....	21.11	2.3	39.7	21.79	2.8	39.8	18.72	2.8	39.3
6 .....	13.17	2.7	40.2	13.06	2.8	40.5	13.61	7.6	38.8
7 .....	14.40	4.0	39.6	14.35	5.3	39.8	14.50	4.8	39.1
8 .....	16.91	2.1	39.6	17.10	2.7	39.6	16.46	3.2	39.5
9 .....	19.76	3.8	39.6	20.15	4.2	39.7	17.26	1.8	39.4
10 .....	23.20	1.7	39.7	24.02	1.6	39.6	20.39	4.1	39.9
11 .....	26.92	3.8	39.7	26.83	3.9	39.9	27.04	7.0	39.5
12 .....	28.37	3.2	40.1	28.50	3.4	40.2	—	—	—
13 .....	35.15	4.1	40.4	35.99	3.9	40.6	—	—	—
Not able to be leveled .....	36.63	32.1	38.0	38.71	32.8	40.7	—	—	—
Purchasing agents and buyers, farm products .....									
7 .....	18.92	9.5	39.9	19.21	9.6	39.9	—	—	—
7 .....	16.12	7.0	39.6	—	—	—	—	—	—
Buyers, wholesale and retail trade, except farm products .....									
5 .....	23.20	5.8	40.6	23.23	6.0	40.7	22.29	7.1	39.6
6 .....	13.39	6.7	40.0	12.75	6.0	40.0	—	—	—
7 .....	14.41	5.2	40.6	14.40	5.3	40.6	—	—	—
8 .....	17.41	3.8	40.0	17.41	3.8	40.0	—	—	—
9 .....	28.43	32.3	41.0	28.73	33.0	41.1	—	—	—
10 .....	25.66	3.6	41.0	25.72	3.6	41.0	—	—	—
11 .....	25.83	2.3	42.4	25.87	2.7	42.9	—	—	—
Purchasing agents and buyers, n.e.c. ....									
5 .....	21.84	2.2	39.9	23.37	2.3	39.9	15.38	3.3	39.9
6 .....	15.07	3.9	39.9	15.08	3.9	39.9	—	—	—
7 .....	14.45	4.6	40.2	17.89	4.3	40.4	11.41	7.1	40.0
8 .....	18.21	2.8	39.9	18.18	2.9	40.0	18.66	5.9	38.4
9 .....	18.69	2.3	40.0	18.70	2.5	40.0	18.66	4.8	40.0
10 .....	21.81	2.9	40.0	23.89	3.0	40.0	16.70	4.4	39.9
11 .....	28.98	9.3	39.5	29.22	9.3	39.5	—	—	—
12 .....	30.46	4.4	39.9	30.46	4.4	39.9	—	—	—
12 .....	32.04	4.0	40.2	32.04	4.0	40.2	—	—	—
Business and promotional agents .....	17.79	5.7	39.7	19.13	7.6	39.6	—	—	—

See footnotes at end of table.

Table 2-4. Selected occupations<sup>1</sup> and levels:<sup>2</sup> Mean hourly earnings<sup>3</sup> and weekly hours, private industry and State and local government, National Compensation Survey,<sup>4</sup> 1998–Continued

Occupation and level	Total			Private industry			State and local government		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)	
<b>White collar –Continued</b>									
<b>Executive, administrative, and managerial –Continued</b>									
Management related –Continued									
Business and promotional agents –Continued									
9 .....	\$18.75	2.8	39.9	\$19.27	2.4	39.9	–	–	–
Construction inspectors .....	19.97	3.4	39.5	20.66	6.9	41.9	\$19.81	4.0	39.0
5 .....	14.82	8.5	39.4	15.57	2.3	40.0	14.51	12.1	39.2
6 .....	16.10	4.4	41.3	–	–	–	16.34	5.2	39.6
7 .....	18.96	3.9	39.7	19.49	8.2	41.1	18.81	4.6	39.3
8 .....	20.81	6.9	38.3	–	–	–	20.21	7.5	38.0
9 .....	23.21	3.2	39.4	–	–	–	23.46	3.2	39.3
Inspectors and compliance officers, except construction .....									
5 .....	19.23	3.5	38.9	23.10	3.8	40.2	17.78	4.2	38.5
6 .....	14.74	7.7	39.3	–	–	–	14.38	8.7	39.3
7 .....	13.93	5.2	38.4	16.66	7.2	39.8	13.29	3.7	38.1
8 .....	16.14	4.6	38.5	19.39	7.6	39.8	15.20	4.6	38.1
9 .....	18.49	1.8	38.1	19.58	3.4	42.2	18.29	2.2	37.5
10 .....	21.98	2.7	39.7	24.33	4.7	40.1	20.26	2.6	39.3
11 .....	26.40	6.5	39.3	–	–	–	–	–	–
12 .....	25.66	3.7	40.2	24.21	9.2	40.8	26.22	3.9	40.0
Management related, n.e.c. ....									
4 .....	22.31	1.2	39.4	22.77	1.4	39.7	20.81	2.6	38.5
5 .....	9.22	9.0	46.5	9.22	9.0	46.5	–	–	–
6 .....	14.07	4.0	39.4	14.32	4.3	39.6	12.70	5.2	38.1
7 .....	16.26	2.2	38.9	16.42	2.2	39.2	15.51	6.7	37.8
8 .....	18.53	4.1	39.3	18.93	4.9	39.4	17.38	3.3	39.0
9 .....	19.40	2.0	39.5	19.31	1.9	40.1	19.62	5.1	38.2
10 .....	23.19	1.5	39.5	23.45	1.6	39.8	22.41	3.3	38.6
11 .....	26.38	2.2	39.9	26.80	2.8	39.8	25.48	3.3	40.0
12 .....	30.95	3.0	39.5	31.77	3.2	39.5	28.32	4.1	39.7
13 .....	33.74	3.4	40.9	33.63	3.5	40.9	–	–	–
14 .....	39.97	6.1	40.4	39.97	6.1	40.4	–	–	–
Not able to be leveled .....	26.48	9.6	37.2	28.91	12.9	38.2	22.79	10.3	35.9
<b>Sales .....</b>									
1 .....	13.28	3.6	33.0	13.29	3.6	33.0	12.10	4.8	32.2
2 .....	6.51	.8	25.8	6.51	.8	25.8	6.77	4.3	24.9
3 .....	7.15	1.3	25.6	7.15	1.3	25.6	7.85	1.1	24.6
4 .....	8.25	.9	31.8	8.20	.8	31.7	10.87	7.9	33.2
5 .....	10.57	1.6	34.6	10.56	1.6	34.6	12.17	4.2	34.4
6 .....	15.45	2.8	38.8	15.47	2.8	38.8	14.36	5.2	39.9
7 .....	17.81	4.3	41.0	17.83	4.3	41.0	13.92	2.5	33.7
8 .....	21.59	4.6	41.5	21.71	4.6	41.5	15.12	4.7	39.3
9 .....	21.95	2.0	40.6	21.96	2.1	40.8	19.86	16.9	24.6
10 .....	29.47	6.4	41.3	29.48	6.4	41.3	–	–	–
11 .....	31.85	4.4	40.6	31.98	4.5	40.6	–	–	–
12 .....	37.13	4.1	40.9	37.24	4.1	41.0	–	–	–
13 .....	47.76	6.1	40.8	47.76	6.1	40.8	–	–	–
14 .....	118.47	34.8	44.6	118.47	34.8	44.6	–	–	–
Not able to be leveled .....	24.49	11.8	33.8	24.49	11.8	33.8	–	–	–
Supervisors, sales .....									
3 .....	20.02	4.0	40.6	20.07	4.1	40.7	16.52	11.6	32.3
4 .....	9.45	4.5	39.3	9.45	4.5	39.3	–	–	–
5 .....	9.78	2.6	37.5	9.77	2.7	37.5	–	–	–
6 .....	13.15	2.4	40.5	13.07	2.4	40.5	–	–	–
7 .....	17.82	14.0	41.9	17.84	14.0	41.9	–	–	–
8 .....	19.34	5.0	42.4	19.36	5.0	42.5	–	–	–
9 .....	19.74	2.6	40.6	19.74	2.7	41.2	–	–	–
10 .....	24.70	4.6	42.5	24.72	4.6	42.5	–	–	–
11 .....	34.50	9.2	41.3	34.50	9.2	41.3	–	–	–
12 .....	31.99	3.1	41.3	31.99	3.1	41.3	–	–	–
13 .....	40.06	9.1	43.0	40.06	9.1	43.0	–	–	–
Not able to be leveled .....	41.82	14.8	39.0	41.82	14.8	39.0	–	–	–
Insurance sales .....	21.59	14.1	36.0	22.20	14.9	35.6	–	–	–

See footnotes at end of table.

Table 2-4. Selected occupations<sup>1</sup> and levels:<sup>2</sup> Mean hourly earnings<sup>3</sup> and weekly hours, private industry and State and local government, National Compensation Survey,<sup>4</sup> 1998—Continued

Occupation and level	Total			Private industry			State and local government		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)	
<b>White collar—Continued</b>									
<b>Sales—Continued</b>									
Insurance sales—Continued									
4 .....	\$10.77	4.6	37.0	\$10.77	4.6	37.0	—	—	—
5 .....	15.82	12.2	37.8	15.82	12.2	37.8	—	—	—
6 .....	22.76	20.9	41.1	22.76	20.9	41.1	—	—	—
7 .....	17.80	12.7	38.4	21.13	11.1	37.0	—	—	—
8 .....	24.70	17.2	38.5	24.77	17.3	38.5	—	—	—
10 .....	26.52	15.0	39.4	28.48	17.6	39.2	—	—	—
Real estate sales .....	35.63	18.1	40.3	37.80	17.7	40.9	\$18.69	11.5	35.9
4 .....	11.30	5.6	35.1	—	—	—	—	—	—
6 .....	26.54	25.5	37.1	—	—	—	—	—	—
7 .....	18.53	16.7	39.6	18.61	18.3	39.6	—	—	—
8 .....	24.51	16.2	41.6	24.56	16.6	41.7	—	—	—
Securities and financial services sales .....	37.13	9.6	39.9	37.13	9.6	39.9	—	—	—
4 .....	10.37	4.1	38.0	10.37	4.1	38.0	—	—	—
5 .....	12.71	2.4	39.5	12.71	2.4	39.5	—	—	—
6 .....	14.37	2.6	40.0	14.37	2.6	40.0	—	—	—
7 .....	31.76	37.6	39.7	31.76	37.6	39.7	—	—	—
8 .....	23.88	6.5	40.3	23.88	6.5	40.3	—	—	—
9 .....	58.35	34.5	38.7	58.35	34.5	38.7	—	—	—
10 .....	49.12	18.0	43.0	49.12	18.0	43.0	—	—	—
11 .....	43.96	9.7	41.2	43.96	9.7	41.2	—	—	—
Advertising and related sales .....	19.62	6.4	38.3	19.62	6.4	38.3	—	—	—
4 .....	9.43	5.1	32.9	9.43	5.1	32.9	—	—	—
5 .....	13.55	8.6	39.3	13.55	8.6	39.3	—	—	—
6 .....	16.42	6.2	38.3	16.43	6.3	38.3	—	—	—
7 .....	20.09	8.3	39.5	20.09	8.3	39.5	—	—	—
8 .....	22.40	5.2	39.9	22.40	5.2	39.9	—	—	—
9 .....	30.27	13.1	40.1	30.27	13.1	40.1	—	—	—
10 .....	24.84	8.1	39.0	24.84	8.1	39.0	—	—	—
11 .....	29.30	8.1	39.7	29.30	8.1	39.7	—	—	—
Sales, other business services .....	19.42	5.6	36.7	19.43	5.6	36.7	—	—	—
1 .....	8.59	9.7	19.2	8.59	9.7	19.2	—	—	—
2 .....	11.14	13.5	34.7	11.14	13.5	34.7	—	—	—
3 .....	8.95	2.6	28.1	8.95	2.6	28.1	—	—	—
4 .....	11.48	9.2	34.8	11.48	9.2	34.8	—	—	—
5 .....	15.56	3.9	39.3	15.59	4.0	39.3	—	—	—
6 .....	17.40	7.9	40.1	17.40	7.9	40.1	—	—	—
7 .....	21.54	6.0	40.1	21.54	6.0	40.1	—	—	—
8 .....	24.22	6.7	40.1	24.23	6.8	40.1	—	—	—
9 .....	31.32	13.5	40.6	31.32	13.5	40.6	—	—	—
10 .....	28.64	5.3	40.0	28.64	5.3	40.0	—	—	—
11 .....	47.73	9.3	39.0	47.85	9.3	39.0	—	—	—
Not able to be leveled .....	17.32	16.6	28.6	17.32	16.6	28.6	—	—	—
Sales engineers .....	27.46	4.4	42.3	27.46	4.4	42.3	—	—	—
7 .....	23.35	9.3	41.2	23.35	9.3	41.2	—	—	—
8 .....	28.55	6.3	40.0	28.55	6.3	40.0	—	—	—
9 .....	22.96	6.1	44.0	22.96	6.1	44.0	—	—	—
10 .....	28.47	10.8	40.9	28.47	10.8	40.9	—	—	—
11 .....	30.76	7.8	42.5	30.76	7.8	42.5	—	—	—
12 .....	34.31	4.7	41.3	34.31	4.7	41.3	—	—	—
Sales representatives, mining, manufacturing, and wholesale .....	24.77	3.1	40.9	24.77	3.1	40.9	—	—	—
3 .....	9.78	7.3	40.0	9.78	7.3	40.0	—	—	—
4 .....	13.40	11.2	41.4	13.40	11.2	41.4	—	—	—
5 .....	21.62	14.9	40.4	21.62	14.9	40.4	—	—	—
6 .....	17.26	3.5	40.6	17.26	3.5	40.6	—	—	—
7 .....	23.44	6.4	42.8	23.44	6.4	42.8	—	—	—
8 .....	24.10	4.8	40.8	24.10	4.8	40.8	—	—	—
9 .....	30.42	5.9	40.9	30.42	5.9	40.9	—	—	—
10 .....	31.57	5.8	40.3	31.57	5.8	40.3	—	—	—

See footnotes at end of table.

Table 2-4. Selected occupations<sup>1</sup> and levels:<sup>2</sup> Mean hourly earnings<sup>3</sup> and weekly hours, private industry and State and local government, National Compensation Survey,<sup>4</sup> 1998—Continued

Occupation and level	Total			Private industry			State and local government		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)	
<b>White collar—Continued</b>									
<b>Sales—Continued</b>									
Sales representatives, mining, manufacturing, and wholesale—Continued									
11 .....	\$35.57	3.4	40.5	\$35.57	3.4	40.5	—	—	—
12 .....	44.44	8.0	41.6	44.44	8.0	41.6	—	—	—
Not able to be leveled .....	30.36	12.2	40.0	30.36	12.2	40.0	—	—	—
Sales workers, motor vehicles and boats .....	18.96	3.1	45.0	18.96	3.1	45.0	—	—	—
2 .....	15.85	12.8	42.4	15.85	12.8	42.4	—	—	—
3 .....	15.40	5.6	44.1	15.40	5.6	44.1	—	—	—
4 .....	17.34	7.1	46.3	17.34	7.1	46.3	—	—	—
5 .....	18.66	5.3	45.1	18.66	5.3	45.1	—	—	—
6 .....	23.37	11.0	45.0	23.37	11.0	45.0	—	—	—
7 .....	23.11	6.4	42.8	23.11	6.4	42.8	—	—	—
8 .....	22.29	10.7	44.2	22.29	10.7	44.2	—	—	—
Sales workers, apparel .....	8.28	4.0	27.1	8.28	4.0	27.1	—	—	—
1 .....	6.46	3.1	27.0	6.46	3.1	27.0	—	—	—
2 .....	7.48	1.7	29.6	7.48	1.7	29.6	—	—	—
3 .....	7.86	2.2	26.4	7.86	2.2	26.4	—	—	—
4 .....	10.12	7.0	26.2	10.12	7.0	26.2	—	—	—
Sales workers, shoes .....	9.65	6.6	27.9	9.65	6.6	27.9	—	—	—
1 .....	6.84	8.8	25.5	6.84	8.8	25.5	—	—	—
3 .....	9.35	10.3	26.9	9.35	10.3	26.9	—	—	—
4 .....	12.28	10.2	38.0	12.28	10.2	38.0	—	—	—
Sales workers, furniture and home furnishings ..	11.02	11.3	29.7	11.02	11.3	29.7	—	—	—
1 .....	6.66	6.5	22.9	6.66	6.5	22.9	—	—	—
3 .....	7.77	10.5	25.0	7.77	10.5	25.0	—	—	—
4 .....	12.24	11.5	35.3	12.24	11.5	35.3	—	—	—
5 .....	15.77	10.3	38.3	15.77	10.3	38.3	—	—	—
Sales workers, radio, tv, hi-fi, and appliances ...	10.18	6.3	35.4	10.18	6.3	35.4	—	—	—
1 .....	6.43	5.0	32.8	6.43	5.0	32.8	—	—	—
3 .....	8.91	7.3	34.6	8.91	7.3	34.6	—	—	—
4 .....	12.57	12.2	35.2	12.57	12.2	35.2	—	—	—
Sales workers, hardware and building supplies	10.95	5.3	36.9	10.95	5.3	36.9	—	—	—
2 .....	6.87	4.7	31.1	6.87	4.7	31.1	—	—	—
3 .....	7.37	2.4	35.1	7.37	2.4	35.1	—	—	—
4 .....	10.28	3.0	37.3	10.28	3.0	37.3	—	—	—
5 .....	13.34	4.2	40.7	13.34	4.2	40.7	—	—	—
7 .....	16.41	12.4	41.9	16.41	12.4	41.9	—	—	—
8 .....	25.02	23.1	40.3	25.02	23.1	40.3	—	—	—
Sales workers, parts .....	14.38	4.6	38.8	14.38	4.6	38.8	—	—	—
3 .....	8.50	3.1	33.7	8.50	3.1	33.7	—	—	—
4 .....	13.94	3.5	40.2	13.94	3.5	40.2	—	—	—
5 .....	17.74	4.0	40.7	17.74	4.0	40.7	—	—	—
6 .....	22.55	10.0	39.0	22.55	10.0	39.0	—	—	—
8 .....	18.41	6.7	40.0	18.41	6.7	40.0	—	—	—
Sales workers, other commodities .....	9.69	2.1	29.9	9.69	2.1	29.9	\$9.05	9.5	30.6
1 .....	6.55	2.4	26.4	6.56	2.4	26.5	—	—	—
2 .....	7.20	2.9	24.3	7.20	2.9	24.3	—	—	—
3 .....	8.14	2.0	28.7	8.13	2.0	28.6	9.11	10.7	36.2
4 .....	8.39	1.4	31.4	8.39	1.4	31.4	—	—	—
6 .....	16.13	10.4	43.3	16.13	10.4	43.3	—	—	—
7 .....	27.00	10.1	39.9	27.13	10.2	39.9	—	—	—
8 .....	23.28	11.2	40.1	23.28	11.2	40.1	—	—	—
9 .....	29.81	10.0	41.0	29.81	10.0	41.0	—	—	—
11 .....	36.43	7.9	41.8	36.43	7.9	41.8	—	—	—
Sales counter clerks .....	8.15	3.1	28.5	8.12	3.1	28.5	—	—	—
1 .....	6.32	2.6	24.2	6.32	2.6	24.2	—	—	—
2 .....	7.00	4.3	25.2	7.00	4.3	25.4	—	—	—
3 .....	8.09	5.1	29.8	8.09	5.1	29.8	—	—	—
4 .....	10.78	4.5	34.7	10.73	4.6	34.6	—	—	—
5 .....	10.60	4.3	39.6	10.55	5.1	39.6	—	—	—

See footnotes at end of table.

Table 2-4. Selected occupations<sup>1</sup> and levels:<sup>2</sup> Mean hourly earnings<sup>3</sup> and weekly hours, private industry and State and local government, National Compensation Survey,<sup>4</sup> 1998—Continued

Occupation and level	Total			Private industry			State and local government		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)	
<b>White collar—Continued</b>									
<b>Sales—Continued</b>									
Cashiers .....	\$7.80	1.3	30.1	\$7.74	1.6	30.1	\$10.53	5.9	31.5
1 .....	6.42	.7	25.7	6.41	.7	25.7	6.90	5.1	26.6
2 .....	6.99	1.8	25.7	6.97	1.8	25.7	7.90	1.1	27.0
3 .....	8.08	.9	33.5	8.00	1.2	33.6	11.05	8.4	32.9
4 .....	10.82	3.0	33.4	10.77	3.1	33.5	12.21	5.1	32.8
5 .....	13.89	6.8	34.6	13.74	7.9	33.9	—	—	—
Street and door-to-door sales workers .....	12.96	11.6	30.0	12.96	11.6	30.0	—	—	—
3 .....	8.67	7.8	25.5	8.67	7.8	25.5	—	—	—
4 .....	11.40	9.7	34.8	11.40	9.7	34.8	—	—	—
News vendors .....	7.78	11.7	20.9	7.78	11.7	20.9	—	—	—
Demonstrators, promoters, and models, sales ..	9.69	7.7	22.1	9.69	7.7	22.1	—	—	—
1 .....	6.71	1.9	17.7	6.72	1.9	17.8	—	—	—
Sales support, n.e.c. ....	12.69	3.1	36.3	12.68	3.1	36.3	—	—	—
1 .....	7.06	3.5	30.7	7.06	3.5	30.7	—	—	—
2 .....	7.20	2.8	29.9	7.20	2.8	29.9	—	—	—
3 .....	8.32	3.6	32.3	8.32	3.6	32.3	—	—	—
4 .....	10.90	3.1	38.4	10.90	3.1	38.4	—	—	—
5 .....	14.09	5.9	39.7	14.07	6.0	39.7	—	—	—
6 .....	14.75	6.6	41.0	14.75	6.6	41.0	—	—	—
7 .....	18.73	7.1	41.4	18.74	7.2	41.4	—	—	—
8 .....	19.80	5.4	40.0	19.80	5.4	40.0	—	—	—
9 .....	27.36	5.6	37.1	27.36	5.6	37.1	—	—	—
Not able to be leveled .....	13.47	7.1	30.4	13.47	7.1	30.4	—	—	—
<b>Administrative support, including clerical .....</b>	12.00	.5	37.0	12.00	.6	37.3	12.01	.7	36.3
1 .....	7.36	1.5	30.0	7.29	1.8	30.6	7.64	2.6	27.8
2 .....	8.83	.9	34.1	8.85	1.1	34.6	8.76	1.4	32.5
3 .....	9.74	1.0	36.1	9.64	1.1	36.2	10.08	1.1	35.6
4 .....	11.62	.5	37.9	11.65	.7	38.1	11.52	.8	37.1
5 .....	13.58	.5	38.5	13.60	.6	38.8	13.52	1.0	37.6
6 .....	14.91	.6	39.0	15.26	.7	39.2	13.95	1.1	38.5
7 .....	17.16	.7	39.1	17.38	.8	39.3	16.53	1.4	38.8
8 .....	19.14	1.6	39.9	19.59	1.8	40.0	16.91	2.9	39.5
9 .....	22.10	2.2	39.8	22.06	2.4	39.9	22.29	4.1	38.9
10 .....	26.01	5.7	39.5	26.01	5.7	39.5	—	—	—
11 .....	31.59	9.6	38.1	32.21	10.1	38.2	—	—	—
Not able to be leveled .....	13.65	2.9	36.6	13.27	4.1	36.8	14.35	3.2	36.2
Supervisors, general office .....	16.78	1.4	39.6	17.15	1.8	39.7	16.01	1.8	39.2
4 .....	10.76	5.9	39.8	10.36	6.7	40.0	—	—	—
5 .....	14.06	3.7	38.9	13.84	4.1	39.1	14.85	7.2	38.1
6 .....	14.70	2.5	39.8	14.91	2.6	39.9	14.33	5.0	39.7
7 .....	16.57	1.6	39.7	16.72	2.1	40.0	16.42	2.3	39.3
8 .....	17.43	1.9	39.9	18.21	2.3	40.0	15.35	2.0	39.6
9 .....	22.24	3.3	39.9	22.14	3.7	40.1	22.75	7.1	38.8
11 .....	23.94	8.2	37.5	24.17	9.6	37.9	—	—	—
Not able to be leveled .....	15.82	9.2	38.7	16.40	10.4	38.6	—	—	—
Supervisors, computer equipment operators .....	20.72	3.5	39.9	20.27	4.1	40.1	22.36	3.9	39.1
6 .....	17.93	6.8	38.2	17.97	6.9	38.2	—	—	—
7 .....	20.49	7.5	40.5	20.64	7.5	40.5	—	—	—
8 .....	18.08	9.6	39.6	18.46	10.7	39.6	—	—	—
9 .....	22.43	3.8	40.4	21.85	5.9	41.1	—	—	—
Supervisors, financial records processing .....	17.81	1.8	39.5	17.92	1.9	39.7	16.67	4.8	38.3
5 .....	15.19	3.7	39.6	15.17	3.9	39.6	—	—	—
6 .....	14.86	2.1	39.6	14.88	2.2	39.6	—	—	—
7 .....	16.35	2.6	39.2	16.70	2.7	39.3	13.70	3.5	38.3
8 .....	18.50	2.5	40.2	18.45	2.8	40.6	—	—	—
9 .....	22.77	3.5	39.2	23.37	3.3	39.4	19.46	8.4	38.0
11 .....	31.44	3.6	39.8	31.44	3.6	39.8	—	—	—
Chief communications operators .....	16.89	6.5	40.3	18.12	8.9	40.5	15.30	7.8	40.0
6 .....	13.14	8.0	41.6	—	—	—	—	—	—

See footnotes at end of table.

Table 2-4. Selected occupations<sup>1</sup> and levels:<sup>2</sup> Mean hourly earnings<sup>3</sup> and weekly hours, private industry and State and local government, National Compensation Survey,<sup>4</sup> 1998—Continued

Occupation and level	Total			Private industry			State and local government		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)	
<b>White collar—Continued</b>									
<b>Administrative support, including clerical—Continued</b>									
Chief communications operators—Continued									
7 .....	\$15.51	6.7	39.9	\$16.37	6.9	39.9	—	—	—
Supervisors, distribution, scheduling, and adjusting clerks .....									
5 .....	17.67	3.0	40.1	17.77	3.1	40.3	\$17.00	9.9	38.7
6 .....	13.90	7.2	40.1	13.70	5.6	40.3	—	—	—
7 .....	15.74	3.9	39.3	15.54	4.3	40.1	—	—	—
8 .....	16.53	2.3	41.0	16.51	2.4	41.0	—	—	—
9 .....	20.66	4.4	40.5	21.03	4.6	40.6	19.21	8.6	40.0
Not able to be leveled .....	22.99	3.7	40.5	22.94	3.7	40.5	—	—	—
Computer operators .....	16.15	8.8	40.0	16.15	8.8	40.0	—	—	—
2 .....	14.08	1.8	39.2	14.40	1.9	39.3	12.96	3.9	38.7
3 .....	9.60	8.7	39.8	—	—	—	—	—	—
4 .....	10.93	6.4	36.8	11.03	7.8	39.4	—	—	—
5 .....	12.66	3.6	38.9	12.74	3.8	39.0	11.21	3.7	38.3
6 .....	14.00	3.1	39.4	14.17	2.8	39.4	13.39	8.8	39.4
7 .....	15.42	3.2	39.7	16.45	3.3	39.7	12.61	5.5	39.8
Not able to be leveled .....	16.38	3.0	39.4	18.34	3.5	39.5	13.76	4.8	39.2
Peripheral equipment operators .....	14.71	10.4	39.9	14.85	10.5	39.9	—	—	—
3 .....	10.27	3.5	38.3	10.10	3.6	38.4	—	—	—
4 .....	9.39	3.8	37.3	9.39	3.8	37.3	—	—	—
5 .....	11.52	2.4	38.3	11.14	1.7	37.6	—	—	—
Secretaries .....	13.77	6.7	37.3	—	—	—	—	—	—
2 .....	13.39	.7	38.2	13.76	.8	38.1	12.66	1.2	38.3
3 .....	8.94	4.0	35.9	9.35	5.2	36.2	8.35	3.5	35.5
4 .....	10.07	1.3	37.0	9.94	1.7	37.0	10.32	2.1	36.8
5 .....	12.04	.7	38.1	12.25	1.0	37.7	11.70	1.1	38.8
6 .....	13.82	1.1	38.5	13.96	1.2	38.6	13.54	2.4	38.2
7 .....	15.42	1.3	38.7	16.18	1.2	38.6	13.67	2.5	38.8
8 .....	17.59	1.2	38.8	17.92	1.6	38.7	16.70	1.6	39.1
Not able to be leveled .....	21.40	4.1	38.5	21.40	4.2	38.5	—	—	—
Stenographers .....	14.46	4.5	39.0	14.74	7.6	39.0	14.32	5.0	39.0
2 .....	14.15	2.6	36.0	12.41	2.5	36.6	16.30	4.6	35.4
3 .....	9.44	6.9	35.5	10.45	3.7	35.8	—	—	—
4 .....	10.59	4.9	36.0	10.94	4.9	35.0	—	—	—
5 .....	12.85	4.7	36.4	11.70	2.6	35.7	14.16	7.5	37.2
6 .....	14.59	2.9	34.4	12.23	2.9	38.0	16.64	6.8	31.8
7 .....	15.31	3.9	37.6	14.79	3.6	37.8	16.85	9.4	37.0
Typists .....	25.73	8.6	38.3	15.47	4.0	39.0	29.41	9.3	38.0
2 .....	11.91	1.4	37.1	12.25	2.1	37.1	11.66	1.7	37.2
3 .....	10.03	4.7	35.4	9.32	4.9	34.2	10.54	6.3	36.3
4 .....	11.11	2.3	37.1	11.04	3.6	36.3	11.15	3.0	37.6
5 .....	11.84	2.0	36.9	12.18	2.8	38.1	11.52	2.6	35.9
6 .....	13.55	2.8	38.9	14.29	5.9	38.2	13.11	2.7	39.2
7 .....	15.59	4.2	38.2	17.91	5.2	37.1	13.26	2.9	39.4
Interviewers .....	14.31	9.9	37.1	14.31	9.9	37.1	—	—	—
1 .....	9.86	1.8	33.9	9.75	1.9	33.2	10.40	4.4	38.0
2 .....	6.71	1.2	28.3	6.71	1.2	27.7	—	—	—
3 .....	8.22	3.7	30.7	8.61	3.9	28.6	—	—	—
4 .....	9.30	3.2	34.7	9.25	3.4	34.5	9.91	4.9	38.7
5 .....	10.78	3.0	34.0	10.58	3.0	33.9	11.95	6.0	34.7
6 .....	11.31	3.0	37.8	11.29	4.2	36.9	11.34	3.7	39.6
Hotel clerks .....	12.24	7.2	39.2	11.54	7.0	40.0	—	—	—
1 .....	8.58	3.5	36.8	8.58	3.5	36.8	—	—	—
2 .....	6.27	3.5	34.3	6.27	3.5	34.3	—	—	—
3 .....	7.19	3.5	36.9	7.19	3.5	36.9	—	—	—
4 .....	8.08	2.7	35.4	8.08	2.7	35.4	—	—	—
5 .....	9.80	6.0	38.9	9.80	6.0	38.9	—	—	—
Transportation ticket and reservation agents .....	9.48	5.3	39.8	9.53	5.6	39.8	—	—	—
	11.69	9.9	36.0	11.58	10.1	35.9	—	—	—

See footnotes at end of table.

Table 2-4. Selected occupations<sup>1</sup> and levels:<sup>2</sup> Mean hourly earnings<sup>3</sup> and weekly hours, private industry and State and local government, National Compensation Survey,<sup>4</sup> 1998—Continued

Occupation and level	Total			Private industry			State and local government		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)	
<b>White collar—Continued</b>									
<b>Administrative support, including clerical—Continued</b>									
Transportation ticket and reservation agents—Continued									
2 .....	\$9.29	4.9	36.0	\$9.29	4.9	36.0	—	—	—
3 .....	8.56	14.9	36.4	8.08	13.1	36.2	—	—	—
4 .....	12.83	3.7	34.5	12.82	3.7	34.5	—	—	—
5 .....	14.52	3.2	34.5	14.52	3.2	34.5	—	—	—
6 .....	16.82	2.7	39.7	16.82	2.7	39.7	—	—	—
Receptionists .....	9.22	1.1	35.3	9.20	1.2	35.4	\$9.60	4.3	34.9
1 .....	7.18	2.5	29.6	7.18	2.6	29.8	7.03	3.6	23.7
2 .....	8.56	1.5	34.7	8.59	1.6	34.7	8.25	3.2	34.6
3 .....	9.41	1.7	36.5	9.35	1.8	36.5	10.37	5.5	36.3
4 .....	10.46	2.2	37.0	10.35	2.2	37.1	12.36	9.1	35.2
5 .....	13.25	5.9	34.8	13.29	6.0	34.7	—	—	—
Information clerks, n.e.c. ....	11.77	3.2	36.4	11.72	3.6	36.4	12.14	4.7	36.6
1 .....	7.24	3.3	21.8	7.20	3.8	21.4	—	—	—
2 .....	8.32	3.5	36.0	8.25	3.7	35.8	9.41	5.8	38.0
3 .....	9.68	2.3	34.5	9.60	2.3	34.4	10.41	12.8	35.2
4 .....	11.58	2.1	38.4	11.61	2.5	38.2	11.38	2.3	39.4
5 .....	13.05	2.0	39.0	13.03	2.1	39.1	13.24	4.6	38.2
6 .....	14.96	4.0	37.8	14.61	5.1	37.4	15.93	4.7	38.9
7 .....	18.57	11.5	34.7	19.08	11.8	35.9	—	—	—
Classified ad clerks .....	10.38	12.9	35.2	10.43	13.6	35.3	—	—	—
4 .....	12.84	6.1	31.3	12.84	6.1	31.3	—	—	—
Correspondence clerks .....	11.94	3.3	38.0	11.98	3.3	37.9	—	—	—
2 .....	8.82	9.5	35.8	8.82	9.5	35.8	—	—	—
3 .....	10.34	4.2	39.1	10.43	4.3	39.1	—	—	—
4 .....	10.48	4.1	37.0	10.48	4.1	37.0	—	—	—
5 .....	14.10	5.0	38.4	14.10	5.0	38.4	—	—	—
6 .....	14.65	8.5	39.4	14.65	8.5	39.4	—	—	—
Order clerks .....	11.94	2.2	37.6	11.90	2.2	37.6	15.57	5.6	38.8
1 .....	7.46	9.2	32.5	7.46	9.2	32.5	—	—	—
2 .....	8.20	2.6	34.3	8.20	2.6	34.3	—	—	—
3 .....	10.01	2.0	35.2	9.99	2.0	35.2	—	—	—
4 .....	12.00	3.6	39.0	11.96	3.6	39.0	—	—	—
5 .....	14.49	2.8	39.5	14.48	2.9	39.5	—	—	—
6 .....	15.29	6.4	39.9	15.25	6.5	39.9	—	—	—
7 .....	19.25	3.3	39.5	19.24	3.3	39.5	—	—	—
Personnel clerks, except payroll and timekeeping .....	12.71	1.8	38.0	12.57	1.8	38.9	13.18	5.2	35.2
2 .....	8.68	4.6	33.9	8.31	1.7	40.0	—	—	—
3 .....	9.09	4.1	39.0	9.06	4.1	39.0	—	—	—
4 .....	11.15	1.8	36.8	11.22	1.9	38.3	10.81	6.5	30.5
5 .....	12.69	2.3	39.0	12.67	2.6	38.9	12.82	3.3	39.5
6 .....	15.52	3.5	39.4	15.56	4.2	39.3	15.40	4.4	39.6
7 .....	16.17	3.8	39.7	17.12	2.7	39.4	15.15	6.8	40.0
Library clerks .....	10.48	1.9	30.0	11.42	2.7	31.6	10.20	2.3	29.5
1 .....	6.52	2.3	17.0	6.05	8.6	18.1	6.59	2.3	16.8
2 .....	8.86	3.7	26.6	9.42	9.1	28.2	8.73	3.7	26.3
3 .....	10.16	2.5	31.7	10.33	4.3	28.5	10.11	2.8	32.6
4 .....	10.83	4.1	34.0	11.41	4.1	34.4	10.69	5.0	33.9
5 .....	12.30	4.2	32.6	13.82	4.7	35.6	11.64	5.0	31.4
6 .....	14.01	5.0	37.2	13.44	6.1	38.2	14.61	6.2	36.2
7 .....	12.90	3.2	24.7	—	—	—	—	—	—
File clerks .....	9.08	1.6	35.5	8.98	1.7	35.3	9.95	5.8	37.4
1 .....	7.54	5.3	29.5	7.59	5.5	29.7	—	—	—
2 .....	8.17	1.9	36.5	8.19	2.0	36.4	7.93	7.1	38.8
3 .....	9.57	2.3	35.4	9.56	2.4	35.3	9.78	5.7	35.9
4 .....	10.13	2.8	38.6	10.19	3.3	38.7	9.93	8.0	38.5
5 .....	12.79	5.1	36.9	—	—	—	—	—	—

See footnotes at end of table.

Table 2-4. Selected occupations<sup>1</sup> and levels:<sup>2</sup> Mean hourly earnings<sup>3</sup> and weekly hours, private industry and State and local government, National Compensation Survey,<sup>4</sup> 1998—Continued

Occupation and level	Total			Private industry			State and local government		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)	
<b>White collar—Continued</b>									
<b>Administrative support, including clerical—Continued</b>									
Records clerks, n.e.c. ....	\$11.07	1.2	37.8	\$11.00	1.4	37.7	\$11.30	2.9	38.0
1 .....	6.85	4.8	37.0	6.96	6.8	36.6	6.49	2.3	38.1
2 .....	8.24	5.4	36.1	7.92	5.5	35.6	9.58	8.7	38.1
3 .....	9.41	1.7	36.9	9.59	1.6	36.7	8.57	5.0	38.2
4 .....	11.60	2.1	38.4	11.50	2.0	38.7	11.86	5.0	37.8
5 .....	13.23	1.5	38.5	13.41	1.7	38.7	12.74	2.3	37.7
6 .....	14.15	3.8	38.9	15.03	4.1	38.8	12.56	5.5	38.9
7 .....	15.13	2.8	38.6	15.77	3.9	38.8	14.01	2.5	38.2
Not able to be leveled .....	9.46	12.2	38.7	—	—	—	—	—	—
Bookkeepers, accounting and auditing clerks ...	11.74	.8	38.4	11.58	.8	38.4	12.50	1.7	38.7
1 .....	7.10	2.4	20.3	7.10	2.4	20.3	—	—	—
2 .....	9.09	2.0	36.1	8.99	2.1	35.8	10.45	3.7	39.7
3 .....	9.62	1.6	37.2	9.60	1.7	37.0	9.73	2.9	38.0
4 .....	11.18	.6	39.0	11.11	1.5	39.0	11.53	1.7	39.0
5 .....	13.26	1.2	38.7	13.00	1.2	38.8	14.18	3.3	38.4
6 .....	14.25	1.5	39.3	14.35	1.6	39.4	13.92	4.2	38.6
7 .....	16.80	2.1	39.1	16.77	2.3	39.3	16.89	4.6	38.7
Not able to be leveled .....	10.61	9.5	38.5	10.40	10.4	38.3	—	—	—
Payroll and timekeeping clerks .....	12.62	1.8	38.2	12.50	1.9	38.2	13.67	4.1	38.1
2 .....	10.28	18.5	29.9	10.28	18.5	29.9	—	—	—
3 .....	10.47	3.0	37.8	10.50	3.1	38.3	—	—	—
4 .....	11.59	2.2	39.3	11.45	2.4	39.3	12.54	4.6	39.1
5 .....	13.50	2.4	39.8	13.52	2.8	39.9	13.40	2.9	39.4
6 .....	15.37	3.5	39.4	15.09	3.5	39.5	—	—	—
7 .....	17.37	5.9	39.5	17.21	6.6	39.9	18.64	6.1	37.1
Billing clerks .....	11.00	1.5	38.5	10.96	1.5	38.7	11.43	6.6	37.0
2 .....	8.60	3.4	38.7	8.94	2.9	38.3	—	—	—
3 .....	9.94	2.6	38.9	9.83	2.7	38.8	11.25	10.3	40.0
4 .....	10.96	1.8	38.1	10.91	1.8	38.6	11.81	8.3	31.4
5 .....	12.48	2.9	38.7	12.30	3.1	38.6	13.91	4.0	39.5
6 .....	14.40	3.6	39.4	14.69	4.3	39.2	—	—	—
7 .....	16.57	3.5	38.6	16.59	3.5	38.6	—	—	—
Cost and rate clerks .....	11.76	6.8	39.7	11.76	6.8	39.7	—	—	—
3 .....	9.40	5.3	39.6	9.40	5.3	39.6	—	—	—
4 .....	11.89	4.8	39.5	11.89	4.8	39.5	—	—	—
5 .....	14.29	3.9	39.7	14.29	3.9	39.7	—	—	—
6 .....	15.49	4.8	39.8	15.49	4.8	39.8	—	—	—
Billing, posting, and calculating machine operators .....	10.15	5.1	33.2	10.16	5.1	33.2	—	—	—
2 .....	8.09	4.2	27.9	8.09	4.2	27.9	—	—	—
3 .....	9.29	4.9	33.8	9.30	4.9	33.7	—	—	—
4 .....	11.42	9.6	34.7	11.46	9.7	34.6	—	—	—
5 .....	14.74	8.8	39.4	14.74	8.8	39.4	—	—	—
Duplicating machine operators .....	9.52	2.4	36.1	9.71	2.3	35.0	9.01	6.8	39.6
1 .....	8.48	1.9	36.3	8.38	2.4	34.6	—	—	—
2 .....	9.04	2.7	35.1	9.04	2.7	35.1	—	—	—
3 .....	9.16	2.9	35.7	9.89	3.8	33.3	—	—	—
5 .....	14.82	5.9	38.9	13.84	12.4	37.6	—	—	—
Mail preparing and paper handling machine operators .....	9.36	5.0	35.6	9.36	5.0	35.6	—	—	—
2 .....	9.38	8.9	37.1	9.38	8.9	37.1	—	—	—
Office machine operators, n.e.c. ....	8.71	4.6	36.5	8.65	4.7	36.8	—	—	—
1 .....	7.50	5.7	37.5	7.50	5.7	37.5	—	—	—
2 .....	8.41	3.9	35.5	8.41	3.9	35.5	—	—	—
3 .....	9.99	6.3	34.7	10.04	7.5	35.9	—	—	—
Telephone operators .....	11.48	3.5	36.2	11.54	3.7	36.2	10.54	6.9	37.3
1 .....	7.96	4.7	33.7	7.96	4.7	33.7	—	—	—
2 .....	11.91	5.7	37.0	11.98	5.7	37.1	8.51	3.8	32.5
3 .....	9.92	3.0	34.5	10.03	3.1	34.1	8.76	6.6	40.0

See footnotes at end of table.



Table 2-4. Selected occupations<sup>1</sup> and levels:<sup>2</sup> Mean hourly earnings<sup>3</sup> and weekly hours, private industry and State and local government, National Compensation Survey,<sup>4</sup> 1998—Continued

Occupation and level	Total			Private industry			State and local government		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)	
<b>White collar—Continued</b>									
<b>Administrative support, including clerical—Continued</b>									
Telephone operators—Continued									
4 .....	\$13.24	2.5	37.2	\$13.18	2.6	37.1	—	—	—
5 .....	12.65	5.1	37.9	—	—	—	—	—	—
Communications equipment operators, n.e.c. ....	10.41	3.9	33.6	9.84	6.3	34.0	\$11.45	3.2	32.9
1 .....	8.45	10.8	23.5	—	—	—	—	—	—
Mail clerks, except postal service .....	9.10	3.0	36.1	9.18	3.1	35.8	8.36	9.8	39.1
1 .....	6.86	3.4	35.5	6.84	4.0	34.9	—	—	—
2 .....	8.80	2.4	36.2	8.86	2.6	36.1	7.96	2.4	37.5
3 .....	9.99	5.5	35.0	9.97	5.8	34.8	10.28	9.1	39.2
4 .....	10.72	6.3	38.6	10.65	6.3	38.6	—	—	—
5 .....	13.81	13.4	38.6	13.81	13.4	38.6	—	—	—
Messengers .....	8.92	6.8	36.3	8.79	7.5	36.4	9.76	9.3	35.7
1 .....	7.61	10.0	35.7	7.49	10.2	35.9	9.58	15.5	32.9
2 .....	8.06	4.2	33.9	8.21	5.2	32.9	7.73	6.6	36.7
3 .....	10.39	5.2	38.7	9.97	4.0	39.6	—	—	—
4 .....	12.42	8.1	38.2	12.53	8.2	38.1	—	—	—
Dispatchers .....	12.92	3.7	38.3	12.48	5.8	38.1	13.27	4.6	38.4
2 .....	9.10	8.7	33.7	—	—	—	10.65	5.9	35.8
3 .....	9.95	4.5	37.1	9.65	4.0	38.8	10.42	9.7	34.7
4 .....	11.26	3.9	38.6	11.51	3.9	38.1	11.11	5.8	39.0
5 .....	13.89	3.2	39.2	15.38	4.6	39.5	13.15	3.8	39.1
6 .....	14.62	3.9	40.5	15.05	3.5	42.1	14.29	5.7	39.3
7 .....	18.74	5.9	39.6	17.09	5.6	40.6	19.38	7.1	39.2
Not able to be leveled .....	22.49	19.7	40.0	—	—	—	—	—	—
Production coordinators .....	14.69	1.8	38.9	14.67	1.8	38.9	16.84	9.4	39.8
2 .....	9.92	9.7	20.2	9.92	9.7	20.2	—	—	—
3 .....	10.67	3.0	38.9	10.67	3.0	38.9	—	—	—
4 .....	12.55	2.4	38.6	12.57	2.5	38.6	—	—	—
5 .....	14.26	2.5	40.0	14.27	2.6	40.0	—	—	—
6 .....	15.09	2.9	39.9	15.03	3.0	39.9	—	—	—
7 .....	16.78	6.0	40.0	16.78	6.0	40.0	—	—	—
8 .....	23.30	3.6	40.8	23.27	4.0	40.8	—	—	—
Not able to be leveled .....	17.30	10.4	39.6	17.30	10.4	39.6	—	—	—
Traffic, shipping and receiving clerks .....	11.50	3.0	37.8	11.47	3.1	37.8	13.37	3.5	38.7
1 .....	7.85	6.9	38.3	7.85	6.9	38.3	—	—	—
2 .....	9.20	1.4	30.0	9.20	1.4	30.0	—	—	—
3 .....	9.64	2.1	39.2	9.64	2.1	39.2	—	—	—
4 .....	11.76	2.8	38.6	11.77	2.8	38.6	—	—	—
5 .....	13.78	3.1	39.8	13.71	3.4	39.9	—	—	—
6 .....	15.27	3.1	39.9	15.37	3.4	39.9	—	—	—
7 .....	17.54	2.6	40.1	17.54	2.6	40.1	—	—	—
Stock and inventory clerks .....	11.27	1.5	36.2	11.23	1.7	35.9	11.62	3.7	39.2
1 .....	7.51	2.7	26.3	7.52	3.0	25.2	7.43	2.1	39.6
2 .....	8.60	4.4	31.5	8.66	4.8	30.9	8.01	4.6	38.6
3 .....	9.95	2.2	36.3	9.96	2.4	36.1	9.81	5.3	39.1
4 .....	11.74	1.9	39.1	11.63	2.1	39.0	12.57	3.1	39.5
5 .....	14.04	2.5	39.2	14.09	2.6	39.2	13.73	8.0	39.0
6 .....	15.33	2.9	39.5	15.34	3.2	39.7	—	—	—
7 .....	17.23	4.0	39.9	17.33	4.2	39.9	—	—	—
Not able to be leveled .....	14.92	8.0	40.0	—	—	—	—	—	—
Meter readers .....	15.08	3.9	39.5	15.94	4.5	39.9	13.45	5.0	38.9
1 .....	13.80	3.5	39.3	—	—	—	—	—	—
2 .....	12.08	10.5	40.0	12.18	13.2	40.0	—	—	—
3 .....	14.26	4.2	38.6	15.13	4.8	39.5	13.05	6.6	37.5
4 .....	16.72	5.7	40.0	17.90	3.6	40.0	12.40	6.5	40.0
5 .....	15.09	11.5	40.0	17.65	8.3	40.0	12.19	4.8	40.0
Weighers, measurers, checkers, and samplers	12.73	5.7	36.3	12.67	6.1	38.9	—	—	—
1 .....	6.95	7.7	32.1	6.95	7.7	32.1	—	—	—
2 .....	9.25	6.3	30.7	9.37	6.3	37.5	—	—	—

See footnotes at end of table.

Table 2-4. Selected occupations<sup>1</sup> and levels:<sup>2</sup> Mean hourly earnings<sup>3</sup> and weekly hours, private industry and State and local government, National Compensation Survey,<sup>4</sup> 1998—Continued

Occupation and level	Total			Private industry			State and local government		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)	
<b>White collar—Continued</b>									
<b>Administrative support, including clerical—Continued</b>									
Weighers, measurers, checkers, and samplers—Continued									
3 .....	\$14.25	7.4	37.7	\$14.26	7.8	40.0	—	—	—
4 .....	12.34	2.3	40.0	12.34	2.3	40.0	—	—	—
Expeditors .....	13.12	3.0	38.0	13.09	3.0	38.0	—	—	—
2 .....	7.64	7.8	27.9	7.64	7.8	27.9	—	—	—
3 .....	9.82	5.6	37.3	9.82	5.6	37.3	—	—	—
4 .....	12.49	6.1	38.5	12.49	6.2	38.4	—	—	—
5 .....	13.06	4.5	39.5	12.91	4.7	39.5	—	—	—
7 .....	18.23	4.6	39.7	18.23	4.6	39.7	—	—	—
Material recording, scheduling, and distribution clerks, n.e.c. ....									
1 .....	11.79	3.3	37.5	11.74	3.4	37.5	\$14.06	6.3	40.0
2 .....	7.11	5.4	32.4	7.11	5.4	32.4	—	—	—
3 .....	7.77	2.6	37.1	7.77	2.6	37.1	—	—	—
4 .....	10.92	7.0	38.0	10.88	7.2	38.0	—	—	—
5 .....	10.78	3.0	36.3	10.71	3.0	36.2	—	—	—
6 .....	14.28	3.7	39.8	14.20	3.7	39.8	—	—	—
7 .....	16.81	5.4	40.0	16.78	5.8	40.0	—	—	—
8 .....	18.93	2.9	40.1	18.93	2.9	40.1	—	—	—
Insurance adjusters, examiners, and investigators .....									
2 .....	14.96	2.9	39.0	14.97	3.0	39.0	14.32	6.4	40.0
3 .....	9.36	3.8	38.2	9.36	3.8	38.2	—	—	—
4 .....	10.08	2.0	39.3	10.09	2.1	39.3	—	—	—
5 .....	11.53	2.8	39.1	11.53	2.8	39.1	—	—	—
6 .....	13.08	2.3	39.0	13.04	2.4	38.9	—	—	—
7 .....	14.71	1.3	39.0	14.73	1.3	39.0	—	—	—
8 .....	17.72	2.6	39.2	17.71	2.6	39.1	—	—	—
9 .....	22.11	4.3	38.6	22.11	4.3	38.6	—	—	—
10 .....	21.10	2.4	38.3	21.25	2.5	38.3	—	—	—
11 .....	22.67	3.6	38.7	22.67	3.6	38.7	—	—	—
12 .....	42.46	10.3	37.3	42.46	10.3	37.3	—	—	—
Investigators and adjusters, except insurance .....									
1 .....	12.61	2.6	38.3	12.53	2.7	38.3	14.89	5.1	38.3
2 .....	6.70	4.6	36.0	6.80	5.6	38.0	—	—	—
3 .....	8.20	6.6	37.4	8.20	6.6	37.4	—	—	—
4 .....	9.55	2.4	36.7	9.54	2.4	36.8	—	—	—
5 .....	12.53	6.1	38.7	12.54	6.2	38.7	12.37	9.9	38.7
6 .....	14.03	3.4	38.5	14.01	3.6	38.5	14.30	6.4	39.5
7 .....	14.74	2.6	39.6	14.72	2.7	39.6	—	—	—
8 .....	17.08	3.0	39.1	16.95	3.3	38.9	17.71	8.1	40.0
9 .....	20.09	6.5	39.9	20.09	6.5	39.9	—	—	—
10 .....	11.95	11.9	38.9	11.95	11.9	38.9	—	—	—
Not able to be leveled .....									
Eligibility clerks, social welfare .....									
2 .....	13.02	2.1	38.4	10.99	4.1	38.1	13.61	2.1	38.5
3 .....	9.68	5.6	36.8	—	—	—	—	—	—
4 .....	9.69	6.1	38.1	9.86	10.3	38.3	9.48	4.5	37.8
5 .....	10.91	2.9	38.4	10.57	3.8	37.6	11.22	4.2	39.1
6 .....	13.60	6.6	39.1	11.44	8.3	39.3	14.30	7.6	39.1
7 .....	13.71	2.0	38.7	—	—	—	13.73	1.8	38.7
8 .....	14.94	3.5	38.7	—	—	—	15.12	3.6	39.2
Bill and account collectors .....									
2 .....	11.65	2.7	38.5	11.58	2.8	38.4	12.96	4.1	39.6
3 .....	9.56	8.1	37.3	9.57	8.1	37.3	—	—	—
4 .....	9.79	2.0	38.3	9.77	2.1	38.2	—	—	—
5 .....	10.78	4.0	38.1	10.71	4.0	38.1	13.11	8.3	38.7
6 .....	13.04	2.9	39.3	13.02	3.2	39.3	13.26	4.0	39.7
7 .....	13.92	3.3	39.8	14.23	3.1	39.8	—	—	—
8 .....	16.39	10.2	39.8	16.45	11.0	39.8	—	—	—
General office clerks .....									
1 .....	11.25	.8	36.7	11.12	1.0	36.5	11.46	1.3	37.1
2 .....	7.22	3.2	26.3	7.46	2.5	26.8	6.58	7.8	25.3
3 .....	8.65	1.3	34.3	8.51	1.6	34.4	9.04	2.3	34.0
4 .....	10.00	1.0	36.7	9.95	1.2	36.3	10.09	1.7	37.5

See footnotes at end of table.

Table 2-4. Selected occupations<sup>1</sup> and levels:<sup>2</sup> Mean hourly earnings<sup>3</sup> and weekly hours, private industry and State and local government, National Compensation Survey,<sup>4</sup> 1998—Continued

Occupation and level	Total			Private industry			State and local government		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)	
<b>White collar—Continued</b>									
<b>Administrative support, including clerical—Continued</b>									
General office clerks—Continued									
4 .....	\$11.80	1.2	38.1	\$11.91	1.7	38.0	\$11.65	1.4	38.2
5 .....	13.42	1.1	38.9	13.39	1.5	39.2	13.45	1.8	38.5
6 .....	15.00	2.5	39.5	15.93	2.6	39.5	13.98	3.7	39.4
7 .....	16.81	2.3	38.8	17.19	2.8	38.7	15.83	3.5	39.1
Not able to be leveled .....	13.70	9.9	35.1	11.58	13.0	36.0	14.84	8.2	34.7
Bank tellers .....									
1 .....	8.97	1.4	32.2	8.97	1.4	32.2	—	—	—
2 .....	7.85	2.1	26.6	7.85	2.1	26.6	—	—	—
3 .....	7.95	1.2	30.1	7.95	1.2	30.1	—	—	—
4 .....	8.76	2.0	30.8	8.76	2.0	30.8	—	—	—
5 .....	9.31	1.6	36.2	9.31	1.6	36.2	—	—	—
6 .....	12.03	6.1	37.7	12.03	6.1	37.7	—	—	—
7 .....	11.77	1.9	39.9	11.77	1.9	39.9	—	—	—
Proofreaders .....									
3 .....	12.53	13.2	38.1	10.46	5.4	37.5	—	—	—
4 .....	8.49	1.9	33.6	8.49	1.9	33.6	—	—	—
4 .....	10.98	7.0	39.4	10.98	7.0	39.4	—	—	—
Data entry keyers .....									
1 .....	10.04	1.4	37.6	9.79	1.5	37.4	11.20	3.3	38.8
2 .....	8.30	6.6	38.2	7.49	2.5	37.0	—	—	—
3 .....	8.89	2.2	36.6	8.75	2.1	36.4	10.72	8.5	38.9
4 .....	10.08	2.1	37.7	9.76	2.2	37.7	11.33	4.1	37.8
5 .....	11.20	2.8	38.8	11.08	3.0	38.7	11.62	6.8	39.5
6 .....	12.38	4.0	39.4	12.31	5.0	39.2	—	—	—
7 .....	15.39	4.6	39.9	15.72	4.5	39.9	—	—	—
Statistical clerks .....									
1 .....	11.56	3.9	37.2	11.93	4.6	36.7	10.34	4.0	38.8
2 .....	7.39	7.8	30.6	7.39	7.8	30.6	—	—	—
3 .....	8.76	5.6	31.1	8.58	5.9	30.7	—	—	—
4 .....	8.63	5.3	37.6	8.61	6.4	37.2	—	—	—
5 .....	12.73	6.6	38.0	13.51	6.7	37.6	9.93	6.4	39.5
6 .....	11.75	8.1	37.1	13.79	2.3	36.3	—	—	—
7 .....	12.61	4.5	39.7	12.61	4.5	39.7	—	—	—
7 .....	14.81	6.0	39.7	16.25	4.5	40.0	—	—	—
Teachers' aides .....									
1 .....	9.52	1.8	30.6	8.29	4.0	31.5	9.60	1.8	30.5
2 .....	7.95	3.0	29.5	6.29	3.4	26.6	8.09	3.1	29.8
3 .....	8.33	1.7	30.1	7.91	5.5	28.1	8.34	1.8	30.2
4 .....	9.33	2.4	31.7	7.31	4.3	26.1	9.38	2.5	31.9
5 .....	9.88	2.5	30.4	8.13	3.7	34.6	10.14	2.5	29.8
6 .....	14.08	4.0	27.9	10.48	17.7	36.3	14.34	3.7	27.5
7 .....	13.71	6.9	30.0	10.35	9.1	31.5	14.00	6.9	29.8
7 .....	12.25	9.0	35.5	—	—	—	12.48	9.7	34.5
Administrative support, n.e.c. ....									
1 .....	12.06	1.7	36.6	11.91	2.1	36.6	12.50	1.7	36.6
2 .....	6.53	5.6	26.6	6.42	5.8	27.4	7.74	3.4	20.0
3 .....	8.92	3.4	33.3	8.89	4.0	33.5	9.08	4.2	32.4
4 .....	9.59	2.7	35.4	9.44	2.9	35.8	10.27	4.9	33.8
5 .....	11.64	1.5	37.6	11.71	1.9	37.5	11.40	1.9	38.1
6 .....	13.08	1.7	38.6	13.28	2.2	38.5	12.66	2.6	38.6
7 .....	14.95	2.6	39.1	15.31	3.2	39.0	14.00	3.6	39.4
7 .....	16.93	2.7	39.1	16.72	3.8	39.6	17.56	1.7	37.5
Not able to be leveled .....	13.62	4.8	35.9	12.90	7.5	36.2	14.79	4.3	35.4
<b>Blue collar .....</b>									
1 .....	12.90	.6	38.5	12.77	.7	38.6	14.44	1.1	37.5
2 .....	7.77	1.3	34.8	7.72	1.3	34.8	9.38	4.8	35.8
3 .....	9.02	.8	37.6	8.96	.8	37.8	10.21	2.3	34.4
4 .....	11.43	1.1	38.7	11.42	1.5	39.1	11.57	2.2	33.8
5 .....	12.79	.8	39.4	12.77	.9	39.6	13.08	2.3	36.6
6 .....	14.06	.6	39.8	14.05	.6	39.9	14.11	1.4	38.5
7 .....	16.01	.8	40.5	16.12	.9	40.6	15.07	2.7	39.7
8 .....	18.98	.5	39.9	19.15	.6	40.0	17.98	1.6	39.8
9 .....	21.35	.9	40.3	21.35	1.0	40.4	21.26	2.9	39.7
9 .....	23.73	1.3	40.4	23.81	1.4	40.5	22.72	3.6	39.6

See footnotes at end of table.

Table 2-4. Selected occupations<sup>1</sup> and levels:<sup>2</sup> Mean hourly earnings<sup>3</sup> and weekly hours, private industry and State and local government, National Compensation Survey,<sup>4</sup> 1998—Continued

Occupation and level	Total			Private industry			State and local government		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)	
<b>Blue collar—Continued</b>									
10 .....	\$28.79	3.4	41.8	\$29.02	3.6	41.9	—	—	—
11 .....	31.64	2.7	39.5	31.71	3.1	39.7	—	—	—
Not able to be leveled .....	16.83	6.1	38.3	17.39	5.7	38.5	\$14.08	24.7	37.1
<b>Precision production, craft, and repair .....</b>	16.58	1.0	39.8	16.60	1.1	39.8	16.39	1.5	39.8
1 .....	8.51	5.3	39.0	8.51	5.3	39.1	—	—	—
2 .....	8.57	3.3	38.3	8.52	3.4	38.1	9.25	7.0	40.0
3 .....	9.91	1.2	39.7	9.85	1.2	39.7	10.57	2.8	39.8
4 .....	12.41	1.8	39.7	12.46	2.0	39.7	11.92	2.9	39.5
5 .....	14.01	.9	39.7	14.03	1.0	39.7	13.85	2.1	39.6
6 .....	16.33	1.2	40.0	16.49	1.3	40.0	15.28	2.6	39.8
7 .....	19.20	.6	39.9	19.40	.6	39.9	18.03	1.6	39.9
8 .....	21.50	1.0	40.3	21.52	1.0	40.3	21.28	3.2	39.7
9 .....	23.50	1.3	40.3	23.52	1.4	40.4	23.18	4.4	39.8
10 .....	28.93	3.5	41.9	29.10	3.6	42.0	—	—	—
11 .....	31.64	2.7	39.5	31.71	3.1	39.7	—	—	—
Not able to be leveled .....	20.49	6.2	39.5	20.30	5.9	39.5	22.02	27.9	39.7
Supervisors, mechanics and repairers .....	21.96	1.7	40.7	22.34	1.8	40.8	19.75	3.7	39.9
5 .....	12.60	8.0	40.0	—	—	—	—	—	—
6 .....	16.76	7.0	42.7	15.51	6.1	43.7	—	—	—
7 .....	19.98	2.1	40.2	20.62	2.2	40.3	17.83	4.6	39.9
8 .....	22.65	2.1	40.7	22.73	2.3	40.8	21.92	4.2	40.0
9 .....	24.65	2.9	40.9	24.70	3.1	41.0	23.87	7.0	40.0
10 .....	36.58	5.1	40.3	36.58	5.1	40.3	—	—	—
Not able to be leveled .....	28.47	6.8	40.0	28.47	6.8	40.0	—	—	—
Automobile mechanics .....	17.25	2.7	40.5	17.16	2.6	40.6	17.62	8.1	39.8
4 .....	14.31	10.5	41.5	14.90	9.7	41.7	—	—	—
5 .....	13.80	5.2	40.5	14.05	5.9	40.5	11.99	3.4	40.0
6 .....	18.76	7.4	41.0	19.16	8.2	41.4	16.33	4.4	39.0
7 .....	18.28	3.0	40.3	18.04	2.2	40.4	18.96	8.1	39.9
8 .....	18.12	3.4	40.3	17.78	4.4	40.7	—	—	—
Automobile mechanic apprentices .....	10.43	6.0	39.8	10.19	6.8	39.8	—	—	—
2 .....	8.59	9.5	40.0	8.46	9.9	40.0	—	—	—
5 .....	11.28	4.5	37.7	10.59	5.8	36.6	—	—	—
Bus, truck, and stationary engine mechanics .....	15.45	1.9	40.2	15.19	2.2	40.2	16.50	4.0	40.0
3 .....	10.25	6.0	40.0	11.08	3.9	40.0	—	—	—
4 .....	12.54	5.5	40.0	11.90	6.8	40.0	—	—	—
5 .....	12.70	2.4	40.0	12.42	2.2	40.0	15.50	7.9	40.0
6 .....	14.34	4.6	41.1	13.99	4.9	41.4	15.89	6.1	40.0
7 .....	17.55	1.8	40.0	17.46	2.3	40.1	17.86	2.0	39.9
Aircraft engine mechanics .....	21.79	3.2	40.0	21.80	3.2	40.0	—	—	—
5 .....	15.14	2.5	40.0	—	—	—	—	—	—
6 .....	18.65	11.5	40.0	18.65	11.5	40.0	—	—	—
7 .....	23.06	3.7	39.9	23.06	3.7	39.9	—	—	—
Small engine repairs .....	12.25	6.1	35.9	12.13	9.2	33.6	12.42	6.8	40.0
Automobile body and related repairers .....	16.55	5.1	40.8	16.54	5.1	40.8	—	—	—
5 .....	15.30	8.8	40.5	15.30	8.8	40.5	—	—	—
6 .....	14.00	8.8	42.1	13.96	8.9	42.2	—	—	—
7 .....	19.64	7.0	40.5	19.66	7.1	40.5	—	—	—
Aircraft mechanics, except engine .....	19.28	2.4	40.0	19.28	2.4	40.0	—	—	—
5 .....	14.43	9.5	40.0	14.43	9.5	40.0	—	—	—
7 .....	19.77	1.7	40.0	19.77	1.7	40.0	—	—	—
8 .....	23.65	6.4	40.5	23.65	6.4	40.5	—	—	—
Heavy equipment mechanics .....	17.28	3.1	40.0	17.50	3.7	40.0	16.36	5.4	40.0
4 .....	12.44	3.1	40.0	12.44	3.1	40.0	—	—	—
5 .....	12.04	1.6	40.3	12.25	1.4	40.4	11.24	5.9	40.0
6 .....	17.40	13.7	39.9	18.54	16.1	40.0	14.57	8.4	39.8
7 .....	18.91	2.3	40.0	19.06	2.7	40.0	18.27	2.7	40.0
8 .....	20.46	3.7	40.0	20.14	3.6	40.0	—	—	—
Farm equipment mechanics .....	14.58	10.6	40.0	—	—	—	—	—	—
Industrial machinery repairers .....	16.58	1.9	39.9	16.56	1.9	39.9	17.88	6.5	40.0
2 .....	11.05	5.1	40.0	11.05	5.1	40.0	—	—	—

See footnotes at end of table.

Table 2-4. Selected occupations<sup>1</sup> and levels:<sup>2</sup> Mean hourly earnings<sup>3</sup> and weekly hours, private industry and State and local government, National Compensation Survey,<sup>4</sup> 1998—Continued

Occupation and level	Total			Private industry			State and local government		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)	
<b>Blue collar—Continued</b>									
<b>Precision production, craft, and repair—Continued</b>									
Industrial machinery repairers—Continued									
3 .....	\$10.70	3.4	39.8	\$10.65	3.5	39.8	—	—	—
4 .....	12.09	5.3	39.8	12.08	5.3	39.8	—	—	—
5 .....	13.25	3.0	40.0	13.23	3.1	40.0	\$14.29	8.2	40.0
6 .....	15.64	1.6	40.0	15.65	1.6	40.0	14.78	5.2	40.0
7 .....	18.46	2.1	39.8	18.41	2.1	39.8	21.16	5.3	39.9
8 .....	20.22	3.6	40.0	20.22	3.6	40.0	—	—	—
9 .....	19.91	2.8	40.0	19.91	2.8	40.0	—	—	—
Machinery maintenance .....	13.51	2.6	39.8	13.46	2.6	39.8	14.66	8.2	38.4
2 .....	8.62	6.1	39.4	8.50	6.8	39.4	—	—	—
3 .....	12.12	6.7	39.4	12.12	6.7	39.4	—	—	—
4 .....	12.17	8.0	39.7	12.24	7.9	39.7	—	—	—
5 .....	13.01	5.8	40.1	13.02	6.0	40.3	—	—	—
6 .....	15.42	3.4	39.8	15.23	3.3	39.7	—	—	—
7 .....	17.77	3.3	39.6	17.98	3.4	39.5	—	—	—
8 .....	17.34	4.9	40.0	—	—	—	—	—	—
Electronic repairers, communications and industrial equipment .....	17.57	3.6	39.4	17.58	3.9	39.4	17.53	5.2	39.3
2 .....	9.14	4.2	40.0	9.10	4.4	40.0	—	—	—
3 .....	9.40	2.9	36.5	9.40	2.9	36.5	—	—	—
4 .....	10.51	4.6	39.5	10.34	4.3	39.5	—	—	—
5 .....	15.60	5.2	39.1	15.88	5.7	39.2	12.65	3.7	38.3
6 .....	14.74	4.0	40.1	14.71	4.2	40.1	—	—	—
7 .....	20.87	3.7	39.5	21.03	3.9	39.5	19.46	5.9	39.4
8 .....	17.32	4.1	39.7	17.03	4.1	39.7	—	—	—
9 .....	21.51	2.9	40.0	21.51	2.9	40.0	—	—	—
Data processing equipment repairers .....	16.57	3.3	37.8	16.67	3.7	37.5	15.78	4.2	40.0
5 .....	12.48	5.4	39.8	12.30	6.1	39.8	—	—	—
6 .....	14.18	5.2	39.4	14.30	6.0	39.3	—	—	—
7 .....	17.21	3.9	37.2	17.38	4.3	36.8	—	—	—
Household appliance and power tool repairers .....	16.77	6.1	38.3	16.77	6.1	38.3	—	—	—
6 .....	18.68	6.1	40.1	18.68	6.1	40.1	—	—	—
7 .....	18.87	7.1	40.0	18.87	7.1	40.0	—	—	—
Telephone line installers and repairers .....	19.28	3.0	39.6	19.59	2.7	39.6	—	—	—
4 .....	12.85	6.5	40.0	—	—	—	—	—	—
5 .....	19.24	5.2	40.0	19.85	3.6	40.0	—	—	—
6 .....	17.47	2.6	40.0	17.47	2.6	40.0	—	—	—
7 .....	21.01	2.4	39.1	21.01	2.4	39.1	—	—	—
Telephone installers and repairers .....	18.00	1.8	39.9	17.88	1.7	39.9	—	—	—
4 .....	13.94	7.3	40.0	13.94	7.3	40.0	—	—	—
5 .....	18.10	3.3	40.0	18.10	3.3	40.0	—	—	—
6 .....	15.15	7.1	39.5	15.15	7.1	39.5	—	—	—
7 .....	19.28	2.2	40.0	19.05	1.9	40.0	—	—	—
8 .....	19.44	2.8	40.0	19.44	2.8	40.0	—	—	—
Heating, air conditioning, and refrigeration mechanics .....	16.16	2.3	39.7	16.64	3.0	39.7	14.97	3.4	39.6
4 .....	12.12	7.7	40.0	12.52	7.1	40.0	—	—	—
5 .....	14.34	6.3	39.6	14.04	7.2	39.3	14.85	10.5	40.0
6 .....	15.98	5.6	39.6	16.87	6.3	39.5	12.39	5.2	40.0
7 .....	17.36	2.5	39.7	18.08	3.8	39.9	15.95	3.6	39.3
Camera, watch, and musical instrument repairers .....	16.47	14.1	40.0	16.47	14.1	40.0	—	—	—
7 .....	16.35	19.7	40.0	16.35	19.7	40.0	—	—	—
Locksmiths and safe repairers .....	17.30	4.8	40.0	17.90	6.6	40.0	—	—	—
7 .....	17.62	4.6	40.0	18.50	5.8	40.0	—	—	—
Office machine repairers .....	16.09	5.0	40.0	15.86	5.2	40.0	—	—	—
5 .....	12.69	1.8	40.0	12.69	1.8	40.0	—	—	—
6 .....	14.74	7.6	40.0	13.64	3.7	40.0	—	—	—
Mechanical controls and valve repairers .....	18.11	4.0	39.5	18.43	5.3	40.0	17.35	4.5	38.3
5 .....	15.91	6.0	38.5	15.49	9.3	40.0	16.36	6.6	37.1

See footnotes at end of table.

Table 2-4. Selected occupations<sup>1</sup> and levels:<sup>2</sup> Mean hourly earnings<sup>3</sup> and weekly hours, private industry and State and local government, National Compensation Survey,<sup>4</sup> 1998—Continued

Occupation and level	Total			Private industry			State and local government		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)	
<b>Blue collar—Continued</b>									
<b>Precision production, craft, and repair—Continued</b>									
Mechanical controls and valve repairers—Continued									
6 .....	\$18.66	5.5	40.0	\$18.81	5.8	40.0	—	—	—
7 .....	20.17	6.1	40.0	20.38	8.6	40.0	\$19.76	5.4	40.0
Elevator installers and repairers .....									
4 .....	19.27	23.4	40.0	19.17	24.0	40.0	—	—	—
8 .....	24.15	8.5	40.0	—	—	—	—	—	—
Millwrights .....									
4 .....	19.06	5.5	40.1	19.13	5.6	40.1	—	—	—
5 .....	12.44	10.6	40.0	12.44	10.6	40.0	—	—	—
7 .....	14.91	10.1	40.0	14.91	10.1	40.0	—	—	—
7 .....	20.24	2.3	40.2	20.42	2.1	40.2	—	—	—
Mechanics and repairers, n.e.c. ....									
2 .....	15.62	1.4	39.7	16.04	1.6	39.7	14.26	2.6	39.7
2 .....	7.71	3.2	38.8	7.54	3.3	38.6	—	—	—
3 .....	9.92	2.5	39.7	9.86	2.7	39.6	10.11	4.9	39.9
4 .....	12.00	2.8	38.8	12.49	3.7	38.4	10.80	3.0	39.6
5 .....	13.63	2.9	39.8	13.75	3.8	39.8	13.30	2.8	39.8
6 .....	16.18	2.1	39.9	16.75	2.1	39.9	14.41	4.6	39.7
7 .....	17.93	1.2	39.8	18.21	1.3	39.9	16.95	2.6	39.8
8 .....	21.12	3.3	39.8	21.04	3.4	39.8	—	—	—
9 .....	21.71	2.7	40.0	21.17	2.3	40.0	—	—	—
9 .....	19.05	9.6	39.4	22.11	4.7	39.2	—	—	—
Supervisors, brickmasons, stonemasons, and tilesetters .....									
7 .....	18.44	5.3	40.0	22.60	4.5	40.0	—	—	—
Supervisors, carpenters and related workers .....									
7 .....	21.04	5.8	40.3	21.37	5.9	40.3	—	—	—
8 .....	17.94	5.9	40.0	18.00	6.0	40.0	—	—	—
8 .....	20.43	6.0	40.0	21.38	5.4	40.0	—	—	—
9 .....	24.27	7.6	41.0	24.27	7.6	41.0	—	—	—
Supervisors, electricians and power transmission installers .....									
7 .....	22.78	4.8	40.0	22.69	5.1	40.0	23.39	13.0	40.0
7 .....	22.09	5.4	40.3	22.80	5.6	40.4	18.90	11.0	40.0
8 .....	19.52	7.9	40.0	19.42	8.1	40.0	—	—	—
9 .....	26.63	5.3	39.6	25.96	5.2	39.5	30.37	11.0	40.1
Supervisors, painters, paperhangers, and plasterers .....									
7 .....	18.30	2.3	40.4	18.28	2.4	40.4	—	—	—
Supervisors, plumbers, pipefitters, and steamfitters .....									
7 .....	23.27	6.6	40.1	23.82	8.1	40.3	22.44	12.2	39.8
8 .....	23.07	11.4	39.4	18.63	5.5	37.6	24.63	10.0	40.0
8 .....	23.64	15.3	40.0	26.82	12.5	40.0	—	—	—
9 .....	25.11	4.5	39.6	25.30	5.1	40.0	—	—	—
Supervisors, construction trades, n.e.c. ....									
5 .....	18.58	3.1	40.3	19.94	2.3	40.6	16.76	6.3	39.9
5 .....	14.78	6.6	40.0	—	—	—	13.23	4.7	39.9
6 .....	13.21	8.0	40.3	14.28	3.6	40.8	12.66	10.7	40.0
7 .....	16.66	3.3	40.3	18.17	3.3	40.6	14.77	4.4	39.9
8 .....	21.46	3.8	41.0	20.91	3.9	41.5	22.55	6.1	39.9
9 .....	24.25	3.7	39.6	25.05	2.8	39.4	22.24	11.0	40.1
Brickmasons and stonemasons .....									
7 .....	16.56	5.5	40.0	16.93	7.6	40.0	—	—	—
7 .....	17.82	3.3	40.0	19.09	4.7	40.0	—	—	—
Brickmason and stonemason apprentices .....									
4 .....	12.73	9.6	40.0	12.73	9.6	40.0	—	—	—
Carpet installers .....									
3 .....	24.12	4.9	39.0	24.86	4.1	38.9	—	—	—
Carpenters .....									
3 .....	17.04	2.1	39.6	16.98	2.2	39.6	17.35	5.7	39.4
4 .....	10.49	7.8	40.0	10.49	7.8	40.0	—	—	—
4 .....	12.71	9.0	38.9	13.01	9.7	38.8	—	—	—
5 .....	13.89	2.2	39.2	14.10	2.2	39.4	11.99	5.2	37.7
6 .....	15.11	3.7	39.1	15.29	3.9	39.0	—	—	—
7 .....	19.28	2.0	39.9	19.47	2.2	39.9	18.48	5.4	40.0
8 .....	20.35	4.2	39.5	19.55	2.9	40.0	—	—	—
Carpenter apprentices .....									
4 .....	12.47	3.6	40.0	12.47	3.6	40.0	—	—	—
4 .....	12.55	7.0	40.0	12.55	7.0	40.0	—	—	—
5 .....	12.68	6.6	40.0	12.68	6.6	40.0	—	—	—
Drywall installers .....									
5 .....	15.46	2.3	39.8	15.46	2.3	39.8	—	—	—
5 .....	13.72	2.9	40.0	13.72	2.9	40.0	—	—	—

See footnotes at end of table.

Table 2-4. Selected occupations<sup>1</sup> and levels:<sup>2</sup> Mean hourly earnings<sup>3</sup> and weekly hours, private industry and State and local government, National Compensation Survey,<sup>4</sup> 1998—Continued

Occupation and level	Total			Private industry			State and local government		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)	
<b>Blue collar—Continued</b>									
<b>Precision production, craft, and repair—Continued</b>									
Drywall installers—Continued									
6 .....	\$17.32	4.7	39.2	\$17.32	4.7	39.2	—	—	—
7 .....	16.85	6.1	39.7	16.85	6.1	39.7	—	—	—
Electricians .....	18.91	1.9	39.9	19.18	2.1	39.9	\$17.60	3.7	39.9
4 .....	11.57	6.0	40.0	11.57	7.0	40.0	—	—	—
5 .....	13.87	3.9	39.9	13.89	4.8	40.0	13.80	4.6	39.4
6 .....	16.32	3.3	40.0	16.32	3.4	40.0	16.36	9.7	40.0
7 .....	19.67	2.1	39.9	20.19	2.4	39.9	17.77	5.7	39.9
8 .....	22.33	3.7	39.9	22.56	3.5	39.9	21.30	11.5	39.7
9 .....	25.18	2.8	39.9	25.39	2.7	40.0	—	—	—
Electrician apprentices .....	13.27	6.3	40.0	12.83	6.9	40.0	17.81	4.7	40.0
2 .....	10.26	6.8	40.0	10.26	6.8	40.0	—	—	—
3 .....	9.05	7.4	39.9	9.05	7.4	39.9	—	—	—
4 .....	13.21	5.4	40.0	12.93	5.5	40.0	—	—	—
5 .....	16.76	5.8	40.0	16.48	7.5	40.0	—	—	—
Electrical power installers and repairers .....	21.47	2.7	40.0	21.78	3.2	40.0	19.92	2.8	40.0
4 .....	11.63	5.6	40.0	—	—	—	—	—	—
5 .....	19.17	6.7	40.0	20.92	7.4	40.0	13.65	3.9	40.0
6 .....	18.35	1.9	40.0	18.60	2.6	40.0	—	—	—
7 .....	23.14	1.7	40.0	23.21	2.0	40.0	22.83	2.6	40.0
8 .....	22.96	2.6	40.0	23.73	2.6	40.0	—	—	—
9 .....	25.92	3.4	40.0	25.92	3.4	40.0	—	—	—
Painters, construction and maintenance .....	15.60	5.7	39.4	15.32	7.4	39.4	16.50	5.7	39.4
2 .....	8.64	3.9	40.0	8.64	3.9	40.0	—	—	—
3 .....	10.58	7.0	39.9	10.40	7.6	39.8	—	—	—
4 .....	12.18	7.4	39.6	12.34	8.4	39.6	—	—	—
5 .....	12.90	3.9	39.3	12.62	4.5	39.5	13.45	7.4	39.0
6 .....	22.22	6.2	38.0	22.22	6.6	37.9	—	—	—
7 .....	20.35	4.0	39.6	21.61	5.3	39.7	18.81	3.5	39.5
Plasterers .....	18.61	16.4	40.0	—	—	—	—	—	—
Plumbers, pipefitters and steamfitters .....	20.08	2.0	39.9	20.73	1.9	40.0	16.98	4.7	39.7
4 .....	12.06	3.2	40.0	—	—	—	—	—	—
5 .....	16.84	6.3	39.8	17.36	8.5	40.0	15.73	6.0	39.4
6 .....	17.37	4.0	39.7	16.60	3.2	40.0	19.76	8.6	38.9
7 .....	20.97	2.0	40.0	21.50	1.9	40.0	17.72	4.9	39.9
8 .....	22.58	3.5	39.9	22.73	3.4	39.9	—	—	—
9 .....	26.49	7.4	38.9	26.49	7.4	38.9	—	—	—
Plumber, pipefitter, and steamfitter apprentices	14.33	4.4	39.9	14.13	5.0	39.9	15.80	4.7	40.0
3 .....	11.57	5.4	40.0	11.57	5.4	40.0	—	—	—
4 .....	11.60	9.4	40.0	11.60	9.7	40.0	—	—	—
5 .....	14.18	4.0	40.0	13.60	4.0	40.0	—	—	—
Concrete and terrazzo finishers .....	14.23	8.3	39.7	14.12	8.9	39.7	15.55	10.5	40.0
5 .....	12.85	6.9	40.4	12.85	6.9	40.4	—	—	—
6 .....	12.98	7.4	40.0	—	—	—	—	—	—
7 .....	20.08	5.3	38.3	20.59	5.7	38.0	—	—	—
Glaziers .....	17.30	6.6	38.9	14.29	6.4	38.0	—	—	—
Insulation workers .....	11.88	6.0	35.2	11.85	6.0	35.1	—	—	—
5 .....	15.02	3.9	40.0	15.10	4.4	40.0	—	—	—
Paving, surfacing, and tamping equipment operators .....	11.48	12.0	40.0	—	—	—	12.87	1.7	40.0
5 .....	12.51	9.5	40.1	—	—	—	—	—	—
Roofers .....	13.64	6.2	34.5	13.56	6.4	34.4	—	—	—
5 .....	9.59	5.7	40.0	9.59	5.7	40.0	—	—	—
6 .....	13.54	9.7	39.9	—	—	—	—	—	—
Sheetmetal duct installers .....	19.43	8.1	38.8	19.43	8.1	38.8	—	—	—
6 .....	21.47	12.5	40.0	21.47	12.5	40.0	—	—	—
7 .....	19.47	8.4	36.7	19.47	8.4	36.7	—	—	—
Structural metal workers .....	16.57	4.6	39.6	16.18	4.6	39.6	—	—	—
4 .....	14.44	12.6	38.0	14.44	12.6	38.0	—	—	—
5 .....	14.63	3.0	38.0	14.63	3.0	38.0	—	—	—

See footnotes at end of table.

Table 2-4. Selected occupations<sup>1</sup> and levels:<sup>2</sup> Mean hourly earnings<sup>3</sup> and weekly hours, private industry and State and local government, National Compensation Survey,<sup>4</sup> 1998—Continued

Occupation and level	Total			Private industry			State and local government		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)	
<b>Blue collar—Continued</b>									
<b>Precision production, craft, and repair—Continued</b>									
Structural metal workers—Continued									
6 .....	\$13.56	4.3	39.8	\$13.56	4.3	39.8	—	—	—
7 .....	19.11	5.6	40.3	18.75	6.5	40.3	—	—	—
Drillers, earth .....	11.49	10.6	40.0	11.49	10.6	40.0	—	—	—
Construction trades, n.e.c. ....	14.76	2.8	39.3	16.43	3.3	38.9	\$13.00	3.9	39.7
2 .....	9.43	11.3	40.0	10.76	20.2	40.0	8.73	7.0	40.0
3 .....	10.43	5.3	40.0	9.79	10.6	40.0	10.97	3.6	39.9
4 .....	12.44	3.8	39.3	13.14	7.1	39.9	12.02	3.6	39.0
5 .....	13.67	4.8	38.4	13.21	6.6	35.7	13.89	6.4	39.8
6 .....	15.36	2.6	39.7	15.37	3.5	39.8	15.34	4.1	39.5
7 .....	20.39	2.9	39.6	21.29	3.4	39.5	15.99	2.5	39.9
8 .....	19.53	16.6	40.0	—	—	—	—	—	—
Supervisors, extractive .....	22.05	14.5	41.2	22.05	14.5	41.2	—	—	—
Drillers, oil well .....	17.37	2.6	41.3	17.37	2.6	41.3	—	—	—
7 .....	23.43	7.7	40.5	23.43	7.7	40.5	—	—	—
Explosives workers .....	15.91	16.0	39.6	15.91	16.0	39.6	—	—	—
Mining machine operators .....	18.63	6.4	40.0	18.63	6.4	40.0	—	—	—
5 .....	19.39	10.6	40.0	19.39	10.6	40.0	—	—	—
6 .....	18.19	7.2	40.0	18.19	7.2	40.0	—	—	—
Mining, n.e.c. ....	19.72	3.6	40.1	19.72	3.6	40.1	—	—	—
Supervisors, production .....	19.00	2.6	40.7	19.02	2.6	40.7	17.99	10.3	40.0
5 .....	13.14	2.2	40.5	13.15	2.2	40.5	—	—	—
6 .....	16.37	11.2	40.0	16.67	11.6	40.0	—	—	—
7 .....	18.17	1.6	40.9	18.24	1.6	40.9	—	—	—
8 .....	22.10	1.7	40.6	22.10	1.7	40.6	—	—	—
9 .....	23.55	4.0	41.0	23.46	4.1	41.0	26.02	6.3	39.9
10 .....	27.44	4.7	41.3	27.52	4.8	41.4	—	—	—
11 .....	33.11	6.5	40.1	33.11	6.5	40.1	—	—	—
Not able to be leveled .....	20.25	11.1	39.6	20.25	11.1	39.6	—	—	—
Tool and die makers .....	19.72	1.8	40.0	19.74	1.8	40.0	—	—	—
5 .....	14.18	7.3	40.0	14.18	7.3	40.0	—	—	—
6 .....	17.99	3.9	40.0	17.99	3.9	40.0	—	—	—
7 .....	20.37	1.4	40.0	20.40	1.4	40.0	—	—	—
8 .....	21.07	5.9	40.0	21.07	5.9	40.0	—	—	—
9 .....	20.02	2.5	40.0	20.02	2.5	40.0	—	—	—
Tool and die maker apprentices .....	14.33	4.9	40.0	14.33	4.9	40.0	—	—	—
5 .....	13.42	8.2	40.0	13.42	8.2	40.0	—	—	—
Precision assemblers, metal .....	16.19	3.0	40.0	16.19	3.0	40.0	—	—	—
4 .....	16.93	5.7	40.0	16.93	5.7	40.0	—	—	—
5 .....	14.06	6.4	40.0	14.06	6.4	40.0	—	—	—
6 .....	15.14	4.2	40.0	15.14	4.2	40.0	—	—	—
7 .....	18.47	2.9	40.0	18.47	2.9	40.0	—	—	—
Machinists .....	17.12	1.1	40.0	17.02	1.1	40.0	20.08	7.1	40.0
4 .....	12.13	4.0	40.5	12.13	4.0	40.5	—	—	—
5 .....	14.46	2.2	40.0	14.46	2.2	40.0	—	—	—
6 .....	17.13	2.4	39.9	17.12	2.5	39.9	—	—	—
7 .....	17.79	1.4	40.0	17.72	1.4	40.0	—	—	—
8 .....	19.77	2.6	39.9	19.51	2.5	39.9	—	—	—
9 .....	19.31	5.4	40.0	19.31	5.4	40.0	—	—	—
Machinist apprentices .....	12.63	4.9	40.0	12.63	4.9	40.0	—	—	—
5 .....	14.68	5.8	40.0	14.68	5.8	40.0	—	—	—
Boilermakers .....	18.28	5.2	39.9	18.41	5.3	40.0	—	—	—
5 .....	14.25	9.8	39.8	—	—	—	—	—	—
7 .....	21.10	3.4	40.0	21.10	3.4	40.0	—	—	—
Precision grinders, filers, and tool sharpeners ...	14.90	4.7	40.1	14.90	4.7	40.1	—	—	—
4 .....	12.64	6.2	40.9	12.64	6.2	40.9	—	—	—
5 .....	15.63	6.8	40.0	15.63	6.8	40.0	—	—	—
6 .....	16.31	1.7	40.0	16.31	1.7	40.0	—	—	—
7 .....	19.90	3.9	40.0	19.90	3.9	40.0	—	—	—
Patternmakers and modelmakers, metal .....	18.21	5.7	40.0	18.21	5.7	40.0	—	—	—

See footnotes at end of table.



Table 2-4. Selected occupations<sup>1</sup> and levels:<sup>2</sup> Mean hourly earnings<sup>3</sup> and weekly hours, private industry and State and local government, National Compensation Survey,<sup>4</sup> 1998—Continued

Occupation and level	Total			Private industry			State and local government		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)	
<b>Blue collar—Continued</b>									
<b>Precision production, craft, and repair—Continued</b>									
Patternmakers and modelmakers, metal—Continued									
7 .....	\$16.82	2.5	40.0	\$16.82	2.5	40.0	—	—	—
Layout workers .....	14.87	4.9	40.0	14.87	4.9	40.0	—	—	—
7 .....	16.11	4.0	40.0	16.11	4.0	40.0	—	—	—
Precious stones and metals workers .....	8.98	8.8	39.3	8.98	8.8	39.3	—	—	—
2 .....	7.87	3.4	40.0	7.87	3.4	40.0	—	—	—
Engravers, metal .....	15.41	22.7	39.2	15.41	22.7	39.2	—	—	—
Sheet metal workers .....	16.76	5.1	40.0	16.76	5.1	40.0	—	—	—
4 .....	11.59	2.1	40.0	11.59	2.1	40.0	—	—	—
5 .....	14.38	6.6	40.0	14.38	6.6	40.0	—	—	—
6 .....	16.17	11.9	39.9	16.17	11.9	39.9	—	—	—
7 .....	21.56	4.7	40.0	21.56	4.7	40.0	—	—	—
Sheet metal worker apprentices .....	13.39	7.0	37.1	13.39	7.0	37.1	—	—	—
Cabinet makers and bench carpenters .....	11.20	4.7	39.7	10.87	5.2	39.6	—	—	—
3 .....	10.69	6.5	40.0	10.69	6.5	40.0	—	—	—
4 .....	9.84	5.8	39.9	9.98	7.2	39.9	—	—	—
5 .....	10.12	4.4	40.0	10.12	4.4	40.0	—	—	—
Furniture and wood finishers .....	11.68	2.5	40.0	11.68	2.5	40.0	—	—	—
5 .....	11.45	3.2	39.8	11.45	3.2	39.8	—	—	—
Tailors .....	11.86	3.4	39.5	11.86	3.4	39.5	—	—	—
5 .....	12.58	3.5	39.1	12.58	3.5	39.1	—	—	—
Upholsterers .....	12.57	9.3	39.6	12.57	9.3	39.6	—	—	—
5 .....	13.98	2.4	38.6	13.98	2.4	38.6	—	—	—
6 .....	16.33	5.4	40.0	16.33	5.4	40.0	—	—	—
Hand molders and shapers, except jewelers .....	16.34	3.1	40.2	16.34	3.1	40.2	—	—	—
7 .....	17.89	4.3	40.7	17.89	4.3	40.7	—	—	—
Patternmakers, layout workers, and cutters .....	19.77	7.8	39.9	19.81	7.8	39.9	—	—	—
5 .....	16.28	4.1	40.0	16.28	4.1	40.0	—	—	—
7 .....	19.90	7.2	40.0	19.90	7.2	40.0	—	—	—
Optical goods workers .....	11.00	12.8	39.7	11.00	12.8	39.7	—	—	—
Dental laboratory and medical appliance technicians .....	14.47	10.8	39.5	15.59	12.6	39.1	—	—	—
Bookbinders .....	13.57	6.1	39.4	13.57	6.1	39.4	—	—	—
Electrical and electronic equipment assemblers	9.78	3.0	39.8	9.78	3.0	39.8	—	—	—
2 .....	7.71	5.0	39.7	7.71	5.0	39.7	—	—	—
3 .....	9.23	2.5	40.0	9.23	2.5	40.0	—	—	—
4 .....	11.28	2.5	40.0	11.28	2.5	40.0	—	—	—
5 .....	11.84	2.1	40.0	11.84	2.1	40.0	—	—	—
6 .....	13.32	3.4	39.9	13.32	3.4	39.9	—	—	—
7 .....	16.61	5.0	39.8	16.61	5.0	39.8	—	—	—
Miscellaneous precision workers, n.e.c. ....	15.51	5.4	39.8	15.50	5.4	39.8	—	—	—
4 .....	12.52	8.6	39.8	12.52	8.6	39.8	—	—	—
5 .....	13.18	4.1	39.8	13.18	4.1	39.8	—	—	—
6 .....	16.13	6.4	40.1	16.13	6.4	40.1	—	—	—
7 .....	19.14	4.2	40.0	19.13	4.3	40.0	—	—	—
9 .....	26.73	11.6	40.0	26.73	11.6	40.0	—	—	—
Precision food production .....	10.90	7.3	40.0	10.90	7.3	40.0	—	—	—
Butchers and meat cutters .....	10.20	3.5	38.5	10.20	3.5	38.5	—	—	—
1 .....	7.27	2.6	38.4	7.27	2.6	38.4	—	—	—
2 .....	8.15	6.1	35.9	8.15	6.1	35.9	—	—	—
4 .....	11.16	3.8	38.7	11.16	3.8	38.7	—	—	—
5 .....	12.68	2.9	39.2	12.68	2.9	39.2	—	—	—
6 .....	14.50	4.9	39.8	14.50	4.9	39.8	—	—	—
7 .....	16.56	2.2	38.6	16.56	2.2	38.6	—	—	—
Bakers .....	9.82	4.9	36.7	9.52	3.4	36.3	—	—	—
2 .....	7.78	3.2	34.4	7.40	1.5	32.3	—	—	—
3 .....	8.22	3.8	36.3	8.22	3.8	36.3	—	—	—
4 .....	10.12	5.8	37.6	10.12	5.8	37.6	—	—	—
5 .....	11.00	7.9	39.1	11.00	7.9	39.1	—	—	—

See footnotes at end of table.

Table 2-4. Selected occupations<sup>1</sup> and levels:<sup>2</sup> Mean hourly earnings<sup>3</sup> and weekly hours, private industry and State and local government, National Compensation Survey,<sup>4</sup> 1998—Continued

Occupation and level	Total			Private industry			State and local government		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)	
<b>Blue collar—Continued</b>									
<b>Precision production, craft, and repair—Continued</b>									
<b>Bakers—Continued</b>									
7 .....	\$13.29	2.8	36.8	\$13.29	2.8	36.8	—	—	—
Food batchmakers .....	10.48	5.2	38.7	10.48	5.2	38.7	—	—	—
2 .....	9.01	12.3	38.2	9.01	12.3	38.2	—	—	—
3 .....	10.64	5.8	39.8	10.64	5.8	39.8	—	—	—
4 .....	11.95	4.9	38.5	11.95	4.9	38.5	—	—	—
5 .....	14.18	6.0	36.9	14.18	6.0	36.9	—	—	—
Inspectors, testers, and graders .....	16.37	2.2	40.2	16.24	2.3	40.2	\$18.23	4.5	39.6
2 .....	9.14	7.3	40.0	9.14	7.3	40.0	—	—	—
3 .....	9.82	2.4	40.0	9.71	2.6	40.0	—	—	—
4 .....	14.68	6.6	40.0	14.68	6.6	40.0	—	—	—
5 .....	13.78	2.9	40.5	13.63	2.9	40.6	—	—	—
6 .....	16.06	2.7	40.2	15.96	2.9	40.2	—	—	—
7 .....	18.64	2.2	40.4	18.52	2.3	40.5	19.65	4.4	40.0
8 .....	21.53	8.3	40.1	22.67	8.0	40.1	—	—	—
9 .....	22.61	5.6	40.0	23.02	5.8	40.0	—	—	—
Precision inspectors, testers, and related workers, n.e.c. ....	19.04	6.6	40.0	19.04	6.6	40.0	—	—	—
6 .....	18.77	6.3	40.0	18.77	6.3	40.0	—	—	—
7 .....	17.96	10.8	40.0	17.96	10.8	40.0	—	—	—
Adjusters and calibrators .....	13.36	14.1	39.6	13.36	14.1	39.6	—	—	—
Water and sewer treatment plant operators .....	15.53	2.8	39.4	14.85	6.1	37.1	15.68	3.1	39.9
3 .....	11.56	11.5	38.5	—	—	—	10.92	14.1	38.1
4 .....	14.40	8.4	40.0	—	—	—	14.52	9.6	40.0
5 .....	14.23	3.8	40.0	14.15	8.6	40.0	14.24	4.1	40.0
6 .....	15.25	6.7	40.0	—	—	—	15.20	8.7	40.0
7 .....	17.20	2.4	40.0	17.37	3.4	40.0	17.18	2.8	40.0
9 .....	20.63	10.5	40.0	—	—	—	—	—	—
Power plant operators .....	22.02	1.9	39.7	22.16	2.1	39.6	21.40	4.5	39.8
5 .....	17.60	5.0	40.0	17.72	5.1	40.0	—	—	—
6 .....	19.09	5.4	40.0	—	—	—	—	—	—
7 .....	22.21	1.4	39.7	22.50	1.1	39.7	20.24	7.2	40.0
8 .....	25.84	3.0	39.9	26.02	4.0	39.7	—	—	—
9 .....	23.11	3.7	40.0	23.11	3.7	40.0	—	—	—
Stationary engineers .....	19.02	3.1	39.5	19.09	3.5	39.5	18.89	6.6	39.7
4 .....	13.66	7.5	39.6	—	—	—	—	—	—
5 .....	14.53	5.6	39.7	15.15	5.0	39.5	13.64	11.2	40.0
6 .....	16.53	4.0	39.9	16.92	5.2	39.9	15.57	2.8	40.0
7 .....	21.47	3.0	39.5	21.17	2.9	39.5	22.21	7.3	39.5
9 .....	20.16	8.3	38.1	24.85	9.0	34.5	—	—	—
Miscellaneous plant and system operators, n.e.c. ....	21.34	2.2	40.1	21.44	2.2	40.1	14.38	5.2	40.0
3 .....	18.57	12.3	40.0	—	—	—	—	—	—
4 .....	20.61	7.5	39.9	20.61	7.5	39.9	—	—	—
5 .....	19.02	2.3	39.6	19.14	2.3	39.6	—	—	—
6 .....	21.03	2.3	40.2	21.18	2.3	40.2	—	—	—
7 .....	22.97	2.2	40.1	23.06	2.2	40.1	—	—	—
8 .....	23.13	2.4	41.3	23.13	2.4	41.3	—	—	—
<b>Machine operators, assemblers, and inspectors .....</b>	<b>11.59</b>	<b>.9</b>	<b>39.6</b>	<b>11.58</b>	<b>.9</b>	<b>39.6</b>	<b>13.50</b>	<b>6.6</b>	<b>38.3</b>
1 .....	7.64	1.6	38.3	7.63	1.6	38.3	8.37	8.6	37.5
2 .....	8.83	1.2	39.5	8.83	1.2	39.5	9.03	6.7	37.5
3 .....	11.83	2.3	39.8	11.83	2.3	39.8	9.72	5.4	37.5
4 .....	12.57	1.1	39.9	12.57	1.1	39.9	11.79	6.0	37.6
5 .....	13.54	.9	39.9	13.53	.9	39.9	14.14	3.4	39.5
6 .....	14.90	1.6	39.8	14.91	1.7	39.8	13.75	6.3	39.9
7 .....	17.49	1.2	39.8	17.39	1.3	39.8	19.86	4.6	39.3
8 .....	19.37	2.3	39.8	19.37	2.3	39.8	—	—	—
9 .....	22.38	2.0	39.2	22.38	2.0	39.2	—	—	—
Not able to be leveled .....	13.25	8.6	36.9	13.28	8.7	37.3	—	—	—

See footnotes at end of table.

Table 2-4. Selected occupations<sup>1</sup> and levels:<sup>2</sup> Mean hourly earnings<sup>3</sup> and weekly hours, private industry and State and local government, National Compensation Survey,<sup>4</sup> 1998—Continued

Occupation and level	Total			Private industry			State and local government		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)	
<b>Blue collar—Continued</b>									
<b>Machine operators, assemblers, and inspectors—Continued</b>									
Lathe and turning machine set-up operators .....	\$14.03	2.6	40.0	\$14.03	2.6	40.0	—	—	—
5 .....	13.91	1.9	40.0	13.91	1.9	40.0	—	—	—
6 .....	14.51	1.1	40.0	14.51	1.1	40.0	—	—	—
7 .....	16.17	6.7	39.7	16.17	6.7	39.7	—	—	—
Lathe and turning machine operators .....	12.83	6.3	39.9	12.83	6.3	39.9	—	—	—
2 .....	9.41	5.1	40.0	9.41	5.1	40.0	—	—	—
3 .....	12.46	8.2	39.5	12.46	8.2	39.5	—	—	—
4 .....	11.77	10.9	39.9	11.77	10.9	39.9	—	—	—
5 .....	13.64	5.2	39.8	13.64	5.2	39.8	—	—	—
6 .....	16.33	3.6	40.0	16.33	3.6	40.0	—	—	—
7 .....	18.71	4.7	40.0	18.71	4.7	40.0	—	—	—
Milling and planing machine operators .....	13.38	6.9	40.0	13.38	6.9	40.0	—	—	—
5 .....	13.12	4.8	40.0	13.12	4.8	40.0	—	—	—
7 .....	18.65	3.1	40.0	18.65	3.1	40.0	—	—	—
Punching and stamping press operators .....	12.08	3.0	39.8	12.08	3.0	39.8	—	—	—
1 .....	8.54	7.0	39.0	8.54	7.0	39.0	—	—	—
2 .....	9.14	2.6	39.4	9.14	2.6	39.4	—	—	—
3 .....	13.73	5.6	40.0	13.73	5.6	40.0	—	—	—
4 .....	13.62	4.0	40.0	13.62	4.0	40.0	—	—	—
5 .....	12.38	2.0	40.0	12.38	2.0	40.0	—	—	—
6 .....	15.04	3.7	39.7	15.04	3.7	39.7	—	—	—
7 .....	12.63	3.6	39.9	12.63	3.6	39.9	—	—	—
Rolling machine operators .....	13.46	6.1	40.3	13.46	6.1	40.3	—	—	—
3 .....	10.17	2.9	40.0	10.17	2.9	40.0	—	—	—
4 .....	12.40	5.3	40.0	12.40	5.3	40.0	—	—	—
5 .....	15.06	2.2	40.9	15.06	2.2	40.9	—	—	—
6 .....	17.49	3.6	40.0	17.49	3.6	40.0	—	—	—
Drilling and boring machine operators .....	11.39	12.2	40.0	11.38	12.2	40.0	—	—	—
3 .....	10.65	5.9	40.0	10.65	5.9	40.0	—	—	—
4 .....	14.46	6.1	39.9	14.46	6.1	39.9	—	—	—
5 .....	14.00	5.5	40.0	14.00	5.5	40.0	—	—	—
6 .....	14.73	2.2	40.0	14.73	2.2	40.0	—	—	—
7 .....	17.30	7.8	40.0	17.33	8.0	40.0	—	—	—
Grinding, abrading, buffing, and polishing machine operators .....	11.58	2.9	39.9	11.58	2.9	39.9	—	—	—
1 .....	8.28	2.8	39.9	8.28	2.8	39.9	—	—	—
2 .....	8.78	4.7	39.4	8.78	4.7	39.4	—	—	—
3 .....	12.02	7.2	39.9	12.02	7.2	39.9	—	—	—
4 .....	12.29	3.2	40.0	12.29	3.2	40.0	—	—	—
5 .....	12.48	3.3	40.0	12.48	3.3	40.0	—	—	—
6 .....	16.13	6.7	40.0	16.13	6.7	40.0	—	—	—
7 .....	14.70	10.3	40.0	14.70	10.3	40.0	—	—	—
Forging machine operators .....	12.86	4.5	39.9	12.86	4.5	39.9	—	—	—
4 .....	11.74	4.3	39.5	11.74	4.3	39.5	—	—	—
5 .....	12.30	4.4	40.0	12.30	4.4	40.0	—	—	—
6 .....	14.54	3.5	40.0	14.54	3.5	40.0	—	—	—
Numerical control machine operators .....	13.57	2.1	40.0	13.56	2.1	40.0	—	—	—
2 .....	9.69	2.8	40.0	9.69	2.8	40.0	—	—	—
3 .....	10.35	4.7	40.0	10.35	4.7	40.0	—	—	—
4 .....	14.33	3.3	40.0	14.33	3.3	40.0	—	—	—
5 .....	13.06	1.9	40.0	13.03	1.9	40.0	—	—	—
6 .....	14.09	3.3	40.0	14.09	3.3	40.0	—	—	—
7 .....	17.28	3.9	40.0	17.28	3.9	40.0	—	—	—
Fabricating machine operators, n.e.c. ....	13.29	2.3	40.0	13.29	2.3	40.0	—	—	—
1 .....	7.48	2.6	40.0	7.48	2.6	40.0	—	—	—
2 .....	8.59	4.1	40.1	8.59	4.1	40.1	—	—	—
3 .....	13.84	6.3	40.0	13.84	6.3	40.0	—	—	—
4 .....	13.97	3.8	40.1	13.97	3.8	40.1	—	—	—
5 .....	12.78	4.3	40.1	12.78	4.3	40.1	—	—	—

See footnotes at end of table.

Table 2-4. Selected occupations<sup>1</sup> and levels:<sup>2</sup> Mean hourly earnings<sup>3</sup> and weekly hours, private industry and State and local government, National Compensation Survey,<sup>4</sup> 1998—Continued

Occupation and level	Total			Private industry			State and local government		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)	
<b>Blue collar—Continued</b>									
<b>Machine operators, assemblers, and inspectors—Continued</b>									
Fabricating machine operators, n.e.c.—Continued									
6 .....	\$15.57	3.5	40.1	\$15.57	3.5	40.1	—	—	—
7 .....	14.71	10.8	40.0	14.71	10.8	40.0	—	—	—
Molding and casting machine operators .....	10.36	2.9	39.8	10.36	2.9	39.8	—	—	—
1 .....	7.78	7.6	39.8	7.78	7.6	39.8	—	—	—
2 .....	8.55	4.3	39.6	8.55	4.3	39.6	—	—	—
3 .....	9.95	3.4	40.0	9.95	3.4	40.0	—	—	—
4 .....	11.53	4.2	39.9	11.53	4.2	39.9	—	—	—
5 .....	13.44	5.2	40.3	13.44	5.2	40.3	—	—	—
6 .....	14.08	1.7	39.8	14.08	1.7	39.8	—	—	—
7 .....	14.51	3.2	39.7	14.51	3.2	39.7	—	—	—
Metal plating machine operators .....	11.98	3.3	40.0	11.98	3.3	40.0	—	—	—
2 .....	9.18	5.8	40.0	9.18	5.8	40.0	—	—	—
3 .....	9.26	7.7	38.6	9.26	7.7	38.6	—	—	—
4 .....	12.79	4.5	40.7	12.79	4.5	40.7	—	—	—
5 .....	12.54	3.7	40.3	12.54	3.7	40.3	—	—	—
7 .....	17.05	5.3	40.0	17.05	5.3	40.0	—	—	—
Heat treating equipment operators .....	13.78	2.4	40.0	13.78	2.4	40.0	—	—	—
2 .....	10.84	16.2	40.0	10.84	16.2	40.0	—	—	—
3 .....	13.67	13.1	40.0	13.67	13.1	40.0	—	—	—
5 .....	16.20	4.2	40.0	16.20	4.2	40.0	—	—	—
Wood lathe, routing, and planing machine operators .....	10.60	11.3	37.1	10.60	11.3	37.1	—	—	—
3 .....	10.12	1.1	40.0	10.12	1.1	40.0	—	—	—
4 .....	14.81	16.6	37.7	14.81	16.6	37.7	—	—	—
Sawing machine operators .....	9.14	5.2	39.7	9.14	5.2	39.7	—	—	—
1 .....	9.12	8.2	37.2	9.12	8.2	37.2	—	—	—
3 .....	8.52	4.3	40.0	8.52	4.3	40.0	—	—	—
4 .....	8.49	20.1	40.0	8.49	20.1	40.0	—	—	—
Shaping and jointing machine operators .....	9.73	6.8	39.9	9.73	6.8	39.9	—	—	—
4 .....	10.18	9.5	40.0	10.18	9.5	40.0	—	—	—
Nailing and tacking machine operators .....	9.91	2.3	40.0	9.91	2.3	40.0	—	—	—
Printing press operators .....	14.64	3.2	39.2	14.74	3.4	39.3	\$11.94	4.3	37.9
1 .....	8.25	9.2	33.9	8.25	9.2	33.9	—	—	—
2 .....	8.61	4.0	38.5	8.54	3.7	38.4	—	—	—
3 .....	10.92	2.6	39.6	10.97	2.9	39.6	—	—	—
4 .....	12.54	6.4	39.6	12.59	6.9	39.8	11.84	3.7	37.0
5 .....	13.27	6.1	39.7	13.27	6.3	39.8	—	—	—
6 .....	16.81	7.0	38.9	16.79	7.1	38.9	—	—	—
7 .....	18.86	2.3	39.3	18.93	2.3	39.3	—	—	—
8 .....	19.20	8.5	38.6	19.20	8.5	38.6	—	—	—
9 .....	22.73	4.8	37.2	22.73	4.8	37.2	—	—	—
Photoengravers and lithographers .....	15.22	3.0	38.6	15.22	3.0	38.6	—	—	—
2 .....	8.19	5.0	35.7	8.19	5.0	35.7	—	—	—
3 .....	10.40	4.9	38.5	10.40	4.9	38.5	—	—	—
4 .....	14.30	10.2	38.0	14.30	10.2	38.0	—	—	—
5 .....	13.91	3.0	39.4	13.91	3.0	39.4	—	—	—
6 .....	16.05	3.4	38.9	16.05	3.4	38.9	—	—	—
7 .....	18.04	3.4	38.8	18.04	3.4	38.8	—	—	—
Typesetters and compositors .....	13.22	4.7	37.7	12.92	4.3	37.8	—	—	—
2 .....	8.85	5.0	31.8	8.85	5.0	31.8	—	—	—
4 .....	12.70	11.1	37.9	12.70	11.1	37.9	—	—	—
5 .....	12.61	6.4	37.6	12.59	6.6	37.6	—	—	—
7 .....	16.36	6.0	37.7	15.38	4.6	38.0	—	—	—
Winding and twisting machine operators .....	11.01	7.3	39.9	11.01	7.3	39.9	—	—	—
1 .....	8.44	4.0	39.7	8.44	4.0	39.7	—	—	—
2 .....	9.04	5.0	39.8	9.04	5.0	39.8	—	—	—
3 .....	10.52	1.8	39.8	10.52	1.8	39.8	—	—	—

See footnotes at end of table.

Table 2-4. Selected occupations<sup>1</sup> and levels:<sup>2</sup> Mean hourly earnings<sup>3</sup> and weekly hours, private industry and State and local government, National Compensation Survey,<sup>4</sup> 1998—Continued

Occupation and level	Total			Private industry			State and local government		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)	
<b>Blue collar—Continued</b>									
<b>Machine operators, assemblers, and inspectors—Continued</b>									
Winding and twisting machine operators—Continued									
5 .....	\$11.64	4.2	39.4	\$11.64	4.2	39.4	—	—	—
Knitting, looping, taping, and weaving machine operators .....	10.10	1.9	40.0	10.10	1.9	40.0	—	—	—
1 .....	9.05	10.8	41.0	9.05	10.8	41.0	—	—	—
3 .....	10.32	2.2	39.9	10.32	2.2	39.9	—	—	—
4 .....	10.65	3.0	40.0	10.65	3.0	40.0	—	—	—
5 .....	12.52	5.1	40.0	12.52	5.1	40.0	—	—	—
Textile cutting machine operators .....	8.94	5.4	40.0	8.94	5.4	40.0	—	—	—
1 .....	7.76	4.3	40.0	7.76	4.3	40.0	—	—	—
2 .....	8.89	7.3	40.0	8.89	7.3	40.0	—	—	—
3 .....	8.00	5.8	40.0	8.00	5.8	40.0	—	—	—
4 .....	11.20	7.3	39.7	11.20	7.3	39.7	—	—	—
Textile sewing machine operators .....	7.98	2.7	39.7	7.98	2.7	39.7	—	—	—
1 .....	7.58	6.1	39.9	7.58	6.1	39.9	—	—	—
2 .....	7.49	3.3	39.5	7.49	3.3	39.5	—	—	—
3 .....	8.38	7.2	39.8	8.38	7.2	39.8	—	—	—
4 .....	10.57	11.5	39.5	10.56	11.6	39.5	—	—	—
5 .....	10.21	11.7	40.0	10.21	11.7	40.0	—	—	—
Shoe machine operators .....	9.11	8.6	39.9	9.11	8.6	39.9	—	—	—
2 .....	9.79	8.2	40.0	9.79	8.2	40.0	—	—	—
Pressing machine operators .....	7.97	6.3	39.2	7.97	6.3	39.2	—	—	—
1 .....	6.57	6.1	39.8	6.57	6.1	39.8	—	—	—
3 .....	8.52	6.4	39.5	8.52	6.4	39.5	—	—	—
Laundering and dry cleaning machine operators .....	7.44	1.7	36.5	7.33	1.7	36.4	\$8.67	6.2	37.5
1 .....	7.19	1.9	36.5	7.05	1.7	36.4	8.37	8.6	37.8
2 .....	7.33	4.6	35.8	7.19	4.6	35.8	9.21	9.2	37.0
3 .....	8.30	3.7	37.9	8.29	3.9	37.8	—	—	—
4 .....	8.98	9.2	34.2	8.51	8.1	35.1	—	—	—
Cementing and gluing machine operators .....	9.58	9.5	40.0	9.58	9.5	40.0	—	—	—
3 .....	9.84	9.2	40.0	9.84	9.2	40.0	—	—	—
4 .....	11.80	3.3	40.0	11.80	3.3	40.0	—	—	—
Packaging and filling machine operators .....	10.55	4.3	39.4	10.55	4.3	39.4	—	—	—
1 .....	7.95	5.0	39.4	7.95	5.0	39.4	—	—	—
2 .....	8.96	6.7	39.6	8.96	6.7	39.6	—	—	—
3 .....	10.00	8.8	38.8	10.00	8.8	38.8	—	—	—
4 .....	11.50	9.2	39.7	11.50	9.2	39.7	—	—	—
5 .....	16.33	5.0	40.0	16.33	5.0	40.0	—	—	—
6 .....	16.05	6.6	40.0	16.05	6.6	40.0	—	—	—
7 .....	19.70	3.6	39.6	19.70	3.6	39.6	—	—	—
Extruding and forming machine operators .....	11.28	2.7	39.8	11.28	2.7	39.8	—	—	—
1 .....	7.36	1.7	39.4	7.36	1.7	39.4	—	—	—
2 .....	9.40	3.7	39.8	9.40	3.7	39.8	—	—	—
3 .....	12.58	4.6	40.0	12.58	4.6	40.0	—	—	—
4 .....	11.33	2.0	40.0	11.33	2.0	40.0	—	—	—
5 .....	12.14	10.2	39.9	12.14	10.2	39.9	—	—	—
6 .....	13.37	2.4	38.0	13.37	2.4	38.0	—	—	—
7 .....	16.41	2.3	40.0	16.41	2.3	40.0	—	—	—
Mixing and blending machine operators .....	13.28	2.8	39.9	13.28	2.8	39.9	—	—	—
1 .....	9.03	10.6	39.1	9.03	10.6	39.1	—	—	—
2 .....	10.25	4.7	40.1	10.25	4.7	40.1	—	—	—
3 .....	12.03	6.6	40.0	12.03	6.6	40.0	—	—	—
4 .....	13.48	6.5	40.0	13.48	6.5	40.0	—	—	—
5 .....	15.55	2.8	39.6	15.55	2.8	39.6	—	—	—
6 .....	16.45	6.5	40.1	16.45	6.5	40.1	—	—	—
7 .....	17.37	6.0	40.2	17.37	6.0	40.2	—	—	—
Separating, filtering, and clarifying machine operators .....	15.83	3.7	39.8	15.83	3.8	39.8	—	—	—

See footnotes at end of table.

Table 2-4. Selected occupations<sup>1</sup> and levels:<sup>2</sup> Mean hourly earnings<sup>3</sup> and weekly hours, private industry and State and local government, National Compensation Survey,<sup>4</sup> 1998—Continued

Occupation and level	Total			Private industry			State and local government		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)	
<b>Blue collar—Continued</b>									
<b>Machine operators, assemblers, and inspectors—Continued</b>									
Separating, filtering, and clarifying machine operators—Continued									
3 .....	\$15.67	4.2	40.0	\$15.67	4.2	40.0	—	—	—
4 .....	13.61	8.3	39.5	13.61	8.3	39.5	—	—	—
5 .....	15.39	4.0	40.1	15.39	4.0	40.1	—	—	—
6 .....	17.83	3.9	39.7	17.83	3.9	39.7	—	—	—
7 .....	18.86	3.3	39.7	19.06	3.3	39.7	—	—	—
8 .....	17.06	7.1	40.0	17.06	7.1	40.0	—	—	—
Compressing and compacting machine operators .....									
1 .....	10.40	2.1	39.5	10.41	2.2	39.7	—	—	—
2 .....	8.27	11.1	34.5	8.27	11.1	34.5	—	—	—
3 .....	10.53	3.9	39.9	10.53	3.9	39.9	—	—	—
4 .....	10.75	6.4	39.0	10.86	6.7	40.0	—	—	—
Painting and paint spraying machine operators									
2 .....	12.11	2.9	40.2	12.10	2.9	40.2	—	—	—
3 .....	10.26	7.4	39.9	10.26	7.4	39.9	—	—	—
4 .....	12.74	3.8	40.0	12.74	3.8	40.0	—	—	—
5 .....	12.30	4.4	40.3	12.30	4.4	40.3	—	—	—
6 .....	13.35	6.1	40.9	13.35	6.1	40.9	—	—	—
7 .....	15.01	2.2	40.0	14.95	2.2	40.0	—	—	—
Roasting and baking machine operators, food ..									
5 .....	15.82	6.4	40.8	15.82	6.4	40.8	—	—	—
5 .....	11.61	5.5	39.4	11.61	5.5	39.4	—	—	—
5 .....	13.26	7.0	40.0	13.26	7.0	40.0	—	—	—
Washing, cleaning, and pickling machine operators .....									
1 .....	10.91	9.4	36.5	10.91	9.4	36.5	—	—	—
3 .....	7.19	7.0	29.5	7.19	7.0	29.5	—	—	—
3 .....	13.15	12.3	40.4	13.15	12.3	40.4	—	—	—
Folding machine operators .....									
2 .....	11.34	4.0	39.7	11.34	4.0	39.7	—	—	—
3 .....	10.39	11.1	40.0	10.39	11.1	40.0	—	—	—
4 .....	10.50	6.3	38.9	10.50	6.3	38.9	—	—	—
5 .....	11.02	3.6	39.9	11.02	3.6	39.9	—	—	—
5 .....	14.33	7.5	40.0	14.33	7.5	40.0	—	—	—
Furnace, kiln, and oven operators, except food									
2 .....	13.68	4.4	39.9	13.53	4.7	39.9	\$15.67	3.6	39.5
3 .....	8.91	3.2	39.7	8.91	3.2	39.7	—	—	—
4 .....	12.51	13.1	40.0	12.51	13.1	40.0	—	—	—
5 .....	12.97	5.3	39.8	12.72	5.8	40.1	—	—	—
6 .....	15.15	6.9	39.6	15.17	7.5	39.6	—	—	—
7 .....	15.68	2.9	40.0	15.67	3.4	40.0	—	—	—
7 .....	19.31	5.2	40.0	19.25	6.2	40.0	—	—	—
Crushing and grinding machine operators .....									
1 .....	11.89	5.7	39.9	11.89	5.7	39.9	—	—	—
2 .....	7.18	10.3	40.0	7.18	10.3	40.0	—	—	—
3 .....	10.30	7.9	40.0	10.30	7.9	40.0	—	—	—
4 .....	12.30	7.5	39.8	12.30	7.5	39.8	—	—	—
5 .....	13.44	6.0	40.0	13.44	6.0	40.0	—	—	—
5 .....	13.92	8.5	40.0	13.92	8.5	40.0	—	—	—
Slicing and cutting machine operators .....									
1 .....	12.65	3.6	39.9	12.65	3.6	39.9	—	—	—
2 .....	8.11	6.5	40.0	8.11	6.5	40.0	—	—	—
3 .....	9.55	4.6	39.2	9.55	4.6	39.2	—	—	—
4 .....	10.73	3.0	39.9	10.73	3.0	39.9	—	—	—
5 .....	13.02	2.9	40.0	13.02	2.9	40.0	—	—	—
6 .....	14.46	1.3	40.0	14.46	1.3	40.0	—	—	—
7 .....	14.89	3.2	40.0	14.89	3.2	40.0	—	—	—
7 .....	17.62	8.2	40.0	17.62	8.2	40.0	—	—	—
Motion picture projectionists .....									
1 .....	13.07	9.6	25.9	13.07	9.6	25.9	—	—	—
Photographic process machine operators .....									
1 .....	10.42	2.9	38.0	10.42	2.9	37.9	—	—	—
2 .....	7.49	5.5	35.2	7.49	5.5	35.2	—	—	—
3 .....	8.09	5.2	38.4	8.09	5.2	38.4	—	—	—
4 .....	9.43	7.8	36.5	9.45	7.8	36.5	—	—	—
5 .....	10.88	3.9	38.5	10.88	3.9	38.5	—	—	—
5 .....	12.84	4.5	39.1	12.84	4.5	39.1	—	—	—

See footnotes at end of table.

Table 2-4. Selected occupations<sup>1</sup> and levels:<sup>2</sup> Mean hourly earnings<sup>3</sup> and weekly hours, private industry and State and local government, National Compensation Survey,<sup>4</sup> 1998—Continued

Occupation and level	Total			Private industry			State and local government		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)	
<b>Blue collar</b> —Continued									
<b>Machine operators, assemblers, and inspectors</b> —Continued									
Photographic process machine operators —Continued									
7 .....	\$15.80	4.0	40.0	\$15.80	4.0	40.0	—	—	—
Miscellaneous machine operators, n.e.c. ....	11.97	2.6	39.7	11.95	2.6	39.7	\$14.71	12.5	38.8
1 .....	7.98	4.9	38.2	7.98	4.9	38.3	—	—	—
2 .....	9.10	1.6	39.6	9.11	1.6	39.6	—	—	—
3 .....	10.01	4.3	39.9	10.01	4.3	39.9	—	—	—
4 .....	13.19	1.9	39.9	13.22	1.9	39.9	10.47	11.4	39.3
5 .....	14.57	1.4	39.9	14.57	1.4	39.9	—	—	—
6 .....	16.21	2.4	40.0	16.23	2.4	40.0	—	—	—
7 .....	18.13	2.7	39.8	17.95	2.8	39.9	—	—	—
Not able to be leveled .....	14.68	6.5	37.1	14.68	6.5	37.1	—	—	—
Welders and cutters .....	14.19	1.9	40.0	14.06	1.9	40.0	18.88	7.5	40.0
1 .....	8.15	9.3	35.8	8.15	9.3	35.8	—	—	—
2 .....	9.55	7.3	40.0	9.55	7.3	40.0	—	—	—
3 .....	13.56	5.7	40.1	13.56	5.7	40.1	—	—	—
4 .....	12.30	5.5	40.0	12.30	5.5	40.0	—	—	—
5 .....	13.60	2.3	40.1	13.60	2.3	40.1	—	—	—
6 .....	14.02	2.6	39.9	14.08	2.6	39.9	—	—	—
7 .....	17.98	2.2	39.9	17.71	2.2	39.9	20.00	6.2	40.0
8 .....	18.88	7.1	40.0	18.88	7.1	40.0	—	—	—
Solders and braziers .....	9.04	8.3	40.0	9.04	8.3	40.0	—	—	—
2 .....	8.35	5.2	40.0	8.35	5.2	40.0	—	—	—
3 .....	9.28	4.4	40.0	9.28	4.4	40.0	—	—	—
4 .....	11.45	3.7	40.0	11.45	3.7	40.0	—	—	—
5 .....	11.08	4.6	40.0	11.08	4.6	40.0	—	—	—
Assemblers .....	11.63	2.6	39.3	11.63	2.6	39.3	—	—	—
1 .....	7.31	2.1	37.4	7.31	2.1	37.4	—	—	—
2 .....	8.90	2.9	39.8	8.90	2.9	39.8	—	—	—
3 .....	14.91	2.3	39.9	14.91	2.3	39.9	—	—	—
4 .....	13.15	4.0	39.8	13.15	4.0	39.8	—	—	—
5 .....	13.16	3.4	39.8	13.16	3.4	39.8	—	—	—
6 .....	14.03	1.8	39.9	14.03	1.8	39.9	—	—	—
7 .....	16.46	2.6	40.0	16.46	2.6	40.0	—	—	—
Hand cutting and trimming .....	9.51	8.9	39.4	9.51	8.9	39.4	—	—	—
1 .....	6.28	7.4	38.9	6.28	7.4	38.9	—	—	—
2 .....	8.92	4.3	39.5	8.92	4.3	39.5	—	—	—
3 .....	11.79	5.6	39.4	11.79	5.6	39.4	—	—	—
4 .....	11.60	13.1	40.0	11.60	13.1	40.0	—	—	—
Hand molding, casting, and forming .....	12.13	9.9	40.0	12.13	9.9	40.0	—	—	—
2 .....	8.16	5.8	40.0	8.16	5.8	40.0	—	—	—
Hand painting, coating, and decorating .....	10.21	5.6	38.6	10.17	5.7	38.5	—	—	—
1 .....	7.79	3.8	36.9	7.79	3.8	36.9	—	—	—
2 .....	9.39	3.5	40.0	9.61	4.1	40.0	—	—	—
3 .....	9.61	14.4	35.1	9.61	14.4	35.1	—	—	—
4 .....	9.62	4.3	40.0	9.62	4.3	40.0	—	—	—
Hand engraving and printing .....	8.91	3.5	40.0	8.91	3.5	40.0	—	—	—
Miscellaneous hand working, n.e.c. ....	9.85	3.3	38.8	9.85	3.3	38.8	—	—	—
1 .....	7.38	2.5	37.0	7.38	2.5	37.0	—	—	—
2 .....	9.03	3.2	40.0	9.03	3.2	40.0	—	—	—
3 .....	12.05	5.3	39.3	12.05	5.3	39.3	—	—	—
4 .....	12.28	6.8	40.0	12.28	6.8	40.0	—	—	—
5 .....	13.78	5.8	40.0	13.78	5.8	40.0	—	—	—
Production inspectors, checkers and examiners	11.11	2.6	39.8	11.11	2.6	39.8	—	—	—
1 .....	7.58	4.8	39.6	7.58	4.8	39.6	—	—	—
2 .....	9.23	2.9	39.9	9.23	2.9	39.9	—	—	—
3 .....	10.80	5.6	39.7	10.80	5.6	39.7	—	—	—
4 .....	11.06	1.9	39.8	11.06	1.9	39.8	—	—	—
5 .....	12.07	3.0	40.1	12.07	3.0	40.1	—	—	—

See footnotes at end of table.

Table 2-4. Selected occupations<sup>1</sup> and levels:<sup>2</sup> Mean hourly earnings<sup>3</sup> and weekly hours, private industry and State and local government, National Compensation Survey,<sup>4</sup> 1998—Continued

Occupation and level	Total			Private industry			State and local government		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)	
<b>Blue collar—Continued</b>									
<b>Machine operators, assemblers, and inspectors—Continued</b>									
Production inspectors, checkers and examiners—Continued									
6 .....	\$15.16	4.3	39.9	\$15.16	4.3	39.9	—	—	—
7 .....	16.82	5.0	40.0	16.91	5.0	40.0	—	—	—
Production testers .....	11.73	3.4	39.8	11.73	3.4	39.8	—	—	—
1 .....	7.63	7.3	40.0	7.63	7.3	40.0	—	—	—
2 .....	8.94	2.3	40.0	8.94	2.3	40.0	—	—	—
3 .....	12.33	9.5	40.0	12.33	9.5	40.0	—	—	—
4 .....	11.42	4.8	39.2	11.42	4.8	39.2	—	—	—
5 .....	12.70	3.9	40.0	12.70	3.9	40.0	—	—	—
6 .....	15.64	4.2	40.1	15.64	4.2	40.1	—	—	—
7 .....	13.64	8.0	40.0	13.64	8.0	40.0	—	—	—
Production samplers and weighers .....	13.64	4.5	39.6	13.64	4.5	39.6	—	—	—
2 .....	8.89	12.1	40.0	8.89	12.1	40.0	—	—	—
3 .....	13.92	3.2	39.7	13.92	3.2	39.7	—	—	—
Graders and sorters, except agricultural .....	9.19	6.4	39.9	9.19	6.4	39.9	—	—	—
1 .....	8.04	7.8	39.9	8.04	7.8	39.9	—	—	—
2 .....	8.36	2.4	40.5	8.36	2.4	40.5	—	—	—
3 .....	10.73	4.9	39.5	10.73	4.9	39.5	—	—	—
Hand inspectors, n.e.c. ....	9.27	7.5	39.9	9.27	7.5	39.9	—	—	—
2 .....	9.04	5.2	39.9	9.04	5.2	39.9	—	—	—
3 .....	11.19	10.9	39.9	11.19	10.9	39.9	—	—	—
<b>Transportation and material moving .....</b>	<b>13.72</b>	<b>1.1</b>	<b>37.9</b>	<b>13.77</b>	<b>1.2</b>	<b>38.9</b>	<b>\$13.52</b>	<b>1.7</b>	<b>33.8</b>
1 .....	7.58	2.9	31.8	7.52	2.9	32.0	9.61	5.1	26.5
2 .....	9.77	2.1	34.0	9.47	2.5	34.9	11.55	2.9	29.7
3 .....	11.92	1.4	36.8	11.89	1.4	38.9	12.06	3.5	30.4
4 .....	13.84	1.6	38.6	13.96	1.8	39.5	13.23	3.2	34.2
5 .....	15.12	1.4	40.0	15.32	1.6	40.9	14.33	2.4	36.8
6 .....	16.71	2.1	43.2	17.08	2.0	44.1	14.79	6.0	39.3
7 .....	19.73	2.9	40.4	20.53	2.9	40.7	16.98	6.3	39.5
8 .....	24.13	2.5	42.7	24.48	2.8	43.3	22.25	6.2	39.9
9 .....	26.46	7.0	41.3	26.70	7.6	41.6	23.35	6.6	37.7
Supervisors, motor vehicle operators .....	16.46	5.2	41.1	16.66	4.0	41.8	16.11	12.5	39.9
4 .....	9.51	7.2	42.3	—	—	—	—	—	—
5 .....	13.08	4.4	40.2	13.42	4.7	40.2	—	—	—
6 .....	12.68	9.4	40.5	14.72	4.1	41.7	—	—	—
7 .....	19.18	4.1	41.8	19.58	5.0	42.7	18.28	6.4	40.0
8 .....	21.89	5.5	41.4	20.23	10.0	43.4	—	—	—
9 .....	22.68	5.3	41.7	21.17	4.5	42.7	—	—	—
Truck drivers .....	13.93	1.2	41.4	13.96	1.2	41.5	13.55	3.8	39.4
1 .....	7.81	3.1	34.9	7.79	3.2	35.1	—	—	—
2 .....	10.25	3.3	39.1	10.20	3.6	39.1	10.68	7.0	38.7
3 .....	12.31	2.9	40.4	12.04	2.8	40.5	14.36	9.7	39.5
4 .....	14.14	1.9	40.9	14.21	2.1	41.0	13.22	4.7	39.7
5 .....	15.45	1.9	42.3	15.53	2.0	42.5	13.91	3.0	39.5
6 .....	16.66	2.2	46.6	16.66	2.3	46.8	16.64	5.6	39.9
7 .....	17.62	7.4	41.2	17.86	8.0	41.4	16.56	6.8	40.0
Driver-sales workers .....	14.23	4.2	37.6	14.23	4.2	37.6	—	—	—
1 .....	6.30	6.4	28.8	6.30	6.4	28.8	—	—	—
2 .....	7.30	8.4	25.4	7.30	8.4	25.4	—	—	—
3 .....	11.66	5.3	41.1	11.54	5.4	41.2	—	—	—
4 .....	15.59	5.7	40.2	15.59	5.7	40.2	—	—	—
5 .....	15.58	4.7	42.1	15.58	4.7	42.1	—	—	—
6 .....	16.90	6.0	40.2	16.90	6.0	40.2	—	—	—
7 .....	19.09	7.8	42.1	19.09	7.8	42.1	—	—	—
Bus drivers .....	12.61	1.6	29.2	11.31	2.8	30.3	13.44	1.7	28.5
1 .....	9.67	6.9	23.9	—	—	—	10.40	5.7	23.0
2 .....	10.89	3.3	26.9	9.53	6.3	28.4	12.08	2.9	25.8

See footnotes at end of table.



Table 2-4. Selected occupations<sup>1</sup> and levels:<sup>2</sup> Mean hourly earnings<sup>3</sup> and weekly hours, private industry and State and local government, National Compensation Survey,<sup>4</sup> 1998—Continued

Occupation and level	Total			Private industry			State and local government		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)	
<b>Blue collar—Continued</b>									
<b>Transportation and material moving—Continued</b>									
Bus drivers—Continued									
3 .....	\$11.02	2.2	27.2	\$9.43	4.1	29.2	\$11.69	2.4	26.4
4 .....	13.62	2.9	30.5	12.60	4.2	31.9	14.53	3.1	29.4
5 .....	14.60	3.3	32.6	13.14	6.5	31.4	15.48	2.7	33.3
6 .....	15.20	4.5	35.3	—	—	—	15.43	4.6	36.3
7 .....	17.96	5.9	35.0	—	—	—	17.98	5.9	35.3
Taxicab drivers and chauffeurs .....									
1 .....	8.32	4.5	30.0	8.20	4.5	29.9	9.55	19.8	31.6
2 .....	7.13	8.2	27.5	7.13	8.2	27.9	—	—	—
3 .....	7.13	2.2	29.6	7.13	2.3	29.2	—	—	—
4 .....	10.91	15.5	32.9	11.07	19.1	35.8	10.69	25.6	29.7
5 .....	10.52	9.8	31.4	10.52	10.2	31.3	—	—	—
Parking lot attendants .....									
1 .....	7.04	4.3	28.2	7.01	4.3	28.1	—	—	—
2 .....	6.67	3.6	30.4	6.63	3.7	30.2	—	—	—
3 .....	6.88	9.2	22.4	6.88	9.2	22.5	—	—	—
4 .....	9.55	12.8	36.9	9.55	12.8	36.9	—	—	—
Motor transportation, n.e.c. ....									
1 .....	8.99	4.6	32.2	8.22	4.5	31.4	14.13	5.4	39.2
2 .....	6.24	3.1	27.7	6.24	3.2	27.6	—	—	—
3 .....	7.65	7.4	31.6	7.08	5.1	31.0	—	—	—
4 .....	10.48	7.7	35.5	10.28	8.2	35.4	12.54	11.5	36.6
5 .....	10.62	6.6	35.9	9.45	6.7	35.0	14.85	11.7	39.5
6 .....	14.16	9.5	40.0	—	—	—	14.69	5.0	40.0
7 .....	16.72	8.7	40.0	—	—	—	—	—	—
Railroad conductors and yardmasters .....									
7 .....	26.78	4.4	40.2	26.82	4.4	40.2	—	—	—
8 .....	27.03	4.3	40.0	27.10	4.4	40.0	—	—	—
Locomotive operating .....									
5 .....	27.74	8.4	40.7	30.26	8.1	40.9	19.46	3.3	39.9
6 .....	17.93	3.8	40.0	15.45	7.1	40.0	—	—	—
7 .....	36.37	5.1	40.0	36.37	5.1	40.0	—	—	—
Railroad brake, signal and switch operators .....									
7 .....	23.30	10.2	40.0	23.65	10.9	40.0	—	—	—
8 .....	27.00	5.7	40.0	27.24	5.7	40.0	—	—	—
Rail vehicle operators, n.e.c. ....									
7 .....	21.02	4.4	40.0	22.32	3.9	40.0	—	—	—
8 .....	22.36	3.9	40.0	22.36	3.9	40.0	—	—	—
Ship captains and mates, except fishing boats ..									
7 .....	16.30	3.8	47.6	16.04	3.9	48.0	21.56	10.2	40.0
8 .....	17.96	7.3	39.5	17.50	8.1	39.4	—	—	—
9 .....	17.26	6.4	60.7	17.26	6.4	60.7	—	—	—
10 .....	17.39	6.8	51.2	17.05	6.2	51.5	—	—	—
Sailors and deckhands .....									
1 .....	11.39	8.0	43.3	10.69	8.7	44.3	—	—	—
2 .....	6.51	4.2	58.4	6.51	4.2	58.4	—	—	—
3 .....	13.25	14.3	33.5	13.27	15.0	34.1	—	—	—
4 .....	15.97	4.2	38.8	—	—	—	—	—	—
Bridge, lock and lighthouse tenders .....									
5 .....	11.16	2.1	40.0	—	—	—	11.16	2.1	40.0
Supervisors, material moving equipment .....									
5 .....	18.74	6.2	40.4	19.16	6.0	40.5	14.40	10.4	39.3
6 .....	12.21	5.0	43.0	12.77	2.8	44.3	—	—	—
7 .....	15.98	6.3	39.8	15.78	8.4	40.2	—	—	—
8 .....	16.52	2.6	40.6	16.73	2.4	40.6	—	—	—
9 .....	24.58	4.5	40.0	25.61	2.8	40.0	—	—	—
Operating engineers .....									
2 .....	17.33	8.1	40.0	21.57	4.4	40.0	13.42	7.8	40.0
3 .....	10.24	8.2	40.0	—	—	—	—	—	—
4 .....	16.08	22.8	40.0	—	—	—	11.64	12.1	40.0
5 .....	15.72	5.6	40.0	18.59	2.2	40.0	13.90	6.7	40.0
6 .....	19.40	7.1	39.9	22.52	6.1	39.8	15.83	4.7	40.0
7 .....	21.72	3.2	39.9	22.45	2.7	40.0	19.27	4.4	39.8
Longshore equipment operators .....									
1 .....	26.96	7.6	37.5	27.40	6.8	37.4	—	—	—
Hoist and winch operators .....									
1 .....	12.94	5.5	40.9	12.94	5.5	40.9	—	—	—
Crane and tower operators .....									
2 .....	15.61	3.3	40.1	15.55	3.4	40.1	—	—	—
3 .....	9.44	4.5	40.0	9.44	4.5	40.0	—	—	—
4 .....	13.23	5.8	40.0	13.23	5.8	40.0	—	—	—
5 .....	14.35	4.7	40.0	14.39	4.8	40.0	—	—	—
6 .....	15.33	4.1	40.6	15.33	4.1	40.6	—	—	—
7 .....	19.62	4.1	40.0	19.51	4.5	40.0	—	—	—
8 .....	18.56	11.9	40.0	18.47	12.4	40.0	—	—	—

See footnotes at end of table.

Table 2-4. Selected occupations<sup>1</sup> and levels:<sup>2</sup> Mean hourly earnings<sup>3</sup> and weekly hours, private industry and State and local government, National Compensation Survey,<sup>4</sup> 1998—Continued

Occupation and level	Total			Private industry			State and local government		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)	
<b>Blue collar—Continued</b>									
<b>Transportation and material moving—Continued</b>									
Excavating and loading machine operators .....	\$14.17	4.3	40.0	\$14.74	5.1	40.1	\$12.68	8.9	40.0
2 .....	11.94	15.8	40.0	—	—	—	—	—	—
3 .....	10.70	7.2	39.9	11.25	9.0	40.0	—	—	—
4 .....	11.89	8.1	40.1	12.96	9.4	40.2	10.85	9.0	40.0
5 .....	15.12	6.4	40.1	15.52	7.1	40.1	12.50	7.4	40.0
6 .....	16.68	6.8	40.0	16.58	8.1	40.0	—	—	—
7 .....	16.66	4.8	40.0	18.96	6.1	40.0	—	—	—
Grader, dozer, and scrapper operators .....	13.46	6.4	40.0	14.69	9.1	40.2	12.63	8.5	39.9
2 .....	9.96	7.0	40.0	—	—	—	—	—	—
3 .....	10.33	2.5	40.0	—	—	—	10.04	7.3	40.0
4 .....	10.35	3.4	40.0	11.32	2.5	40.0	9.84	5.4	40.0
5 .....	12.18	9.2	40.1	14.35	16.5	40.4	10.99	7.8	39.9
6 .....	17.52	10.3	40.0	—	—	—	14.62	4.7	40.0
7 .....	17.26	12.5	40.1	20.89	10.2	40.8	15.98	16.5	39.8
Industrial truck and tractor equipment operators	12.10	1.8	39.8	12.11	1.9	39.8	11.00	3.7	40.0
1 .....	9.86	7.4	40.0	9.88	7.6	40.0	—	—	—
2 .....	9.66	1.9	39.4	9.66	2.0	39.4	—	—	—
3 .....	11.92	1.5	39.8	11.93	1.5	39.8	—	—	—
4 .....	12.97	2.8	39.8	13.00	2.8	39.8	—	—	—
5 .....	14.79	4.5	40.0	14.94	4.6	40.0	—	—	—
7 .....	16.12	5.3	39.7	16.35	5.7	39.7	—	—	—
Miscellaneous material moving equipment operators, n.e.c. ....	14.33	3.0	37.8	14.66	3.5	37.5	12.99	3.8	39.1
1 .....	9.40	10.2	29.5	9.40	10.2	29.5	—	—	—
2 .....	11.93	5.8	36.1	11.99	5.7	36.1	—	—	—
3 .....	14.45	5.5	38.7	14.97	5.6	38.7	10.05	6.9	39.3
4 .....	14.72	7.6	39.5	15.42	7.9	39.5	10.93	3.4	39.5
5 .....	16.03	2.4	38.2	17.04	3.1	38.1	14.66	3.1	38.3
6 .....	14.94	7.3	39.0	—	—	—	11.13	6.3	39.9
7 .....	19.15	5.5	40.0	20.26	6.9	39.9	18.15	7.5	40.0
<b>Handlers, equipment cleaners, helpers, and laborers</b> .....	9.69	.7	35.9	9.52	.7	35.7	11.84	2.0	38.4
1 .....	7.76	1.3	33.2	7.69	1.4	33.1	9.49	5.4	36.3
2 .....	9.07	1.1	36.8	9.05	1.2	36.8	9.35	3.2	38.2
3 .....	10.92	1.7	37.7	10.90	1.9	37.7	11.21	2.4	38.6
4 .....	12.21	1.6	39.0	11.97	1.5	39.0	13.75	4.3	39.1
5 .....	14.06	2.1	39.2	13.99	2.5	39.1	14.35	2.9	39.8
6 .....	15.37	3.4	39.6	15.53	4.0	39.6	14.67	4.1	39.8
7 .....	16.42	4.3	40.1	16.06	5.2	40.2	17.72	3.1	40.0
8 .....	19.27	4.1	40.3	19.59	5.6	40.4	—	—	—
9 .....	20.58	6.2	40.6	22.03	9.8	40.9	—	—	—
Not able to be leveled .....	11.75	7.5	36.6	13.48	7.0	37.1	8.45	7.2	35.6
Nursery workers .....	7.31	3.4	37.9	7.28	3.5	38.0	—	—	—
1 .....	6.73	4.8	38.4	6.72	4.8	39.0	—	—	—
2 .....	7.70	4.8	37.3	7.70	4.8	37.3	—	—	—
Supervisors, agriculture-related workers .....	17.49	4.7	39.9	19.19	10.0	40.3	16.57	4.1	39.7
5 .....	12.46	2.3	40.2	—	—	—	12.33	2.2	40.0
6 .....	15.50	10.5	40.0	—	—	—	15.64	10.9	40.0
7 .....	18.25	3.7	40.1	18.41	4.8	40.6	18.20	4.6	40.0
9 .....	24.74	9.0	40.0	—	—	—	—	—	—
Groundskeepers and gardeners, except farm ...	9.31	5.2	38.4	8.45	3.9	38.8	11.29	2.9	37.7
1 .....	7.35	3.8	35.0	6.96	4.6	35.5	8.06	4.1	34.1
2 .....	—	—	—	—	—	—	8.81	6.7	38.0
3 .....	10.18	3.3	39.1	9.18	3.6	38.6	10.92	3.8	39.4
4 .....	11.79	3.4	38.3	10.45	4.0	39.0	13.31	4.6	37.6
5 .....	14.01	3.5	38.8	13.52	4.9	38.3	14.61	5.2	39.4
6 .....	16.19	5.0	39.6	—	—	—	16.40	5.5	39.6
7 .....	17.95	11.0	40.0	—	—	—	18.20	12.9	40.0
Animal caretakers, except farm .....	10.22	5.8	38.2	9.74	11.3	36.9	10.68	11.0	39.5

See footnotes at end of table.

Table 2-4. Selected occupations<sup>1</sup> and levels:<sup>2</sup> Mean hourly earnings<sup>3</sup> and weekly hours, private industry and State and local government, National Compensation Survey,<sup>4</sup> 1998—Continued

Occupation and level	Total			Private industry			State and local government		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)	
<b>Blue collar—Continued</b>									
<b>Handlers, equipment cleaners, helpers, and laborers—Continued</b>									
Animal caretakers, except farm—Continued									
2 .....	\$8.27	6.1	39.7	—	—	—	\$8.48	7.3	40.0
3 .....	7.41	12.7	38.6	—	—	—	—	—	—
4 .....	12.07	5.5	38.3	\$8.71	7.7	38.6	—	—	—
Inspectors, agricultural products .....	7.84	6.1	37.4	7.84	6.1	37.4	—	—	—
1 .....	7.19	1.8	37.1	7.19	1.8	37.1	—	—	—
Supervisors, handlers, equipment cleaners, and laborers, n.e.c. ....	14.57	2.6	39.8	14.37	2.7	39.8	15.63	4.7	40.0
3 .....	9.94	10.3	40.5	9.94	10.3	40.5	—	—	—
4 .....	12.51	6.2	39.4	12.19	6.9	39.3	—	—	—
5 .....	13.80	4.0	39.0	13.44	3.9	38.8	14.98	10.0	39.9
6 .....	13.84	5.1	39.6	14.21	6.4	39.5	11.46	4.0	40.0
7 .....	15.84	6.2	40.4	15.49	6.7	40.4	18.12	2.7	40.0
8 .....	20.17	4.1	40.4	21.00	5.8	40.6	—	—	—
Helpers, mechanics and repairers .....	11.69	4.4	39.1	11.40	5.8	39.3	12.80	6.0	38.5
1 .....	9.26	12.7	37.6	9.01	14.0	37.5	—	—	—
2 .....	9.07	4.8	38.3	8.94	5.7	38.8	9.68	6.0	36.2
3 .....	12.04	7.2	39.8	11.86	8.4	40.2	14.03	10.3	36.2
4 .....	12.40	5.3	39.7	11.95	7.0	40.2	13.57	5.6	38.4
5 .....	15.50	7.1	38.7	16.33	10.1	37.5	14.60	6.1	40.0
Helpers, construction trades .....	10.46	3.8	39.3	10.38	4.1	39.2	11.16	5.1	40.0
1 .....	8.57	5.2	37.2	8.67	5.2	37.0	—	—	—
2 .....	9.12	3.4	39.9	9.16	3.6	39.9	8.62	6.1	40.0
3 .....	11.50	8.5	39.8	11.46	9.3	39.8	12.00	11.2	40.0
4 .....	11.98	9.4	40.0	12.01	11.8	40.0	11.83	5.8	40.0
5 .....	13.65	6.0	39.2	13.48	7.5	38.9	—	—	—
Helpers, extractive .....	15.17	11.8	38.7	15.17	11.8	38.7	—	—	—
Construction laborers .....	11.34	2.8	39.4	11.37	3.4	39.5	11.19	4.0	38.9
1 .....	8.74	6.8	39.4	8.79	7.6	39.5	8.33	7.0	38.6
2 .....	10.01	6.9	38.9	10.25	8.2	39.4	9.25	8.7	37.4
3 .....	12.42	4.7	39.5	12.59	6.1	39.4	11.93	4.0	39.6
4 .....	13.95	3.3	39.7	14.50	4.7	39.6	12.87	4.3	40.0
5 .....	16.97	3.2	40.1	17.46	3.7	40.1	15.28	3.7	40.0
6 .....	16.32	3.8	40.0	16.57	3.9	40.0	—	—	—
7 .....	16.45	4.5	40.0	—	—	—	—	—	—
Production helpers .....	9.75	3.5	39.0	9.75	3.5	39.1	10.44	8.4	23.8
1 .....	8.06	4.3	38.6	8.05	4.3	38.8	—	—	—
2 .....	9.16	5.5	38.9	9.16	5.5	38.9	—	—	—
3 .....	10.47	3.0	39.2	10.48	3.1	39.5	9.97	11.5	24.9
4 .....	11.39	3.5	39.4	11.37	3.6	39.4	—	—	—
5 .....	13.93	7.3	40.0	13.93	7.3	40.0	—	—	—
Garbage collectors .....	12.63	11.7	39.6	9.26	8.1	39.6	13.63	11.2	39.6
1 .....	9.99	8.6	39.1	8.59	3.3	39.1	10.79	10.8	39.1
2 .....	11.49	9.1	40.2	—	—	—	11.90	10.6	39.4
3 .....	11.13	6.9	40.0	—	—	—	11.13	6.9	40.0
Stevedores .....	18.83	3.7	39.2	18.90	3.8	39.2	—	—	—
Stock handlers and baggers .....	8.64	1.4	29.9	8.63	1.4	29.8	10.80	4.9	38.2
1 .....	6.90	1.1	25.5	6.90	1.1	25.5	—	—	—
2 .....	8.34	2.1	32.1	8.34	2.1	32.1	—	—	—
3 .....	10.19	3.6	35.7	10.19	3.6	35.7	—	—	—
4 .....	12.16	2.6	38.9	12.20	2.6	38.9	—	—	—
5 .....	13.29	2.2	38.3	13.29	2.3	38.3	—	—	—
6 .....	15.87	7.9	39.2	15.87	7.9	39.2	—	—	—
Machine feeders and offbearers .....	9.37	2.6	39.3	9.38	2.6	39.3	—	—	—
1 .....	8.33	5.8	39.4	8.33	5.8	39.4	—	—	—
2 .....	9.42	2.5	38.9	9.45	2.6	38.9	—	—	—
3 .....	9.98	6.5	39.4	9.98	6.5	39.4	—	—	—
4 .....	12.00	5.0	39.7	12.00	5.0	39.7	—	—	—
5 .....	13.06	4.6	39.4	13.06	4.6	39.4	—	—	—

See footnotes at end of table.

Table 2-4. Selected occupations<sup>1</sup> and levels:<sup>2</sup> Mean hourly earnings<sup>3</sup> and weekly hours, private industry and State and local government, National Compensation Survey,<sup>4</sup> 1998—Continued

Occupation and level	Total			Private industry			State and local government		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)	
<b>Blue collar—Continued</b>									
<b>Handlers, equipment cleaners, helpers, and laborers—Continued</b>									
Freight, stock, and material handlers, n.e.c. ....	\$10.50	2.0	35.5	\$10.49	2.1	35.4	\$11.11	9.0	39.1
1 .....	8.13	3.4	33.9	8.11	3.4	33.9	—	—	—
2 .....	9.57	4.2	34.0	9.58	4.3	34.0	—	—	—
3 .....	12.37	3.3	36.5	12.38	3.3	36.5	—	—	—
4 .....	12.35	4.8	38.5	12.38	5.0	38.5	—	—	—
5 .....	12.96	7.4	39.4	12.93	7.5	39.4	—	—	—
6 .....	15.86	4.9	40.1	15.86	4.9	40.1	—	—	—
7 .....	18.94	3.9	38.6	18.95	3.9	38.6	—	—	—
Not able to be leveled .....	13.45	9.4	34.5	13.45	9.4	34.5	—	—	—
Garage and service station related .....	8.25	7.1	34.2	7.90	6.8	34.2	12.37	6.6	34.2
2 .....	8.10	4.7	36.4	7.82	4.1	36.0	—	—	—
3 .....	9.09	7.9	36.6	8.53	7.3	38.1	—	—	—
4 .....	11.10	4.6	40.0	10.80	4.7	40.0	—	—	—
Vehicle washers and equipment cleaners .....	8.86	3.2	37.4	8.81	3.2	37.4	11.57	7.5	37.4
1 .....	7.45	4.6	36.2	7.44	4.6	36.2	—	—	—
2 .....	9.63	3.5	38.9	9.62	3.5	38.9	—	—	—
3 .....	10.77	5.0	38.5	10.78	5.2	38.5	—	—	—
4 .....	12.33	4.2	39.8	12.14	4.8	39.9	—	—	—
5 .....	12.96	8.7	39.7	12.96	8.7	39.7	—	—	—
Hand packers and packagers .....	8.49	1.7	37.9	8.49	1.7	37.9	—	—	—
1 .....	7.53	2.3	37.0	7.53	2.3	37.0	—	—	—
2 .....	8.35	1.9	38.8	8.35	1.9	38.8	—	—	—
3 .....	10.35	4.5	38.8	10.35	4.5	38.8	—	—	—
4 .....	11.76	4.6	39.4	11.76	4.6	39.4	—	—	—
5 .....	11.87	6.9	39.8	11.87	6.9	39.8	—	—	—
Laborers, except construction, n.e.c. ....	9.57	1.3	37.8	9.39	1.4	37.8	11.17	3.2	38.1
1 .....	8.20	3.1	36.9	8.06	3.4	36.9	10.24	9.0	36.7
2 .....	9.82	2.8	38.4	9.85	3.0	38.4	9.55	5.9	38.2
3 .....	10.95	2.6	38.9	10.91	4.2	38.8	11.20	5.3	39.4
4 .....	11.52	3.1	38.8	11.21	3.5	38.7	13.64	3.1	39.8
5 .....	14.20	3.2	39.7	13.85	4.0	39.5	14.92	5.2	40.0
6 .....	14.10	3.9	39.8	13.89	4.6	39.8	—	—	—
7 .....	16.36	10.6	40.0	16.31	11.2	40.0	—	—	—
Not able to be leveled .....	10.72	11.9	33.2	11.28	14.0	36.2	—	—	—
<b>Service .....</b>	<b>9.52</b>	<b>.7</b>	<b>33.0</b>	<b>7.85</b>	<b>.6</b>	<b>31.8</b>	<b>13.84</b>	<b>1.3</b>	<b>36.7</b>
1 .....	6.57	.8	29.6	6.35	.9	29.5	8.30	1.7	30.0
2 .....	6.99	.6	31.6	6.66	.7	31.4	8.87	1.6	32.6
3 .....	8.20	.8	32.8	7.69	1.1	32.5	10.27	1.5	34.0
4 .....	9.92	.8	35.2	9.42	1.5	35.0	11.43	1.4	36.1
5 .....	12.65	1.9	36.4	12.33	3.1	34.0	12.91	2.6	38.8
6 .....	14.31	1.5	39.5	12.86	2.1	36.6	15.04	1.9	41.1
7 .....	17.99	1.3	39.3	17.81	3.1	35.5	18.06	1.4	41.1
8 .....	19.06	1.4	40.8	17.52	2.7	39.9	19.35	1.6	41.0
9 .....	22.37	1.7	41.2	18.38	7.7	42.0	22.59	1.7	41.2
10 .....	25.68	2.5	41.4	30.62	9.4	41.8	25.53	2.5	41.4
11 .....	28.49	5.8	41.6	21.28	16.6	45.9	29.16	5.7	41.2
12 .....	32.00	2.7	40.0	—	—	—	—	—	—
Not able to be leveled .....	14.89	7.4	33.9	11.63	6.5	31.3	18.45	8.9	37.2
Protective service .....	14.36	1.6	38.0	8.74	1.7	35.0	17.25	1.9	39.7
1 .....	6.81	2.6	33.6	6.65	2.5	35.3	8.44	4.8	22.2
2 .....	7.61	1.6	33.1	7.49	1.6	33.6	8.61	7.7	29.4
3 .....	8.41	2.6	34.5	8.12	3.5	35.6	10.74	4.6	27.7
4 .....	11.12	2.7	36.3	9.86	4.3	35.9	12.20	2.1	36.6
5 .....	12.76	2.7	38.5	11.29	3.6	35.1	13.08	3.6	39.4
6 .....	15.22	1.9	41.1	15.00	3.5	34.2	15.23	2.0	41.6
7 .....	18.20	1.4	40.8	16.75	5.2	32.1	18.27	1.5	41.3
8 .....	19.34	1.6	41.0	18.58	6.3	39.5	19.37	1.6	41.1
9 .....	22.56	1.7	41.2	20.16	5.8	40.0	22.57	1.7	41.2

See footnotes at end of table.

Table 2-4. Selected occupations<sup>1</sup> and levels:<sup>2</sup> Mean hourly earnings<sup>3</sup> and weekly hours, private industry and State and local government, National Compensation Survey,<sup>4</sup> 1998—Continued

Occupation and level	Total			Private industry			State and local government		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)	
<b>Service—Continued</b>									
Protective service—Continued									
10 .....	\$25.60	2.5	41.4	—	—	—	\$25.55	2.5	41.4
11 .....	29.08	5.5	41.2	—	—	—	29.16	5.7	41.2
12 .....	32.00	2.7	40.0	—	—	—	—	—	—
Not able to be leveled .....	16.33	9.1	36.8	\$11.56	12.7	34.0	19.34	7.5	38.8
Supervisors, firefighters and fire prevention .....	20.00	2.9	49.2	—	—	—	20.04	2.9	49.4
6 .....	11.61	7.3	52.0	—	—	—	11.61	7.3	52.0
7 .....	17.69	5.1	48.0	—	—	—	17.69	5.1	48.0
8 .....	16.72	3.9	49.5	—	—	—	16.84	4.1	50.4
9 .....	22.03	4.7	49.5	—	—	—	22.06	4.7	49.6
10 .....	21.08	5.6	49.2	—	—	—	20.90	5.7	49.1
11 .....	28.61	6.4	47.6	—	—	—	28.61	6.4	47.6
Supervisors, police and detectives .....	24.14	2.7	40.1	—	—	—	24.19	2.7	40.1
6 .....	15.97	11.8	40.0	—	—	—	16.11	12.1	40.0
7 .....	17.59	3.3	40.0	—	—	—	17.64	3.3	40.0
8 .....	20.34	7.0	40.2	—	—	—	20.34	7.0	40.2
9 .....	25.60	4.2	40.1	—	—	—	25.60	4.2	40.1
10 .....	27.79	2.8	40.3	—	—	—	27.79	2.8	40.3
11 .....	30.82	7.3	40.2	—	—	—	30.82	7.3	40.2
Supervisors, guards .....	15.49	7.1	38.4	13.42	5.3	38.7	18.97	11.8	37.9
4 .....	8.84	3.7	35.2	8.85	4.4	37.9	—	—	—
5 .....	9.93	4.6	37.8	9.96	4.7	37.7	—	—	—
6 .....	14.49	3.5	39.9	15.63	2.9	39.8	13.12	3.0	40.0
7 .....	16.35	9.9	38.8	16.29	5.6	40.0	16.41	19.0	37.7
8 .....	18.93	3.4	40.1	18.24	5.5	40.1	19.67	4.1	40.0
10 .....	28.88	1.4	39.9	—	—	—	—	—	—
Fire inspection and fire prevention .....	18.31	4.8	37.6	—	—	—	18.97	4.8	37.1
6 .....	19.85	4.0	39.0	—	—	—	19.26	4.3	38.7
7 .....	17.10	9.0	43.4	—	—	—	17.10	9.0	43.4
Firefighting .....	15.32	2.5	44.5	—	—	—	15.35	2.5	44.6
3 .....	9.42	28.1	11.8	—	—	—	9.42	28.1	11.8
4 .....	13.29	5.4	42.9	—	—	—	13.29	5.4	42.9
5 .....	14.08	5.3	43.8	—	—	—	14.07	5.3	43.8
6 .....	13.96	3.5	48.2	—	—	—	13.96	3.5	48.2
7 .....	16.91	3.3	46.8	—	—	—	16.99	3.2	47.0
8 .....	16.50	2.7	48.6	—	—	—	16.60	2.7	48.5
9 .....	22.11	5.9	46.7	—	—	—	22.11	5.9	46.7
Police and detectives, public service .....	19.49	1.4	39.5	10.30	13.9	32.5	19.54	1.4	39.6
3 .....	11.74	10.3	37.8	—	—	—	11.87	10.6	37.7
4 .....	13.36	4.8	37.0	—	—	—	13.36	4.8	37.0
5 .....	15.73	3.6	37.1	—	—	—	15.81	3.6	37.0
6 .....	17.10	3.4	39.4	—	—	—	17.09	3.4	39.7
7 .....	19.80	2.3	39.6	—	—	—	19.80	2.3	39.6
8 .....	20.15	1.7	40.0	—	—	—	20.15	1.7	40.0
9 .....	21.88	2.7	40.1	—	—	—	21.88	2.7	40.1
10 .....	25.59	6.0	40.0	—	—	—	25.59	6.0	40.0
Sheriffs, bailiffs, and other law enforcement officers .....	15.91	2.6	38.7	—	—	—	15.91	2.6	38.7
2 .....	5.75	4.5	34.9	—	—	—	5.75	4.5	34.9
3 .....	13.74	7.8	35.6	—	—	—	13.74	7.8	35.6
4 .....	13.27	5.2	35.2	—	—	—	13.27	5.2	35.2
5 .....	13.00	6.2	39.2	—	—	—	13.00	6.2	39.2
6 .....	14.06	4.9	39.6	—	—	—	14.06	4.9	39.6
7 .....	16.81	3.2	39.7	—	—	—	16.81	3.2	39.8
8 .....	18.70	8.0	38.7	—	—	—	18.70	8.0	38.7
9 .....	22.70	3.4	40.0	—	—	—	22.70	3.4	40.0
Correctional institution officers .....	14.17	4.3	39.8	—	—	—	14.37	4.4	39.8
2 .....	10.80	6.8	40.2	—	—	—	10.80	6.8	40.2
3 .....	8.42	6.1	40.4	—	—	—	8.78	8.5	40.1
4 .....	11.65	3.3	39.2	—	—	—	11.82	3.4	39.3
5 .....	12.51	4.0	39.9	—	—	—	12.52	4.1	39.9
6 .....	15.30	4.7	39.5	—	—	—	15.30	4.7	39.5

See footnotes at end of table.

Table 2-4. Selected occupations<sup>1</sup> and levels:<sup>2</sup> Mean hourly earnings<sup>3</sup> and weekly hours, private industry and State and local government, National Compensation Survey,<sup>4</sup> 1998–Continued

Occupation and level	Total			Private industry			State and local government		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)	
<b>Service</b> —Continued									
Protective service—Continued									
Correctional institution officers—Continued									
7 .....	\$18.21	2.5	39.9	—	—	—	\$18.21	2.5	39.9
8 .....	18.90	3.6	40.0	—	—	—	18.90	3.6	40.0
9 .....	19.34	4.5	40.0	—	—	—	19.34	4.5	40.0
Crossing guards .....	8.73	4.5	17.3	—	—	—	8.70	4.6	17.2
1 .....	7.77	7.8	16.3	—	—	—	7.78	7.8	16.4
2 .....	9.90	5.3	19.4	—	—	—	9.90	5.3	19.4
3 .....	7.99	4.3	16.2	—	—	—	7.71	3.3	15.6
Guards and police, except public service .....	8.63	1.7	35.1	\$8.43	1.9	35.2	12.28	2.5	33.3
1 .....	6.61	2.5	35.1	6.61	2.5	35.2	7.45	5.6	21.8
2 .....	7.57	1.6	34.3	7.55	1.6	34.7	8.44	5.2	24.9
3 .....	8.25	3.2	35.8	8.14	3.6	35.9	11.59	7.0	33.9
4 .....	10.14	5.0	36.1	10.07	5.3	36.2	11.19	3.8	33.6
5 .....	11.78	3.0	34.5	11.46	3.8	34.4	12.98	2.5	35.0
6 .....	13.57	4.2	33.4	13.84	5.0	31.9	12.83	6.4	38.7
7 .....	18.09	4.6	28.1	18.14	5.7	27.0	17.92	4.4	33.1
8 .....	21.09	4.6	37.2	—	—	—	—	—	—
Not able to be leveled .....	10.67	9.1	34.5	10.11	11.5	33.0	—	—	—
Protective service, n.e.c. ....	11.51	4.7	29.1	8.76	8.6	24.4	12.85	4.6	32.0
1 .....	6.42	6.6	29.9	—	—	—	8.20	2.7	25.9
2 .....	6.76	3.3	19.1	6.45	3.1	17.3	7.53	7.2	25.4
3 .....	9.38	7.8	26.3	7.36	3.2	24.0	10.66	7.7	27.9
4 .....	9.63	3.8	30.3	8.92	9.3	27.6	9.96	3.6	31.8
5 .....	13.65	8.5	28.4	16.92	22.2	29.9	12.91	5.4	28.1
6 .....	14.75	8.2	39.6	—	—	—	14.15	8.8	40.3
7 .....	16.09	11.4	40.6	—	—	—	16.02	11.6	40.6
Food service .....	6.76	.7	30.1	6.54	.8	30.1	9.12	1.3	29.7
1 .....	5.87	.5	27.7	5.77	.5	27.8	7.53	1.7	26.5
2 .....	5.81	1.1	30.1	5.60	1.1	30.4	8.29	2.7	27.2
3 .....	6.71	1.3	30.4	6.48	1.5	30.4	9.01	1.6	30.4
4 .....	8.93	1.7	35.1	8.67	2.0	34.9	10.68	3.5	36.1
5 .....	10.57	2.1	37.8	10.25	2.6	38.2	11.73	3.3	36.2
6 .....	11.91	3.4	41.9	11.72	3.5	42.2	14.11	8.6	38.4
7 .....	13.85	2.6	41.7	13.82	2.7	41.8	14.24	5.7	40.0
8 .....	16.96	4.1	41.3	17.10	4.3	41.9	—	—	—
9 .....	18.09	9.1	42.4	17.70	10.3	42.7	—	—	—
Not able to be leveled .....	11.16	11.3	24.1	10.20	18.5	19.9	—	—	—
Supervisors, food preparation and service .....	11.45	1.6	38.5	11.40	1.8	38.7	11.75	4.0	37.0
1 .....	6.56	6.0	25.2	6.56	6.0	25.2	—	—	—
2 .....	6.64	1.8	29.3	6.62	2.0	29.5	—	—	—
3 .....	7.58	4.0	32.1	7.50	4.3	31.7	—	—	—
4 .....	9.36	3.2	36.8	9.05	3.2	37.2	10.68	9.3	35.2
5 .....	11.03	2.3	39.1	10.98	2.9	39.8	11.16	3.7	37.3
6 .....	12.19	4.9	42.3	11.96	5.0	42.8	14.36	9.9	38.6
7 .....	14.04	2.7	42.1	14.03	2.8	42.2	14.15	6.3	40.0
8 .....	16.34	4.5	40.9	16.48	4.8	41.6	—	—	—
9 .....	19.59	5.5	41.3	19.33	6.2	41.5	—	—	—
Bartenders .....	6.31	2.6	29.5	6.31	2.6	29.5	—	—	—
1 .....	5.52	10.0	24.0	5.52	10.0	24.0	—	—	—
2 .....	5.82	5.0	27.5	5.82	5.0	27.5	—	—	—
3 .....	6.25	4.3	29.4	6.25	4.3	29.4	—	—	—
4 .....	7.07	5.4	31.8	7.06	5.4	31.8	—	—	—
5 .....	6.53	4.6	33.3	6.53	4.6	33.3	—	—	—
Waiters and waitresses .....	4.17	3.4	28.8	4.16	3.4	28.8	—	—	—
1 .....	3.82	2.6	25.1	3.81	2.6	25.1	—	—	—
2 .....	4.29	5.1	31.8	4.29	5.1	31.8	—	—	—
3 .....	4.10	4.3	28.0	4.10	4.3	28.0	—	—	—
4 .....	5.23	7.9	28.6	5.23	7.9	28.6	—	—	—
5 .....	6.72	36.4	33.1	4.37	24.3	32.2	—	—	—
Cooks .....	8.67	1.1	34.2	8.56	1.2	34.4	9.45	1.8	32.6
1 .....	6.90	4.3	31.3	6.37	1.9	31.3	8.57	7.2	31.0

See footnotes at end of table.

Table 2-4. Selected occupations<sup>1</sup> and levels:<sup>2</sup> Mean hourly earnings<sup>3</sup> and weekly hours, private industry and State and local government, National Compensation Survey,<sup>4</sup> 1998–Continued

Occupation and level	Total			Private industry			State and local government		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)	
<b>Service –Continued</b>									
Food service –Continued									
Cooks –Continued									
2 .....	\$7.27	1.8	31.6	\$7.13	1.9	32.1	\$8.11	2.4	29.0
3 .....	8.21	1.3	33.8	8.08	1.5	33.8	9.05	1.6	33.7
4 .....	9.29	1.8	36.1	9.20	1.9	36.2	10.27	2.8	35.0
5 .....	10.66	2.4	37.3	10.43	2.6	37.9	12.28	5.4	33.4
6 .....	11.90	3.5	40.8	11.87	3.7	41.0	–	–	–
7 .....	13.14	5.0	40.0	12.92	5.4	40.0	–	–	–
8 .....	19.18	5.8	42.7	19.18	5.8	42.7	–	–	–
Not able to be leveled .....	12.81	16.2	21.4	–	–	–	–	–	–
Food counter, fountain, and related .....	6.12	1.3	25.8	6.06	1.3	25.9	7.60	2.9	23.1
1 .....	5.84	1.1	24.8	5.81	1.1	25.0	7.27	3.0	19.4
2 .....	6.45	3.1	24.7	6.40	3.2	24.7	7.24	7.8	24.9
3 .....	6.40	3.6	30.4	6.26	4.0	30.9	8.19	5.7	25.0
4 .....	7.55	4.8	29.7	7.55	4.8	29.7	–	–	–
Kitchen workers, food preparation .....	7.57	1.2	30.1	7.49	1.3	30.1	8.05	3.4	29.7
1 .....	6.63	1.4	27.1	6.59	1.5	26.6	6.86	4.2	30.1
2 .....	7.37	1.7	31.1	7.29	1.9	31.9	7.79	5.4	27.5
3 .....	8.02	1.6	31.0	7.97	1.7	31.2	8.56	4.8	28.6
4 .....	9.48	3.3	35.6	9.28	3.9	34.4	10.04	7.0	39.2
5 .....	12.36	13.0	33.9	12.03	15.0	37.7	–	–	–
Waiters/Waitresses' assistants .....	5.68	2.2	27.7	5.64	2.2	27.7	10.19	9.6	25.3
1 .....	5.36	1.8	27.2	5.36	1.8	27.2	–	–	–
2 .....	6.10	6.8	30.7	5.89	6.9	30.8	–	–	–
3 .....	6.66	8.3	27.0	6.66	8.3	27.0	–	–	–
Food preparation, n.e.c. ....	6.85	1.3	29.8	6.56	.8	30.2	8.70	1.8	27.4
1 .....	6.47	.7	29.8	6.38	.9	30.3	7.61	2.0	25.4
2 .....	6.97	2.2	28.7	6.55	2.0	29.2	8.72	4.1	26.7
3 .....	8.11	2.2	29.8	7.55	2.6	30.0	9.27	2.7	29.5
4 .....	10.49	4.7	38.0	9.67	2.9	38.9	12.72	9.6	35.9
5 .....	11.21	8.8	39.4	–	–	–	–	–	–
Health service .....	8.77	.8	33.7	8.37	.8	33.1	10.58	1.8	36.7
1 .....	7.25	1.8	30.6	7.24	2.1	30.2	7.28	3.1	33.7
2 .....	7.69	1.2	33.6	7.50	1.2	33.0	8.90	3.9	37.1
3 .....	8.43	1.1	33.0	8.13	1.1	32.6	10.16	2.1	35.8
4 .....	9.77	1.4	34.8	9.52	1.4	34.4	10.72	2.8	36.2
5 .....	11.63	2.1	35.9	10.99	2.2	34.6	12.46	3.4	37.9
6 .....	13.16	3.9	37.3	13.23	5.2	36.3	13.02	4.9	39.3
7 .....	15.73	4.8	36.8	14.10	7.8	29.6	16.26	5.7	40.0
8 .....	16.42	5.6	33.9	16.42	5.6	33.9	–	–	–
Not able to be leveled .....	11.71	4.1	37.7	11.58	4.0	37.7	–	–	–
Dental assistants .....	10.26	3.7	36.3	10.46	4.2	35.1	9.68	7.9	40.0
4 .....	11.01	4.4	38.8	11.31	4.0	38.5	–	–	–
5 .....	9.89	4.5	40.0	–	–	–	–	–	–
Health aides, except nursing .....	9.79	1.4	33.5	9.33	1.6	32.5	11.16	2.6	37.1
1 .....	7.53	3.9	29.1	7.62	3.9	29.1	–	–	–
2 .....	8.16	2.3	31.4	7.83	2.5	30.6	9.85	5.6	36.9
3 .....	8.88	1.9	32.9	8.52	1.8	32.2	10.31	3.5	35.8
4 .....	10.43	1.6	35.8	10.25	1.8	34.9	10.91	3.7	38.5
5 .....	11.48	3.2	34.7	11.36	2.9	33.6	11.64	6.4	36.3
6 .....	13.64	5.1	37.9	14.02	6.5	37.0	13.16	6.1	39.2
7 .....	14.92	4.5	36.9	14.40	10.6	32.9	–	–	–
8 .....	16.65	6.2	32.8	16.65	6.2	32.8	–	–	–
Not able to be leveled .....	11.59	4.5	39.0	11.76	4.3	39.0	–	–	–
Nursing aides, orderlies and attendants .....	8.49	.8	33.7	8.13	.8	33.2	10.36	2.4	36.4
1 .....	7.11	2.2	31.4	7.04	2.6	30.8	7.44	3.1	34.2
2 .....	7.63	1.2	33.9	7.45	1.3	33.4	8.73	4.5	37.2
3 .....	8.35	1.3	33.1	8.06	1.2	32.7	10.13	2.4	35.8
4 .....	9.51	1.8	34.4	9.27	1.8	34.2	10.63	3.9	35.0
5 .....	11.84	2.6	37.0	10.69	3.4	35.3	13.22	1.7	39.3
6 .....	12.07	5.1	35.8	12.05	6.1	35.1	–	–	–
7 .....	16.24	7.0	39.0	13.71	12.2	34.5	16.71	8.0	40.0

See footnotes at end of table.

Table 2-4. Selected occupations<sup>1</sup> and levels:<sup>2</sup> Mean hourly earnings<sup>3</sup> and weekly hours, private industry and State and local government, National Compensation Survey,<sup>4</sup> 1998—Continued

Occupation and level	Total			Private industry			State and local government		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)	
<b>Service—Continued</b>									
Health service—Continued									
Nursing aides, orderlies and attendants—Continued									
Not able to be leveled .....	\$11.94	8.8	35.3	—	—	—	—	—	—
Cleaning and building service .....	9.03	.9	35.1	\$8.34	1.1	34.0	\$10.77	1.2	38.3
1 .....	7.63	1.6	32.8	7.36	1.9	32.0	8.89	2.2	36.8
2 .....	8.62	1.5	34.7	8.22	1.8	33.3	9.54	2.0	38.2
3 .....	10.14	1.5	37.9	9.20	1.7	37.1	11.24	2.1	39.0
4 .....	10.03	7.6	39.3	9.22	6.6	39.4	12.17	1.8	39.1
5 .....	12.65	1.9	39.6	12.07	2.5	39.5	13.44	2.6	39.9
6 .....	13.25	3.3	40.1	13.05	3.8	40.1	13.88	6.2	39.9
7 .....	16.61	2.5	40.0	16.11	2.8	39.9	16.88	5.3	40.0
8 .....	18.43	4.8	40.5	19.30	5.5	40.5	15.64	4.3	40.6
9 .....	26.79	3.4	39.6	—	—	—	—	—	—
Not able to be leveled .....	22.00	18.8	38.5	15.90	23.1	36.9	—	—	—
Supervisors, cleaning and building service workers .....	11.15	10.4	39.6	10.04	9.5	39.6	14.93	3.6	39.9
2 .....	8.27	2.1	40.0	7.36	5.5	40.0	—	—	—
3 .....	9.01	7.2	38.1	8.72	8.9	37.7	10.11	5.4	39.8
4 .....	—	—	—	—	—	—	11.97	3.6	39.7
5 .....	12.35	3.3	39.6	11.98	4.1	39.6	12.91	4.9	39.7
6 .....	13.10	5.4	40.1	12.62	5.6	40.2	15.23	5.9	39.8
7 .....	16.94	3.1	40.0	15.78	3.1	39.9	17.61	5.8	40.0
8 .....	18.43	4.8	40.5	19.30	5.5	40.5	15.64	4.3	40.6
9 .....	26.79	3.4	39.6	—	—	—	—	—	—
Maids and housemen .....	7.52	1.9	34.9	7.49	2.0	34.8	8.25	6.1	36.6
1 .....	7.19	2.8	35.6	7.18	2.9	35.6	7.40	6.3	35.5
2 .....	7.52	1.8	32.3	7.48	1.8	32.0	8.01	9.1	38.2
3 .....	8.63	3.0	36.4	8.45	2.9	36.4	12.15	7.5	36.8
4 .....	11.20	7.1	38.1	11.11	7.4	38.1	—	—	—
Janitors and cleaners .....	9.09	1.1	34.5	8.34	1.5	32.8	10.47	1.3	38.2
1 .....	7.77	1.9	31.9	7.43	2.4	30.8	8.98	2.1	36.9
2 .....	8.95	1.7	35.4	8.55	2.3	33.9	9.64	2.3	38.2
3 .....	10.46	1.6	38.2	9.51	1.9	37.2	11.27	2.2	39.0
4 .....	11.50	1.7	38.9	10.82	2.7	38.7	12.13	1.9	39.0
5 .....	13.01	2.2	39.6	12.13	2.9	39.3	14.11	3.3	40.0
6 .....	13.32	4.4	40.0	13.49	4.6	40.0	13.04	8.6	40.0
7 .....	15.75	2.8	40.0	17.64	4.8	39.8	15.04	1.6	40.0
Not able to be leveled .....	15.85	21.2	37.2	15.90	23.1	36.9	—	—	—
Pest control .....	12.36	8.5	40.0	12.73	9.3	40.0	—	—	—
Personal service .....	9.27	1.8	29.6	9.22	2.4	30.0	9.49	2.4	28.2
1 .....	5.79	6.6	27.2	5.48	6.3	28.5	7.61	5.2	21.3
2 .....	6.42	5.3	28.6	6.07	4.3	29.1	8.13	2.4	26.8
3 .....	8.08	1.7	30.0	7.72	1.9	30.1	8.84	2.7	29.7
4 .....	10.28	2.6	32.5	10.16	3.0	32.5	10.69	5.4	32.7
5 .....	16.39	7.5	27.9	17.51	9.0	26.4	12.36	3.5	34.8
6 .....	12.90	4.2	30.6	13.00	4.7	30.7	12.20	4.6	30.5
7 .....	—	—	—	—	—	—	15.18	7.7	37.9
8 .....	17.67	5.4	38.9	16.61	5.3	39.2	—	—	—
Not able to be leveled .....	11.77	13.5	32.3	11.18	6.7	34.5	12.65	30.2	29.5
Supervisors, personal service .....	16.56	1.3	38.7	—	—	—	15.04	7.6	32.9
3 .....	8.88	2.2	19.7	8.77	4.2	27.2	—	—	—
4 .....	9.18	7.2	37.6	8.61	8.0	37.2	—	—	—
5 .....	9.74	4.5	36.7	9.68	4.7	37.8	—	—	—
6 .....	13.42	3.4	38.5	13.61	3.5	39.4	11.14	6.3	30.3
8 .....	18.40	5.6	40.3	17.98	6.7	41.0	—	—	—
Hairdressers and cosmetologists .....	—	—	—	—	—	—	—	—	—
2 .....	5.84	5.4	27.7	—	—	—	—	—	—
Attendants, amusement, and recreation facilities .....	6.20	5.1	30.1	6.03	4.6	30.9	7.42	2.9	24.9
1 .....	5.83	2.4	24.3	5.76	3.5	26.6	6.01	1.4	20.1
2 .....	—	—	—	—	—	—	6.85	3.0	26.5

See footnotes at end of table.



Table 2-4. Selected occupations<sup>1</sup> and levels:<sup>2</sup> Mean hourly earnings<sup>3</sup> and weekly hours, private industry and State and local government, National Compensation Survey,<sup>4</sup> 1998—Continued

Occupation and level	Total			Private industry			State and local government		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)	
<b>Service—Continued</b>									
<b>Personal service—Continued</b>									
<b>Attendants, amusement, and recreation facilities—Continued</b>									
3 .....	\$6.82	4.8	30.9	\$6.68	5.4	32.8	\$7.55	4.3	23.8
4 .....	7.91	7.9	33.4	7.17	6.7	33.3	9.81	2.0	33.4
5 .....	7.70	13.2	32.4	7.55	14.1	33.5	—	—	—
<b>Guides .....</b>	9.40	3.5	30.5	9.02	3.9	31.5	12.32	10.8	24.6
1 .....	7.42	3.3	25.7	7.62	3.7	27.6	—	—	—
3 .....	7.41	6.5	29.8	7.52	6.7	31.2	—	—	—
6 .....	14.15	9.4	33.8	—	—	—	—	—	—
<b>Ushers .....</b>	6.55	5.1	19.3	6.56	5.2	19.9	6.33	1.7	4.4
1 .....	5.99	4.8	15.6	5.98	4.9	16.2	—	—	—
2 .....	6.29	9.2	16.9	6.29	9.2	16.9	—	—	—
3 .....	7.27	2.4	20.2	7.28	2.5	20.8	—	—	—
<b>Public transportation attendants .....</b>	25.24	6.1	21.1	26.41	6.2	20.3	13.66	11.9	34.9
1 .....	8.43	7.4	28.3	8.36	18.0	23.6	—	—	—
2 .....	7.59	1.8	32.5	—	—	—	—	—	—
3 .....	10.76	11.0	33.4	9.96	20.4	32.4	—	—	—
4 .....	21.10	4.0	22.0	21.55	4.0	20.8	—	—	—
6 .....	17.68	6.0	26.0	17.68	6.0	26.0	—	—	—
<b>Baggage porters and bellhops .....</b>	7.19	6.4	35.6	7.19	6.4	35.6	—	—	—
1 .....	5.56	7.8	35.5	5.56	7.8	35.5	—	—	—
2 .....	5.55	7.2	36.9	5.55	7.2	36.9	—	—	—
3 .....	9.00	8.5	34.7	9.00	8.5	34.7	—	—	—
<b>Welfare service aides .....</b>	7.55	4.9	28.1	7.12	5.2	27.0	9.38	6.4	34.3
1 .....	5.40	1.3	26.0	5.38	1.6	25.4	—	—	—
2 .....	6.59	4.1	22.7	6.39	4.0	22.0	8.12	6.2	31.8
3 .....	8.17	2.8	31.5	7.93	3.0	30.9	8.87	6.0	33.4
4 .....	9.45	3.4	33.7	8.96	2.4	34.1	11.77	5.0	32.1
5 .....	11.94	6.5	36.9	10.01	5.4	36.6	13.36	8.7	37.2
6 .....	12.53	6.5	33.4	13.48	4.9	31.8	—	—	—
<b>Early childhood teachers' assistants .....</b>	8.12	1.8	29.1	7.07	2.1	27.0	8.86	2.7	30.8
1 .....	7.21	4.9	21.5	5.77	1.1	19.0	8.22	2.7	23.7
2 .....	7.39	3.1	29.8	6.54	3.0	28.4	8.21	4.4	31.2
3 .....	8.20	2.8	30.1	6.78	1.9	26.8	8.97	3.3	32.2
4 .....	8.98	5.8	33.5	8.42	3.6	33.3	9.31	9.0	33.6
5 .....	12.46	8.5	32.8	—	—	—	—	—	—
6 .....	11.00	9.0	29.2	10.08	16.3	25.3	—	—	—
7 .....	8.29	10.0	33.9	—	—	—	—	—	—
<b>Child care workers, n.e.c. ....</b>	8.51	2.3	26.2	7.93	2.1	28.6	9.45	4.3	23.2
1 .....	6.80	3.2	16.6	6.58	6.1	18.5	7.03	3.1	15.0
2 .....	8.00	3.8	23.8	6.87	3.4	24.8	8.96	2.7	23.0
3 .....	7.95	5.0	28.8	7.42	3.6	29.9	8.60	9.6	27.6
4 .....	8.95	4.0	31.6	8.19	2.7	33.4	11.43	5.5	26.9
5 .....	9.70	6.5	34.1	9.02	6.4	34.2	11.71	6.0	34.0
6 .....	9.35	5.0	26.6	8.95	5.0	28.2	—	—	—
7 .....	12.27	7.2	40.0	—	—	—	—	—	—
8 .....	18.16	23.5	38.0	—	—	—	—	—	—

See footnotes at end of table.

Table 2-4. Selected occupations<sup>1</sup> and levels:<sup>2</sup> Mean hourly earnings<sup>3</sup> and weekly hours, private industry and State and local government, National Compensation Survey,<sup>4</sup> 1998—Continued

Occupation and level	Total			Private industry			State and local government		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)	
<b>Service—Continued</b>									
<b>Personal service—Continued</b>									
Service, n.e.c. ....	\$7.54	11.2	31.5	\$7.09	11.5	31.8	\$11.12	4.0	29.7
1 .....	5.50	11.2	33.0	5.27	9.6	33.3	10.34	8.5	28.1
2 .....	7.10	2.7	27.3	7.01	2.8	28.2	7.79	6.8	21.9
3 .....	8.59	2.4	28.7	8.50	2.6	29.1	9.60	3.9	24.9
4 .....	10.24	3.6	34.3	9.83	4.0	34.0	11.42	5.9	35.0
5 .....	10.86	5.6	35.1	10.20	7.6	34.6	12.08	3.6	36.0
6 .....	13.15	14.7	26.5	13.15	15.0	26.4	—	—	—
7 .....	14.60	11.0	31.7	12.09	11.6	29.1	—	—	—
8 .....	12.67	13.4	27.7	12.67	13.4	27.7	—	—	—
Not able to be leveled .....	16.94	20.3	25.6	12.93	7.2	30.1	—	—	—

<sup>1</sup> A classification system including about 480 individual occupations is used to cover all workers in the civilian economy. For more information, see appendix B.  
<sup>2</sup> 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.

<sup>3</sup> 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.

<sup>4</sup> This survey covers all 50 States. Collection was conducted between July 1997 and April 1999. The average reference period was August 1998.

<sup>5</sup> 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. Occupational groups may include data for levels not shown separately.

Table 2-5. **Collective bargaining status:<sup>1</sup> Mean hourly earnings<sup>2</sup> by occupational group,<sup>3</sup> National Compensation Survey,<sup>4</sup> 1998**

Occupational group	Total		Private industry		State and local government	
	Union	Nonunion	Union	Nonunion	Union	Nonunion
Mean						
<b>All</b> .....	\$17.76	\$15.10	\$15.81	\$14.77	\$20.44	\$17.01
<b>White collar</b> .....	21.85	18.91	19.30	18.79	22.99	19.42
White collar excluding sales .....	22.58	19.78	21.36	19.85	23.02	19.47
Professional specialty and technical .....	28.27	22.88	28.98	23.19	28.09	22.03
Professional specialty .....	28.79	24.94	27.06	25.71	29.08	23.20
Technical .....	25.20	16.55	31.72	16.91	16.16	14.45
Executive, administrative, and managerial ...	23.58	28.13	27.71	28.64	23.21	25.76
Sales .....	11.12	13.48	10.92	13.50	15.20	10.40
Administrative support, including clerical .....	13.93	11.60	15.22	11.68	13.09	11.18
<b>Blue collar</b> .....	15.81	11.39	15.73	11.34	16.33	12.31
Precision production, craft, and repair .....	18.91	15.14	19.03	15.22	18.30	14.38
Machine operators, assemblers, and inspectors .....	14.44	10.32	14.42	10.32	15.86	9.77
Transportation and material moving .....	16.62	11.68	16.96	11.77	15.47	11.10
Handlers, equipment cleaners, helpers, and laborers .....	12.19	8.63	11.97	8.57	13.70	9.84
<b>Service</b> .....	14.02	8.14	10.31	7.49	16.38	11.16
Protective service .....	19.19	11.07	11.83	8.47	19.70	13.95
Food service .....	8.75	6.54	8.06	6.42	10.43	8.41
Health service .....	10.45	8.27	9.20	8.19	12.44	8.82
Cleaning and building service .....	11.20	8.10	10.23	7.80	12.30	9.26
Personal service .....	13.86	8.43	16.78	8.41	10.89	8.58
Relative error <sup>5</sup> (percent)						
<b>All</b> .....	0.9	0.6	1.3	0.7	0.7	0.9
<b>White collar</b> .....	.9	.6	2.1	.7	.9	.7
White collar excluding sales .....	.9	.6	2.3	.7	.9	.6
Professional specialty and technical .....	1.1	.6	3.6	.7	1.0	.7
Professional specialty .....	1.0	.6	4.5	.7	.9	.8
Technical .....	4.7	.8	5.8	.9	2.6	1.8
Executive, administrative, and managerial ...	2.7	.7	8.4	.9	2.8	1.0
Sales .....	2.6	4.0	2.7	4.0	4.3	6.5
Administrative support, including clerical .....	.9	.5	1.4	.6	.9	.9
<b>Blue collar</b> .....	1.5	.6	1.7	.6	1.2	1.3
Precision production, craft, and repair .....	2.2	.8	2.6	.9	1.7	1.7
Machine operators, assemblers, and inspectors .....	2.1	1.1	2.2	1.1	6.8	5.5
Transportation and material moving .....	1.6	.9	1.9	1.0	1.7	1.6
Handlers, equipment cleaners, helpers, and laborers .....	2.0	.7	2.3	.7	2.3	2.4
<b>Service</b> .....	1.4	.5	2.3	.6	1.3	1.3
Protective service .....	1.4	1.4	8.1	1.6	1.3	2.3
Food service .....	2.2	.8	2.8	.9	1.8	1.5
Health service .....	2.4	.7	2.8	.7	1.5	2.2
Cleaning and building service .....	2.2	.8	3.7	.9	1.5	1.4
Personal service .....	4.8	1.6	7.6	2.4	3.6	2.3

<sup>1</sup> Union workers are those whose wages are determined through collective bargaining.

<sup>2</sup> 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.

<sup>3</sup> A classification system including about 480 individual occupations is

used to cover all workers in the civilian economy. For more information, see appendix B.

<sup>4</sup> This survey covers all 50 States. Collection was conducted between July 1997 and April 1999. The average reference period was August 1998.

<sup>5</sup> 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 2-6. Time and incentive pay:<sup>1</sup> Mean hourly earnings<sup>2</sup> and weekly hours by occupational group<sup>3</sup> in private industry, National Compensation Survey,<sup>4</sup> 1998

Occupational group	Time			Incentive		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)	
<b>All</b> .....	\$14.84	0.6	36.4	\$17.14	2.7	38.6
<b>White collar</b> .....	18.70	.7	36.8	21.44	3.6	37.4
White collar excluding sales .....	19.93	.7	37.7	21.98	7.9	37.5
Professional specialty and technical .....	23.60	.7	36.7	31.39	26.1	38.1
Professional specialty .....	25.75	.7	36.8	34.42	28.9	38.1
Technical .....	18.48	1.4	36.6	18.70	5.5	38.2
Executive, administrative, and managerial ...	28.50	.9	40.5	34.92	6.1	42.4
Sales .....	11.07	3.0	32.0	21.27	3.8	37.4
Administrative support, including clerical .....	12.00	.6	37.3	12.10	6.2	35.0
<b>Blue collar</b> .....	12.74	.7	38.4	13.25	2.6	40.2
Precision production, craft, and repair .....	16.55	1.2	39.8	17.70	2.8	40.8
Machine operators, assemblers, and inspectors .....	11.65	.9	39.6	10.88	5.4	39.4
Transportation and material moving .....	13.54	1.4	38.1	15.10	2.1	44.4
Handlers, equipment cleaners, helpers, and laborers .....	9.49	.7	35.7	10.77	3.5	33.4
<b>Service</b> .....	7.83	.6	31.8	9.37	3.6	34.0
Protective service .....	8.74	1.7	35.0	—	—	—
Food service .....	6.54	.8	30.1	8.54	13.7	33.2
Health service .....	8.37	.8	33.1	—	—	—
Cleaning and building service .....	8.33	1.1	34.0	11.03	10.9	36.2
Personal service .....	9.21	2.5	29.8	—	—	—

<sup>1</sup> Wages of time workers are based solely on hourly rate or salary; incentive workers are those whose wages are at least partially based on productivity payments such as piece rates, commissions, and production bonuses.

<sup>2</sup> 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.

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

For more information, see appendix B.

<sup>4</sup> This survey covers all 50 States. Collection was conducted between July 1997 and April 1999. The average reference period was August 1998.

<sup>5</sup> 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.

## Chapter 3.

# Establishment characteristics

**W**hile the previous chapter concentrates on the characteristics of the worker, chapter 3 focuses on the characteristics of the establishment. Earnings are presented by industry and establishment size. Table 3-1 separates earnings in goods-producing industries from earnings in service-producing industries. Table 3-2 provides data by major industry division. Earnings by establishment employment size are presented in tables 3-3, 3-4, and 3-5.

### Industry

Private sector earnings averaged \$16.00 per hour in goods-producing industries and \$14.40 in service-producing industries.<sup>5</sup> In goods-producing industries, white-collar workers earned an average of \$22.90, compared with \$17.74 for their counterparts in service-producing industries. In goods-producing industries, blue-collar workers averaged \$13.02, and service workers, \$11.24; in service-producing industries, these averages were \$12.28 and \$7.76, respectively.

Earnings in major industry divisions in goods-producing industries averaged \$22.97 in mining, \$17.42 in construction, and \$15.76 in manufacturing. Major industry divisions in service-producing industries include transportation and public utilities, with average hourly earnings of \$19.01, and finance, insurance, and real estate, with average hourly earnings of \$19.14. Average hourly earnings in other major industry divisions in service-producing industries include

<sup>5</sup> Discussion of goods-producing and service-producing industries pertains to private sector establishments only, because NCS State and local government data do not permit separate estimates for these industry breaks.

\$16.25 in wholesale trade, \$10.07 in retail trade, and \$14.13 in services.

### Establishment size

Average hourly earnings tended to increase with establishment size. In establishments with 50 to 99 workers, average hourly earnings were \$13.04, compared with \$14.21 in establishments with 100 to 499 workers, and \$16.45 in establishments with 500 to 999 workers. Average hourly earnings were \$16.51 in establishments with 1,000 to 2,499 workers, and \$20.07 in establishments with 2,500 or more workers. (See table 3-3.) In private industry, average hourly earnings ranged from \$12.96 in establishments with 50 to 99 workers to \$21.05 in establishments with 2,500 workers or more; in State and local government establishments, the comparable range was from \$14.40 to \$19.27. (See tables 3-4 and 3-5.)

Among occupational groups, average hourly earnings for employees in the largest establishments tended to be greater than earnings of employees in the smallest establishments. In private industry, for example, white-collar workers in establishments with 50 to 99 workers had average hourly earnings of \$16.78, while those in establishments with 2,500 or more workers had average hourly earnings of \$23.79. Blue-collar workers in establishments with 50 to 99 workers averaged \$11.82 an hour, compared with \$18.03 for those in establishments with 2,500 or more workers; for comparable service workers, average hourly earnings were \$6.67 and \$11.32, respectively. (See table 3-4.)

Table 3-1. **Goods-producing and service-producing industries: Mean hourly earnings<sup>1</sup> and weekly hours by occupational group<sup>2</sup> in private industry, National Compensation Survey,<sup>3</sup> 1998**

Occupational group	Goods-producing industries			Service-producing industries		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>4</sup> (percent)		Mean	Relative error <sup>4</sup> (percent)	
<b>All</b> .....	\$16.00	0.8	39.8	\$14.40	0.7	35.0
<b>White collar</b> .....	22.90	.8	39.9	17.74	.8	36.1
White collar excluding sales .....	22.90	.8	40.0	19.02	.8	37.0
Professional specialty and technical .....	25.65	.8	40.0	22.93	1.0	35.7
Professional specialty .....	28.41	.8	40.1	24.86	1.0	35.7
Technical .....	18.62	.9	39.8	18.43	1.8	35.7
Executive, administrative, and managerial ...	30.17	1.8	40.9	27.94	1.1	40.3
Sales .....	22.91	3.1	39.1	12.56	3.7	32.6
Administrative support, including clerical .....	13.04	1.1	39.1	11.76	.7	36.9
<b>Blue collar</b> .....	13.02	.9	39.8	12.28	1.0	36.4
Precision production, craft, and repair .....	16.37	1.7	40.0	17.09	1.1	39.5
Machine operators, assemblers, and inspectors .....	11.88	1.0	39.8	8.85	1.8	37.6
Transportation and material moving .....	13.96	2.1	39.9	13.66	1.5	38.4
Handlers, equipment cleaners, helpers, and laborers .....	10.17	1.2	39.4	8.98	1.1	33.1
<b>Service</b> .....	11.24	2.2	38.8	7.76	.6	31.6
Protective service .....	12.89	3.6	38.3	8.56	1.8	34.9
Food service .....	10.95	13.1	39.4	6.53	.8	30.1
Health service .....	—	—	—	8.37	.8	33.1
Cleaning and building service .....	10.91	2.5	38.9	8.07	1.2	33.5
Personal service .....	10.43	8.6	39.7	9.21	2.4	30.0

<sup>1</sup> 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.

<sup>2</sup> A classification system including about 480 individual occupations is used to cover all workers in the civilian economy. For more information, see appendix B.

<sup>3</sup> This survey covers all 50 States. Collection was conducted

between July 1997 and April 1999. The average reference period was August 1998.

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

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

Table 3-2. Major industry division: Mean hourly earnings<sup>1</sup> and weekly hours by occupational group<sup>2</sup> in private industry, National Compensation Survey,<sup>3</sup> 1998

Occupational group	Mining			Construction			Manufacturing		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>4</sup> (percent)		Mean	Relative error <sup>4</sup> (percent)		Mean	Relative error <sup>4</sup> (percent)	
<b>All</b> .....	\$22.97	3.5	40.3	\$17.42	1.4	39.9	\$15.76	0.9	39.8
<b>White collar</b> .....	30.89	3.3	40.3	22.08	2.3	40.5	22.79	.8	39.9
White collar excluding sales .....	30.88	3.4	40.3	21.81	2.6	40.6	22.80	.8	39.9
Professional specialty and technical .....	35.83	3.7	40.2	25.59	4.1	41.2	25.41	.8	40.0
Professional specialty .....	38.77	3.6	40.2	27.93	4.0	41.5	28.14	.8	40.1
Technical .....	22.30	3.0	40.0	17.11	7.2	39.8	18.59	.9	39.8
Executive, administrative, and managerial .....	35.27	4.3	40.9	27.41	2.8	41.7	30.34	2.1	40.8
Sales .....	31.22	5.5	40.0	25.66	6.8	39.2	22.64	3.3	39.1
Administrative support, including clerical .....	15.09	3.0	39.7	12.61	2.1	38.9	13.04	1.1	39.1
<b>Blue collar</b> .....	17.82	4.8	40.3	16.18	1.5	39.7	12.63	.9	39.8
Precision production, craft, and repair .....	19.69	3.2	40.3	17.88	1.6	39.6	15.84	2.0	40.0
Machine operators, assemblers, and inspectors .....	15.81	8.5	39.7	12.53	7.1	39.7	11.87	1.0	39.8
Transportation and material moving .....	15.71	10.8	41.2	15.91	5.0	40.0	13.45	2.2	39.8
Handlers, equipment cleaners, helpers, and laborers .....	12.11	17.7	39.1	11.56	2.7	39.8	9.96	1.3	39.4
<b>Service</b> .....	12.88	10.5	38.4	11.48	7.3	36.0	11.23	2.2	38.9
Protective service .....	-	-	-	-	-	-	12.97	3.7	38.3
Food service .....	-	-	-	-	-	-	10.95	13.1	39.4
Health service .....	-	-	-	-	-	-	-	-	-
Cleaning and building service .....	12.93	14.9	37.7	11.56	10.9	34.1	10.89	2.5	39.0
Personal service .....	-	-	-	-	-	-	10.27	8.8	39.7

See footnotes at end of table.

Table 3-2. Major industry division: Mean hourly earnings<sup>1</sup> and weekly hours by occupational group<sup>2</sup> in private industry, National Compensation Survey,<sup>3</sup> 1998—Continued

Occupational group	Transportation and public utilities			Wholesale trade			Retail trade		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>4</sup> (percent)		Mean	Relative error <sup>4</sup> (percent)		Mean	Relative error <sup>4</sup> (percent)	
<b>All</b> .....	\$19.01	1.2	37.5	\$16.25	1.8	39.4	\$10.07	1.2	31.2
<b>White collar</b> .....	21.19	1.7	37.9	19.64	2.0	39.6	11.88	1.6	32.5
White collar excluding sales .....	21.20	1.7	37.8	19.33	2.4	39.7	15.37	2.9	37.6
Professional specialty and technical .....	30.78	3.8	35.6	24.79	3.5	40.2	21.09	3.5	35.9
Professional specialty .....	26.94	1.9	39.6	27.75	2.9	40.3	22.81	3.6	35.5
Technical .....	34.95	6.9	32.1	17.69	5.7	39.8	15.88	7.2	37.1
Executive, administrative, and managerial .....	27.55	1.5	40.4	30.37	3.1	41.2	25.05	4.9	42.4
Sales .....	21.10	5.1	39.5	20.40	3.7	39.3	10.38	1.5	30.8
Administrative support, including clerical .....	14.51	1.3	37.9	12.18	1.7	38.9	10.19	1.3	36.0
<b>Blue collar</b> .....	16.58	1.4	38.6	12.15	2.0	39.3	10.37	1.4	32.4
Precision production, craft, and repair .....	20.33	1.1	39.9	14.56	4.7	39.9	15.81	1.8	39.6
Machine operators, assemblers, and inspectors .....	16.20	5.2	39.8	10.39	2.7	39.9	9.60	4.3	35.5
Transportation and material moving .....	15.32	2.1	40.1	13.59	2.5	40.0	9.94	3.6	34.9
Handlers, equipment cleaners, helpers, and laborers .....	12.70	2.2	33.1	10.39	2.6	38.3	8.05	1.4	29.6
<b>Service</b> .....	20.42	6.0	24.4	10.53	6.8	34.5	6.51	1.1	28.3
Protective service .....	15.97	13.7	38.5	9.91	7.2	28.8	9.93	4.4	29.6
Food service .....	9.09	10.7	33.6	7.00	9.6	31.6	6.26	1.2	27.9
Health service .....	—	—	—	—	—	—	8.26	2.6	31.7
Cleaning and building service .....	10.87	7.2	37.1	11.81	7.4	36.8	7.78	2.4	31.8
Personal service .....	23.22	6.3	22.1	9.67	6.1	32.2	7.92	2.8	31.5

See footnotes at end of table.



Table 3-2. Major industry division: Mean hourly earnings<sup>1</sup> and weekly hours by occupational group<sup>2</sup> in private industry, National Compensation Survey,<sup>3</sup> 1998—Continued

Occupational group	Finance, insurance, and real estate			Services		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>4</sup> (percent)		Mean	Relative error <sup>4</sup> (percent)	
<b>All</b> .....	\$19.14	1.8	37.7	\$14.13	1.0	35.3
<b>White collar</b> .....	19.73	1.8	38.0	18.43	1.0	36.3
White collar excluding sales .....	19.05	1.6	38.0	19.02	1.1	36.3
Professional specialty and technical .....	25.93	1.9	38.6	21.99	1.1	35.4
Professional specialty .....	28.13	2.2	38.9	24.44	1.2	35.1
Technical .....	20.85	1.9	37.9	15.85	1.2	36.0
Executive, administrative, and managerial .....	29.71	2.0	39.6	27.23	1.6	40.1
Sales .....	30.18	9.2	37.5	10.87	12.6	35.5
Administrative support, including clerical .....	12.28	1.1	37.1	10.93	1.0	36.3
<b>Blue collar</b> .....	12.95	5.4	37.6	9.82	1.8	36.8
Precision production, craft, and repair .....	16.44	5.5	38.9	14.96	2.3	38.8
Machine operators, assemblers, and inspectors .....	11.20	14.0	39.3	7.95	2.1	37.0
Transportation and material moving .....	9.12	6.9	30.5	10.39	4.9	34.1
Handlers, equipment cleaners, helpers, and laborers .....	10.38	14.2	37.8	7.83	1.5	36.5
<b>Service</b> .....	9.14	3.3	33.3	7.90	.6	33.2
Protective service .....	10.81	4.9	31.8	8.31	2.1	35.4
Food service .....	8.18	12.4	29.0	6.88	.9	33.9
Health service .....	7.94	8.4	31.3	8.37	.8	33.1
Cleaning and building service .....	9.03	4.5	37.8	7.97	1.4	33.4
Personal service .....	7.79	5.3	28.3	8.07	3.3	30.8

<sup>1</sup> 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.

<sup>2</sup> A classification system including about 480 individual occupations is used to cover all workers in the civilian economy. For more information, see appendix B.

<sup>3</sup> This survey covers all 50 States. Collection was conducted between July 1997 and April 1999. The average reference period was August 1998.

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

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

Table 3-3. **United States, establishment employment size: Mean hourly earnings<sup>1</sup> by occupational group,<sup>2</sup> National Compensation Survey,<sup>3</sup> 1998**

Occupational group	50-99 workers	100-499 workers	500-999 workers	1,000-2,499 workers	2,500 or more workers
	Mean				
<b>All</b> .....	\$13.04	\$14.21	\$16.45	\$16.51	\$20.07
<b>White collar</b> .....	16.80	17.77	20.44	20.20	22.20
White collar excluding sales .....	17.84	18.76	20.80	21.28	22.29
Professional specialty and technical .....	21.15	22.49	24.39	24.60	25.80
Professional specialty .....	23.29	24.82	26.69	26.28	26.72
Technical .....	15.90	16.34	16.20	17.81	21.52
Executive, administrative, and managerial ...	26.98	27.10	28.44	29.52	27.87
Sales .....	13.84	13.40	13.91	—	16.74
Administrative support, including clerical .....	11.37	11.56	12.10	12.50	12.82
<b>Blue collar</b> .....	11.82	12.00	12.95	14.73	17.14
Precision production, craft, and repair .....	15.86	16.13	15.62	17.52	18.91
Machine operators, assemblers, and inspectors .....	9.72	10.56	11.79	14.25	17.92
Transportation and material moving .....	12.55	13.23	14.62	15.60	15.21
Handlers, equipment cleaners, helpers, and laborers .....	8.86	9.33	10.30	10.44	12.77
<b>Service</b> .....	6.93	8.54	10.18	9.45	14.10
Protective service .....	10.18	11.55	13.51	13.55	18.64
Food service .....	6.13	6.98	7.78	6.51	8.73
Health service .....	7.43	8.21	9.36	9.49	10.65
Cleaning and building service .....	7.62	8.41	10.17	8.92	10.75
Personal service .....	7.24	8.30	8.32	9.18	13.35
	Relative error <sup>4</sup> (percent)				
<b>All</b> .....	1.1	0.7	1.4	7.3	0.6
<b>White collar</b> .....	1.6	1.0	1.2	4.7	.6
White collar excluding sales .....	1.7	1.0	1.2	1.3	.6
Professional specialty and technical .....	2.8	1.1	1.2	1.2	.7
Professional specialty .....	3.4	1.3	1.2	1.1	.6
Technical .....	2.3	1.5	1.6	2.1	3.1
Executive, administrative, and managerial ...	2.5	1.1	3.2	1.8	1.1
Sales .....	3.0	2.8	4.4	—	6.8
Administrative support, including clerical .....	1.0	1.0	1.0	1.3	.7
<b>Blue collar</b> .....	1.1	.8	2.2	2.9	.9
Precision production, craft, and repair .....	1.4	1.2	4.7	3.0	1.0
Machine operators, assemblers, and inspectors .....	1.6	1.3	2.0	2.5	1.2
Transportation and material moving .....	2.0	1.6	2.6	4.1	1.8
Handlers, equipment cleaners, helpers, and laborers .....	1.4	1.0	3.1	5.7	1.9
<b>Service</b> .....	1.2	1.0	2.2	7.9	1.8
Protective service .....	6.4	2.9	5.4	6.8	1.5
Food service .....	1.0	1.0	3.0	8.6	2.7
Health service .....	1.8	1.0	3.3	2.1	1.7
Cleaning and building service .....	1.6	1.2	3.6	2.5	1.9
Personal service .....	2.0	1.9	5.0	2.5	6.8

<sup>1</sup> 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.

<sup>2</sup> A classification system including about 480 individual occupations is used to cover all workers in the civilian economy.

For more information, see appendix B.

<sup>3</sup> This survey covers all 50 States. Collection was conducted between July 1997 and April 1999. The average reference period was August 1998.

<sup>4</sup> 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 3-4. Private Industry, establishment employment size: Mean hourly earnings<sup>1</sup> by occupational group,<sup>2</sup> National Compensation Survey,<sup>3</sup> 1998

Occupational group	50-99 workers	100-499 workers	500-999 workers	1,000-2,499 workers	2,500 or more workers
	Mean				
<b>All</b> .....	\$12.96	\$13.82	\$15.82	\$15.81	\$21.05
<b>White collar</b> .....	16.78	17.37	20.01	19.55	23.79
White collar excluding sales .....	17.91	18.45	20.43	21.00	24.02
Professional specialty and technical .....	21.29	21.86	23.44	24.11	27.20
Professional specialty .....	23.91	24.42	26.38	26.14	27.87
Technical .....	16.00	16.65	16.58	18.30	25.28
Executive, administrative, and managerial ...	27.41	27.39	28.76	30.22	31.74
Sales .....	13.85	13.41	14.10	—	17.29
Administrative support, including clerical .....	11.43	11.61	12.26	12.65	13.21
<b>Blue collar</b> .....	11.82	11.93	12.89	14.75	18.03
Precision production, craft, and repair .....	15.91	16.14	15.66	17.73	20.11
Machine operators, assemblers, and inspectors .....	9.72	10.55	11.79	14.26	18.05
Transportation and material moving .....	12.73	13.25	14.79	16.26	16.40
Handlers, equipment cleaners, helpers, and laborers .....	8.80	9.24	10.24	10.22	12.96
<b>Service</b> .....	6.67	7.73	8.30	8.09	11.32
Protective service .....	8.22	7.84	8.72	9.44	13.44
Food service .....	6.12	6.86	7.59	—	8.27
Health service .....	7.43	8.15	8.57	9.22	9.78
Cleaning and building service .....	7.52	8.09	9.19	8.37	10.13
Personal service .....	7.21	8.22	7.63	—	15.68
	Relative error <sup>4</sup> (percent)				
<b>All</b> .....	1.2	0.8	1.6	9.3	1.1
<b>White collar</b> .....	1.7	1.1	1.4	6.3	1.0
White collar excluding sales .....	1.8	1.1	1.4	1.7	1.0
Professional specialty and technical .....	3.2	1.4	1.6	1.5	1.2
Professional specialty .....	3.9	1.7	1.6	1.3	.8
Technical .....	2.4	1.6	1.8	2.5	4.1
Executive, administrative, and managerial ...	2.6	1.1	3.8	2.2	1.7
Sales .....	3.0	2.8	4.5	—	7.6
Administrative support, including clerical .....	1.0	1.1	1.2	1.6	.9
<b>Blue collar</b> .....	1.1	1.0	2.3	3.2	1.0
Precision production, craft, and repair .....	1.4	1.3	5.3	3.5	.9
Machine operators, assemblers, and inspectors .....	1.6	1.3	2.1	2.5	1.2
Transportation and material moving .....	2.0	1.8	4.1	5.2	2.9
Handlers, equipment cleaners, helpers, and laborers .....	1.4	1.1	3.3	6.1	2.7
<b>Service</b> .....	.9	.7	2.1	4.2	3.8
Protective service .....	8.1	1.7	3.0	2.4	4.9
Food service .....	1.0	1.1	3.7	—	4.5
Health service .....	1.9	1.1	3.4	2.4	1.6
Cleaning and building service .....	1.9	1.4	6.1	1.9	3.5
Personal service .....	2.2	2.1	4.7	—	11.3

<sup>1</sup> 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.

<sup>2</sup> A classification system including about 480 individual occupations is used to cover all workers in the civilian economy. For more information, see appendix B.

<sup>3</sup> This survey covers all 50 States. Collection was conducted

between July 1997 and April 1999. The average reference period was August 1998.

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

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Table 3-5. **State and local government, establishment employment size: Mean hourly earnings<sup>1</sup> by occupational group,<sup>2</sup> National Compensation Survey,<sup>3</sup> 1998**

Occupational group	50-99 workers	100-499 workers	500-999 workers	1,000-2,499 workers	2,500 or more workers
	Mean				
<b>All</b> .....	\$14.40	\$17.59	\$18.83	\$18.65	\$19.27
<b>White collar</b> .....	17.11	20.29	21.69	21.86	20.98
White collar excluding sales .....	17.13	20.34	21.80	21.91	21.01
Professional specialty and technical .....	20.36	24.36	26.07	25.41	24.78
Professional specialty .....	20.91	25.73	27.10	26.47	26.02
Technical .....	13.60	13.68	13.56	15.64	15.63
Executive, administrative, and managerial ...	21.03	24.66	26.76	27.04	24.60
Sales .....	10.14	10.57	10.15	13.66	13.24
Administrative support, including clerical .....	10.44	11.14	11.56	12.03	12.54
<b>Blue collar</b> .....	11.90	13.76	13.72	14.60	15.40
Precision production, craft, and repair .....	14.49	16.09	15.33	16.38	17.05
Machine operators, assemblers, and inspectors .....	—	11.25	11.75	12.82	14.85
Transportation and material moving .....	10.21	13.07	13.62	13.67	14.55
Handlers, equipment cleaners, helpers, and laborers .....	10.63	11.56	10.95	12.14	12.52
<b>Service</b> .....	10.55	12.75	13.55	12.77	15.32
Protective service .....	13.10	15.91	16.68	15.77	19.05
Food service .....	7.80	8.73	8.99	9.53	9.27
Health service .....	7.43	9.35	11.27	10.22	11.55
Cleaning and building service .....	8.91	10.17	11.90	10.25	11.08
Personal service .....	7.54	8.80	9.77	9.28	10.23
	Relative error <sup>4</sup> (percent)				
<b>All</b> .....	3.6	1.3	1.7	2.0	0.7
<b>White collar</b> .....	3.6	1.5	1.7	1.6	.8
White collar excluding sales .....	3.6	1.5	1.7	1.6	.8
Professional specialty and technical .....	5.0	1.9	2.1	1.7	.9
Professional specialty .....	5.2	1.6	2.0	1.8	.9
Technical .....	3.4	2.1	2.6	2.6	1.9
Executive, administrative, and managerial ...	5.6	3.4	2.5	2.3	1.6
Sales .....	8.6	6.6	10.4	10.4	6.8
Administrative support, including clerical .....	3.0	1.6	1.7	1.6	.9
<b>Blue collar</b> .....	4.7	2.4	2.0	2.4	1.6
Precision production, craft, and repair .....	6.7	2.6	3.2	3.6	2.1
Machine operators, assemblers, and inspectors .....	—	13.5	7.1	7.5	8.5
Transportation and material moving .....	3.0	3.3	2.7	3.2	2.3
Handlers, equipment cleaners, helpers, and laborers .....	8.7	3.2	2.7	3.8	3.5
<b>Service</b> .....	7.3	2.5	2.8	3.0	1.6
Protective service .....	8.3	2.6	3.7	7.0	1.5
Food service .....	7.6	3.5	4.0	2.1	2.4
Health service .....	6.5	5.1	2.6	2.7	2.7
Cleaning and building service .....	2.5	2.2	2.7	2.9	2.0
Personal service .....	7.2	5.7	8.5	2.5	3.2

<sup>1</sup> 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.

<sup>2</sup> A classification system including about 480 individual occupations is used to cover all workers in the civilian economy. For more information, see appendix B.

<sup>3</sup> This survey covers all 50 States. Collection was conducted

between July 1997 and April 1999. The average reference period was August 1998.

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

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# Chapter 4.

## Geographic areas

This chapter presents occupational earnings data for the following geographic designations: Metropolitan and nonmetropolitan areas (tables 4-1 and 4-2); the 10 largest metropolitan areas (table 4-3); 77 selected metropolitan areas—pay relatives (table 4-4); and 9 census divisions (tables 4-5 to 4-14).

### Metropolitan and nonmetropolitan areas<sup>6</sup>

Workers in metropolitan areas had average hourly earnings of \$16.40, higher than the average of \$12.31 for their nonmetropolitan area counterparts. The same pattern was found for private industry workers and State and local government workers. (See table 4-1.)

White-collar workers in metropolitan areas earned an average of \$19.93 per hour, compared with \$15.65 for white-collar workers in nonmetropolitan areas. In metropolitan areas, average hourly earnings were \$13.31 for blue-collar workers and \$9.90 for service workers; in nonmetropolitan areas these averages were \$11.36 and \$8.20, respectively. (See table 4-2.)

The pattern of higher wages for most workers in metropolitan areas holds when the data are viewed by establishment characteristics and census region.

### Ten largest metropolitan areas

Earnings data for the 10 largest metropolitan areas in terms of employment size are shown in table 4-3. Average hourly earnings for all workers ranged from \$16.30 in Dallas-Fort Worth to \$20.72 in San Francisco-Oakland-San Jose. Survey timing accounts for part of the earnings differences among the 10 areas. For example, the average payroll reference month was March 1998 for the Washington-Baltimore survey, while it was February 1999 for the Philadelphia-Wilmington-Atlantic City survey. The average payroll reference month for national estimates was August 1998.

<sup>6</sup> The NCS uses the Office of Management and Budget's (OMB) definition of areas. For more information see Appendix A.

### Pay relatives

The Bureau has developed measures to facilitate pay comparisons among major metropolitan areas. These pay relatives, or ratios of pay, express an area's average pay as a percent of adjusted<sup>7</sup> national pay. In other words, an area's relative pay is calculated by dividing the figure for a particular area by the corresponding national figure, and then multiplying by 100. For example, the pay relative of 95 for the Atlanta, GA, area indicates that pay rates for that locality were 5 percent below the national average. (See table 4-4.<sup>8</sup>)

### Nine census divisions<sup>9</sup>

Pay varied across the nine census divisions. Average hourly earnings ranged from \$11.87 in the East South Central census division to \$18.10 in the Middle Atlantic census division. In all nine regions, State and local government workers had higher average hourly earnings than did private industry workers, and workers in metropolitan areas had higher average hourly earnings than did their nonmetropolitan counterparts.<sup>10</sup> (See tables 4-5 to 4-14.)

White-collar earnings ranged from \$15.05 in the East South Central division to \$22.06 in the Middle Atlantic division. Blue-collar earnings ranged from \$11.43 in the East South Central division to \$13.86 in the East North Central division. Earnings for service occupations ranged from \$7.63 in the East South Central division to \$11.67 in the Middle Atlantic division.

<sup>7</sup> The national data were adjusted to correspond with each locality's month of reference.

<sup>8</sup> While pay relatives are adjusted to account for differences in the survey reference periods among areas, they are not adjusted for differences in the industrial and occupational mix across areas. Users should keep this limitation in mind when comparing pay relatives across areas.

<sup>9</sup> The nine census divisions consist of New England, Middle Atlantic, East North Central, West North Central, South Atlantic, East South Central, West South Central, Mountain and Pacific. For a list of the States in each division, see Appendix E.

<sup>10</sup> The metropolitan-nonmetropolitan differences for the Mountain region, however, were not statistically significant.

Table 4-1. **Summary, metropolitan and nonmetropolitan areas:<sup>1</sup> Mean hourly earnings<sup>2</sup> and weekly hours by selected characteristics, National Compensation Survey,<sup>3</sup> 1998**

Worker and establishment characteristics and geographic areas	Total			Metropolitan areas			Nonmetropolitan areas		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>4</sup> (percent)		Mean	Relative error <sup>4</sup> (percent)		Mean	Relative error <sup>4</sup> (percent)	
<b>Total</b> .....	\$15.72	0.5	36.5	\$16.40	0.6	36.4	\$12.31	1.2	37.1
Private industry .....	14.95	.6	36.5	15.67	.7	36.3	11.16	1.3	37.2
State and local government .....	18.59	.6	36.6	19.23	.6	36.6	15.90	1.8	36.6
<b>Worker characteristics:<sup>5</sup></b>									
White-collar occupations <sup>6</sup> .....	19.39	.5	36.7	19.93	.6	36.7	15.65	1.5	36.9
Professional specialty and technical ...	24.10	.6	36.4	24.58	.6	36.4	20.76	1.0	36.3
Executive, administrative, and managerial .....	27.78	.7	40.0	28.35	.7	40.1	22.56	2.6	39.7
Sales .....	13.28	3.6	33.0	14.12	1.9	32.6	9.10	5.4	35.3
Administrative support .....	12.00	.5	37.0	12.23	.5	37.0	10.41	2.1	37.5
Blue-collar occupations <sup>6</sup> .....	12.90	.6	38.5	13.31	.6	38.4	11.36	2.2	38.9
Precision production, craft, and repair	16.58	1.0	39.8	17.14	.6	39.8	14.09	3.9	40.0
Machine operators, assemblers, and inspectors .....	11.59	.9	39.6	11.96	.9	39.5	10.49	2.3	39.7
Transportation and material moving ...	13.72	1.1	37.9	13.85	1.0	38.1	13.01	4.2	37.2
Handlers, equipment cleaners, helpers, and laborers .....	9.69	.7	35.9	9.84	.8	35.5	9.17	2.1	37.2
Service occupations <sup>6</sup> .....	9.52	.7	33.0	9.90	1.0	32.6	8.20	1.5	34.6
Full time .....	16.40	.5	39.6	17.17	.6	39.6	12.64	1.3	39.7
Part time .....	9.25	1.0	21.1	9.37	1.1	21.1	8.50	1.4	20.9
Union .....	17.76	.9	36.9	18.14	.7	36.7	15.18	4.6	38.0
Nonunion .....	15.10	.6	36.4	15.84	.7	36.3	11.70	1.3	36.9
Time .....	15.66	.5	36.4	16.33	.5	36.3	12.34	1.1	37.0
Incentive .....	17.14	2.7	38.6	17.91	2.7	38.4	11.21	7.8	40.0
<b>Establishment characteristics:</b>									
Goods producing <sup>7</sup> .....	16.00	.8	39.8	17.00	.8	39.8	12.37	2.1	40.0
Service producing <sup>7</sup> .....	14.40	.7	35.0	15.05	.8	34.9	10.12	1.1	35.2
50-99 workers <sup>8</sup> .....	13.04	1.1	35.2	13.48	1.3	35.1	11.14	2.0	35.2
100-499 workers .....	14.21	.7	36.3	14.66	.8	36.3	12.19	1.6	36.6
500-999 workers .....	16.45	1.4	37.3	16.94	1.2	37.1	14.55	3.8	38.2
1,000-2,499 workers .....	16.51	7.3	36.8	18.25	1.1	36.3	11.30	17.1	38.5
2,500 workers or more .....	20.07	.6	37.3	20.09	.6	37.2	18.96	4.6	39.7
<b>Geographic areas:<sup>9</sup></b>									
New England .....	17.38	1.4	35.1	17.75	1.2	35.2	14.75	3.6	34.2
Middle Atlantic .....	18.10	1.5	35.8	18.39	1.6	35.7	13.58	1.6	36.2
East North Central .....	16.08	.8	36.2	16.55	.8	36.2	13.55	1.3	36.5
West North Central .....	14.85	1.6	36.5	15.83	2.4	36.5	12.10	2.3	36.4
South Atlantic .....	14.40	1.0	37.1	14.89	.7	37.0	12.00	4.4	37.7
East South Central .....	11.87	2.3	37.7	13.88	2.2	36.9	9.97	4.3	38.6
West South Central .....	14.62	1.8	37.2	14.86	2.1	37.2	13.08	5.6	37.1
Mountain .....	14.58	2.7	36.4	14.73	3.4	36.5	13.99	3.3	36.0
Pacific .....	17.86	1.3	36.2	18.04	1.3	36.2	14.96	2.8	35.6

<sup>1</sup> Metropolitan areas can be a Metropolitan Statistical Area (MSA) or Consolidated Metropolitan Statistical Area (CMSA) as defined by the Office of Management and Budget, 1994. Nonmetropolitan areas are counties that do not fit the definitions above. For more information, see appendix E.

<sup>2</sup> 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.

<sup>3</sup> This survey covers all 50 States. Collection was conducted between July 1997 and April 1999. The average reference period was August 1998.

<sup>4</sup> 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.

<sup>5</sup> Employees are classified as working either a full-time or a part-time schedule

based on the definition used by each establishment. Union workers are those whose wages are determined through collective bargaining. Wages of time workers are based solely on hourly rate or salary; incentive workers are those whose wages are at least partially based on productivity payments such as piece rates, commissions, and production bonuses.

<sup>6</sup> A classification system including about 480 individual occupations is used to cover all workers in the civilian economy. See appendix B for more information.

<sup>7</sup> Classification of establishments into goods-producing and service-producing industries applies to private industry only.

<sup>8</sup> Establishments classified with 50-99 workers may contain establishments with fewer than 50 workers due to reduction in staff from the time of sampling to data collection.

<sup>9</sup> See appendix E for a list of survey areas and States comprising the 9 census area divisions.

Table 4-2. **United States: Mean hourly earnings<sup>1</sup> and weekly hours by metropolitan and nonmetropolitan areas<sup>2</sup> for selected occupations, National Compensation Survey,<sup>3</sup> 1998**

Occupation <sup>4</sup>	Total			Metropolitan			Nonmetropolitan		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)	
All .....	\$15.72	0.5	36.5	\$16.40	0.6	36.4	\$12.31	1.2	37.1
All excluding sales .....	15.89	.5	36.8	16.56	.6	36.7	12.54	1.2	37.2
<b>White collar</b> .....	19.39	.5	36.7	19.93	.6	36.7	15.65	1.5	36.9
White collar excluding sales .....	20.27	.5	37.3	20.72	.6	37.3	16.97	1.4	37.3
<b>Professional specialty and technical</b> .....	24.10	.6	36.4	24.58	.6	36.4	20.76	1.0	36.3
Professional specialty .....	25.90	.5	36.3	26.35	.6	36.3	22.75	1.1	36.2
Engineers, architects, and surveyors .....	28.97	.7	40.3	29.33	.6	40.3	24.67	4.5	40.3
Architects .....	25.85	5.7	40.1	25.76	5.7	40.1	—	—	—
Aerospace engineers .....	30.96	2.5	40.1	30.96	2.5	40.1	—	—	—
Metallurgical and materials engineers .....	27.28	5.0	40.2	27.28	5.0	40.2	—	—	—
Mining engineers .....	32.66	7.6	33.3	32.66	7.6	33.3	—	—	—
Petroleum engineers .....	43.02	4.4	40.5	42.71	5.0	40.6	—	—	—
Chemical engineers .....	33.37	2.2	40.0	33.20	2.9	40.0	—	—	—
Nuclear engineers .....	34.60	2.1	40.6	34.40	2.4	40.6	—	—	—
Civil engineers .....	27.69	2.3	40.1	28.00	2.3	40.0	23.74	5.6	41.2
Electrical and electronic engineers .....	30.35	1.1	40.3	30.47	1.1	40.4	25.38	10.7	40.0
Industrial engineers .....	25.26	2.4	40.6	25.74	1.2	40.6	23.64	9.2	40.5
Mechanical engineers .....	26.26	1.2	40.2	26.41	1.3	40.3	24.89	4.8	40.0
Marine engineers and naval architects .....	30.54	5.7	41.3	32.03	4.5	41.5	—	—	—
Engineers, n.e.c. ....	30.11	1.2	40.3	30.54	.9	40.3	20.76	7.3	40.0
Surveyors and mapping scientists .....	21.13	4.9	40.1	21.80	5.4	40.1	—	—	—
Mathematical and computer scientists .....	27.95	1.5	40.0	28.07	1.6	40.0	24.39	10.4	39.7
Computer systems analysts and scientists .....	27.89	1.3	40.1	28.09	1.3	40.1	21.58	5.7	39.6
Operations and systems researchers and analysts .....	28.56	6.8	39.6	28.27	7.3	39.6	—	—	—
Actuaries .....	27.38	9.2	39.4	27.38	9.2	39.4	—	—	—
Statisticians .....	23.77	8.4	38.0	23.97	8.8	37.9	—	—	—
Mathematical scientists, n.e.c. ....	24.88	8.2	38.8	24.88	8.2	38.8	—	—	—
Natural scientists .....	25.48	1.7	39.6	25.89	1.7	39.6	20.31	4.3	39.9
Physicists and astronomers .....	37.74	7.7	40.4	37.74	7.7	40.4	—	—	—
Chemists, except biochemists .....	28.62	3.4	40.0	28.62	3.4	40.0	—	—	—
Atmospheric and space scientists .....	22.91	15.0	41.3	22.91	15.0	41.3	—	—	—
Geologists and geodesists .....	30.68	6.3	40.4	31.42	6.3	40.5	—	—	—
Physical scientists, n.e.c. ....	26.56	2.4	39.9	26.86	2.5	39.9	—	—	—
Agricultural and food scientists .....	22.48	8.5	39.6	22.06	9.2	39.5	—	—	—
Biological and life scientists .....	21.66	7.3	39.2	21.79	7.9	39.1	—	—	—
Forestry and conservation scientists .....	20.34	3.5	40.1	21.20	8.0	40.7	—	—	—
Medical scientists .....	23.14	4.8	38.6	23.35	4.8	38.6	—	—	—
Health related .....	22.56	1.0	34.2	22.81	1.1	34.1	20.96	2.6	34.4
Physicians .....	38.55	5.4	39.6	36.21	5.5	39.5	61.90	7.8	41.3
Dentists .....	34.36	8.6	29.4	34.36	8.6	29.4	—	—	—
Optometrists .....	38.60	6.1	37.7	34.76	5.8	36.0	—	—	—
Health diagnosing practitioners, n.e.c. ....	19.82	12.7	33.9	19.82	12.7	33.9	—	—	—
Registered nurses .....	20.86	.7	33.5	21.36	.8	33.4	18.00	1.3	33.8
Pharmacists .....	27.35	1.9	34.8	27.56	2.0	35.1	25.43	3.2	31.9
Dietitians .....	16.70	1.8	36.9	16.99	1.5	36.6	—	—	—
Respiratory therapists .....	17.76	1.6	34.4	17.90	1.7	34.1	16.74	3.6	37.1
Occupational therapists .....	23.08	2.9	34.1	22.94	3.2	33.7	—	—	—
Physical therapists .....	23.92	2.3	34.4	24.70	2.4	33.7	19.83	6.1	38.3
Speech therapists .....	23.46	6.6	33.8	23.00	7.6	34.3	25.87	6.7	31.6
Therapists, n.e.c. ....	16.51	3.1	37.0	16.73	3.4	37.3	15.09	5.4	35.2
Physicians' assistants .....	26.36	4.1	38.3	25.90	4.8	37.9	—	—	—
Teachers, college and university .....	33.82	1.5	34.1	34.54	1.6	33.8	29.69	3.2	36.0
Earth, environmental, and marine science teachers .....	33.84	10.4	36.5	34.38	13.5	35.5	—	—	—
Biological science teachers .....	33.80	8.1	36.5	36.06	8.3	33.1	—	—	—
Chemistry teachers .....	31.61	7.3	40.4	32.38	9.8	38.6	—	—	—
Physics teachers .....	47.49	7.0	37.1	49.76	6.4	36.5	—	—	—
Natural science teachers, n.e.c. ....	38.48	6.3	38.8	38.73	6.5	38.7	—	—	—
Psychology teachers .....	32.26	6.4	33.5	32.16	6.6	33.3	—	—	—
Economics teachers .....	46.28	11.2	43.1	51.65	5.9	39.2	—	—	—
History teachers .....	32.36	5.4	36.6	33.01	5.9	36.9	—	—	—
Political science teachers .....	33.60	6.2	37.2	34.26	6.8	36.9	—	—	—
Sociology teachers .....	36.75	8.3	34.6	37.47	8.7	35.3	—	—	—
Social science teachers, n.e.c. ....	32.95	7.2	37.3	33.84	8.3	37.8	—	—	—

See footnotes at end of table.

Table 4-2. **United States: Mean hourly earnings<sup>1</sup> and weekly hours by metropolitan and nonmetropolitan areas<sup>2</sup> for selected occupations, National Compensation Survey,<sup>3</sup> 1998—Continued**

Occupation <sup>4</sup>	Total			Metropolitan			Nonmetropolitan		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)	
<b>White collar</b> —Continued									
<b>Professional specialty and technical</b> —Continued									
Professional specialty—Continued									
Teachers, college and university—Continued									
Engineering teachers .....	\$38.51	12.0	37.5	\$41.93	13.4	33.4	—	—	—
Mathematical science teachers .....	33.59	6.2	33.3	34.79	6.8	33.3	—	—	—
Computer science teachers .....	25.48	11.3	30.5	25.41	13.6	29.5	\$25.80	7.1	36.0
Medical science teachers .....	44.51	5.8	38.9	44.58	6.1	38.8	—	—	—
Health specialties teachers .....	33.96	7.5	36.8	34.51	7.7	37.1	26.47	6.3	33.5
Business, commerce, and marketing teachers .....	35.50	6.5	34.8	35.63	7.4	35.0	34.59	6.5	33.8
Agriculture and forestry teachers .....	42.82	26.4	35.5	—	—	—	45.72	26.3	34.8
Art, drama, and music teachers .....	29.29	2.9	31.9	27.99	2.6	31.9	36.70	11.9	32.0
Physical education teachers .....	25.28	8.7	33.4	24.85	9.9	33.9	—	—	—
Education teachers .....	31.19	9.1	35.1	31.29	11.2	34.5	30.80	6.0	38.0
English teachers .....	32.60	4.8	33.1	33.35	5.2	33.0	27.75	6.5	33.6
Foreign language teachers .....	26.29	13.4	33.2	31.68	4.0	28.9	—	—	—
Law teachers .....	58.19	8.2	35.9	58.19	8.2	35.9	—	—	—
Social work teachers .....	25.91	7.4	32.7	25.91	7.4	32.7	—	—	—
Theology teachers .....	35.46	4.2	39.1	36.94	3.5	39.0	—	—	—
Trade and industrial teachers .....	27.22	3.3	32.4	25.83	5.7	27.0	28.23	2.6	37.8
Home economics teachers .....	29.92	14.9	30.4	—	—	—	—	—	—
Teachers, post secondary, subject not specified .....	33.48	7.2	32.1	36.47	6.9	32.0	25.88	7.9	32.2
Teachers, post secondary, n.e.c. ....	31.26	1.9	31.5	31.46	2.0	31.9	28.79	6.2	27.2
Teachers, except college and university .....	26.82	.8	34.6	27.62	.8	34.2	23.68	1.1	36.1
Prekindergarten and kindergarten .....	21.09	3.9	35.1	20.72	4.4	35.0	23.94	2.9	36.1
Elementary school teachers .....	27.72	.9	36.1	28.76	1.0	35.7	23.73	1.3	37.8
Secondary school teachers .....	27.86	1.2	36.7	29.07	1.3	36.5	24.14	1.6	37.6
Teachers, special education .....	28.18	1.9	35.5	29.02	2.0	35.2	23.79	2.9	37.0
Teachers, n.e.c. ....	26.51	2.6	30.8	26.98	2.6	30.1	24.43	6.4	34.3
Substitute teachers .....	10.00	3.5	16.1	10.26	3.3	17.1	8.66	13.9	12.4
Vocational and educational counselors .....	24.78	3.8	36.5	25.11	4.4	36.4	23.19	5.0	37.2
Librarians, archivists, and curators .....	21.39	2.2	36.5	21.75	2.1	36.8	19.13	9.0	35.1
Librarians .....	21.53	2.3	36.5	21.87	2.1	36.7	19.54	9.2	35.1
Archivists and curators .....	20.33	7.7	37.1	20.89	7.8	37.2	—	—	—
Social scientists and urban planners .....	23.65	3.0	36.7	23.83	3.2	36.5	21.17	6.6	39.2
Economists .....	25.93	3.8	39.8	26.19	3.8	39.8	—	—	—
Psychologists .....	23.81	5.0	34.6	23.95	5.4	34.2	22.45	7.0	38.9
Sociologists .....	17.54	3.2	39.3	17.54	3.2	39.3	—	—	—
Social scientists, n.e.c. ....	16.66	10.9	37.7	16.23	11.5	37.5	—	—	—
Urban planners .....	22.08	3.5	36.8	22.41	3.4	36.5	—	—	—
Social, recreation, and religious workers .....	15.87	1.3	37.6	16.01	1.4	37.4	14.96	2.6	38.4
Social workers .....	16.06	1.3	37.8	16.20	1.5	37.7	15.21	2.8	38.9
Recreation workers .....	13.11	3.7	33.4	13.32	3.8	33.5	11.93	12.6	32.7
Clergy .....	15.21	15.8	42.2	15.21	15.8	42.2	—	—	—
Religious workers, n.e.c. ....	20.55	15.8	36.6	20.55	15.8	36.6	—	—	—
Lawyers and judges .....	36.62	2.4	40.0	37.00	2.5	40.6	31.47	14.0	33.4
Lawyers .....	36.30	2.6	40.3	36.90	2.6	40.9	22.02	6.6	30.7
Judges .....	42.18	7.0	34.7	40.94	7.8	31.6	43.12	10.2	37.4
Writers, authors, entertainers, athletes, and professionals, n.e.c. ....	23.92	3.8	36.4	24.31	3.9	36.5	13.92	5.3	33.4
Technical writers .....	21.50	6.8	38.9	21.57	6.9	38.9	—	—	—
Designers .....	22.27	3.9	39.7	22.27	3.9	39.7	—	—	—
Musicians and composers .....	36.96	20.4	15.4	37.70	20.4	15.5	—	—	—
Actors and directors .....	33.29	21.2	34.5	33.29	21.2	34.5	—	—	—
Painters, sculptors, craft artists, and artist printmakers .....	25.94	23.5	39.6	26.72	23.8	39.5	—	—	—
Photographers .....	17.11	7.1	38.9	17.88	6.2	38.8	—	—	—
Artists, performers, and related workers, n.e.c. ....	13.30	9.6	27.1	13.30	9.6	27.1	—	—	—
Editors and reporters .....	23.14	4.9	38.7	23.18	4.9	38.8	—	—	—
Public relations specialists .....	20.57	4.9	36.6	21.85	3.5	36.1	14.60	13.2	39.2
Announcers .....	22.52	21.9	25.7	25.60	20.4	31.1	—	—	—
Athletes .....	33.28	40.1	23.9	36.62	42.4	22.8	14.15	10.6	33.2
Professional, n.e.c. ....	25.63	3.1	38.9	25.64	3.1	38.9	—	—	—

See footnotes at end of table.



Table 4-2. **United States: Mean hourly earnings<sup>1</sup> and weekly hours by metropolitan and nonmetropolitan areas<sup>2</sup> for selected occupations, National Compensation Survey,<sup>3</sup> 1998–Continued**

Occupation <sup>4</sup>	Total			Metropolitan			Nonmetropolitan		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)	
<b>White collar –Continued</b>									
<b>Professional specialty and technical –Continued</b>									
Technical .....	\$17.83	1.2	36.8	\$18.43	1.3	36.8	\$13.37	2.0	36.6
Clinical laboratory technologists and technicians ....	15.39	1.7	37.2	15.42	1.8	37.0	15.11	5.4	38.8
Dental hygienists .....	19.86	8.2	35.7	19.91	8.3	35.7	–	–	–
Health record technologists and technicians .....	12.17	3.6	34.6	12.69	2.9	34.6	9.85	9.5	34.7
Radiological technicians .....	16.91	1.7	33.5	17.35	1.7	33.3	13.32	2.2	34.8
Licensed practical nurses .....	12.98	.9	34.8	13.62	.9	34.4	11.18	1.1	35.9
Health technologists and technicians, n.e.c. ....	13.35	1.2	35.0	13.59	1.1	35.3	11.50	4.3	32.7
Electrical and electronic technicians .....	18.35	1.8	39.8	18.46	1.8	39.7	16.42	12.5	40.0
Industrial engineering technicians .....	18.71	4.6	40.3	17.48	2.1	40.5	–	–	–
Mechanical engineering technicians .....	19.24	4.0	40.1	19.19	4.0	40.1	–	–	–
Engineering technicians, n.e.c. ....	18.80	1.6	39.3	19.13	1.5	39.3	14.79	6.9	39.9
Drafters .....	18.71	3.9	39.6	19.07	4.0	39.6	15.26	8.4	39.9
Surveying and mapping technicians .....	15.92	5.6	39.6	16.00	6.2	39.7	–	–	–
Biological technicians .....	15.13	4.4	37.1	15.73	4.5	36.8	11.75	11.6	39.5
Chemical technicians .....	17.11	2.3	39.7	17.67	2.3	39.9	–	–	–
Science technicians, n.e.c. ....	18.18	3.2	38.3	18.40	3.4	38.1	–	–	–
Airplane pilots and navigators .....	79.22	9.4	23.6	87.12	7.6	22.2	–	–	–
Broadcast equipment operators .....	17.82	11.0	35.7	17.82	11.1	35.7	–	–	–
Computer programmers .....	22.06	1.9	39.5	22.26	1.8	39.5	–	–	–
Tool programmers, numerical control .....	17.32	4.7	40.1	17.32	4.7	40.1	–	–	–
Legal assistants .....	17.19	2.6	39.3	17.32	2.7	39.3	–	–	–
Technical and related, n.e.c. ....	18.60	1.7	38.4	18.86	1.7	38.6	15.51	8.7	36.3
<b>Executive, administrative, and managerial .....</b>	<b>27.78</b>	<b>.7</b>	<b>40.0</b>	<b>28.35</b>	<b>.7</b>	<b>40.1</b>	<b>22.56</b>	<b>2.6</b>	<b>39.7</b>
Executives, administrators, and managers .....	31.73	.9	40.3	32.69	.9	40.4	24.25	3.0	39.8
Legislators .....	15.09	13.3	13.2	15.26	10.6	14.3	14.73	34.4	11.2
Chief executives and general administrators, public administration .....	60.36	32.1	39.7	64.67	36.7	40.3	–	–	–
Administrators and officials, public administration ...	25.80	1.7	39.1	26.90	1.6	39.4	20.75	4.6	37.4
Financial managers .....	32.82	2.3	40.2	33.81	2.2	40.2	24.52	9.0	39.8
Personnel and labor relations managers .....	32.18	3.1	41.1	33.50	2.4	41.0	22.85	12.0	41.9
Purchasing managers .....	28.91	3.4	41.1	29.82	3.2	41.3	24.23	15.0	40.0
Managers, marketing, advertising, and public relations .....	35.26	2.0	40.8	35.52	2.0	40.8	29.38	11.3	39.9
Administrators, education and related fields .....	31.96	1.7	39.1	32.43	1.9	39.1	29.99	2.7	38.8
Managers, medicine and health .....	29.33	2.3	39.7	30.57	2.1	39.6	22.09	7.4	40.1
Managers, food servicing and lodging establishments .....	18.24	3.3	42.7	18.78	3.4	42.1	15.22	7.2	45.8
Managers, properties and real estate .....	23.18	8.9	40.5	23.18	8.9	40.5	–	–	–
Funeral directors .....	25.26	14.3	40.3	25.26	14.3	40.3	–	–	–
Managers, service organizations, n.e.c. ....	23.33	11.6	39.6	26.96	3.8	39.6	–	–	–
Managers and administrators, n.e.c. ....	34.38	1.4	41.2	34.85	1.4	41.1	28.45	7.1	43.1
Management related .....	21.88	.8	39.6	22.14	.8	39.6	18.45	3.2	39.5
Accountants and auditors .....	20.38	1.8	39.6	20.82	1.4	39.6	15.23	9.1	39.8
Underwriters .....	25.67	5.0	39.3	26.20	5.1	39.4	–	–	–
Other financial officers .....	24.80	3.4	39.8	24.85	3.6	39.9	23.87	8.6	38.7
Management analysts .....	23.54	2.1	40.0	23.61	2.1	40.0	–	–	–
Personnel, training, and labor relations specialists ..	21.11	2.3	39.7	21.42	1.9	39.7	16.74	16.1	40.0
Purchasing agents and buyers, farm products .....	18.92	9.5	39.9	20.09	4.5	39.7	–	–	–
Buyers, wholesale and retail trade, except farm products .....	23.20	5.8	40.6	23.18	6.1	40.6	–	–	–
Purchasing agents and buyers, n.e.c. ....	21.84	2.2	39.9	22.06	2.2	39.9	17.58	5.2	39.7
Business and promotional agents .....	17.79	5.7	39.7	17.84	6.6	39.7	–	–	–
Construction inspectors .....	19.97	3.4	39.5	20.22	3.3	39.5	–	–	–
Inspectors and compliance officers, except construction .....	19.23	3.5	38.9	19.45	3.7	39.1	16.26	12.4	36.8
Management related, n.e.c. ....	22.31	1.2	39.4	22.45	1.3	39.4	20.78	5.7	39.7
<b>Sales .....</b>	<b>13.28</b>	<b>3.6</b>	<b>33.0</b>	<b>14.12</b>	<b>1.9</b>	<b>32.6</b>	<b>9.10</b>	<b>5.4</b>	<b>35.3</b>
Supervisors, sales .....	20.02	4.0	40.6	20.64	4.3	40.7	15.07	7.8	39.8
Insurance sales .....	21.59	14.1	36.0	21.65	14.4	35.9	–	–	–

See footnotes at end of table.

Table 4-2. **United States: Mean hourly earnings<sup>1</sup> and weekly hours by metropolitan and nonmetropolitan areas<sup>2</sup> for selected occupations, National Compensation Survey,<sup>3</sup> 1998—Continued**

Occupation <sup>4</sup>	Total			Metropolitan			Nonmetropolitan		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)	
<b>White collar —Continued</b>									
<b>Sales —Continued</b>									
Real estate sales .....	\$35.63	18.1	40.3	\$35.94	18.0	40.7	—	—	—
Securities and financial services sales .....	37.13	9.6	39.9	37.18	9.6	39.9	—	—	—
Advertising and related sales .....	19.62	6.4	38.3	21.05	3.7	38.0	—	—	—
Sales, other business services .....	19.42	5.6	36.7	20.07	5.2	36.8	—	—	—
Sales engineers .....	27.46	4.4	42.3	27.36	4.4	42.2	—	—	—
Sales representatives, mining, manufacturing, and wholesale .....	24.77	3.1	40.9	24.89	3.2	40.7	\$23.27	11.7	44.4
Sales workers, motor vehicles and boats .....	18.96	3.1	45.0	19.10	2.8	44.9	—	—	—
Sales workers, apparel .....	8.28	4.0	27.1	8.33	4.0	27.0	—	—	—
Sales workers, shoes .....	9.65	6.6	27.9	9.65	6.6	27.9	—	—	—
Sales workers, furniture and home furnishings .....	11.02	11.3	29.7	12.01	9.0	30.4	—	—	—
Sales workers, radio, tv, hi-fi, and appliances .....	10.18	6.3	35.4	10.33	6.3	35.2	—	—	—
Sales workers, hardware and building supplies .....	10.95	5.3	36.9	11.43	4.7	36.6	—	—	—
Sales workers, parts .....	14.38	4.6	38.8	14.80	4.5	38.4	—	—	—
Sales workers, other commodities .....	9.69	2.1	29.9	9.84	2.1	29.7	8.08	9.1	32.5
Sales counter clerks .....	8.15	3.1	28.5	8.09	3.2	27.8	8.60	9.6	35.3
Cashiers .....	7.80	1.3	30.1	7.76	1.1	28.0	—	—	—
Street and door-to-door sales workers .....	12.96	11.6	30.0	13.93	9.8	32.2	—	—	—
News vendors .....	7.78	11.7	20.9	7.91	13.2	25.9	—	—	—
Demonstrators, promoters, and models, sales .....	9.69	7.7	22.1	9.68	7.8	22.1	—	—	—
Sales support, n.e.c. ....	12.69	3.1	36.3	12.89	3.2	36.5	10.14	7.9	33.6
<b>Administrative support, including clerical</b>									
Supervisors, general office .....	12.00	.5	37.0	12.23	.5	37.0	10.41	2.1	37.5
Supervisors, general office .....	16.78	1.4	39.6	16.85	1.4	39.5	15.80	6.0	40.0
Supervisors, computer equipment operators .....	20.72	3.5	39.9	19.74	3.6	39.4	—	—	—
Supervisors, financial records processing .....	17.81	1.8	39.5	18.06	1.8	39.7	14.50	6.8	37.0
Chief communications operators .....	16.89	6.5	40.3	16.90	7.8	40.4	—	—	—
Supervisors, distribution, scheduling, and adjusting clerks .....	17.67	3.0	40.1	17.54	2.8	40.0	18.43	10.8	40.5
Computer operators .....	14.08	1.8	39.2	14.15	1.8	39.2	13.17	8.8	38.9
Peripheral equipment operators .....	10.27	3.5	38.3	10.24	3.5	38.4	—	—	—
Secretaries .....	13.39	.7	38.2	13.65	.7	38.2	11.38	3.0	38.0
Stenographers .....	14.15	2.6	36.0	14.70	2.5	35.9	10.21	3.0	37.2
Typists .....	11.91	1.4	37.1	12.06	1.4	37.0	10.35	5.1	38.7
Interviewers .....	9.86	1.8	33.9	10.20	1.6	33.5	8.42	3.4	35.6
Hotel clerks .....	8.58	3.5	36.8	8.66	3.8	37.4	8.12	7.0	33.8
Transportation ticket and reservation agents .....	11.69	9.9	36.0	13.19	2.7	35.8	—	—	—
Receptionists .....	9.22	1.1	35.3	9.40	1.1	35.0	8.08	3.4	37.5
Information clerks, n.e.c. ....	11.77	3.2	36.4	11.85	3.2	36.3	9.33	15.0	40.0
Classified ad clerks .....	10.38	12.9	35.2	11.89	8.4	34.2	—	—	—
Correspondence clerks .....	11.94	3.3	38.0	11.94	3.3	38.0	—	—	—
Order clerks .....	11.94	2.2	37.6	11.99	2.3	37.5	11.10	7.9	39.8
Personnel clerks, except payroll and timekeeping ...	12.71	1.8	38.0	12.81	1.8	37.9	—	—	—
Library clerks .....	10.48	1.9	30.0	10.94	1.7	28.9	9.16	4.0	33.7
File clerks .....	9.08	1.6	35.5	9.17	1.7	35.7	7.50	2.3	32.6
Records clerks, n.e.c. ....	11.07	1.2	37.8	11.51	1.4	37.5	9.14	4.5	39.0
Bookkeepers, accounting and auditing clerks .....	11.74	.8	38.4	11.90	.8	38.4	11.15	1.9	38.3
Payroll and timekeeping clerks .....	12.62	1.8	38.2	12.74	1.7	38.3	11.98	6.9	37.9
Billing clerks .....	11.00	1.5	38.5	11.25	1.3	38.5	9.60	3.6	38.7
Cost and rate clerks .....	11.76	6.8	39.7	12.83	3.4	39.6	—	—	—
Billing, posting, and calculating machine operators	10.15	5.1	33.2	10.24	5.1	33.1	—	—	—
Duplicating machine operators .....	9.52	2.4	36.1	9.52	2.4	36.1	—	—	—
Mail preparing and paper handling machine operators .....	9.36	5.0	35.6	9.36	5.0	35.6	—	—	—
Office machine operators, n.e.c. ....	8.71	4.6	36.5	8.75	4.7	36.9	—	—	—
Telephone operators .....	11.48	3.5	36.2	11.66	3.5	35.9	9.71	9.6	39.9
Communications equipment operators, n.e.c. ....	10.41	3.9	33.6	10.25	4.3	34.8	—	—	—
Mail clerks, except postal service .....	9.10	3.0	36.1	9.37	2.8	36.5	6.14	11.5	31.5
Messengers .....	8.92	6.8	36.3	8.99	7.1	36.4	6.89	1.8	34.3
Dispatchers .....	12.92	3.7	38.3	13.52	4.0	38.1	10.36	8.0	39.1
Production coordinators .....	14.69	1.8	38.9	15.04	1.8	38.9	13.26	3.7	38.9

See footnotes at end of table.

Table 4-2. **United States: Mean hourly earnings<sup>1</sup> and weekly hours by metropolitan and nonmetropolitan areas<sup>2</sup> for selected occupations, National Compensation Survey,<sup>3</sup> 1998—Continued**

Occupation <sup>4</sup>	Total			Metropolitan			Nonmetropolitan		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)	
<b>White collar —Continued</b>									
<b>Administrative support, including clerical —Continued</b>									
Traffic, shipping and receiving clerks .....	\$11.50	3.0	37.8	\$11.36	1.3	37.4	\$12.11	13.6	39.7
Stock and inventory clerks .....	11.27	1.5	36.2	11.35	1.6	35.9	10.67	4.0	38.5
Meter readers .....	15.08	3.9	39.5	15.15	4.1	39.5	14.18	9.3	40.0
Weighers, measurers, checkers, and samplers .....	12.73	5.7	36.3	12.78	5.8	37.7	—	—	—
Expeditors .....	13.12	3.0	38.0	13.18	3.1	38.0	—	—	—
Material recording, scheduling, and distribution clerks, n.e.c. ....	11.79	3.3	37.5	11.60	2.7	37.7	13.76	18.0	35.5
Insurance adjusters, examiners, and investigators ..	14.96	2.9	39.0	15.00	3.0	39.0	13.39	7.0	39.2
Investigators and adjusters, except insurance .....	12.61	2.6	38.3	12.78	2.6	38.2	9.01	10.2	39.8
Eligibility clerks, social welfare .....	13.02	2.1	38.4	13.09	2.3	38.4	12.50	3.7	38.1
Bill and account collectors .....	11.65	2.7	38.5	11.63	2.8	38.6	11.95	6.9	37.2
General office clerks .....	11.25	.8	36.7	11.41	.8	36.7	10.06	1.2	37.2
Bank tellers .....	8.97	1.4	32.2	9.03	1.4	32.3	7.87	2.4	31.9
Proofreaders .....	12.53	13.2	38.1	13.21	12.4	37.8	—	—	—
Data entry keyers .....	10.04	1.4	37.6	10.11	1.5	37.5	9.18	3.6	39.0
Statistical clerks .....	11.56	3.9	37.2	11.89	3.8	36.7	—	—	—
Teachers' aides .....	9.52	1.8	30.6	9.78	2.0	30.0	8.65	3.2	32.5
Administrative support, n.e.c. ....	12.06	1.7	36.6	12.48	1.3	36.5	9.07	5.0	37.3
<b>Blue collar .....</b>	<b>12.90</b>	<b>.6</b>	<b>38.5</b>	<b>13.31</b>	<b>.6</b>	<b>38.4</b>	<b>11.36</b>	<b>2.2</b>	<b>38.9</b>
<b>Precision production, craft, and repair .....</b>									
Supervisors, mechanics and repairers .....	21.96	1.7	40.7	22.37	1.4	40.5	19.35	7.5	42.1
Automobile mechanics .....	17.25	2.7	40.5	17.62	2.5	40.5	11.86	8.9	40.5
Automobile mechanic apprentices .....	10.43	6.0	39.8	10.43	6.0	39.8	—	—	—
Bus, truck, and stationary engine mechanics .....	15.45	1.9	40.2	15.79	1.7	40.0	12.72	6.6	41.4
Aircraft engine mechanics .....	21.79	3.2	40.0	21.20	1.9	40.0	—	—	—
Small engine repairs .....	12.25	6.1	35.9	12.40	6.5	35.4	—	—	—
Automobile body and related repairers .....	16.55	5.1	40.8	17.20	4.7	40.4	—	—	—
Aircraft mechanics, except engine .....	19.28	2.4	40.0	19.34	2.5	40.0	—	—	—
Heavy equipment mechanics .....	17.28	3.1	40.0	17.68	2.7	40.0	15.55	9.9	40.0
Farm equipment mechanics .....	14.58	10.6	40.0	14.58	10.6	40.0	—	—	—
Industrial machinery repairers .....	16.58	1.9	39.9	16.91	.9	39.9	15.86	5.9	39.9
Machinery maintenance .....	13.51	2.6	39.8	13.94	2.1	39.8	12.69	5.6	39.8
Electronic repairers, communications and industrial equipment .....	17.57	3.6	39.4	17.70	3.7	39.4	14.66	12.0	40.0
Data processing equipment repairers .....	16.57	3.3	37.8	16.63	3.5	37.6	—	—	—
Household appliance and power tool repairers .....	16.77	6.1	38.3	16.70	6.6	38.2	—	—	—
Telephone line installers and repairers .....	19.28	3.0	39.6	19.48	2.9	39.6	17.00	10.9	40.0
Telephone installers and repairers .....	18.00	1.8	39.9	17.91	1.9	39.9	20.30	3.9	40.0
Heating, air conditioning, and refrigeration mechanics .....	16.16	2.3	39.7	16.33	2.4	39.7	—	—	—
Camera, watch, and musical instrument repairers ..	16.47	14.1	40.0	16.47	14.1	40.0	—	—	—
Locksmiths and safe repairers .....	17.30	4.8	40.0	17.30	4.8	40.0	—	—	—
Office machine repairers .....	16.09	5.0	40.0	16.09	5.0	40.0	—	—	—
Mechanical controls and valve repairers .....	18.11	4.0	39.5	18.22	4.2	39.4	17.16	12.2	40.0
Elevator installers and repairers .....	19.27	23.4	40.0	—	—	—	—	—	—
Millwrights .....	19.06	5.5	40.1	18.75	2.6	40.1	—	—	—
Mechanics and repairers, n.e.c. ....	15.62	1.4	39.7	16.16	1.0	39.7	13.64	5.1	39.5
Supervisors, brickmasons, stonemasons, and tilesetters .....	18.44	5.3	40.0	18.63	5.3	40.0	—	—	—
Supervisors, carpenters and related workers .....	21.04	5.8	40.3	21.03	5.8	40.3	—	—	—
Supervisors, electricians and power transmission installers .....	22.78	4.8	40.0	24.51	3.6	40.0	18.57	7.4	40.0
Supervisors, painters, paperhangers, and plasterers .....	18.30	2.3	40.4	18.30	2.3	40.4	—	—	—
Supervisors, plumbers, pipefitters, and steamfitters .....	23.27	6.6	40.1	23.36	6.8	40.1	—	—	—
Supervisors, construction trades, n.e.c. ....	18.58	3.1	40.3	19.30	2.9	40.4	15.81	8.7	40.1
Brickmasons and stonemasons .....	16.56	5.5	40.0	17.37	3.2	40.0	—	—	—
Brickmason and stonemason apprentices .....	12.73	9.6	40.0	12.73	9.6	40.0	—	—	—
Carpet installers .....	24.12	4.9	39.0	24.12	4.9	39.0	—	—	—

See footnotes at end of table.

Table 4-2. **United States: Mean hourly earnings<sup>1</sup> and weekly hours by metropolitan and nonmetropolitan areas<sup>2</sup> for selected occupations, National Compensation Survey,<sup>3</sup> 1998–Continued**

Occupation <sup>4</sup>	Total			Metropolitan			Nonmetropolitan		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)	
<b>Blue collar –Continued</b>									
<b>Precision production, craft, and repair –Continued</b>									
Carpenters .....	\$17.04	2.1	39.6	\$17.10	2.1	39.6	\$16.53	8.9	39.6
Carpenter apprentices .....	12.47	3.6	40.0	12.51	4.0	40.0	–	–	–
Drywall installers .....	15.46	2.3	39.8	15.46	2.3	39.8	–	–	–
Electricians .....	18.91	1.9	39.9	19.55	2.0	39.9	16.20	3.9	40.0
Electrician apprentices .....	13.27	6.3	40.0	12.97	6.6	40.0	–	–	–
Electrical power installers and repairers .....	21.47	2.7	40.0	22.42	1.4	40.0	18.37	6.8	40.0
Painters, construction and maintenance .....	15.60	5.7	39.4	15.67	6.0	39.3	–	–	–
Plasterers .....	18.61	16.4	40.0	18.61	16.4	40.0	–	–	–
Plumbers, pipefitters and steamfitters .....	20.08	2.0	39.9	20.30	1.9	39.9	15.55	11.0	40.0
Plumber, pipefitter, and steamfitter apprentices .....	14.33	4.4	39.9	14.33	4.4	39.9	–	–	–
Concrete and terrazzo finishers .....	14.23	8.3	39.7	14.25	8.4	39.7	–	–	–
Glaziers .....	17.30	6.6	38.9	17.30	6.6	38.9	–	–	–
Insulation workers .....	11.88	6.0	35.2	12.09	6.2	34.9	–	–	–
Paving, surfacing, and tamping equipment operators .....	11.48	12.0	40.0	14.99	11.0	40.0	–	–	–
Roofers .....	13.64	6.2	34.5	13.64	6.2	34.5	–	–	–
Sheetmetal duct installers .....	19.43	8.1	38.8	19.43	8.1	38.8	–	–	–
Structural metal workers .....	16.57	4.6	39.6	16.71	4.9	39.6	–	–	–
Drillers, earth .....	11.49	10.6	40.0	–	–	–	–	–	–
Construction trades, n.e.c. ....	14.76	2.8	39.3	15.82	2.3	39.1	11.72	6.6	39.6
Supervisors, extractive .....	22.05	14.5	41.2	21.10	4.7	41.5	–	–	–
Drillers, oil well .....	17.37	2.6	41.3	17.37	2.6	41.3	–	–	–
Explosives workers .....	15.91	16.0	39.6	–	–	–	–	–	–
Mining machine operators .....	18.63	6.4	40.0	15.50	3.9	40.0	18.86	6.8	40.0
Mining, n.e.c. ....	19.72	3.6	40.1	15.02	8.9	40.8	20.42	2.5	40.0
Supervisors, production .....	19.00	2.6	40.7	19.80	1.5	40.7	16.19	9.1	40.5
Tool and die makers .....	19.72	1.8	40.0	19.92	1.5	40.0	–	–	–
Tool and die maker apprentices .....	14.33	4.9	40.0	14.33	4.9	40.0	–	–	–
Precision assemblers, metal .....	16.19	3.0	40.0	16.19	3.0	40.0	–	–	–
Machinists .....	17.12	1.1	40.0	17.14	1.1	40.0	–	–	–
Machinist apprentices .....	12.63	4.9	40.0	12.63	4.9	40.0	–	–	–
Boilermakers .....	18.28	5.2	39.9	18.28	5.2	39.9	–	–	–
Precision grinders, filers, and tool sharpeners .....	14.90	4.7	40.1	14.90	4.7	40.1	–	–	–
Patternmakers and modelmakers, metal .....	18.21	5.7	40.0	18.21	5.7	40.0	–	–	–
Layout workers .....	14.87	4.9	40.0	14.87	4.9	40.0	–	–	–
Precious stones and metals workers .....	8.98	8.8	39.3	10.14	6.8	38.8	–	–	–
Engravers, metal .....	15.41	22.7	39.2	15.41	22.7	39.2	–	–	–
Sheet metal workers .....	16.76	5.1	40.0	17.14	4.9	40.0	–	–	–
Sheet metal worker apprentices .....	13.39	7.0	37.1	13.39	7.0	37.1	–	–	–
Cabinet makers and bench carpenters .....	11.20	4.7	39.7	11.24	4.8	39.7	–	–	–
Furniture and wood finishers .....	11.68	2.5	40.0	11.87	5.9	40.0	–	–	–
Tailors .....	11.86	3.4	39.5	11.86	3.4	39.5	–	–	–
Upholsterers .....	12.57	9.3	39.6	14.11	2.3	39.4	–	–	–
Hand molders and shapers, except jewelers .....	16.34	3.1	40.2	16.34	3.1	40.2	–	–	–
Patternmakers, layout workers, and cutters .....	19.77	7.8	39.9	19.77	7.8	39.9	–	–	–
Optical goods workers .....	11.00	12.8	39.7	11.00	12.8	39.7	–	–	–
Dental laboratory and medical appliance technicians .....	14.47	10.8	39.5	14.47	10.8	39.5	–	–	–
Bookbinders .....	13.57	6.1	39.4	13.79	8.4	39.1	–	–	–
Electrical and electronic equipment assemblers .....	9.78	3.0	39.8	10.36	1.8	39.7	8.94	5.8	40.0
Miscellaneous precision workers, n.e.c. ....	15.51	5.4	39.8	15.35	6.0	39.8	15.95	11.6	40.0
Precision food production .....	10.90	7.3	40.0	10.90	7.3	40.0	–	–	–
Butchers and meat cutters .....	10.20	3.5	38.5	10.71	3.6	37.8	–	–	–
Bakers .....	9.82	4.9	36.7	9.91	5.0	36.6	–	–	–
Food batchmakers .....	10.48	5.2	38.7	10.47	5.4	38.7	–	–	–
Inspectors, testers, and graders .....	16.37	2.2	40.2	16.29	2.2	40.2	20.36	13.5	40.9
Precision inspectors, testers, and related workers, n.e.c. ....	19.04	6.6	40.0	19.04	6.6	40.0	–	–	–
Adjusters and calibrators .....	13.36	14.1	39.6	13.36	14.1	39.6	–	–	–
Water and sewer treatment plant operators .....	15.53	2.8	39.4	15.69	2.6	39.3	14.52	12.9	40.0
Power plant operators .....	22.02	1.9	39.7	21.71	1.4	39.9	–	–	–

See footnotes at end of table.

Table 4-2. **United States: Mean hourly earnings<sup>1</sup> and weekly hours by metropolitan and nonmetropolitan areas<sup>2</sup> for selected occupations, National Compensation Survey,<sup>3</sup> 1998—Continued**

Occupation <sup>4</sup>	Total			Metropolitan			Nonmetropolitan		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)	
<b>Blue collar—Continued</b>									
<b>Precision production, craft, and repair—Continued</b>									
Stationary engineers .....	\$19.02	3.1	39.5	\$18.72	3.1	39.5	\$21.27	8.0	39.4
Miscellaneous plant and system operators, n.e.c. ....	21.34	2.2	40.1	21.58	2.2	40.1	17.92	1.7	40.0
<b>Machine operators, assemblers, and inspectors .....</b>									
Lathe and turning machine set-up operators .....	14.03	2.6	40.0	14.32	2.2	40.0	—	—	—
Lathe and turning machine operators .....	12.83	6.3	39.9	14.52	3.0	39.8	—	—	—
Milling and planing machine operators .....	13.38	6.9	40.0	14.70	6.1	40.0	—	—	—
Punching and stamping press operators .....	12.08	3.0	39.8	12.36	2.7	39.7	—	—	—
Rolling machine operators .....	13.46	6.1	40.3	13.96	4.3	40.4	—	—	—
Drilling and boring machine operators .....	11.39	12.2	40.0	13.33	3.7	40.0	—	—	—
Grinding, abrading, buffing, and polishing machine operators .....	11.58	2.9	39.9	11.92	2.0	39.8	10.92	8.3	40.0
Forging machine operators .....	12.86	4.5	39.9	13.15	5.0	39.8	—	—	—
Numerical control machine operators .....	13.57	2.1	40.0	13.85	2.1	40.0	—	—	—
Fabricating machine operators, n.e.c. ....	13.29	2.3	40.0	13.98	1.9	40.1	11.20	4.2	40.0
Molding and casting machine operators .....	10.36	2.9	39.8	10.20	2.9	39.8	11.19	7.3	40.0
Metal plating machine operators .....	11.98	3.3	40.0	11.98	3.3	40.0	—	—	—
Heat treating equipment operators .....	13.78	2.4	40.0	13.90	4.6	40.0	—	—	—
Wood lathe, routing, and planing machine operators .....	10.60	11.3	37.1	11.97	7.6	36.2	—	—	—
Sawing machine operators .....	9.14	5.2	39.7	9.23	8.4	39.2	9.07	6.6	40.0
Shaping and jointing machine operators .....	9.73	6.8	39.9	9.73	6.8	39.9	—	—	—
Nailing and tacking machine operators .....	9.91	2.3	40.0	9.91	2.3	40.0	—	—	—
Printing press operators .....	14.64	3.2	39.2	15.27	2.6	39.0	11.92	8.1	40.0
Photoengravers and lithographers .....	15.22	3.0	38.6	15.17	3.1	38.6	—	—	—
Typesetters and compositors .....	13.22	4.7	37.7	13.34	4.8	37.9	—	—	—
Winding and twisting machine operators .....	11.01	7.3	39.9	9.74	2.6	39.8	—	—	—
Knitting, looping, taping, and weaving machine operators .....	10.10	1.9	40.0	10.25	2.4	40.0	—	—	—
Textile cutting machine operators .....	8.94	5.4	40.0	9.41	4.2	40.0	—	—	—
Textile sewing machine operators .....	7.98	2.7	39.7	8.17	2.9	39.5	7.58	6.5	40.0
Shoe machine operators .....	9.11	8.6	39.9	9.11	8.6	39.9	—	—	—
Pressing machine operators .....	7.97	6.3	39.2	7.47	5.4	39.0	—	—	—
Laundering and dry cleaning machine operators .....	7.44	1.7	36.5	7.57	2.0	37.7	6.82	3.8	31.6
Cementing and gluing machine operators .....	9.58	9.5	40.0	10.81	4.4	40.0	—	—	—
Packaging and filling machine operators .....	10.55	4.3	39.4	11.53	3.6	39.4	8.31	8.2	39.3
Extruding and forming machine operators .....	11.28	2.7	39.8	11.96	2.6	39.7	—	—	—
Mixing and blending machine operators .....	13.28	2.8	39.9	13.46	3.1	39.9	12.38	9.0	40.0
Separating, filtering, and clarifying machine operators .....	15.83	3.7	39.8	15.80	4.1	39.8	—	—	—
Compressing and compacting machine operators ..	10.40	2.1	39.5	10.71	2.8	39.0	—	—	—
Painting and paint spraying machine operators .....	12.11	2.9	40.2	12.36	2.5	40.3	—	—	—
Roasting and baking machine operators, food .....	11.61	5.5	39.4	11.69	6.0	39.3	—	—	—
Washing, cleaning, and pickling machine operators .....	10.91	9.4	36.5	10.98	9.5	40.2	—	—	—
Folding machine operators .....	11.34	4.0	39.7	11.34	4.0	39.7	—	—	—
Furnace, kiln, and oven operators, except food .....	13.68	4.4	39.9	14.26	3.9	39.8	—	—	—
Crushing and grinding machine operators .....	11.89	5.7	39.9	11.75	6.0	39.9	—	—	—
Slicing and cutting machine operators .....	12.65	3.6	39.9	12.14	1.9	39.8	13.65	5.7	39.9
Motion picture projectionists .....	13.07	9.6	25.9	13.07	9.6	25.9	—	—	—
Photographic process machine operators .....	10.42	2.9	38.0	10.39	2.7	38.0	—	—	—
Miscellaneous machine operators, n.e.c. ....	11.97	2.6	39.7	12.25	1.1	39.7	11.48	6.8	39.8
Welders and cutters .....	14.19	1.9	40.0	14.29	2.0	40.0	—	—	—
Solders and braziers .....	9.04	8.3	40.0	9.98	3.3	40.0	—	—	—
Assemblers .....	11.63	2.6	39.3	11.97	2.4	39.3	8.68	6.2	39.4
Hand cutting and trimming .....	9.51	8.9	39.4	9.51	8.9	39.4	—	—	—
Hand molding, casting, and forming .....	12.13	9.9	40.0	10.38	7.0	40.0	—	—	—
Hand painting, coating, and decorating .....	10.21	5.6	38.6	10.21	5.6	38.6	—	—	—
Hand engraving and printing .....	8.91	3.5	40.0	8.91	3.5	40.0	—	—	—
Miscellaneous hand working, n.e.c. ....	9.85	3.3	38.8	10.17	2.5	38.2	9.23	6.8	40.0
Production inspectors, checkers and examiners .....	11.11	2.6	39.8	11.77	1.3	39.8	9.03	6.2	40.0
Production testers .....	11.73	3.4	39.8	12.35	2.2	39.8	—	—	—

See footnotes at end of table.

Table 4-2. **United States: Mean hourly earnings<sup>1</sup> and weekly hours by metropolitan and nonmetropolitan areas<sup>2</sup> for selected occupations, National Compensation Survey,<sup>3</sup> 1998—Continued**

Occupation <sup>4</sup>	Total			Metropolitan			Nonmetropolitan		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)	
<b>Blue collar—Continued</b>									
<b>Machine operators, assemblers, and inspectors—Continued</b>									
Production samplers and weighers .....	\$13.64	4.5	39.6	\$13.20	6.8	39.3	—	—	—
Graders and sorters, except agricultural .....	9.19	6.4	39.9	9.02	4.1	39.8	\$9.28	9.6	40.0
Hand inspectors, n.e.c. ....	9.27	7.5	39.9	9.27	7.5	39.9	—	—	—
<b>Transportation and material moving .....</b>	<b>13.72</b>	<b>1.1</b>	<b>37.9</b>	<b>13.85</b>	<b>1.0</b>	<b>38.1</b>	<b>13.01</b>	<b>4.2</b>	<b>37.2</b>
Supervisors, motor vehicle operators .....	16.46	5.2	41.1	17.41	3.2	41.4	12.25	12.6	39.7
Truck drivers .....	13.93	1.2	41.4	13.94	1.2	41.2	13.86	4.8	42.9
Driver-sales workers .....	14.23	4.2	37.6	14.31	4.3	37.7	11.50	14.3	36.6
Bus drivers .....	12.61	1.6	29.2	12.78	1.7	30.6	11.16	4.1	21.0
Taxicab drivers and chauffeurs .....	8.32	4.5	30.0	8.43	4.8	30.0	—	—	—
Parking lot attendants .....	7.04	4.3	28.2	7.09	4.4	28.1	—	—	—
Motor transportation, n.e.c. ....	8.99	4.6	32.2	9.21	4.5	32.7	7.12	14.9	28.5
Railroad conductors and yardmasters .....	26.78	4.4	40.2	26.55	5.0	40.3	—	—	—
Locomotive operating .....	27.74	8.4	40.7	27.01	10.0	40.8	—	—	—
Railroad brake, signal and switch operators .....	23.30	10.2	40.0	25.98	7.3	40.0	—	—	—
Rail vehicle operators, n.e.c. ....	21.02	4.4	40.0	20.15	2.2	40.0	—	—	—
Ship captains and mates, except fishing boats .....	16.30	3.8	47.6	16.26	4.7	48.4	—	—	—
Sailors and deckhands .....	11.39	8.0	43.3	11.12	10.7	45.2	—	—	—
Bridge, lock and lighthouse tenders .....	11.16	2.1	40.0	—	—	—	—	—	—
Supervisors, material moving equipment .....	18.74	6.2	40.4	17.72	2.4	40.7	—	—	—
Operating engineers .....	17.33	8.1	40.0	19.05	5.3	40.0	13.48	18.6	40.0
Longshore equipment operators .....	26.96	7.6	37.5	26.96	7.6	37.5	—	—	—
Hoist and winch operators .....	12.94	5.5	40.9	12.94	5.5	40.9	—	—	—
Crane and tower operators .....	15.61	3.3	40.1	15.78	3.5	40.1	—	—	—
Excavating and loading machine operators .....	14.17	4.3	40.0	14.54	4.2	40.0	9.19	3.9	40.0
Grader, dozer, and scraper operators .....	13.46	6.4	40.0	14.98	7.5	40.1	11.95	9.4	40.0
Industrial truck and tractor equipment operators .....	12.10	1.8	39.8	12.24	1.3	39.7	11.72	5.9	40.0
Miscellaneous material moving equipment operators, n.e.c. ....	14.33	3.0	37.8	14.79	3.1	37.4	12.18	6.2	39.9
<b>Handlers, equipment cleaners, helpers, and laborers ..</b>	<b>9.69</b>	<b>.7</b>	<b>35.9</b>	<b>9.84</b>	<b>.8</b>	<b>35.5</b>	<b>9.17</b>	<b>2.1</b>	<b>37.2</b>
Nursery workers .....	7.31	3.4	37.9	7.34	4.0	37.4	—	—	—
Supervisors, agriculture-related workers .....	17.49	4.7	39.9	17.53	4.7	39.9	—	—	—
Groundskeepers and gardeners, except farm .....	9.31	5.2	38.4	10.21	2.3	37.3	—	—	—
Animal caretakers, except farm .....	10.22	5.8	38.2	10.22	5.8	38.2	—	—	—
Inspectors, agricultural products .....	7.84	6.1	37.4	8.45	7.5	35.8	—	—	—
Supervisors, handlers, equipment cleaners, and laborers, n.e.c. ....	14.57	2.6	39.8	14.90	1.9	39.7	13.56	7.6	40.0
Helpers, mechanics and repairers .....	11.69	4.4	39.1	11.49	4.6	38.8	12.23	9.1	40.0
Helpers, construction trades .....	10.46	3.8	39.3	10.42	4.2	39.2	10.75	6.9	40.0
Helpers, extractive .....	15.17	11.8	38.7	11.51	8.8	40.0	—	—	—
Construction laborers .....	11.34	2.8	39.4	11.52	3.0	39.5	9.77	6.4	38.7
Production helpers .....	9.75	3.5	39.0	9.46	1.9	38.8	10.60	10.6	39.6
Garbage collectors .....	12.63	11.7	39.6	12.78	11.6	39.6	—	—	—
Stevedores .....	18.83	3.7	39.2	18.83	3.7	39.2	—	—	—
Stock handlers and baggers .....	8.64	1.4	29.9	8.74	1.3	29.9	8.17	4.7	29.9
Machine feeders and offbearers .....	9.37	2.6	39.3	9.47	2.1	39.1	8.98	10.7	40.0
Freight, stock, and material handlers, n.e.c. ....	10.50	2.0	35.5	10.78	1.7	35.0	9.00	8.0	38.0
Garage and service station related .....	8.25	7.1	34.2	8.28	7.2	34.1	—	—	—
Vehicle washers and equipment cleaners .....	8.86	3.2	37.4	9.05	3.4	37.9	7.35	5.3	34.0
Hand packers and packagers .....	8.49	1.7	37.9	8.64	1.7	37.7	7.56	5.3	39.5
Laborers, except construction, n.e.c. ....	9.57	1.3	37.8	9.63	1.5	37.2	9.43	2.5	39.2
<b>Service .....</b>	<b>9.52</b>	<b>.7</b>	<b>33.0</b>	<b>9.90</b>	<b>1.0</b>	<b>32.6</b>	<b>8.20</b>	<b>1.5</b>	<b>34.6</b>
Protective service .....	14.36	1.6	38.0	14.88	1.7	37.7	11.84	2.3	39.4
Supervisors, firefighters and fire prevention .....	20.00	2.9	49.2	20.53	2.7	49.1	14.36	9.0	50.7
Supervisors, police and detectives .....	24.14	2.7	40.1	25.16	2.3	40.2	15.83	10.1	40.0
Supervisors, guards .....	15.49	7.1	38.4	15.40	7.6	38.3	—	—	—
Fire inspection and fire prevention .....	18.31	4.8	37.6	18.41	5.4	37.3	—	—	—

See footnotes at end of table.

Table 4-2. **United States: Mean hourly earnings<sup>1</sup> and weekly hours by metropolitan and nonmetropolitan areas<sup>2</sup> for selected occupations, National Compensation Survey,<sup>3</sup> 1998—Continued**

Occupation <sup>4</sup>	Total			Metropolitan			Nonmetropolitan		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)	
<b>Service—Continued</b>									
Protective service—Continued									
Firefighting .....	\$15.32	2.5	44.5	\$15.57	2.5	44.6	\$11.50	7.3	44.0
Police and detectives, public service .....	19.49	1.4	39.5	19.90	1.3	39.6	14.83	3.5	39.1
Sheriffs, bailiffs, and other law enforcement officers .....	15.91	2.6	38.7	17.55	2.5	38.3	12.27	3.0	39.7
Correctional institution officers .....	14.17	4.3	39.8	15.30	2.4	39.9	12.46	5.5	39.7
Crossing guards .....	8.73	4.5	17.3	8.81	4.5	17.7	—	—	—
Guards and police, except public service .....	8.63	1.7	35.1	8.56	1.8	34.6	—	—	—
Protective service, n.e.c. ....	11.51	4.7	29.1	11.45	4.9	28.8	12.50	17.2	34.4
Food service									
Supervisors, food preparation and service .....	11.45	1.6	38.5	11.75	1.6	38.6	10.11	3.9	37.9
Bartenders .....	6.31	2.6	29.5	6.30	2.9	29.5	6.38	4.5	29.1
Waiters and waitresses .....	4.17	3.4	28.8	3.95	2.3	26.7	—	—	—
Cooks .....	8.67	1.1	34.2	8.80	1.2	34.2	7.97	2.6	33.8
Food counter, fountain, and related .....	6.12	1.3	25.8	6.21	1.4	25.5	5.89	2.0	26.3
Kitchen workers, food preparation .....	7.57	1.2	30.1	7.65	1.3	29.4	7.28	2.6	32.9
Waiters/Waitresses' assistants .....	5.68	2.2	27.7	5.67	2.4	27.4	5.72	6.8	30.3
Food preparation, n.e.c. ....	6.85	1.3	29.8	6.97	1.0	28.4	6.56	1.1	33.5
Health service									
Dental assistants .....	10.26	3.7	36.3	10.26	3.7	36.3	—	—	—
Health aides, except nursing .....	9.79	1.4	33.5	9.93	1.2	34.3	9.26	4.9	31.0
Nursing aides, orderlies and attendants .....	8.49	.8	33.7	8.77	.9	33.9	7.48	2.4	32.9
Cleaning and building service									
Supervisors, cleaning and building service workers .....	11.15	10.4	39.6	13.31	2.5	39.3	—	—	—
Maids and housemen .....	7.52	1.9	34.9	7.73	2.0	35.3	6.49	3.2	32.7
Janitors and cleaners .....	9.09	1.1	34.5	9.20	1.2	34.2	8.27	1.3	37.0
Pest control .....	12.36	8.5	40.0	12.36	8.5	40.0	—	—	—
Personal service									
Supervisors, personal service .....	16.56	1.3	38.7	13.04	3.6	36.1	—	—	—
Attendants, amusement, and recreation facilities .....	6.20	5.1	30.1	6.88	2.9	28.9	—	—	—
Guides .....	9.40	3.5	30.5	9.52	4.2	30.1	—	—	—
Ushers .....	6.55	5.1	19.3	6.55	5.1	19.3	—	—	—
Public transportation attendants .....	25.24	6.1	21.1	25.64	6.1	20.9	—	—	—
Baggage porters and bellhops .....	7.19	6.4	35.6	7.19	6.4	35.6	—	—	—
Welfare service aides .....	7.55	4.9	28.1	7.60	5.7	27.2	7.30	9.2	32.4
Early childhood teachers' assistants .....	8.12	1.8	29.1	8.25	2.0	27.8	7.74	2.9	33.6
Child care workers, n.e.c. ....	8.51	2.3	26.2	8.60	2.2	25.6	8.02	7.2	30.0
Service, n.e.c. ....	7.54	11.2	31.5	8.51	2.3	29.0	—	—	—

<sup>1</sup> 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.

<sup>2</sup> Metropolitan areas can be a Metropolitan Statistical Area (MSA) or Consolidated Metropolitan Statistical Area (CMSA) as defined by the Office of Management and Budget, 1994. Nonmetropolitan areas are counties that do not fit the definitions above. For more information, see appendix E.

<sup>3</sup> This survey covers all 50 States. Collection was conducted between July 1997 and

April 1999. The average reference period was August 1998.

<sup>4</sup> A classification system including about 480 individual occupations is used to cover all workers in the civilian economy. For more information, see appendix B.

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

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

Table 4-3. Largest 10 metropolitan areas<sup>1</sup> ranked by employment size: Mean hourly earnings<sup>2</sup> by occupational group, National Compensation Survey, 1998-1999

Occupational group <sup>3</sup>	(1)	(2)	(3)	(4)	(5)
	New York-Northern New Jersey-Long Island (March 1998)	Los Angeles-Riverside-Orange County (March 1998)	Chicago-Gary-Kenosha (October 1998)	Washington-Baltimore (March 1998)	San Francisco-Oakland-San Jose (March 1998)
<b>All</b> .....	\$20.24	\$17.69	\$17.47	\$17.41	\$20.72
<b>White collar</b> .....	24.27	22.02	21.74	20.75	24.51
White collar excluding sales .....	24.94	22.60	21.64	21.38	25.48
Professional specialty and technical .....	29.69	28.17	25.16	25.24	29.95
Professional specialty .....	31.43	30.28	26.05	26.50	31.70
Technical .....	21.91	20.46	22.19	19.13	23.09
Executive, administrative, and managerial .....	33.68	31.01	28.97	27.28	33.47
Sales .....	17.54	17.76	22.57	15.61	15.42
Administrative support, including clerical .....	14.55	12.98	13.23	12.72	14.65
<b>Blue collar</b> .....	14.65	12.80	14.29	14.09	15.19
Precision production, craft, and repair .....	20.62	18.28	20.13	17.39	18.72
Machine operators, assemblers, and inspectors .....	10.74	9.96	11.93	12.20	12.28
Transportation and material moving .....	15.60	14.36	15.00	13.82	15.79
Handlers, equipment cleaners, helpers, and laborers .....	11.68	9.18	10.97	10.63	10.85
<b>Service</b> .....	12.89	10.46	10.75	9.93	12.66
Protective service .....	19.07	16.88	17.26	15.96	16.96
Food service .....	8.37	7.43	7.49	7.09	8.73
Health service .....	9.88	9.23	9.28	9.19	11.69
Cleaning and building service .....	11.61	7.95	9.79	8.69	11.38
Personal service .....	12.59	10.65	10.60	9.66	12.58
	(6)	(7)	(8)	(9)	(10)
	Boston-Worcester-Lawrence (October 1998)	Philadelphia-Wilmington-Atlantic City (February 1999)	Detroit-Ann Arbor-Flint (March 1998)	Dallas-Fort Worth (March 1998)	Houston-Galveston-Brazoria (January 1999)
<b>All</b> .....	\$18.20	\$18.43	\$18.55	\$16.30	\$17.37
<b>White collar</b> .....	21.60	21.99	21.89	20.05	21.50
White collar excluding sales .....	22.32	22.86	22.58	21.09	22.27
Professional specialty and technical .....	26.24	27.66	26.02	24.06	26.46
Professional specialty .....	28.52	30.12	28.23	24.80	27.92
Technical .....	18.24	19.26	19.19	21.42	21.11
Executive, administrative, and managerial .....	28.89	29.51	28.75	28.41	31.00
Sales .....	15.31	15.84	16.28	13.52	16.31
Administrative support, including clerical .....	12.91	13.49	13.07	12.01	12.16
<b>Blue collar</b> .....	14.38	15.11	16.35	11.89	12.95
Precision production, craft, and repair .....	18.37	18.81	20.41	15.27	17.19
Machine operators, assemblers, and inspectors .....	11.95	13.58	15.33	10.68	11.00
Transportation and material moving .....	15.64	14.76	15.36	13.22	12.48
Handlers, equipment cleaners, helpers, and laborers .....	11.41	11.89	10.57	8.94	8.57
<b>Service</b> .....	11.00	10.98	9.81	9.01	8.98
Protective service .....	14.80	16.43	13.27	12.11	13.54
Food service .....	7.54	7.64	6.84	6.75	6.57
Health service .....	10.44	10.31	8.71	7.79	8.08
Cleaning and building service .....	10.81	10.35	11.27	7.32	7.11
Personal service .....	11.22	10.28	8.20	13.28	11.19

<sup>1</sup> Metropolitan areas can be a Metropolitan Statistical Area (MSA) or Consolidated Metropolitan Statistical Area (CMSA) as defined by the Office of Management and Budget, 1994. Nonmetropolitan areas are counties that do not fit the definitions above. For more information, see appendix E.

<sup>2</sup> 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.

<sup>3</sup> A classification system including about 480 individual occupations is used to cover all workers in the civilian economy. For more information, see appendix B.



Table 4-4. Pay relatives for major occupational groups in metropolitan areas, National Compensation Survey, 1998

(For each occupational group, average pay for all industries = 100)

Metropolitan area	Total	White collar <sup>1</sup>				Blue collar <sup>1</sup>				Service
		Profession- ional	Execu- tive	Sales	Adminis- trative	Pre- cision	Machine oper- ators	Trans- por- tation	Hand- lers	
United States <sup>2</sup> .....	100	100	100	100	100	100	100	100	100	100
Amarillo, TX .....	87	84	89	96	83	92	82	83	92	84
Anchorage, AK .....	110	105	109	111	111	123	101	102	119	116
Atlanta, GA .....	99	99	103	99	101	96	98	96	101	95
Augusta-Aiken, GA-SC .....	94	95	102	93	96	92	98	87	94	85
Austin-San Marcos, TX .....	93	90	96	109	93	96	82	93	95	95
Birmingham, AL .....	94	89	106	91	92	93	96	79	96	93
Bloomington, IN .....	91	91	95	88	91	90	-	81	92	88
Bloomington-Normal, IL .....	104	93	-	95	92	102	117	131	106	106
Boston-Worcester-Lawrence, MA-NH-ME-CT .....	104	105	98	101	108	103	95	108	108	112
Brownsville-Harlingen-San Benito, TX .....	82	90	86	87	78	77	71	78	72	80
Buffalo-Niagra Falls, NY .....	100	97	97	90	101	103	107	102	106	107
Charleston-North Charleston, SC .....	87	91	88	81	86	81	82	84	87	87
Charlotte-Gastonia-Rock Hill-High Point, NC-SC .....	94	88	98	103	97	93	99	97	98	92
Chicago-Gary-Kenosha, IL-IN-WI .....	107	102	103	105	109	112	114	117	117	110
Cincinnati-Hamilton, OH-KY-IN .....	95	92	95	95	94	93	94	99	103	99
Cleveland-Akron, OH .....	103	101	104	105	100	103	107	109	108	104
Columbus, OH .....	96	94	92	93	98	100	95	96	104	101
Corpus Christi, TX .....	89	89	111	96	82	90	93	75	82	82
Dallas-Fort Worth, TX .....	95	94	99	91	98	93	93	95	95	93
Dayton-Springfield, OH .....	96	94	91	95	93	101	109	102	100	101
Denver-Boulder-Greeley, CO .....	97	96	99	97	99	93	87	93	102	102
Detroit-Ann Arbor-Flint, MI .....	110	110	104	107	108	112	121	116	123	106
Elkhart-Goshen, IN .....	99	99	96	88	98	97	104	112	107	97
Fort Collins-Loveland, CO .....	88	92	85	98	86	86	80	85	84	91
Grand Rapids-Muskegon-Holland, MI .....	103	107	98	107	97	103	111	97	103	106
Greensboro-Winston-Salem, NC .....	97	93	102	106	97	93	95	96	99	95
Greenville, SC .....	93	90	97	99	94	91	92	89	98	90
Hartford, CT .....	109	115	99	106	110	103	100	106	107	119
Honolulu, HI .....	107	104	103	105	109	115	110	97	105	111
Houston-Galveston-Brazoria, TX .....	104	106	113	100	102	104	99	94	97	94
Huntsville, AL .....	95	97	101	93	92	91	102	84	92	87
Indianapolis, IN .....	99	97	98	106	97	104	103	103	104	98
Iowa City, IA .....	92	90	95	88	93	88	96	82	91	95
Johnstown, PA .....	89	93	91	82	86	83	85	82	89	97
Kalamazoo-Battle Creek, MI .....	101	99	97	96	102	100	106	100	113	104
Kansas City, MO-KS .....	93	93	88	85	92	97	105	100	103	95
Knoxville, TN .....	90	91	97	86	87	89	91	81	97	87
Lincoln, NE .....	88	86	88	85	85	87	89	90	97	91
Los Angeles-Riverside-Orange County, CA .....	107	111	111	116	108	104	89	93	96	108
Louisville, KY-IN .....	99	101	97	97	95	101	107	93	101	95
Melbourne-Titusville-Palm Bay, FL .....	86	85	92	82	86	92	80	84	85	85
Memphis, TN-AR-MS .....	95	91	100	111	94	95	98	93	98	90
Miami-Fort Lauderdale, FL .....	96	95	102	103	97	94	84	99	95	95
Milwaukee-Racine, WI .....	99	94	95	89	100	102	107	108	108	103
Minneapolis-St. Paul, MN-WI .....	104	99	97	107	106	106	115	114	114	112
Mobile, AL .....	89	90	92	96	84	92	90	82	97	86
New Orleans, LA .....	94	99	104	94	89	93	87	88	88	88
New York-Northern New Jersey-Long Island, NY-NJ-CT-PA .....	116	120	116	110	117	113	98	111	117	122
Norfolk-Virginia Beach-Newport News, VA-NC .....	90	89	99	91	90	89	96	77	82	87
Oklahoma City, OK .....	92	88	95	97	88	93	103	103	91	85
Orlando, FL .....	88	86	92	91	89	89	84	80	88	87
Philadelphia-Wilmington-Atlantic City, PA-NJ-DE-MD .....	108	109	102	111	108	104	109	108	117	109
Phoenix-Mesa, AZ .....	96	95	102	110	96	100	88	89	86	95
Pittsburgh, PA .....	100	101	99	89	100	98	99	100	110	103
Portland-Salem, OR-WA .....	101	99	98	99	102	104	98	104	102	112
Providence-Fall River-Warwick, RI-MA .....	103	108	102	97	107	97	92	107	93	106
Raleigh-Durham-Chapel Hill, NC .....	95	91	100	97	96	92	100	97	94	94
Reading, PA .....	100	108	91	89	96	96	101	94	105	111
Reno, NV .....	95	96	87	107	97	101	86	96	91	98
Richland-Kennewick-Pasco, WA .....	99	94	99	89	103	104	92	110	92	105
Richmond-Petersburg, VA .....	93	92	96	89	94	96	96	87	97	90
Rochester, NY .....	102	105	101	91	97	97	96	98	107	114

See footnotes at end of table.

Table 4-4. Pay relatives for major occupational groups in metropolitan areas, National Compensation Survey, 1998—Continued

(For each occupational group, average pay for all industries = 100)

Metropolitan area	Total	White collar <sup>1</sup>				Blue collar <sup>1</sup>				Service
		Profession- ional	Execu- tive	Sales	Adminis- trative	Pre- cision	Machine oper- ators	Trans- por- tation	Hand- lers	
Rockford, IL .....	96	92	97	95	93	99	106	102	105	95
Sacramento-Yolo, CA .....	105	103	101	120	105	107	99	107	106	107
Salinas, CA .....	108	110	104	121	101	111	100	108	107	113
San Antonio, TX .....	92	94	104	96	90	85	86	75	84	90
San Diego, CA .....	100	105	99	101	104	97	83	95	94	102
San Francisco-Oakland-San Jose, CA .....	119	122	114	111	121	118	100	116	119	124
Seattle-Tacoma-Bremerton, WA .....	105	105	96	105	106	107	105	108	104	112
Springfield, MA .....	105	104	103	95	106	94	113	105	103	114
Springfield, MO .....	88	87	91	91	81	89	94	92	92	87
St. Louis, MO-IL .....	96	94	95	99	93	99	100	96	109	96
Tallahassee, FL .....	81	81	84	82	81	78	83	72	77	83
Tampa-St. Petersburg-Clearwater, FL .....	90	89	96	94	89	87	81	84	85	89
Visalia-Tulare-Porterville, CA .....	97	105	98	97	93	89	90	88	92	103
Washington-Baltimore, DC-MD-VA-WV .....	103	102	101	101	105	103	106	102	111	103
Youngstown-Warren, OH .....	98	96	101	100	93	98	106	99	99	101

<sup>1</sup> The full titles for the major occupational groups under the white-collar category are professional specialty and technical; executive, administrative, and managerial; sales; and administrative support, including clerical. The full titles for the groups under the blue-collar category are precision production, craft, and repair; machine operators, assemblers, and inspectors; transportation and material moving; and handlers, equipment cleaners, helpers, and laborers.

<sup>2</sup> This survey covers all 50 States. Collection was conducted between July 1997 and April 1999. The average reference period was August 1998.

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

Table 4-5. **Summary, United States and nine census divisions: Mean hourly earnings<sup>1</sup> and weekly hours by selected characteristics, National Compensation Survey,<sup>2</sup> 1998**

Worker and establishment characteristics	United States			New England			Middle Atlantic		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>3</sup> (percent)		Mean	Relative error <sup>3</sup> (percent)		Mean	Relative error <sup>3</sup> (percent)	
<b>Total</b> .....	\$15.72	0.5	36.5	\$17.38	1.4	35.1	\$18.10	1.5	35.8
Private industry .....	14.95	.6	36.5	16.50	1.7	35.0	17.14	1.8	35.8
State and local government .....	18.59	.6	36.6	21.35	1.3	35.5	21.72	1.6	35.5
Metropolitan areas .....	16.40	.6	36.4	17.75	1.2	35.2	18.39	1.6	35.7
Nonmetropolitan areas .....	12.31	1.2	37.1	14.75	3.6	34.2	13.58	1.6	36.2
<b>Worker characteristics:<sup>4</sup></b>									
White-collar occupations <sup>5</sup> .....	19.39	.5	36.7	21.17	1.4	35.5	22.06	1.4	35.7
Professional specialty and technical ...	24.10	.6	36.4	25.65	1.2	35.0	27.00	1.7	35.2
Executive, administrative, and managerial .....	27.78	.7	40.0	28.54	2.1	39.7	31.04	1.9	38.9
Sales .....	13.28	3.6	33.0	14.56	7.1	30.3	14.98	6.4	31.6
Administrative support .....	12.00	.5	37.0	12.93	1.7	35.9	13.44	1.3	36.1
Blue-collar occupations <sup>5</sup> .....	12.90	.6	38.5	13.24	2.6	37.7	13.85	1.6	38.3
Precision production, craft, and repair	16.58	1.0	39.8	17.72	2.1	39.9	18.33	1.6	39.4
Machine operators, assemblers, and inspectors .....	11.59	.9	39.6	11.04	3.1	38.6	11.84	1.7	39.6
Transportation and material moving ...	13.72	1.1	37.9	14.91	2.7	37.7	14.72	2.2	36.2
Handlers, equipment cleaners, helpers, and laborers .....	9.69	.7	35.9	10.46	4.5	33.6	10.93	2.6	36.6
Service occupations <sup>5</sup> .....	9.52	.7	33.0	10.56	1.6	30.8	11.67	2.4	32.8
Full time .....	16.40	.5	39.6	18.38	1.5	39.1	18.93	1.5	38.8
Part time .....	9.25	1.0	21.1	10.55	1.8	20.6	10.33	3.3	20.7
Union .....	17.76	.9	36.9	19.06	1.2	35.4	18.42	1.5	36.2
Nonunion .....	15.10	.6	36.4	16.77	1.9	35.0	17.90	2.0	35.5
Time .....	15.66	.5	36.4	17.36	1.4	35.1	18.08	1.5	35.7
Incentive .....	17.14	2.7	38.6	18.57	15.1	34.0	19.06	9.3	37.2
<b>Establishment characteristics:</b>									
Goods producing <sup>6</sup> .....	16.00	.8	39.8	17.04	3.3	39.5	17.43	2.8	39.7
Service producing <sup>6</sup> .....	14.40	.7	35.0	16.22	1.8	33.0	17.01	1.9	34.5
50-99 workers <sup>7</sup> .....	13.04	1.1	35.2	12.90	5.7	33.1	14.77	2.7	35.6
100-499 workers .....	14.21	.7	36.3	16.27	1.8	34.5	16.06	2.3	35.3
500-999 workers .....	16.45	1.4	37.3	19.61	2.4	37.0	19.22	3.4	36.0
1,000-2,499 workers .....	16.51	7.3	36.8	20.55	4.3	36.4	20.93	2.8	36.1
2,500 workers or more .....	20.07	.6	37.3	21.29	1.8	36.5	22.04	1.7	36.5

See footnotes at end of table.

Table 4-5. **Summary, United States and nine census divisions: Mean hourly earnings<sup>1</sup> and weekly hours by selected characteristics, National Compensation Survey,<sup>2</sup> 1998–Continued**

Worker and establishment characteristics	East North Central			West North Central			South Atlantic		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>3</sup> (percent)		Mean	Relative error <sup>3</sup> (percent)		Mean	Relative error <sup>3</sup> (percent)	
<b>Total</b> .....	\$16.08	0.8	36.2	\$14.85	1.6	36.5	\$14.40	1.0	37.1
Private industry .....	15.44	.9	36.3	14.05	1.9	36.3	13.82	1.1	36.9
State and local government .....	19.32	1.5	35.7	17.87	1.2	37.0	16.22	1.4	38.0
Metropolitan areas .....	16.55	.8	36.2	15.83	2.4	36.5	14.89	.7	37.0
Nonmetropolitan areas .....	13.55	1.3	36.5	12.10	2.3	36.4	12.00	4.4	37.7
<b>Worker characteristics:<sup>4</sup></b>									
White-collar occupations <sup>5</sup> .....	19.75	1.0	36.5	17.63	2.4	36.9	17.94	.8	37.5
Professional specialty and technical ...	23.88	1.0	35.9	21.76	1.3	36.9	22.44	1.0	37.6
Executive, administrative, and managerial .....	27.76	1.5	39.9	25.71	2.5	41.0	25.59	1.1	40.4
Sales .....	15.16	5.0	32.1	12.46	4.7	32.3	12.38	3.4	32.9
Administrative support .....	12.02	.8	37.0	10.85	3.0	37.1	11.34	.8	38.0
Blue-collar occupations <sup>5</sup> .....	13.86	.9	38.3	12.81	1.6	38.8	11.69	1.4	38.5
Precision production, craft, and repair	17.83	1.1	39.9	15.14	2.2	40.1	15.05	1.7	39.8
Machine operators, assemblers, and inspectors .....	12.81	1.5	39.8	12.03	1.5	39.2	10.55	1.8	39.6
Transportation and material moving ...	14.42	1.4	36.5	14.23	3.1	41.2	12.15	1.7	37.9
Handlers, equipment cleaners, helpers, and laborers .....	10.65	1.4	34.6	9.92	1.8	35.3	8.97	2.0	36.1
Service occupations <sup>5</sup> .....	9.66	1.3	31.1	9.23	1.6	31.1	8.84	1.3	33.9
Full time .....	16.84	.9	39.6	15.59	1.6	40.0	15.01	1.1	39.8
Part time .....	9.09	1.4	20.4	8.47	1.6	20.8	8.01	2.0	21.7
Union .....	17.38	1.0	37.4	16.72	1.8	37.1	16.62	2.3	38.1
Nonunion .....	15.54	1.1	35.8	14.35	1.9	36.3	14.08	1.0	37.0
Time .....	15.95	.8	36.1	14.79	1.6	36.2	14.33	.9	37.0
Incentive .....	19.09	5.8	38.5	16.16	6.0	42.5	15.94	7.1	39.3
<b>Establishment characteristics:</b>									
Goods producing <sup>6</sup> .....	16.51	1.3	39.8	15.00	2.2	39.7	14.11	1.7	39.8
Service producing <sup>6</sup> .....	14.58	1.4	34.0	13.56	2.3	34.8	13.67	1.3	35.4
50-99 workers <sup>7</sup> .....	13.36	2.6	34.7	12.38	2.3	34.1	11.68	2.1	35.1
100-499 workers .....	14.34	1.2	36.2	13.28	2.0	36.0	12.71	1.5	37.1
500-999 workers .....	16.91	2.4	36.9	15.68	2.7	38.6	15.05	2.6	38.1
1,000-2,499 workers .....	17.69	2.9	36.0	15.96	5.7	37.1	16.17	2.5	37.4
2,500 workers or more .....	21.01	.9	37.7	19.15	2.0	37.8	18.01	.8	38.0

See footnotes at end of table.

Table 4-5. **Summary, United States and nine census divisions: Mean hourly earnings<sup>1</sup> and weekly hours by selected characteristics, National Compensation Survey,<sup>2</sup> 1998**—Continued

Worker and establishment characteristics	East South Central			West South Central		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>3</sup> (percent)		Mean	Relative error <sup>3</sup> (percent)	
<b>Total</b> .....	\$11.87	2.3	37.7	\$14.62	1.8	37.2
Private industry .....	11.21	2.6	37.9	14.27	2.3	36.9
State and local government .....	15.93	2.2	36.8	15.63	1.2	38.0
Metropolitan areas .....	13.88	2.2	36.9	14.86	2.1	37.2
Nonmetropolitan areas .....	9.97	4.3	38.6	13.08	5.6	37.1
<b>Worker characteristics:<sup>4</sup></b>						
White-collar occupations <sup>5</sup> .....	15.05	2.1	37.7	18.12	1.4	37.7
Professional specialty and technical ...	20.64	1.4	37.2	22.11	1.2	37.7
Executive, administrative, and managerial .....	23.63	3.9	40.5	26.82	1.3	40.3
Sales .....	—	—	—	13.00	3.1	33.8
Administrative support .....	10.82	1.8	37.6	10.74	1.3	38.2
Blue-collar occupations <sup>5</sup> .....	11.43	3.9	39.2	11.96	2.6	38.7
Precision production, craft, and repair	14.40	7.9	40.0	15.40	2.4	39.9
Machine operators, assemblers, and inspectors .....	11.12	5.0	39.9	10.12	3.4	39.6
Transportation and material moving ...	12.68	6.1	39.9	12.57	2.8	39.6
Handlers, equipment cleaners, helpers, and laborers .....	8.55	1.5	37.5	8.37	1.9	36.0
Service occupations <sup>5</sup> .....	7.63	.7	36.2	7.94	2.1	33.3
Full time .....	12.14	2.4	39.9	15.28	1.6	39.8
Part time .....	7.71	2.3	20.4	7.52	2.7	21.5
Union .....	13.68	11.0	38.7	17.01	4.5	37.4
Nonunion .....	11.59	2.1	37.6	14.46	1.8	37.1
Time .....	11.74	2.5	37.8	14.56	1.7	37.0
Incentive .....	14.67	3.8	36.7	15.92	7.3	39.7
<b>Establishment characteristics:</b>						
Goods producing <sup>6</sup> .....	13.35	3.6	40.1	15.73	2.9	40.0
Service producing <sup>6</sup> .....	10.19	2.1	36.9	13.56	2.2	35.5
50-99 workers <sup>7</sup> .....	10.71	2.8	36.3	12.27	3.3	35.8
100-499 workers .....	12.52	2.0	37.8	12.86	2.0	37.1
500-999 workers .....	12.77	4.6	38.5	16.26	4.0	37.7
1,000-2,499 workers .....	—	—	—	16.39	3.3	37.9
2,500 workers or more .....	17.84	2.1	35.7	17.61	2.1	37.8

See footnotes at end of table.

Table 4-5. **Summary, United States and nine census divisions: Mean hourly earnings<sup>1</sup> and weekly hours by selected characteristics, National Compensation Survey,<sup>2</sup> 1998—Continued**

Worker and establishment characteristics	Mountain			Pacific		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>3</sup> (percent)		Mean	Relative error <sup>3</sup> (percent)	
<b>Total</b> .....	\$14.58	2.7	36.4	\$17.86	1.3	36.2
Private industry .....	13.30	2.9	36.4	16.82	1.7	36.4
State and local government .....	18.32	2.9	36.4	21.26	1.0	35.5
Metropolitan areas .....	14.73	3.4	36.5	18.04	1.3	36.2
Nonmetropolitan areas .....	13.99	3.3	36.0	14.96	2.8	35.6
<b>Worker characteristics:<sup>4</sup></b>						
White-collar occupations <sup>5</sup> .....	17.61	3.5	36.9	21.63	1.2	36.3
Professional specialty and technical ... Executive, administrative, and managerial .....	22.76	4.5	36.5	27.27	1.3	35.8
Sales .....	24.18	3.3	41.1	30.12	2.0	40.2
Administrative support .....	12.35	6.2	33.8	15.11	4.5	32.5
Blue-collar occupations <sup>5</sup> .....	11.13	2.4	37.3	13.23	.9	36.3
Precision production, craft, and repair Machine operators, assemblers, and inspectors .....	12.90	3.3	38.2	13.78	1.9	38.3
Transportation and material moving ... Handlers, equipment cleaners, helpers, and laborers .....	16.45	2.9	39.7	18.26	2.2	39.6
Service occupations <sup>5</sup> .....	10.47	2.6	39.4	11.01	2.2	39.2
Full time .....	13.92	7.3	37.3	14.69	4.2	37.7
Part time .....	9.08	1.6	35.9	10.03	2.0	36.3
Union .....	8.62	1.8	33.5	11.08	2.2	33.1
Nonunion .....	15.27	2.8	39.7	18.71	1.3	39.7
Time .....	9.49	4.1	22.6	11.03	2.2	21.2
Incentive .....	17.38	3.6	36.9	19.14	1.3	36.4
Establishment characteristics:	14.13	3.0	36.4	17.21	1.7	36.1
Goods producing <sup>6</sup> .....	14.55	2.6	36.4	17.83	1.3	36.2
Service producing <sup>6</sup> .....	15.53	11.5	37.9	18.79	6.9	37.7
50-99 workers <sup>7</sup> .....	16.14	1.9	39.9	18.60	2.7	39.7
100-499 workers .....	12.32	3.1	35.4	16.10	2.0	35.2
500-999 workers .....	12.62	3.2	35.7	15.10	4.2	35.5
1,000-2,499 workers .....	13.36	3.1	36.3	15.77	2.3	36.5
2,500 workers or more .....	13.92	4.4	38.0	17.49	3.0	36.2
	15.36	4.7	36.1	20.56	2.7	35.2
	19.88	5.5	36.8	22.09	1.2	37.0

<sup>1</sup> 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.

<sup>2</sup> This survey covers all 50 States. Collection was conducted between July 1997 and April 1999. The average reference period was August 1998.

<sup>3</sup> 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.

<sup>4</sup> Employees are classified as working either a full-time or a part-time schedule based on the definition used by each establishment. Union workers are those whose wages are

determined through collective bargaining. Wages of time workers are based solely on hourly rate or salary; incentive workers are those whose wages are at least partially based on productivity payments such as piece rates, commissions, and production bonuses.

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

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

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

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

Table 4-6. **New England census division:<sup>1</sup> Mean hourly earnings<sup>2</sup> and weekly hours by metropolitan and nonmetropolitan areas<sup>3</sup> for selected occupations, National Compensation Survey,<sup>4</sup> 1998**

Occupation <sup>5</sup>	Total			Metropolitan			Nonmetropolitan		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>6</sup> (percent)		Mean	Relative error <sup>6</sup> (percent)		Mean	Relative error <sup>6</sup> (percent)	
<b>All</b> .....	\$17.38	1.4	35.1	\$17.75	1.2	35.2	\$14.75	3.6	34.2
All excluding sales .....	17.55	1.4	35.4	17.96	1.2	35.6	14.73	3.5	34.2
<b>White collar</b> .....	21.17	1.4	35.5	21.35	1.5	35.5	19.67	1.2	35.8
White collar excluding sales .....	21.87	1.3	36.2	22.13	1.4	36.2	19.90	1.2	35.8
<b>Professional specialty and technical</b> .....	25.65	1.2	35.0	26.12	1.3	35.1	22.58	1.2	34.1
Professional specialty .....	27.73	1.2	34.9	28.19	1.3	35.0	24.73	.7	34.3
Engineers, architects, and surveyors .....	29.91	1.9	39.9	29.98	2.0	39.9	-	-	-
Chemical engineers .....	30.27	3.7	40.0	30.27	3.7	40.0	-	-	-
Civil engineers .....	26.65	6.9	38.9	26.65	6.9	38.9	-	-	-
Electrical and electronic engineers .....	32.04	3.3	40.1	32.04	3.3	40.1	-	-	-
Industrial engineers .....	26.85	3.9	40.8	26.85	3.9	40.8	-	-	-
Mechanical engineers .....	26.67	3.7	40.8	25.77	5.3	41.2	-	-	-
Engineers, n.e.c. ....	30.58	3.2	39.6	30.58	3.2	39.6	-	-	-
Mathematical and computer scientists .....	29.23	3.0	39.6	29.77	2.5	39.7	24.08	4.7	38.8
Computer systems analysts and scientists .....	29.87	3.3	39.6	30.59	2.5	39.8	24.08	4.7	38.8
Operations and systems researchers and analysts .....	24.51	4.9	39.3	24.51	4.9	39.3	-	-	-
Natural scientists .....	28.98	8.1	37.4	30.34	7.4	37.2	-	-	-
Chemists, except biochemists .....	29.88	17.2	38.8	29.88	17.2	38.8	-	-	-
Medical scientists .....	28.36	12.9	35.4	28.36	12.9	35.4	-	-	-
Health related .....	24.01	2.4	31.9	24.65	2.7	32.2	21.00	7.0	30.8
Physicians .....	43.64	9.8	38.3	43.40	11.6	39.7	-	-	-
Registered nurses .....	21.82	1.2	30.9	22.63	1.2	31.4	17.77	.9	28.6
Pharmacists .....	26.37	2.5	34.4	26.37	2.5	34.4	-	-	-
Dietitians .....	17.93	3.6	30.6	17.93	3.6	30.6	-	-	-
Respiratory therapists .....	19.36	3.1	34.5	19.36	3.1	34.5	-	-	-
Occupational therapists .....	22.12	6.0	33.8	22.12	6.0	33.8	-	-	-
Physical therapists .....	23.09	7.0	32.8	26.34	9.8	26.3	-	-	-
Therapists, n.e.c. ....	20.53	10.5	32.8	20.53	10.5	32.8	-	-	-
Physicians' assistants .....	33.08	4.7	40.0	34.84	5.1	40.0	-	-	-
Teachers, college and university .....	39.87	3.1	34.8	41.59	3.9	33.9	34.86	.3	37.5
Engineering teachers .....	51.82	21.0	27.8	-	-	-	-	-	-
Medical science teachers .....	40.95	5.0	34.5	37.18	9.8	27.7	-	-	-
Business, commerce, and marketing teachers .....	51.77	14.2	35.1	61.18	9.6	32.5	-	-	-
Art, drama, and music teachers .....	34.02	6.0	34.9	32.93	5.8	34.2	-	-	-
Education teachers .....	43.91	14.7	35.6	-	-	-	-	-	-
English teachers .....	40.43	7.6	34.7	40.43	7.6	34.7	-	-	-
Foreign language teachers .....	35.05	10.1	34.8	35.05	10.1	34.8	-	-	-
Trade and industrial teachers .....	29.13	4.7	36.6	-	-	-	-	-	-
Teachers, post secondary, subject not specified .....	35.61	11.0	33.3	35.61	11.0	33.3	-	-	-
Teachers, post secondary, n.e.c. ....	38.31	7.4	37.3	38.39	8.1	37.0	-	-	-
Teachers, except college and university .....	30.65	2.7	32.6	31.33	2.3	32.0	27.52	5.0	35.7
Prekindergarten and kindergarten .....	25.22	13.7	33.8	25.22	13.7	33.8	-	-	-
Elementary school teachers .....	32.45	2.6	34.0	32.99	2.6	33.5	-	-	-
Secondary school teachers .....	31.10	4.4	34.7	32.53	3.0	33.7	-	-	-
Teachers, special education .....	28.95	5.0	34.4	29.86	5.2	33.0	-	-	-
Teachers, n.e.c. ....	30.27	11.6	25.1	30.32	11.6	25.2	-	-	-
Substitute teachers .....	9.24	11.1	15.7	9.47	13.9	16.4	-	-	-
Vocational and educational counselors .....	28.58	4.7	32.5	28.86	5.9	34.1	-	-	-
Librarians, archivists, and curators .....	22.78	8.2	35.5	24.52	5.3	34.9	-	-	-
Social scientists and urban planners .....	22.80	8.8	36.6	24.69	5.6	36.2	-	-	-
Economists .....	21.35	10.6	31.0	21.86	11.7	30.4	-	-	-
Social, recreation, and religious workers .....	20.98	17.2	39.6	-	-	-	-	-	-
Social workers .....	16.77	4.0	34.6	16.89	4.2	34.6	-	-	-
Recreation workers .....	16.89	4.2	35.0	17.02	4.4	35.1	-	-	-
Lawyers and judges .....	14.28	7.6	27.5	14.28	7.6	27.5	-	-	-
Lawyers .....	33.75	5.8	40.0	33.75	5.8	40.0	-	-	-
Writers, authors, entertainers, athletes, and professionals, n.e.c. ....	32.61	6.0	40.2	32.61	6.0	40.2	-	-	-
Technical writers .....	21.65	5.8	36.3	22.12	5.7	37.4	-	-	-
Designers .....	28.09	7.9	32.8	28.09	7.9	32.8	-	-	-
Painters, sculptors, craft artists, and artist printmakers .....	23.40	12.7	37.3	23.40	12.7	37.3	-	-	-
printmakers .....	15.84	6.4	37.9	15.84	6.4	37.9	-	-	-

See footnotes at end of table.

Table 4-6. **New England census division:<sup>1</sup> Mean hourly earnings<sup>2</sup> and weekly hours by metropolitan and nonmetropolitan areas<sup>3</sup> for selected occupations, National Compensation Survey,<sup>4</sup> 1998—Continued**

Occupation <sup>5</sup>	Total			Metropolitan			Nonmetropolitan		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>6</sup> (percent)		Mean	Relative error <sup>6</sup> (percent)		Mean	Relative error <sup>6</sup> (percent)	
<b>White collar —Continued</b>									
<b>Professional specialty and technical —Continued</b>									
Professional specialty —Continued									
Writers, authors, entertainers, athletes, and professionals, n.e.c. —Continued									
Editors and reporters .....	\$22.18	15.0	39.2	\$22.18	15.0	39.2	—	—	—
Public relations specialists .....	19.91	8.7	37.9	20.73	9.4	37.7	—	—	—
Athletes .....	15.79	22.7	25.0	—	—	—	—	—	—
Professional, n.e.c. ....	23.39	12.2	36.2	23.39	12.2	36.2	—	—	—
Technical .....	17.91	2.7	35.5	18.42	2.9	35.9	\$14.54	2.0	33.4
Clinical laboratory technologists and technicians ....	15.92	4.4	35.8	15.92	4.4	35.8	—	—	—
Radiological technicians .....	21.52	5.6	29.4	21.52	5.6	29.4	—	—	—
Licensed practical nurses .....	15.79	1.7	29.3	16.59	1.2	30.5	13.44	1.4	26.3
Health technologists and technicians, n.e.c. ....	14.39	5.0	32.9	14.52	5.2	34.0	—	—	—
Electrical and electronic technicians .....	18.53	2.9	39.5	18.61	3.0	39.5	—	—	—
Mechanical engineering technicians .....	19.25	4.4	40.0	19.25	4.4	40.0	—	—	—
Engineering technicians, n.e.c. ....	21.03	6.7	37.4	21.03	6.7	37.4	—	—	—
Drafters .....	18.81	3.1	40.0	20.62	3.5	40.0	—	—	—
Chemical technicians .....	14.93	5.7	39.7	16.79	7.2	39.3	—	—	—
Science technicians, n.e.c. ....	15.73	4.4	39.3	14.84	9.3	38.2	—	—	—
Computer programmers .....	24.57	7.6	39.0	24.57	7.6	39.0	—	—	—
Legal assistants .....	20.33	13.1	39.3	20.33	13.1	39.3	—	—	—
Technical and related, n.e.c. ....	20.48	7.3	39.0	20.48	7.3	39.0	—	—	—
<b>Executive, administrative, and managerial .....</b>									
Executives, administrators, and managers .....	33.54	2.4	39.9	33.93	2.7	39.6	30.73	2.7	42.1
Legislators .....	25.86	4.5	18.6	25.86	4.5	18.6	—	—	—
Administrators and officials, public administration ...	26.51	8.1	37.0	28.57	4.8	36.6	—	—	—
Financial managers .....	34.47	3.8	40.2	33.33	4.9	40.3	—	—	—
Personnel and labor relations managers .....	25.82	25.3	46.3	36.92	24.8	42.1	—	—	—
Purchasing managers .....	32.04	8.8	41.6	32.04	8.8	41.6	—	—	—
Managers, marketing, advertising, and public relations .....	40.55	8.4	40.9	40.55	8.4	40.9	—	—	—
Administrators, education and related fields .....	34.78	5.5	37.7	34.44	5.8	37.5	—	—	—
Managers, medicine and health .....	29.98	6.8	39.5	30.30	7.4	39.5	—	—	—
Managers, food servicing and lodging establishments .....	19.21	5.7	44.1	19.21	5.7	44.1	—	—	—
Managers, service organizations, n.e.c. ....	21.83	10.8	39.7	21.92	10.8	39.7	—	—	—
Managers and administrators, n.e.c. ....	37.36	3.4	40.5	37.16	3.7	40.5	—	—	—
Management related .....	21.21	1.8	39.4	21.48	1.9	39.4	17.64	.0	39.3
Accountants and auditors .....	20.01	3.3	39.2	20.21	3.6	39.1	—	—	—
Underwriters .....	24.04	11.1	38.6	26.08	11.4	39.6	—	—	—
Other financial officers .....	24.27	3.2	39.6	24.35	3.3	39.9	—	—	—
Management analysts .....	24.72	5.8	39.2	24.77	5.9	39.2	—	—	—
Personnel, training, and labor relations specialists ..	19.99	5.4	39.8	20.16	5.5	39.7	—	—	—
Buyers, wholesale and retail trade, except farm products .....	23.55	7.4	41.3	23.55	7.4	41.3	—	—	—
Purchasing agents and buyers, n.e.c. ....	20.84	5.2	40.0	20.84	5.2	40.0	—	—	—
Construction inspectors .....	23.58	2.7	39.7	23.58	2.7	39.7	—	—	—
Inspectors and compliance officers, except construction .....	21.97	3.1	36.3	21.97	3.1	36.3	—	—	—
Management related, n.e.c. ....	20.98	4.3	39.6	21.35	4.6	39.5	—	—	—
<b>Sales .....</b>									
Supervisors, sales .....	18.99	9.4	41.8	18.51	11.1	42.2	—	—	—
Insurance sales .....	25.35	4.2	39.8	25.35	4.2	39.8	—	—	—
Securities and financial services sales .....	29.47	24.5	41.4	29.47	24.5	41.4	—	—	—
Advertising and related sales .....	20.42	6.7	39.9	20.42	6.7	39.9	—	—	—
Sales, other business services .....	26.68	25.8	39.8	26.68	25.8	39.8	—	—	—
Sales representatives, mining, manufacturing, and wholesale .....	29.61	16.1	40.5	29.61	16.1	40.5	—	—	—
Sales workers, motor vehicles and boats .....	20.63	17.2	42.9	20.63	17.2	42.9	—	—	—
Sales workers, apparel .....	7.19	3.5	28.2	7.19	3.5	28.2	—	—	—

See footnotes at end of table.



Table 4-6. **New England census division:**<sup>1</sup> **Mean hourly earnings**<sup>2</sup> **and weekly hours by metropolitan and nonmetropolitan areas**<sup>3</sup> **for selected occupations, National Compensation Survey,**<sup>4</sup> **1998—Continued**

Occupation <sup>5</sup>	Total			Metropolitan			Nonmetropolitan		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>6</sup> (percent)		Mean	Relative error <sup>6</sup> (percent)		Mean	Relative error <sup>6</sup> (percent)	
<b>White collar —Continued</b>									
<b>Sales —Continued</b>									
Sales workers, other commodities .....	\$10.50	10.5	27.6	\$9.57	7.5	26.9	—	—	—
Sales counter clerks .....	9.90	8.0	28.1	9.90	8.0	28.1	—	—	—
Cashiers .....	7.81	3.7	24.0	7.88	3.9	23.7	—	—	—
Sales support, n.e.c. ....	13.96	6.6	38.1	13.96	6.6	38.1	—	—	—
<b>Administrative support, including clerical .....</b>	<b>12.93</b>	<b>1.7</b>	<b>35.9</b>	<b>13.12</b>	<b>1.6</b>	<b>35.9</b>	<b>\$11.29</b>	<b>5.5</b>	<b>36.3</b>
Supervisors, general office .....	17.26	4.8	39.6	17.80	5.4	38.9	—	—	—
Supervisors, financial records processing .....	19.33	7.4	39.3	20.27	7.2	39.8	—	—	—
Supervisors, distribution, scheduling, and adjusting clerks .....	20.33	1.2	39.2	20.33	1.2	39.2	—	—	—
Computer operators .....	15.64	4.7	37.6	15.94	4.6	37.4	—	—	—
Secretaries .....	14.65	1.7	36.7	14.83	1.9	37.0	13.53	.9	35.1
Typists .....	12.98	3.2	33.9	12.98	3.2	33.9	—	—	—
Interviewers .....	11.60	2.3	32.7	11.57	2.4	32.5	—	—	—
Hotel clerks .....	9.28	4.8	31.7	9.28	4.8	31.7	—	—	—
Transportation ticket and reservation agents .....	13.74	2.4	37.6	13.74	2.4	37.6	—	—	—
Receptionists .....	9.68	3.6	35.0	9.82	4.2	34.0	—	—	—
Information clerks, n.e.c. ....	14.07	10.0	35.2	14.07	10.0	35.2	—	—	—
Correspondence clerks .....	12.44	9.8	34.4	12.44	9.8	34.4	—	—	—
Order clerks .....	12.56	4.8	37.1	12.59	5.0	37.0	—	—	—
Personnel clerks, except payroll and timekeeping ...	13.42	6.9	33.9	13.42	6.9	33.9	—	—	—
Library clerks .....	12.24	7.3	31.9	12.67	7.5	30.9	—	—	—
File clerks .....	8.73	6.9	34.3	8.73	6.9	34.3	—	—	—
Records clerks, n.e.c. ....	11.54	4.4	36.5	11.84	4.8	36.0	—	—	—
Bookkeepers, accounting and auditing clerks .....	12.97	2.0	36.2	13.12	2.1	37.0	—	—	—
Payroll and timekeeping clerks .....	12.87	5.8	37.1	12.97	6.0	37.0	—	—	—
Billing clerks .....	11.29	4.4	38.6	11.25	4.4	38.5	—	—	—
Duplicating machine operators .....	10.07	3.2	35.7	10.07	3.2	35.7	—	—	—
Telephone operators .....	10.57	5.9	30.7	10.57	5.9	30.7	—	—	—
Mail clerks, except postal service .....	8.79	4.7	28.2	8.79	4.7	28.2	—	—	—
Dispatchers .....	10.48	16.5	32.2	—	—	—	—	—	—
Production coordinators .....	16.37	5.9	39.5	16.37	5.9	39.5	—	—	—
Traffic, shipping and receiving clerks .....	12.05	5.8	38.5	12.65	3.6	39.7	—	—	—
Stock and inventory clerks .....	14.19	2.4	38.9	13.98	3.4	38.5	—	—	—
Material recording, scheduling, and distribution clerks, n.e.c. ....	11.73	3.0	35.9	11.73	3.0	35.9	—	—	—
Insurance adjusters, examiners, and investigators ..	15.35	2.4	38.3	15.35	2.4	38.3	—	—	—
Investigators and adjusters, except insurance .....	13.10	3.7	36.2	13.05	3.7	36.2	—	—	—
Bill and account collectors .....	12.93	4.4	39.6	12.93	4.4	39.6	—	—	—
General office clerks .....	12.68	2.1	35.7	12.70	2.1	35.5	—	—	—
Data entry keyers .....	10.58	5.2	37.1	11.30	3.8	36.6	—	—	—
Statistical clerks .....	11.82	6.3	32.9	11.82	6.3	32.9	—	—	—
Teachers' aides .....	10.28	5.3	32.8	11.02	4.0	30.7	—	—	—
Administrative support, n.e.c. ....	13.52	4.4	34.2	13.82	4.8	33.9	—	—	—
<b>Blue collar .....</b>	<b>13.24</b>	<b>2.6</b>	<b>37.7</b>	<b>13.80</b>	<b>1.4</b>	<b>37.6</b>	<b>10.00</b>	<b>9.6</b>	<b>38.7</b>
<b>Precision production, craft, and repair .....</b>									
Supervisors, mechanics and repairers .....	24.03	2.6	40.5	24.03	2.6	40.5	15.57	2.8	40.4
Automobile mechanics .....	17.90	4.3	39.5	17.90	4.3	39.5	—	—	—
Bus, truck, and stationary engine mechanics .....	19.07	7.2	40.3	19.37	7.3	40.3	—	—	—
Industrial machinery repairers .....	16.11	4.1	39.9	15.33	2.0	39.8	—	—	—
Machinery maintenance .....	13.25	4.5	40.0	13.25	4.5	40.0	—	—	—
Electronic repairers, communications and industrial equipment .....	13.69	14.2	38.7	13.69	14.2	38.7	—	—	—
Mechanics and repairers, n.e.c. ....	17.40	4.3	39.7	17.40	4.3	39.7	—	—	—
Supervisors, construction trades, n.e.c. ....	16.73	6.1	40.0	—	—	—	—	—	—
Carpenters .....	19.81	4.9	39.7	19.81	4.9	39.7	—	—	—
Electricians .....	20.52	9.4	40.0	20.52	9.4	40.0	—	—	—
Electrical power installers and repairers .....	23.58	2.8	40.0	23.62	2.9	40.0	—	—	—
Painters, construction and maintenance .....	17.15	5.3	40.0	17.70	4.0	40.0	—	—	—

See footnotes at end of table.

Table 4-6. New England census division:<sup>1</sup> Mean hourly earnings<sup>2</sup> and weekly hours by metropolitan and nonmetropolitan areas<sup>3</sup> for selected occupations, National Compensation Survey,<sup>4</sup> 1998—Continued

Occupation <sup>5</sup>	Total			Metropolitan			Nonmetropolitan		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>6</sup> (percent)		Mean	Relative error <sup>6</sup> (percent)		Mean	Relative error <sup>6</sup> (percent)	
<b>Blue collar—Continued</b>									
<b>Precision production, craft, and repair—Continued</b>									
Plumbers, pipefitters and steamfitters .....	\$20.66	4.2	40.0	\$21.12	3.6	40.0	—	—	—
Construction trades, n.e.c. ....	14.94	11.1	39.9	17.47	9.9	39.9	—	—	—
Supervisors, production .....	18.37	3.5	40.6	19.04	4.8	40.3	—	—	—
Tool and die makers .....	17.28	5.2	40.0	17.28	5.2	40.0	—	—	—
Machinists .....	17.49	2.9	40.0	17.87	2.0	40.0	—	—	—
Sheet metal workers .....	17.26	5.1	40.0	17.26	5.1	40.0	—	—	—
Electrical and electronic equipment assemblers .....	12.13	4.4	40.0	12.13	4.4	40.0	—	—	—
Butchers and meat cutters .....	12.85	10.4	38.2	14.54	11.7	37.4	—	—	—
Inspectors, testers, and graders .....	15.04	6.7	39.7	15.08	6.9	39.7	—	—	—
Water and sewer treatment plant operators .....	17.78	2.9	40.0	17.78	2.9	40.0	—	—	—
<b>Machine operators, assemblers, and inspectors .....</b>	<b>11.04</b>	<b>3.1</b>	<b>38.6</b>	<b>11.57</b>	<b>1.6</b>	<b>38.5</b>	<b>\$9.12</b>	<b>7.9</b>	<b>38.8</b>
Lathe and turning machine operators .....	16.13	3.8	40.0	16.13	3.8	40.0	—	—	—
Punching and stamping press operators .....	10.27	2.2	39.5	10.27	2.2	39.5	—	—	—
Grinding, abrading, buffing, and polishing machine operators .....	8.19	10.5	40.0	9.86	4.4	40.0	—	—	—
Numerical control machine operators .....	14.18	1.1	40.0	14.18	1.1	40.0	—	—	—
Fabricating machine operators, n.e.c. ....	12.88	4.1	40.0	12.88	4.1	40.0	—	—	—
Molding and casting machine operators .....	10.72	6.3	39.9	11.59	6.8	39.8	—	—	—
Metal plating machine operators .....	12.64	4.2	40.0	12.64	4.2	40.0	—	—	—
Heat treating equipment operators .....	13.14	7.5	40.0	13.14	7.5	40.0	—	—	—
Printing press operators .....	14.40	4.9	38.7	14.40	4.9	38.7	—	—	—
Photoengravers and lithographers .....	13.90	12.7	39.7	13.90	12.7	39.7	—	—	—
Winding and twisting machine operators .....	10.16	.0	39.8	10.13	.0	39.8	—	—	—
Knitting, looping, taping, and weaving machine operators .....	10.56	.5	39.8	10.09	.0	39.5	—	—	—
Textile sewing machine operators .....	9.83	5.9	40.0	9.83	5.9	40.0	—	—	—
Laundry and dry cleaning machine operators .....	8.18	6.1	32.4	8.18	6.1	32.4	—	—	—
Packaging and filling machine operators .....	10.43	6.4	39.8	10.43	6.4	39.8	—	—	—
Extruding and forming machine operators .....	10.07	5.1	39.2	10.41	5.2	39.0	—	—	—
Mixing and blending machine operators .....	13.01	7.2	40.0	14.28	5.4	40.0	—	—	—
Compressing and compacting machine operators ..	10.70	9.9	34.1	10.70	9.9	34.1	—	—	—
Furnace, kiln, and oven operators, except food .....	14.57	4.9	39.2	14.57	4.9	39.2	—	—	—
Slicing and cutting machine operators .....	10.89	9.6	40.0	12.76	6.9	40.0	—	—	—
Miscellaneous machine operators, n.e.c. ....	10.52	6.6	38.8	11.81	3.3	39.6	7.96	8.4	37.3
Welders and cutters .....	14.78	3.3	40.0	14.78	3.3	40.0	—	—	—
Assemblers .....	9.89	2.4	34.9	9.19	2.5	34.0	—	—	—
Miscellaneous hand working, n.e.c. ....	8.53	5.9	40.0	8.53	5.9	40.0	—	—	—
Production inspectors, checkers and examiners .....	11.01	4.9	39.8	11.20	5.1	39.8	—	—	—
Production testers .....	12.41	2.7	40.0	12.41	2.7	40.0	—	—	—
<b>Transportation and material moving .....</b>	<b>14.91</b>	<b>2.7</b>	<b>37.7</b>	<b>14.93</b>	<b>2.7</b>	<b>37.7</b>	—	—	—
Truck drivers .....	15.09	3.3	38.5	15.11	3.4	38.4	—	—	—
Bus drivers .....	14.43	5.6	33.5	14.61	5.6	34.0	—	—	—
Motor transportation, n.e.c. ....	14.87	7.2	38.1	14.87	7.2	38.1	—	—	—
Supervisors, material moving equipment .....	16.57	8.7	44.0	16.57	8.7	44.0	—	—	—
Excavating and loading machine operators .....	23.92	4.9	40.0	23.92	4.9	40.0	—	—	—
Industrial truck and tractor equipment operators .....	12.68	4.1	38.7	12.68	4.1	38.7	—	—	—
Miscellaneous material moving equipment operators, n.e.c. ....	13.77	5.0	40.0	13.77	5.0	40.0	—	—	—
<b>Handlers, equipment cleaners, helpers, and laborers ..</b>	<b>10.46</b>	<b>4.5</b>	<b>33.6</b>	<b>10.93</b>	<b>3.9</b>	<b>33.0</b>	<b>7.98</b>	<b>6.5</b>	<b>37.3</b>
Groundskeepers and gardeners, except farm .....	12.10	5.6	40.1	12.17	5.7	40.1	—	—	—
Construction laborers .....	17.41	9.6	40.0	18.18	8.6	40.0	—	—	—
Production helpers .....	8.12	18.9	39.6	11.80	5.7	39.0	—	—	—
Stock handlers and baggers .....	8.80	3.1	28.3	8.96	2.9	27.9	—	—	—
Machine feeders and offbearers .....	8.78	16.6	37.5	10.75	9.4	36.0	—	—	—
Freight, stock, and material handlers, n.e.c. ....	11.04	5.9	32.4	10.58	5.1	31.8	—	—	—
Hand packers and packagers .....	8.53	5.4	32.6	8.64	5.7	33.0	—	—	—
Laborers, except construction, n.e.c. ....	10.36	4.0	36.3	10.22	4.4	36.3	—	—	—

See footnotes at end of table.

Table 4-6. New England census division:<sup>1</sup> Mean hourly earnings<sup>2</sup> and weekly hours by metropolitan and nonmetropolitan areas<sup>3</sup> for selected occupations, National Compensation Survey,<sup>4</sup> 1998—Continued

Occupation <sup>5</sup>	Total			Metropolitan			Nonmetropolitan		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>6</sup> (percent)		Mean	Relative error <sup>6</sup> (percent)		Mean	Relative error <sup>6</sup> (percent)	
<b>Service</b> .....	\$10.56	1.6	30.8	\$10.90	1.7	31.6	\$8.24	1.5	26.2
Protective service .....	14.75	4.4	36.2	14.79	4.6	36.2	13.69	1.6	35.6
Supervisors, firefighters and fire prevention .....	22.79	2.1	41.7	23.23	.8	41.7	—	—	—
Supervisors, police and detectives .....	24.54	6.0	39.6	24.51	6.6	39.6	—	—	—
Supervisors, guards .....	16.08	11.2	38.4	16.08	11.2	38.4	—	—	—
Firefighting .....	17.70	3.3	43.4	17.70	3.3	43.4	—	—	—
Police and detectives, public service .....	18.47	1.7	38.7	18.71	1.7	39.3	—	—	—
Sheriffs, bailiffs, and other law enforcement officers .....	16.35	7.0	39.2	17.33	6.9	39.1	—	—	—
Crossing guards .....	9.50	3.8	15.6	9.50	3.8	15.6	—	—	—
Guards and police, except public service .....	8.90	3.1	33.6	8.90	3.2	33.4	—	—	—
Protective service, n.e.c. ....	8.25	3.1	17.2	8.25	3.1	17.2	—	—	—
Food service .....	7.65	2.5	26.5	7.86	3.1	27.9	7.04	5.3	23.2
Supervisors, food preparation and service .....	14.70	3.4	42.3	15.81	5.4	41.9	—	—	—
Bartenders .....	6.79	12.1	25.2	6.54	17.0	27.8	—	—	—
Waiters and waitresses .....	4.05	13.2	23.5	3.70	7.9	24.6	4.70	25.7	21.7
Cooks .....	10.08	2.5	30.8	10.57	2.9	33.9	—	—	—
Food counter, fountain, and related .....	6.88	7.3	21.9	6.88	7.3	21.9	—	—	—
Kitchen workers, food preparation .....	7.05	3.9	27.4	7.42	3.3	26.3	—	—	—
Waiters/Waitresses' assistants .....	5.73	4.3	19.6	5.36	7.1	22.1	—	—	—
Food preparation, n.e.c. ....	7.75	2.5	25.9	7.84	2.7	27.6	6.94	4.3	16.5
Health service .....	10.14	1.0	31.4	10.28	1.1	31.9	9.12	3.8	28.2
Health aides, except nursing .....	9.75	2.1	27.8	10.32	2.8	30.8	8.19	2.3	21.9
Nursing aides, orderlies and attendants .....	10.20	1.1	32.2	10.25	1.2	32.0	9.70	3.5	34.4
Cleaning and building service .....	10.31	2.4	33.1	10.49	2.4	32.7	8.92	5.2	36.5
Supervisors, cleaning and building service workers .....	16.37	11.6	38.4	16.50	13.4	38.2	—	—	—
Maids and housemen .....	7.97	2.7	33.7	8.14	3.3	34.4	—	—	—
Janitors and cleaners .....	10.36	2.8	32.8	10.50	2.7	32.3	9.00	8.2	38.6
Personal service .....	10.41	5.9	27.2	10.47	6.2	28.2	—	—	—
Supervisors, personal service .....	12.85	5.6	41.0	12.79	6.7	41.2	—	—	—
Welfare service aides .....	10.77	6.7	22.5	11.16	5.9	25.3	—	—	—
Early childhood teachers' assistants .....	7.16	4.8	30.9	—	—	—	—	—	—
Child care workers, n.e.c. ....	8.83	5.9	26.4	8.81	6.1	26.1	—	—	—
Service, n.e.c. ....	10.36	5.0	29.1	10.36	5.0	29.1	—	—	—

<sup>1</sup> The New England census division consists of Maine, New Hampshire, Vermont, Massachusetts, Rhode Island, and Connecticut.

<sup>2</sup> 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.

<sup>3</sup> Metropolitan areas can be a Metropolitan Statistical Area (MSA) or Consolidated Metropolitan Statistical Area (CMSA) as defined by the Office of Management and Budget, 1994. Nonmetropolitan areas are counties that do not fit the definitions above. For more information, see appendix E.

<sup>4</sup> In this census division, collection was conducted between May 1998 and April 1999. The average reference period was November 1998.

<sup>5</sup> A classification system including about 480 individual occupations is used to cover all workers in the civilian economy. For more information, see appendix B.

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

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

Table 4-7. Middle Atlantic census division:<sup>1</sup> Mean hourly earnings<sup>2</sup> and weekly hours by metropolitan and nonmetropolitan areas<sup>3</sup> for selected occupations, National Compensation Survey,<sup>4</sup> 1998

Occupation <sup>5</sup>	Total			Metropolitan			Nonmetropolitan		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>6</sup> (percent)		Mean	Relative error <sup>6</sup> (percent)		Mean	Relative error <sup>6</sup> (percent)	
All .....	\$18.10	1.5	35.8	\$18.39	1.6	35.7	\$13.58	1.6	36.2
All excluding sales .....	18.30	1.5	36.1	18.60	1.6	36.0	13.57	2.2	36.4
<b>White collar</b> .....	22.06	1.4	35.7	22.30	1.5	35.7	16.95	2.4	35.3
White collar excluding sales .....	22.88	1.4	36.3	23.14	1.4	36.3	17.43	.7	35.7
<b>Professional specialty and technical</b> .....	27.00	1.7	35.2	27.34	1.8	35.2	20.94	1.7	34.1
Professional specialty .....	29.12	1.5	35.1	29.51	1.6	35.2	22.39	.4	33.4
Engineers, architects, and surveyors .....	27.99	1.9	39.7	28.50	1.9	39.5	-	-	-
Architects .....	22.84	12.8	41.4	22.84	12.8	41.4	-	-	-
Metallurgical and materials engineers .....	25.24	4.2	40.1	25.24	4.2	40.1	-	-	-
Chemical engineers .....	33.02	5.7	39.7	33.02	5.7	39.7	-	-	-
Nuclear engineers .....	35.65	8.7	40.0	35.65	8.7	40.0	-	-	-
Civil engineers .....	26.07	5.3	39.5	26.07	5.3	39.5	-	-	-
Electrical and electronic engineers .....	29.73	2.1	39.3	29.81	2.0	39.3	-	-	-
Industrial engineers .....	24.85	12.9	41.1	28.53	7.9	39.8	-	-	-
Mechanical engineers .....	25.18	4.3	38.3	25.71	4.1	38.2	-	-	-
Engineers, n.e.c. ....	29.88	2.5	39.6	29.88	2.5	39.6	-	-	-
Mathematical and computer scientists .....	32.31	5.2	39.4	32.36	5.2	39.4	-	-	-
Computer systems analysts and scientists .....	29.87	2.6	39.5	29.92	2.6	39.5	-	-	-
Operations and systems researchers and analysts .....	42.90	9.3	39.5	42.90	9.3	39.5	-	-	-
Statisticians .....	27.89	6.9	35.6	27.89	6.9	35.6	-	-	-
Natural scientists .....	30.23	4.3	39.2	30.23	4.3	39.2	-	-	-
Chemists, except biochemists .....	34.05	6.6	39.6	34.05	6.6	39.6	-	-	-
Physical scientists, n.e.c. ....	26.00	5.7	39.9	26.00	5.7	39.9	-	-	-
Biological and life scientists .....	30.63	6.5	38.0	30.63	6.5	38.0	-	-	-
Medical scientists .....	28.77	10.4	37.9	28.77	10.4	37.9	-	-	-
Health related .....	23.94	1.9	33.5	24.18	2.0	33.9	20.79	2.2	29.4
Physicians .....	29.37	5.4	40.0	28.31	5.7	40.0	-	-	-
Registered nurses .....	23.17	1.8	32.5	23.62	2.0	32.9	17.78	1.6	28.5
Pharmacists .....	27.40	2.8	35.0	27.33	3.1	34.7	-	-	-
Dietitians .....	16.61	4.0	35.6	16.61	4.0	35.6	-	-	-
Respiratory therapists .....	20.78	2.3	32.3	20.78	2.3	32.3	-	-	-
Occupational therapists .....	24.12	6.6	30.1	24.12	6.6	30.1	-	-	-
Physical therapists .....	26.95	5.7	33.6	27.15	5.8	34.4	-	-	-
Speech therapists .....	22.30	9.1	24.8	22.89	10.7	26.0	-	-	-
Therapists, n.e.c. ....	16.28	5.0	37.1	16.91	5.0	37.6	-	-	-
Physicians' assistants .....	24.61	11.5	37.3	24.61	11.5	37.3	-	-	-
Teachers, college and university .....	41.23	2.7	32.6	41.83	2.8	32.3	33.78	1.5	37.4
Biological science teachers .....	35.79	4.8	32.6	37.83	2.2	31.3	-	-	-
Chemistry teachers .....	37.13	18.6	35.3	37.13	18.6	35.3	-	-	-
Natural science teachers, n.e.c. ....	48.95	3.3	39.0	48.95	3.3	39.0	-	-	-
Psychology teachers .....	38.83	14.0	31.8	38.83	14.0	31.8	-	-	-
Mathematical science teachers .....	42.43	13.3	36.0	42.43	13.3	36.0	-	-	-
Medical science teachers .....	69.75	10.2	26.0	69.75	10.2	26.0	-	-	-
Health specialties teachers .....	29.77	4.5	38.8	29.77	4.5	38.8	-	-	-
Business, commerce, and marketing teachers .....	46.86	8.5	32.2	48.63	8.5	32.4	-	-	-
Art, drama, and music teachers .....	29.68	4.8	30.0	27.38	3.9	28.3	-	-	-
Education teachers .....	32.26	6.7	27.6	30.88	9.2	25.1	-	-	-
English teachers .....	40.23	10.4	35.9	43.52	9.9	35.7	-	-	-
Theology teachers .....	45.15	10.4	34.9	45.15	10.4	34.9	-	-	-
Teachers, post secondary, subject not specified .....	33.85	7.3	35.8	32.40	8.1	35.0	-	-	-
Teachers, post secondary, n.e.c. ....	39.78	5.8	30.6	39.78	5.8	30.6	-	-	-
Teachers, except college and university .....	33.46	2.3	33.1	33.99	2.3	33.1	26.17	5.6	33.9
Prekindergarten and kindergarten .....	28.51	15.8	33.0	28.51	15.8	33.0	-	-	-
Elementary school teachers .....	35.70	2.5	34.5	36.18	2.4	34.4	-	-	-
Secondary school teachers .....	36.02	3.8	35.8	36.74	3.8	35.8	-	-	-
Teachers, special education .....	34.31	3.5	33.3	34.40	3.6	33.2	-	-	-
Teachers, n.e.c. ....	32.67	4.3	30.3	32.94	4.4	30.0	-	-	-
Substitute teachers .....	10.18	3.4	21.0	10.33	3.6	22.7	-	-	-
Vocational and educational counselors .....	27.08	11.8	35.4	28.25	13.6	35.0	23.16	9.6	37.1
Librarians, archivists, and curators .....	24.03	7.9	35.3	24.03	7.9	35.3	-	-	-
Librarians .....	25.44	7.2	34.6	25.44	7.2	34.6	-	-	-
Social scientists and urban planners .....	28.60	7.5	35.3	28.60	7.5	35.3	-	-	-
Economists .....	29.16	7.9	37.8	29.16	7.9	37.8	-	-	-

See footnotes at end of table.

Table 4-7. Middle Atlantic census division:<sup>1</sup> Mean hourly earnings<sup>2</sup> and weekly hours by metropolitan and nonmetropolitan areas<sup>3</sup> for selected occupations, National Compensation Survey,<sup>4</sup> 1998–Continued

Occupation <sup>5</sup>	Total			Metropolitan			Nonmetropolitan		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>6</sup> (percent)		Mean	Relative error <sup>6</sup> (percent)		Mean	Relative error <sup>6</sup> (percent)	
<b>White collar –Continued</b>									
<b>Professional specialty and technical –Continued</b>									
Professional specialty –Continued									
Social scientists and urban planners –Continued									
Psychologists .....	\$28.99	11.5	33.6	\$28.99	11.5	33.6	–	–	–
Social, recreation, and religious workers .....	18.06	2.8	35.7	18.25	3.2	35.6	\$16.73	3.2	36.5
Social workers .....	18.27	3.0	35.9	18.45	3.3	35.8	17.04	3.5	36.6
Recreation workers .....	14.13	8.2	33.0	14.42	8.1	32.9	–	–	–
Lawyers and judges .....	38.47	7.2	39.0	38.81	7.4	39.2	–	–	–
Lawyers .....	38.45	7.3	39.3	38.79	7.4	39.6	–	–	–
Writers, authors, entertainers, athletes, and professionals, n.e.c. ....	28.22	7.1	35.7	28.42	7.1	35.7	–	–	–
Technical writers .....	22.21	10.1	40.0	22.21	10.1	40.0	–	–	–
Designers .....	23.15	4.6	38.9	23.15	4.6	38.9	–	–	–
Actors and directors .....	38.70	13.5	34.1	38.70	13.5	34.1	–	–	–
Editors and reporters .....	28.31	12.6	37.1	28.40	12.7	37.1	–	–	–
Public relations specialists .....	22.23	7.2	37.1	22.85	7.0	37.4	–	–	–
Athletes .....	16.54	9.1	17.8	16.84	10.8	15.8	–	–	–
Professional, n.e.c. ....	28.55	7.0	39.3	28.55	7.0	39.3	–	–	–
Technical .....	19.08	4.3	35.6	19.29	4.5	35.4	14.68	8.7	37.9
Clinical laboratory technologists and technicians ....	16.75	4.0	35.7	16.87	4.0	35.6	–	–	–
Health record technologists and technicians .....	12.92	8.9	29.5	12.92	8.9	29.5	–	–	–
Radiological technicians .....	17.98	4.7	31.9	17.98	4.7	31.9	–	–	–
Licensed practical nurses .....	14.43	2.1	33.1	14.64	2.2	32.8	12.11	6.4	35.7
Health technologists and technicians, n.e.c. ....	15.44	2.2	34.2	15.52	2.3	34.0	–	–	–
Electrical and electronic technicians .....	17.51	5.5	39.5	18.33	3.2	39.5	–	–	–
Mechanical engineering technicians .....	21.05	2.2	39.3	21.05	2.2	39.3	–	–	–
Engineering technicians, n.e.c. ....	19.04	2.1	39.4	19.04	2.1	39.4	–	–	–
Drafters .....	17.30	6.7	40.0	17.30	6.7	40.0	–	–	–
Surveying and mapping technicians .....	14.03	12.0	38.8	14.03	12.0	38.8	–	–	–
Biological technicians .....	19.17	5.1	37.8	19.17	5.1	37.8	–	–	–
Chemical technicians .....	17.58	4.1	39.8	17.58	4.1	39.8	–	–	–
Science technicians, n.e.c. ....	16.53	6.5	38.4	16.53	6.5	38.4	–	–	–
Airplane pilots and navigators .....	83.07	27.5	23.8	108.69	13.0	20.1	–	–	–
Broadcast equipment operators .....	25.65	13.1	33.5	25.65	13.1	33.5	–	–	–
Computer programmers .....	21.05	5.7	38.3	22.05	4.0	38.2	–	–	–
Legal assistants .....	18.65	5.0	38.2	18.65	5.0	38.2	–	–	–
Technical and related, n.e.c. ....	21.08	3.9	37.3	21.25	3.9	37.4	–	–	–
<b>Executive, administrative, and managerial</b>									
Executives, administrators, and managers .....	31.04	1.9	38.9	31.35	1.9	38.9	21.46	3.0	38.5
Administrators and officials, public administration ...	35.74	2.0	39.3	36.30	2.0	39.3	21.96	3.1	38.9
Administrators and officials, public administration ...	29.07	5.6	36.8	30.99	5.7	36.8	21.98	5.1	36.8
Financial managers .....	40.56	6.2	39.2	41.42	6.1	39.1	–	–	–
Personnel and labor relations managers .....	36.84	5.3	39.5	38.75	5.0	39.7	–	–	–
Purchasing managers .....	30.70	6.3	40.7	30.70	6.3	40.7	–	–	–
Managers, marketing, advertising, and public relations .....	38.04	4.8	39.8	38.06	4.8	39.8	–	–	–
Administrators, education and related fields .....	35.85	7.1	36.5	36.73	7.1	36.3	25.70	11.0	38.7
Managers, medicine and health .....	33.29	5.6	38.6	33.71	5.7	38.6	–	–	–
Managers, food servicing and lodging establishments .....	21.77	12.1	42.7	23.46	10.6	43.1	–	–	–
Managers, properties and real estate .....	29.05	2.4	39.6	29.05	2.4	39.6	–	–	–
Managers, service organizations, n.e.c. ....	33.43	9.6	38.1	34.52	9.0	37.8	–	–	–
Managers and administrators, n.e.c. ....	35.96	2.5	40.1	36.07	2.6	40.1	–	–	–
Management related .....	23.84	2.9	38.3	23.92	2.9	38.3	20.04	8.1	37.2
Accountants and auditors .....	22.78	3.2	38.3	22.94	3.2	38.3	–	–	–
Underwriters .....	34.64	12.9	38.7	34.64	12.9	38.7	–	–	–
Other financial officers .....	28.73	10.4	37.2	28.84	10.4	37.5	–	–	–
Management analysts .....	29.08	5.6	38.7	29.08	5.6	38.7	–	–	–
Personnel, training, and labor relations specialists ..	22.78	5.6	39.1	22.81	5.6	39.2	–	–	–
Buyers, wholesale and retail trade, except farm products .....	24.35	10.6	40.5	24.35	10.6	40.5	–	–	–
Purchasing agents and buyers, n.e.c. ....	22.92	8.9	39.1	22.92	8.9	39.1	–	–	–

See footnotes at end of table.

Table 4-7. Middle Atlantic census division:<sup>1</sup> Mean hourly earnings<sup>2</sup> and weekly hours by metropolitan and nonmetropolitan areas<sup>3</sup> for selected occupations, National Compensation Survey,<sup>4</sup> 1998–Continued

Occupation <sup>5</sup>	Total			Metropolitan			Nonmetropolitan		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>6</sup> (percent)		Mean	Relative error <sup>6</sup> (percent)		Mean	Relative error <sup>6</sup> (percent)	
<b>White collar –Continued</b>									
<b>Executive, administrative, and managerial –Continued</b>									
Management related –Continued									
Construction inspectors .....	\$20.64	8.2	36.3	\$20.64	8.2	36.3	–	–	–
Inspectors and compliance officers, except construction .....	20.06	9.6	37.9	20.06	9.6	37.9	–	–	–
Management related, n.e.c. ....	23.00	4.2	38.4	23.05	4.3	38.4	–	–	–
<b>Sales</b> .....	14.98	6.4	31.6	15.05	6.7	31.5	\$13.85	15.8	33.0
Supervisors, sales .....	22.69	9.5	40.5	23.02	9.9	40.5	–	–	–
Insurance sales .....	18.42	13.2	39.1	18.42	13.2	39.1	–	–	–
Securities and financial services sales .....	45.57	8.3	39.7	45.57	8.3	39.7	–	–	–
Advertising and related sales .....	18.95	4.9	37.1	18.95	4.9	37.1	–	–	–
Sales, other business services .....	20.92	10.4	34.6	20.92	10.4	34.6	–	–	–
Sales engineers .....	22.44	9.0	43.2	22.44	9.0	43.2	–	–	–
Sales representatives, mining, manufacturing, and wholesale .....	26.23	7.0	41.6	26.43	8.8	40.1	–	–	–
Sales workers, motor vehicles and boats .....	23.34	19.0	44.9	23.34	19.0	44.9	–	–	–
Sales workers, apparel .....	7.46	5.8	29.2	7.50	6.1	28.8	–	–	–
Sales workers, shoes .....	9.45	6.7	31.4	9.45	6.7	31.4	–	–	–
Sales workers, furniture and home furnishings .....	13.74	16.7	37.8	14.48	13.9	37.6	–	–	–
Sales workers, radio, tv, hi-fi, and appliances .....	9.86	8.5	36.0	10.36	7.4	35.5	–	–	–
Sales workers, hardware and building supplies .....	12.43	8.5	36.0	12.43	8.5	36.0	–	–	–
Sales workers, parts .....	17.45	22.3	36.9	17.45	22.3	36.9	–	–	–
Sales workers, other commodities .....	8.85	4.6	27.6	9.00	4.7	27.7	6.19	1.1	26.5
Sales counter clerks .....	8.57	6.1	28.6	8.57	6.1	28.6	–	–	–
Cashiers .....	8.26	3.5	26.5	8.34	3.6	26.6	6.99	8.8	24.2
Demonstrators, promoters, and models, sales .....	9.50	9.8	26.5	8.87	9.5	25.6	–	–	–
Sales support, n.e.c. ....	13.72	10.6	34.5	13.72	10.6	34.5	–	–	–
<b>Administrative support, including clerical</b> .....	13.44	1.3	36.1	13.56	1.3	36.1	10.68	2.6	36.9
Supervisors, general office .....	19.01	3.9	38.2	19.08	3.9	38.2	–	–	–
Supervisors, computer equipment operators .....	20.37	5.5	38.1	20.37	5.5	38.1	–	–	–
Supervisors, financial records processing .....	18.19	4.3	38.2	18.56	4.7	38.4	–	–	–
Supervisors, distribution, scheduling, and adjusting clerks .....	18.67	10.1	40.1	18.67	10.1	40.1	–	–	–
Computer operators .....	14.78	3.5	38.3	14.82	3.5	38.3	–	–	–
Peripheral equipment operators .....	10.75	8.4	33.2	10.20	10.0	32.6	–	–	–
Secretaries .....	14.74	1.7	37.0	14.83	1.7	37.0	11.68	1.7	37.6
Stenographers .....	16.35	4.4	35.1	16.98	4.6	34.8	–	–	–
Typists .....	12.66	2.7	34.2	12.66	2.8	34.2	–	–	–
Interviewers .....	10.72	5.8	27.9	10.77	6.0	28.3	–	–	–
Hotel clerks .....	9.70	6.3	38.6	9.75	6.3	38.6	–	–	–
Transportation ticket and reservation agents .....	14.81	5.3	34.9	14.81	5.3	34.9	–	–	–
Receptionists .....	10.38	2.7	34.3	10.40	2.7	34.3	–	–	–
Information clerks, n.e.c. ....	14.36	14.0	34.5	14.39	14.0	34.5	–	–	–
Correspondence clerks .....	13.31	5.1	37.8	13.31	5.1	37.8	–	–	–
Order clerks .....	15.28	4.4	38.7	15.54	4.2	38.8	–	–	–
Personnel clerks, except payroll and timekeeping ...	14.71	3.7	38.7	14.71	3.7	38.7	–	–	–
Library clerks .....	11.56	2.9	26.6	11.56	2.9	26.6	–	–	–
File clerks .....	10.24	3.9	36.0	10.24	3.9	36.0	–	–	–
Records clerks, n.e.c. ....	12.64	3.1	36.4	12.67	3.1	36.4	–	–	–
Bookkeepers, accounting and auditing clerks .....	13.12	2.1	37.6	13.33	2.2	37.5	10.50	2.6	39.5
Payroll and timekeeping clerks .....	12.95	4.8	38.5	13.22	4.8	38.6	–	–	–
Billing clerks .....	11.11	4.4	38.5	11.67	3.0	38.2	–	–	–
Billing, posting, and calculating machine operators .....	10.69	7.8	29.9	10.69	7.8	29.9	–	–	–
Duplicating machine operators .....	9.44	5.4	32.3	9.44	5.4	32.3	–	–	–
Office machine operators, n.e.c. ....	8.61	9.9	37.3	8.61	9.9	37.3	–	–	–
Telephone operators .....	14.18	5.1	36.0	14.19	5.1	36.0	–	–	–
Mail clerks, except postal service .....	10.64	8.8	37.6	10.67	8.9	37.6	–	–	–
Messengers .....	8.93	15.6	37.4	8.95	15.8	37.5	–	–	–
Dispatchers .....	15.60	9.0	38.5	15.90	8.9	38.4	–	–	–
Production coordinators .....	15.67	7.4	38.7	16.49	6.1	38.5	–	–	–

See footnotes at end of table.

Table 4-7. Middle Atlantic census division:<sup>1</sup> Mean hourly earnings<sup>2</sup> and weekly hours by metropolitan and nonmetropolitan areas<sup>3</sup> for selected occupations, National Compensation Survey,<sup>4</sup> 1998–Continued

Occupation <sup>5</sup>	Total			Metropolitan			Nonmetropolitan		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>6</sup> (percent)		Mean	Relative error <sup>6</sup> (percent)		Mean	Relative error <sup>6</sup> (percent)	
<b>White collar –Continued</b>									
<b>Administrative support, including clerical –Continued</b>									
Traffic, shipping and receiving clerks .....	\$11.82	2.7	39.3	\$11.82	2.7	39.3	–	–	–
Stock and inventory clerks .....	12.16	5.7	35.1	12.27	6.0	34.5	\$11.35	16.9	40.0
Meter readers .....	18.38	3.3	40.0	18.39	3.3	40.0	–	–	–
Weighers, measurers, checkers, and samplers .....	12.63	22.2	38.6	12.63	22.2	38.6	–	–	–
Expeditors .....	13.24	9.8	36.0	13.24	9.8	36.0	–	–	–
Material recording, scheduling, and distribution clerks, n.e.c. ....	11.29	8.0	34.1	11.28	8.1	33.9	–	–	–
Insurance adjusters, examiners, and investigators ..	16.36	13.1	39.1	16.36	13.1	39.1	–	–	–
Investigators and adjusters, except insurance .....	14.95	7.8	38.1	14.98	7.8	38.1	–	–	–
Eligibility clerks, social welfare .....	14.26	3.3	35.8	14.49	3.7	36.0	–	–	–
Bill and account collectors .....	13.84	8.4	38.3	14.08	8.4	38.2	–	–	–
General office clerks .....	12.58	2.9	35.3	12.64	3.0	35.4	10.89	5.8	33.6
Bank tellers .....	9.67	1.6	34.4	9.67	1.6	34.3	–	–	–
Proofreaders .....	11.97	12.3	36.7	11.97	12.3	36.7	–	–	–
Data entry keyers .....	10.54	2.6	37.4	10.80	2.9	37.0	9.12	3.1	39.9
Statistical clerks .....	12.02	6.7	36.4	12.02	6.7	36.4	–	–	–
Teachers' aides .....	10.97	6.2	28.2	11.10	6.4	28.2	–	–	–
Administrative support, n.e.c. ....	13.36	4.1	34.7	13.40	4.1	34.8	–	–	–
<b>Blue collar .....</b>	<b>13.85</b>	<b>1.6</b>	<b>38.3</b>	<b>14.12</b>	<b>1.7</b>	<b>38.3</b>	<b>10.97</b>	<b>2.7</b>	<b>38.2</b>
<b>Precision production, craft, and repair .....</b>									
Supervisors, mechanics and repairers .....	23.68	5.1	39.7	23.68	5.1	39.7	–	–	–
Automobile mechanics .....	19.33	6.6	40.0	19.33	6.6	40.0	–	–	–
Bus, truck, and stationary engine mechanics .....	16.80	2.6	40.0	16.80	2.6	40.0	–	–	–
Automobile body and related repairers .....	13.60	1.6	40.2	13.60	1.6	40.2	–	–	–
Aircraft mechanics, except engine .....	19.46	5.8	40.0	–	–	–	–	–	–
Heavy equipment mechanics .....	17.44	12.0	40.0	17.44	12.0	40.0	–	–	–
Industrial machinery repairers .....	15.40	7.3	39.9	16.77	2.6	39.9	–	–	–
Machinery maintenance .....	17.40	4.3	40.1	17.47	4.3	40.1	–	–	–
Electronic repairers, communications and industrial equipment .....	21.99	5.2	38.8	21.99	5.2	38.8	–	–	–
Household appliance and power tool repairers .....	20.45	6.5	40.0	20.45	6.5	40.0	–	–	–
Telephone installers and repairers .....	17.78	3.5	40.0	17.38	3.3	40.0	–	–	–
Heating, air conditioning, and refrigeration mechanics .....	19.84	4.0	39.9	19.84	4.0	39.9	–	–	–
Mechanical controls and valve repairers .....	23.76	4.4	40.0	23.76	4.4	40.0	–	–	–
Millwrights .....	17.47	8.1	40.0	17.47	8.1	40.0	–	–	–
Mechanics and repairers, n.e.c. ....	17.88	2.4	39.3	18.20	2.1	39.2	–	–	–
Supervisors, electricians and power transmission installers .....	30.48	8.7	39.2	30.47	9.0	39.2	–	–	–
Supervisors, construction trades, n.e.c. ....	20.88	8.0	39.6	21.37	7.9	39.6	–	–	–
Carpenters .....	18.33	5.4	38.9	18.40	5.6	38.9	–	–	–
Electricians .....	20.48	5.3	39.5	20.48	5.3	39.5	–	–	–
Electrician apprentices .....	17.02	12.6	39.9	17.02	12.6	39.9	–	–	–
Electrical power installers and repairers .....	25.11	2.7	40.0	25.02	2.9	40.0	–	–	–
Painters, construction and maintenance .....	20.03	10.5	37.7	20.03	10.5	37.7	–	–	–
Plumbers, pipefitters and steamfitters .....	21.34	3.9	39.5	21.56	3.9	39.5	–	–	–
Construction trades, n.e.c. ....	15.87	6.1	39.3	16.47	6.1	39.2	–	–	–
Supervisors, production .....	19.68	2.6	40.2	19.68	2.6	40.2	–	–	–
Tool and die makers .....	19.26	2.2	40.0	19.26	2.2	40.0	–	–	–
Precision assemblers, metal .....	16.97	6.3	40.0	16.97	6.3	40.0	–	–	–
Machinists .....	17.01	3.9	40.0	17.01	3.9	40.0	–	–	–
Patternmakers and modelmakers, metal .....	23.31	3.3	40.0	23.31	3.3	40.0	–	–	–
Sheet metal workers .....	15.19	14.2	40.0	15.19	14.2	40.0	–	–	–
Electrical and electronic equipment assemblers .....	11.28	4.4	39.6	11.34	4.7	39.6	–	–	–
Miscellaneous precision workers, n.e.c. ....	19.10	8.0	40.0	19.10	8.0	40.0	–	–	–
Butchers and meat cutters .....	14.18	5.9	38.5	13.91	8.6	37.9	–	–	–
Bakers .....	11.01	12.7	36.5	11.01	12.7	36.5	–	–	–
Inspectors, testers, and graders .....	18.84	5.5	40.0	18.84	5.5	40.0	–	–	–
Water and sewer treatment plant operators .....	15.95	4.4	40.0	15.95	4.4	40.0	–	–	–

See footnotes at end of table.

Table 4-7. Middle Atlantic census division:<sup>1</sup> Mean hourly earnings<sup>2</sup> and weekly hours by metropolitan and nonmetropolitan areas<sup>3</sup> for selected occupations, National Compensation Survey,<sup>4</sup> 1998–Continued

Occupation <sup>5</sup>	Total			Metropolitan			Nonmetropolitan		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>6</sup> (percent)		Mean	Relative error <sup>6</sup> (percent)		Mean	Relative error <sup>6</sup> (percent)	
<b>Blue collar –Continued</b>									
<b>Precision production, craft, and repair –Continued</b>									
Stationary engineers .....	\$18.78	4.3	38.5	\$19.38	4.6	38.3	–	–	–
Miscellaneous plant and system operators, n.e.c. ....	19.84	6.7	41.3	19.84	6.7	41.3	–	–	–
<b>Machine operators, assemblers, and inspectors .....</b>	<b>11.84</b>	<b>1.7</b>	<b>39.6</b>	<b>12.11</b>	<b>1.9</b>	<b>39.6</b>	<b>\$9.42</b>	<b>5.8</b>	<b>39.9</b>
Lathe and turning machine operators .....	14.50	7.6	39.3	14.50	7.6	39.3	–	–	–
Punching and stamping press operators .....	12.13	9.5	40.0	12.13	9.5	40.0	–	–	–
Rolling machine operators .....	17.52	6.0	40.0	17.52	6.0	40.0	–	–	–
Drilling and boring machine operators .....	14.76	7.0	40.0	14.76	7.0	40.0	–	–	–
Grinding, abrading, buffing, and polishing machine operators .....	13.25	4.1	40.0	13.91	4.1	40.0	–	–	–
Numerical control machine operators .....	13.20	6.3	40.0	13.20	6.3	40.0	–	–	–
Fabricating machine operators, n.e.c. ....	14.14	5.2	40.0	14.14	5.2	40.0	–	–	–
Molding and casting machine operators .....	10.19	9.7	39.9	10.23	9.9	39.9	–	–	–
Metal plating machine operators .....	12.45	3.5	40.0	12.45	3.5	40.0	–	–	–
Heat treating equipment operators .....	16.16	6.2	39.7	16.16	6.2	39.7	–	–	–
Printing press operators .....	15.79	4.9	39.7	16.03	5.0	39.6	–	–	–
Photoengravers and lithographers .....	13.20	6.6	36.6	13.20	6.6	36.6	–	–	–
Typesetters and compositors .....	16.65	9.9	33.3	16.65	9.9	33.3	–	–	–
Winding and twisting machine operators .....	10.63	6.3	38.9	10.63	6.3	38.9	–	–	–
Knitting, looping, taping, and weaving machine operators .....	10.60	7.2	40.0	10.60	7.2	40.0	–	–	–
Textile cutting machine operators .....	7.87	7.2	40.0	7.87	7.2	40.0	–	–	–
Textile sewing machine operators .....	7.53	3.8	39.6	7.53	3.8	39.6	–	–	–
Pressing machine operators .....	8.11	17.4	36.2	8.11	17.4	36.2	–	–	–
Laundering and dry cleaning machine operators .....	9.75	4.7	35.0	9.68	4.9	35.2	–	–	–
Packaging and filling machine operators .....	10.20	9.6	40.0	10.39	10.3	40.0	–	–	–
Extruding and forming machine operators .....	11.22	7.1	40.0	11.22	7.1	40.0	–	–	–
Mixing and blending machine operators .....	14.04	4.5	40.0	14.04	4.5	40.0	–	–	–
Separating, filtering, and clarifying machine operators .....	14.25	5.0	38.7	14.25	5.0	38.7	–	–	–
Compressing and compacting machine operators ..	–	–	–	11.39	11.6	40.0	–	–	–
Painting and paint spraying machine operators .....	13.52	5.4	40.0	13.52	5.4	40.0	–	–	–
Folding machine operators .....	10.92	7.8	39.2	10.92	7.8	39.2	–	–	–
Furnace, kiln, and oven operators, except food .....	12.63	4.2	39.3	12.63	4.2	39.3	–	–	–
Crushing and grinding machine operators .....	15.22	6.1	39.1	14.13	2.5	38.9	–	–	–
Slicing and cutting machine operators .....	12.42	3.3	40.0	12.42	3.3	40.0	–	–	–
Photographic process machine operators .....	10.61	3.9	39.7	10.61	3.9	39.7	–	–	–
Miscellaneous machine operators, n.e.c. ....	13.39	2.2	39.9	13.39	2.2	39.9	–	–	–
Welders and cutters .....	16.24	4.8	40.0	16.26	4.8	40.0	–	–	–
Solders and braziers .....	10.19	5.1	40.0	10.19	5.1	40.0	–	–	–
Assemblers .....	9.97	6.2	39.5	10.64	3.0	39.5	–	–	–
Hand painting, coating, and decorating .....	12.55	18.4	40.0	12.55	18.4	40.0	–	–	–
Miscellaneous hand working, n.e.c. ....	11.31	6.0	40.0	11.31	6.0	40.0	–	–	–
Production inspectors, checkers and examiners .....	11.85	4.7	39.9	12.43	2.9	39.9	–	–	–
Production testers .....	12.55	3.1	40.0	12.55	3.1	40.0	–	–	–
<b>Transportation and material moving .....</b>	<b>14.72</b>	<b>2.2</b>	<b>36.2</b>	<b>14.68</b>	<b>2.2</b>	<b>36.5</b>	<b>16.09</b>	<b>7.4</b>	<b>28.3</b>
Supervisors, motor vehicle operators .....	18.83	3.4	40.0	18.83	3.4	40.0	–	–	–
Truck drivers .....	14.98	2.8	38.3	14.88	2.9	38.3	–	–	–
Driver-sales workers .....	17.99	4.2	40.3	17.99	4.2	40.3	–	–	–
Bus drivers .....	14.26	3.9	30.4	14.22	4.1	31.7	–	–	–
Taxicab drivers and chauffeurs .....	10.24	11.5	31.5	10.24	11.5	31.5	–	–	–
Motor transportation, n.e.c. ....	12.33	8.9	36.7	12.33	9.2	36.6	–	–	–
Locomotive operating .....	19.06	5.5	40.0	19.06	5.5	40.0	–	–	–
Supervisors, material moving equipment .....	18.91	5.1	39.2	19.20	6.0	39.6	–	–	–
Operating engineers .....	17.96	9.3	40.0	17.96	9.3	40.0	–	–	–
Crane and tower operators .....	17.20	12.7	40.0	17.20	12.7	40.0	–	–	–
Excavating and loading machine operators .....	14.26	6.7	40.4	14.33	6.8	40.4	–	–	–
Grader, dozer, and scraper operators .....	19.05	11.3	40.1	18.99	11.7	40.1	–	–	–
Industrial truck and tractor equipment operators .....	12.31	3.3	39.8	12.27	3.5	39.8	–	–	–

See footnotes at end of table.



Table 4-7. Middle Atlantic census division:<sup>1</sup> Mean hourly earnings<sup>2</sup> and weekly hours by metropolitan and nonmetropolitan areas<sup>3</sup> for selected occupations, National Compensation Survey,<sup>4</sup> 1998–Continued

Occupation <sup>5</sup>	Total			Metropolitan			Nonmetropolitan		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>6</sup> (percent)		Mean	Relative error <sup>6</sup> (percent)		Mean	Relative error <sup>6</sup> (percent)	
<b>Blue collar –Continued</b>									
<b>Transportation and material moving –Continued</b>									
Miscellaneous material moving equipment operators, n.e.c. ....	\$15.63	3.3	37.8	\$15.58	3.4	37.8	–	–	–
<b>Handlers, equipment cleaners, helpers, and laborers ...</b>									
Groundskeepers and gardeners, except farm .....	10.93	2.6	36.6	11.01	2.9	36.5	\$10.35	3.8	37.4
Supervisors, handlers, equipment cleaners, and laborers, n.e.c. ....	11.66	4.6	36.7	11.61	4.9	36.6	–	–	–
Helpers, mechanics and repairers .....	16.79	5.9	39.5	17.03	6.7	39.5	–	–	–
Helpers, construction trades .....	11.78	7.0	37.4	11.70	7.8	37.1	–	–	–
Construction laborers .....	13.46	16.5	39.5	13.46	16.5	39.5	–	–	–
Production helpers .....	12.63	4.3	39.0	12.90	4.1	39.4	–	–	–
Garbage collectors .....	10.52	4.6	38.5	10.55	4.6	38.6	–	–	–
Stock handlers and baggers .....	16.57	5.3	39.9	16.57	5.3	39.9	–	–	–
Machine feeders and offbearers .....	9.58	4.8	30.3	9.69	5.3	30.4	8.64	6.3	29.0
Freight, stock, and material handlers, n.e.c. ....	9.60	4.7	39.3	9.60	4.7	39.3	–	–	–
Vehicle washers and equipment cleaners .....	12.10	4.1	36.3	12.13	4.4	36.5	–	–	–
Hand packers and packagers .....	10.30	8.3	35.2	10.30	8.3	35.2	–	–	–
Laborers, except construction, n.e.c. ....	9.57	5.4	39.3	9.58	5.4	39.3	–	–	–
	10.41	2.9	39.0	10.51	4.0	38.6	–	–	–
<b>Service</b>									
Protective service .....	11.67	2.4	32.8	11.70	2.6	32.6	11.33	1.7	34.7
Supervisors, firefighters and fire prevention .....	17.80	3.5	37.2	17.76	3.8	37.1	18.39	1.4	39.3
Supervisors, police and detectives .....	25.37	8.1	44.6	25.37	8.1	44.6	–	–	–
Supervisors, guards .....	28.47	4.4	39.9	28.95	4.3	39.9	–	–	–
Firefighting .....	18.03	5.0	39.9	18.03	5.0	39.9	–	–	–
Police and detectives, public service .....	19.89	2.4	43.2	19.89	2.4	43.2	–	–	–
Sheriffs, bailiffs, and other law enforcement officers .....	22.79	3.6	39.6	22.79	3.7	39.6	–	–	–
Correctional institution officers .....	19.23	5.7	34.3	19.44	5.6	34.8	–	–	–
Crossing guards .....	18.88	2.7	39.9	19.03	3.6	39.8	–	–	–
Guards and police, except public service .....	9.97	7.6	20.6	9.97	7.6	20.6	–	–	–
Protective service, n.e.c. ....	9.89	6.2	35.0	9.89	6.2	35.0	–	–	–
Food service .....	12.36	12.8	26.7	11.77	13.0	26.1	–	–	–
Supervisors, food preparation and service .....	7.66	2.7	28.5	7.63	2.8	28.5	8.20	5.1	29.3
Bartenders .....	12.34	8.0	36.9	12.40	8.5	36.7	–	–	–
Waiters and waitresses .....	6.32	12.4	26.5	6.32	12.4	26.5	–	–	–
Cooks .....	4.69	6.4	25.8	4.71	6.4	25.9	–	–	–
Food counter, fountain, and related .....	9.85	3.2	35.0	9.79	3.4	35.1	–	–	–
Kitchen workers, food preparation .....	7.20	5.7	26.8	7.13	6.1	26.3	–	–	–
Waiters'/Waitresses' assistants .....	9.16	4.6	29.2	9.31	5.2	29.2	8.43	3.4	28.8
Food preparation, n.e.c. ....	5.82	7.8	26.2	5.66	9.1	24.7	–	–	–
Health service .....	7.65	3.6	27.7	7.66	3.7	28.0	–	–	–
Health aides, except nursing .....	9.73	2.3	33.9	9.75	2.4	33.9	9.51	4.7	34.8
Nursing aides, orderlies and attendants .....	11.22	2.9	34.5	11.11	3.0	34.7	12.10	10.5	33.3
Cleaning and building service .....	9.42	2.5	33.8	9.48	2.6	33.7	8.39	5.1	35.4
Supervisors, cleaning and building service workers .....	10.74	3.2	34.4	10.89	3.3	34.4	8.46	.8	34.1
Maids and housemen .....	14.27	9.1	38.8	14.27	9.1	38.8	–	–	–
Janitors and cleaners .....	10.20	5.9	35.7	10.42	6.0	36.5	–	–	–
	10.59	3.6	33.8	10.72	3.8	33.6	8.72	2.1	36.4

See footnotes at end of table.

Table 4-7. Middle Atlantic census division:<sup>1</sup> Mean hourly earnings<sup>2</sup> and weekly hours by metropolitan and nonmetropolitan areas<sup>3</sup> for selected occupations, National Compensation Survey,<sup>4</sup> 1998–Continued

Occupation <sup>5</sup>	Total			Metropolitan			Nonmetropolitan		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>6</sup> (percent)		Mean	Relative error <sup>6</sup> (percent)		Mean	Relative error <sup>6</sup> (percent)	
<b>Service –Continued</b>									
Personal service .....	\$11.02	6.5	28.4	\$11.15	7.1	27.8	\$9.79	2.0	35.8
Supervisors, personal service .....	16.74	6.3	36.1	16.61	6.5	36.1	–	–	–
Hairdressers and cosmetologists .....	10.98	19.0	32.2	10.98	19.0	32.2	–	–	–
Attendants, amusement, and recreation facilities ....	7.33	5.5	27.5	7.43	5.4	27.1	–	–	–
Ushers .....	8.33	8.6	16.7	8.33	8.6	16.7	–	–	–
Public transportation attendants .....	22.53	17.6	23.0	23.44	18.3	22.3	–	–	–
Baggage porters and bellhops .....	7.54	24.5	39.2	7.54	24.5	39.2	–	–	–
Welfare service aides .....	9.54	4.8	34.1	9.78	6.3	32.2	–	–	–
Early childhood teachers' assistants .....	9.14	7.2	27.6	9.15	7.3	27.6	–	–	–
Child care workers, n.e.c. ....	8.72	2.5	28.2	8.51	2.5	27.5	–	–	–
Service, n.e.c. ....	9.64	8.3	28.4	9.64	8.3	28.4	–	–	–

<sup>1</sup> The Middle Atlantic census division consists of New York, New Jersey, and Pennsylvania. It also includes the New York, NY Consolidated Metropolitan Statistical Area, which is comprised of parts of New York, New Jersey, Connecticut, and Pennsylvania, and the Philadelphia, PA Consolidated Metropolitan Statistical Area, which is comprised of parts of Pennsylvania, New Jersey, Delaware, and Maryland.

<sup>2</sup> 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.

<sup>3</sup> Metropolitan areas can be a Metropolitan Statistical Area (MSA) or Consolidated Metropolitan Statistical Area (CMSA) as defined by the Office of Management and Budget, 1994. Nonmetropolitan areas are counties that do not fit the definitions above. For more

information, see appendix E.

<sup>4</sup> In this census division, collection was conducted between November 1997 and April 1999. The average reference period was July 1998.

<sup>5</sup> A classification system including about 480 individual occupations is used to cover all workers in the civilian economy. For more information, see appendix B.

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

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

Table 4-8. East North Central census division:<sup>1</sup> Mean hourly earnings<sup>2</sup> and weekly hours by metropolitan and nonmetropolitan areas<sup>3</sup> for selected occupations, National Compensation Survey,<sup>4</sup> 1998

Occupation <sup>5</sup>	Total			Metropolitan			Nonmetropolitan		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>6</sup> (percent)		Mean	Relative error <sup>6</sup> (percent)		Mean	Relative error <sup>6</sup> (percent)	
All .....	\$16.08	0.8	36.2	\$16.55	0.8	36.2	\$13.55	1.3	36.5
All excluding sales .....	16.13	.8	36.5	16.60	.8	36.4	13.70	1.2	36.9
<b>White collar</b> .....	19.75	1.0	36.5	20.09	1.0	36.6	17.14	3.3	35.7
White collar excluding sales .....	20.30	.9	37.1	20.62	.8	37.1	17.93	3.0	36.8
<b>Professional specialty and technical</b> .....	23.88	1.0	35.9	23.98	.9	36.0	23.22	4.2	35.7
Professional specialty .....	25.56	1.0	35.7	25.67	.9	35.7	24.88	3.9	35.6
Engineers, architects, and surveyors .....	28.25	1.2	40.3	28.20	1.0	40.3	28.83	8.5	40.0
Architects .....	23.42	8.0	40.0	23.42	8.0	40.0	-	-	-
Metallurgical and materials engineers .....	29.95	8.3	40.5	29.95	8.3	40.5	-	-	-
Chemical engineers .....	-	-	-	31.76	7.2	40.0	-	-	-
Civil engineers .....	25.43	3.6	39.4	25.41	3.8	39.4	-	-	-
Electrical and electronic engineers .....	28.69	3.3	40.3	28.70	3.3	40.3	-	-	-
Industrial engineers .....	25.90	2.1	40.3	25.95	1.4	40.3	-	-	-
Mechanical engineers .....	25.92	2.3	40.3	25.96	2.3	40.3	-	-	-
Engineers, n.e.c. ....	29.58	1.8	40.3	29.62	1.8	40.3	-	-	-
Mathematical and computer scientists .....	27.37	2.3	39.8	27.11	2.0	39.8	-	-	-
Computer systems analysts and scientists .....	27.01	2.3	39.9	27.15	2.3	39.9	-	-	-
Operations and systems researchers and analysts .....	27.76	5.1	39.5	26.27	2.9	39.4	-	-	-
Actuaries .....	37.07	7.2	38.3	37.07	7.2	38.3	-	-	-
Natural scientists .....	23.28	5.8	39.1	24.11	6.7	38.9	-	-	-
Chemists, except biochemists .....	28.65	5.8	40.2	28.65	5.8	40.2	-	-	-
Physical scientists, n.e.c. ....	24.24	7.8	40.0	24.13	8.2	40.0	-	-	-
Biological and life scientists .....	23.61	6.6	35.6	23.61	6.6	35.6	-	-	-
Medical scientists .....	14.67	14.3	39.1	14.67	14.3	39.1	-	-	-
Health related .....	22.24	1.4	33.2	22.12	1.2	32.9	22.83	5.9	34.9
Physicians .....	43.76	10.5	39.1	38.43	6.4	37.6	-	-	-
Registered nurses .....	19.69	1.2	32.5	20.19	.8	32.3	16.95	4.6	33.5
Pharmacists .....	27.31	1.6	31.4	27.77	1.5	30.2	-	-	-
Dietitians .....	16.54	2.6	34.5	16.50	3.1	33.8	-	-	-
Respiratory therapists .....	16.66	1.7	33.5	16.66	1.7	33.5	-	-	-
Occupational therapists .....	25.30	5.5	31.6	25.14	6.4	30.8	-	-	-
Physical therapists .....	24.08	5.5	34.4	25.73	3.5	33.0	-	-	-
Speech therapists .....	25.96	7.0	32.8	25.51	8.0	35.1	-	-	-
Therapists, n.e.c. ....	16.28	5.6	36.9	16.35	6.7	38.1	-	-	-
Physicians' assistants .....	26.25	15.4	36.3	26.25	15.4	36.3	-	-	-
Teachers, college and university .....	35.35	4.1	34.6	35.64	4.0	36.5	33.21	19.7	24.8
Biological science teachers .....	33.69	8.2	38.0	33.69	8.2	38.0	-	-	-
Chemistry teachers .....	34.70	7.9	31.8	36.93	3.4	38.8	-	-	-
Psychology teachers .....	34.52	13.8	30.2	34.52	13.8	30.2	-	-	-
History teachers .....	26.47	11.3	43.6	26.47	11.3	43.6	-	-	-
Social science teachers, n.e.c. ....	30.13	3.9	40.2	30.52	4.8	39.7	-	-	-
Engineering teachers .....	51.64	19.9	38.7	51.64	19.9	38.7	-	-	-
Mathematical science teachers .....	39.39	1.8	35.9	39.39	1.8	35.9	-	-	-
Medical science teachers .....	42.94	11.9	47.2	42.94	11.9	47.2	-	-	-
Health specialties teachers .....	35.56	8.7	40.4	35.56	8.7	40.4	-	-	-
Business, commerce, and marketing teachers .....	33.69	12.2	22.8	35.46	11.1	24.7	-	-	-
Art, drama, and music teachers .....	29.44	9.1	34.0	26.51	5.2	34.7	-	-	-
Physical education teachers .....	26.59	2.0	34.5	26.59	2.0	34.5	-	-	-
Education teachers .....	35.35	8.3	37.0	35.35	8.3	37.0	-	-	-
English teachers .....	32.93	9.3	38.3	32.85	9.6	38.2	-	-	-
Foreign language teachers .....	25.17	10.5	40.4	29.65	4.4	35.1	-	-	-
Theology teachers .....	27.58	12.8	39.9	30.14	16.0	39.8	-	-	-
Teachers, post secondary, subject not specified .....	26.79	14.8	16.8	27.85	15.7	17.3	-	-	-
Teachers, post secondary, n.e.c. ....	32.54	10.3	27.1	34.14	11.6	31.0	-	-	-
Teachers, except college and university .....	28.02	1.9	33.6	28.65	1.9	33.0	25.92	3.9	35.7
Prekindergarten and kindergarten .....	17.44	9.5	34.3	16.04	8.6	33.6	-	-	-
Elementary school teachers .....	29.64	2.6	35.0	30.76	2.5	34.3	25.49	4.7	37.9
Secondary school teachers .....	30.33	3.2	35.8	31.96	3.0	35.2	25.59	4.3	37.5
Teachers, special education .....	27.64	4.2	35.4	28.97	3.8	34.8	24.96	6.6	36.7
Teachers, n.e.c. ....	27.40	3.2	30.6	26.75	4.2	29.7	29.55	6.0	34.0
Substitute teachers .....	11.33	7.9	14.9	10.73	4.1	15.6	-	-	-
Vocational and educational counselors .....	22.33	6.4	36.4	21.30	7.4	36.3	-	-	-
Librarians, archivists, and curators .....	21.18	5.2	34.7	21.35	4.7	35.5	20.66	16.2	32.3

See footnotes at end of table.

Table 4-8. East North Central census division:<sup>1</sup> Mean hourly earnings<sup>2</sup> and weekly hours by metropolitan and nonmetropolitan areas<sup>3</sup> for selected occupations, National Compensation Survey,<sup>4</sup> 1998–Continued

Occupation <sup>5</sup>	Total			Metropolitan			Nonmetropolitan		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>6</sup> (percent)		Mean	Relative error <sup>6</sup> (percent)		Mean	Relative error <sup>6</sup> (percent)	
<b>White collar –Continued</b>									
<b>Professional specialty and technical –Continued</b>									
Professional specialty –Continued									
Librarians, archivists, and curators –Continued									
Librarians .....	\$21.05	4.8	35.1	\$20.49	3.9	36.3	–	–	–
Archivists and curators .....	21.81	20.2	32.9	25.75	17.1	32.2	–	–	–
Social scientists and urban planners .....	21.47	8.2	35.8	21.51	8.5	35.6	–	–	–
Economists .....	22.55	6.9	40.0	22.55	6.9	40.0	–	–	–
Psychologists .....	23.61	10.7	35.6	23.61	10.7	35.6	–	–	–
Social scientists, n.e.c. ....	14.96	22.3	36.2	13.10	18.5	35.1	–	–	–
Urban planners .....	20.00	5.5	23.0	20.00	5.5	23.0	–	–	–
Social, recreation, and religious workers .....	15.75	3.0	37.6	15.71	3.3	37.4	\$16.00	4.4	38.9
Social workers .....	15.97	3.1	38.0	15.90	3.4	37.9	16.65	5.1	38.9
Recreation workers .....	11.56	12.6	31.5	8.99	8.6	26.2	–	–	–
Clergy .....	17.46	13.3	37.8	17.46	13.3	37.8	–	–	–
Religious workers, n.e.c. ....	11.95	31.7	37.2	11.95	31.7	37.2	–	–	–
Lawyers and judges .....	35.26	8.2	38.4	35.66	8.6	38.5	–	–	–
Lawyers .....	35.60	8.6	39.3	36.05	9.0	39.4	–	–	–
Judges .....	28.70	13.7	26.6	28.70	13.7	26.6	–	–	–
Writers, authors, entertainers, athletes, and professionals, n.e.c. ....	22.24	3.9	36.9	22.39	3.9	36.9	–	–	–
Technical writers .....	19.09	5.5	38.7	19.43	5.2	38.7	–	–	–
Designers .....	24.11	8.0	39.5	24.11	8.0	39.5	–	–	–
Actors and directors .....	22.39	19.8	39.3	22.39	19.8	39.3	–	–	–
Painters, sculptors, craft artists, and artist printmakers .....	15.09	5.5	38.8	15.09	5.5	38.8	–	–	–
Photographers .....	19.96	8.3	36.2	19.96	8.3	36.2	–	–	–
Artists, performers, and related workers, n.e.c. ....	12.71	5.3	27.0	12.71	5.3	27.0	–	–	–
Editors and reporters .....	20.47	12.3	38.4	20.47	12.3	38.4	–	–	–
Public relations specialists .....	22.23	10.2	32.6	22.23	10.2	32.6	–	–	–
Athletes .....	26.32	16.6	32.7	28.93	11.6	31.3	–	–	–
Professional, n.e.c. ....	22.81	6.0	38.5	22.81	6.0	38.5	–	–	–
Technical .....	18.17	2.0	36.7	18.62	1.9	36.7	12.73	4.3	36.1
Clinical laboratory technologists and technicians ....	14.65	5.4	35.4	14.78	6.4	34.8	–	–	–
Health record technologists and technicians .....	12.71	5.9	34.4	12.63	6.0	34.3	–	–	–
Radiological technicians .....	16.49	2.7	32.7	16.74	2.6	32.5	–	–	–
Licensed practical nurses .....	12.86	2.4	33.7	13.52	.9	32.6	11.40	4.0	36.4
Health technologists and technicians, n.e.c. ....	12.97	3.1	34.2	12.97	3.0	34.8	–	–	–
Electrical and electronic technicians .....	19.70	2.2	39.6	19.70	2.2	39.6	–	–	–
Industrial engineering technicians .....	17.12	4.1	40.6	17.12	4.1	40.6	–	–	–
Mechanical engineering technicians .....	20.34	4.4	40.2	20.22	4.6	40.2	–	–	–
Engineering technicians, n.e.c. ....	20.70	4.0	39.8	20.79	4.0	39.8	–	–	–
Drafters .....	18.10	5.1	38.6	18.10	5.1	38.6	–	–	–
Surveying and mapping technicians .....	14.51	12.3	39.0	13.05	8.8	39.0	–	–	–
Biological technicians .....	16.32	17.1	39.9	17.22	19.0	39.9	–	–	–
Chemical technicians .....	16.37	4.6	39.0	16.40	4.6	39.6	–	–	–
Science technicians, n.e.c. ....	17.43	5.4	34.6	17.99	4.7	34.1	–	–	–
Airplane pilots and navigators .....	84.84	28.9	24.5	84.84	28.9	24.5	–	–	–
Broadcast equipment operators .....	11.26	12.1	37.2	11.26	12.1	37.2	–	–	–
Computer programmers .....	22.00	2.2	39.4	22.11	2.2	39.4	–	–	–
Legal assistants .....	18.62	4.2	38.4	18.62	4.2	38.4	–	–	–
Technical and related, n.e.c. ....	20.25	2.2	39.0	20.40	2.2	39.0	–	–	–
<b>Executive, administrative, and managerial .....</b>	<b>27.76</b>	<b>1.5</b>	<b>39.9</b>	<b>28.33</b>	<b>1.6</b>	<b>40.0</b>	<b>21.44</b>	<b>5.6</b>	<b>38.7</b>
Executives, administrators, and managers .....	31.54	2.0	40.1	32.18	2.1	40.4	25.33	4.0	38.1
Legislators .....	18.16	24.0	4.9	22.93	5.5	5.5	–	–	–
Administrators and officials, public administration ...	26.87	3.9	39.2	27.06	4.2	39.2	26.06	10.0	39.0
Financial managers .....	29.87	3.4	40.2	29.99	3.5	40.3	29.23	10.5	39.6
Personnel and labor relations managers .....	34.07	4.3	42.3	34.53	4.4	42.8	–	–	–
Purchasing managers .....	29.41	7.7	40.6	29.41	7.7	40.6	–	–	–
Managers, marketing, advertising, and public relations .....	36.34	4.2	40.9	36.34	4.2	40.9	–	–	–
Administrators, education and related fields .....	32.37	3.1	39.8	33.52	3.1	39.6	27.19	4.2	40.4

See footnotes at end of table.

Table 4-8. East North Central census division:<sup>1</sup> Mean hourly earnings<sup>2</sup> and weekly hours by metropolitan and nonmetropolitan areas<sup>3</sup> for selected occupations, National Compensation Survey,<sup>4</sup> 1998—Continued

Occupation <sup>5</sup>	Total			Metropolitan			Nonmetropolitan		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>6</sup> (percent)		Mean	Relative error <sup>6</sup> (percent)		Mean	Relative error <sup>6</sup> (percent)	
<b>White collar</b> —Continued									
<b>Executive, administrative, and managerial</b> —Continued									
Executives, administrators, and managers—Continued									
Managers, medicine and health .....									
Managers, food servicing and lodging establishments .....									
Managers, properties and real estate .....									
Managers, service organizations, n.e.c. ....									
Managers and administrators, n.e.c. ....									
Management related .....									
Accountants and auditors .....									
Underwriters .....									
Other financial officers .....									
Management analysts .....									
Personnel, training, and labor relations specialists ..									
Buyers, wholesale and retail trade, except farm products .....									
Purchasing agents and buyers, n.e.c. ....									
Construction inspectors .....									
Inspectors and compliance officers, except construction .....									
Management related, n.e.c. ....									
<b>Sales</b> .....									
Supervisors, sales .....									
Insurance sales .....									
Securities and financial services sales .....									
Advertising and related sales .....									
Sales, other business services .....									
Sales engineers .....									
Sales representatives, mining, manufacturing, and wholesale .....									
Sales workers, motor vehicles and boats .....									
Sales workers, apparel .....									
Sales workers, furniture and home furnishings .....									
Sales workers, radio, tv, hi-fi, and appliances .....									
Sales workers, hardware and building supplies .....									
Sales workers, parts .....									
Sales workers, other commodities .....									
Sales counter clerks .....									
Cashiers .....									
Demonstrators, promoters, and models, sales .....									
Sales support, n.e.c. ....									
<b>Administrative support, including clerical</b> .....									
Supervisors, general office .....									
Supervisors, computer equipment operators .....									
Supervisors, financial records processing .....									
Chief communications operators .....									
Supervisors, distribution, scheduling, and adjusting clerks .....									
Computer operators .....									
Secretaries .....									
Stenographers .....									
Typists .....									
Interviewers .....									
Hotel clerks .....									
Transportation ticket and reservation agents .....									
Receptionists .....									
Information clerks, n.e.c. ....									
Correspondence clerks .....									
Order clerks .....									

See footnotes at end of table.

Table 4-8. East North Central census division:<sup>1</sup> Mean hourly earnings<sup>2</sup> and weekly hours by metropolitan and nonmetropolitan areas<sup>3</sup> for selected occupations, National Compensation Survey,<sup>4</sup> 1998–Continued

Occupation <sup>5</sup>	Total			Metropolitan			Nonmetropolitan		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>6</sup> (percent)		Mean	Relative error <sup>6</sup> (percent)		Mean	Relative error <sup>6</sup> (percent)	
<b>White collar –Continued</b>									
<b>Administrative support, including clerical –Continued</b>									
Personnel clerks, except payroll and timekeeping ...	\$13.49	4.5	38.8	\$13.49	4.5	38.8	–	–	–
Library clerks .....	10.04	4.9	28.0	10.33	3.4	25.3	\$9.39	11.3	36.7
File clerks .....	9.02	2.9	33.8	9.17	2.7	33.6	–	–	–
Records clerks, n.e.c. ....	11.44	3.6	37.4	11.67	4.0	37.1	10.36	7.0	38.5
Bookkeepers, accounting and auditing clerks .....	11.49	2.2	37.7	11.72	1.7	38.1	10.70	7.6	36.6
Payroll and timekeeping clerks .....	13.33	3.5	37.9	13.38	4.6	37.3	–	–	–
Billing clerks .....	11.12	2.4	37.8	11.20	2.4	38.2	–	–	–
Cost and rate clerks .....	12.31	7.2	39.8	12.31	7.2	39.8	–	–	–
Billing, posting, and calculating machine operators .....	9.85	8.7	36.1	9.85	8.7	36.1	–	–	–
Duplicating machine operators .....	10.64	5.0	36.8	10.64	5.0	36.8	–	–	–
Mail preparing and paper handling machine operators .....	9.21	3.8	38.9	9.21	3.8	38.9	–	–	–
Office machine operators, n.e.c. ....	8.93	4.2	35.6	9.01	4.2	35.6	–	–	–
Telephone operators .....	11.23	4.6	34.4	11.24	4.7	34.3	–	–	–
Mail clerks, except postal service .....	9.02	4.7	34.8	9.12	4.7	36.7	–	–	–
Messengers .....	9.24	7.0	38.1	9.24	7.0	38.1	–	–	–
Dispatchers .....	11.63	5.6	38.4	12.39	3.7	38.2	–	–	–
Production coordinators .....	15.28	2.7	40.2	15.52	3.4	40.2	–	–	–
Traffic, shipping and receiving clerks .....	11.47	6.8	39.3	11.93	3.6	39.0	–	–	–
Stock and inventory clerks .....	11.20	5.1	33.6	11.15	5.2	33.4	–	–	–
Meter readers .....	14.24	5.3	38.6	14.56	4.8	38.4	–	–	–
Weighers, measurers, checkers, and samplers .....	17.49	4.9	39.8	17.49	4.9	39.8	–	–	–
Expeditors .....	13.00	2.8	38.2	13.00	2.8	38.2	–	–	–
Material recording, scheduling, and distribution clerks, n.e.c. ....	14.96	7.6	39.7	13.86	6.5	39.6	–	–	–
Insurance adjusters, examiners, and investigators ..	13.99	7.0	38.8	14.10	7.1	38.9	–	–	–
Investigators and adjusters, except insurance .....	12.46	4.5	38.0	12.42	4.5	38.0	–	–	–
Eligibility clerks, social welfare .....	13.17	3.9	37.4	13.00	4.0	37.9	–	–	–
Bill and account collectors .....	11.17	2.6	38.1	11.13	2.6	38.1	–	–	–
General office clerks .....	11.00	1.6	36.7	11.16	1.6	36.6	9.67	1.7	37.0
Bank tellers .....	8.41	1.9	33.2	8.44	2.1	33.1	–	–	–
Data entry keyers .....	9.50	4.1	37.6	9.60	4.6	37.3	–	–	–
Statistical clerks .....	11.45	4.3	37.0	11.45	4.3	37.0	–	–	–
Teachers' aides .....	9.56	3.2	31.4	9.79	3.1	30.5	8.97	7.7	34.2
Administrative support, n.e.c. ....	12.68	3.3	36.4	12.89	3.4	36.1	11.03	5.4	38.4
<b>Blue collar .....</b>	<b>13.86</b>	<b>.9</b>	<b>38.3</b>	<b>14.25</b>	<b>1.0</b>	<b>38.2</b>	<b>12.35</b>	<b>1.2</b>	<b>38.9</b>
<b>Precision production, craft, and repair .....</b>									
Supervisors, mechanics and repairers .....	22.56	3.8	40.8	22.48	3.9	40.9	–	–	–
Automobile mechanics .....	17.95	7.6	40.9	18.15	7.8	40.7	–	–	–
Bus, truck, and stationary engine mechanics .....	16.55	4.1	40.1	16.29	4.1	40.1	–	–	–
Aircraft engine mechanics .....	22.40	4.4	40.0	22.40	4.4	40.0	–	–	–
Automobile body and related repairers .....	21.89	5.9	41.0	21.89	5.9	41.0	–	–	–
Aircraft mechanics, except engine .....	20.78	2.6	40.0	20.78	2.6	40.0	–	–	–
Heavy equipment mechanics .....	16.75	6.9	40.0	18.93	3.4	40.0	13.25	5.4	40.0
Industrial machinery repairers .....	17.56	2.9	40.0	18.29	1.7	40.0	–	–	–
Machinery maintenance .....	14.15	2.3	39.7	14.44	5.0	39.8	–	–	–
Electronic repairers, communications and industrial equipment .....	14.26	4.7	40.0	14.04	4.6	40.0	–	–	–
Data processing equipment repairers .....	16.30	5.5	39.3	16.30	5.5	39.3	–	–	–
Telephone line installers and repairers .....	21.42	9.5	40.0	–	–	–	–	–	–
Telephone installers and repairers .....	15.90	4.3	39.7	15.79	4.4	39.6	–	–	–
Heating, air conditioning, and refrigeration mechanics .....	15.90	5.0	39.1	16.42	4.1	39.0	–	–	–
Office machine repairers .....	14.68	9.7	40.0	14.68	9.7	40.0	–	–	–
Mechanical controls and valve repairers .....	17.46	9.3	37.6	17.87	9.3	37.4	–	–	–
Millwrights .....	19.00	7.6	40.2	21.01	3.1	40.3	–	–	–
Mechanics and repairers, n.e.c. ....	16.94	2.6	39.9	17.08	2.5	39.9	15.68	18.1	39.9
Supervisors, carpenters and related workers .....	23.03	7.3	40.0	23.03	7.3	40.0	–	–	–

See footnotes at end of table.

Table 4-8. East North Central census division:<sup>1</sup> Mean hourly earnings<sup>2</sup> and weekly hours by metropolitan and nonmetropolitan areas<sup>3</sup> for selected occupations, National Compensation Survey,<sup>4</sup> 1998–Continued

Occupation <sup>5</sup>	Total			Metropolitan			Nonmetropolitan		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>6</sup> (percent)		Mean	Relative error <sup>6</sup> (percent)		Mean	Relative error <sup>6</sup> (percent)	
<b>Blue collar –Continued</b>									
<b>Precision production, craft, and repair –Continued</b>									
Supervisors, electricians and power transmission installers .....	\$24.68	6.7	40.0	\$24.68	6.7	40.0	–	–	–
Supervisors, plumbers, pipefitters, and steamfitters .....	29.58	4.3	40.0	–	–	–	–	–	–
Supervisors, construction trades, n.e.c. ....	22.80	2.9	39.9	22.80	2.9	39.9	–	–	–
Brickmasons and stonemasons .....	17.40	4.5	40.0	17.40	4.5	40.0	–	–	–
Carpenters .....	19.90	3.8	39.9	20.42	3.2	39.9	–	–	–
Drywall installers .....	17.58	8.9	40.0	17.58	8.9	40.0	–	–	–
Electricians .....	20.57	2.9	40.1	22.10	2.7	40.1	–	–	–
Electrician apprentices .....	14.20	10.3	40.0	14.51	10.5	40.0	–	–	–
Electrical power installers and repairers .....	22.38	4.8	40.0	22.32	5.1	40.0	–	–	–
Painters, construction and maintenance .....	20.18	4.5	40.0	20.97	2.6	40.0	–	–	–
Plumbers, pipefitters and steamfitters .....	21.98	2.6	39.9	22.20	2.4	39.9	–	–	–
Plumber, pipefitter, and steamfitter apprentices .....	15.96	6.5	40.0	15.96	6.5	40.0	–	–	–
Concrete and terrazzo finishers .....	21.90	8.5	40.0	21.90	8.5	40.0	–	–	–
Paving, surfacing, and tamping equipment operators .....	19.81	11.6	40.4	19.81	11.6	40.4	–	–	–
Construction trades, n.e.c. ....	19.43	3.1	39.2	20.34	3.3	39.3	\$15.55	13.1	39.0
Supervisors, production .....	18.56	7.7	40.6	19.78	2.2	40.8	15.27	24.8	40.1
Tool and die makers .....	21.03	1.6	40.0	21.03	1.6	40.0	–	–	–
Tool and die maker apprentices .....	15.84	8.4	40.0	15.84	8.4	40.0	–	–	–
Precision assemblers, metal .....	17.97	4.2	40.0	17.97	4.2	40.0	–	–	–
Machinists .....	16.74	1.9	40.1	16.74	1.9	40.1	–	–	–
Precision grinders, filers, and tool sharpeners .....	16.14	8.3	40.0	16.14	8.3	40.0	–	–	–
Patternmakers and modelmakers, metal .....	19.41	9.7	40.0	19.41	9.7	40.0	–	–	–
Sheet metal workers .....	19.69	11.1	40.0	19.69	11.1	40.0	–	–	–
Cabinet makers and bench carpenters .....	13.62	6.2	39.3	13.62	6.2	39.3	–	–	–
Furniture and wood finishers .....	13.36	7.9	39.9	13.36	7.9	39.9	–	–	–
Patternmakers, layout workers, and cutters .....	23.98	7.3	40.0	23.98	7.3	40.0	–	–	–
Bookbinders .....	13.28	8.9	39.5	13.50	16.7	39.0	–	–	–
Electrical and electronic equipment assemblers .....	9.17	14.5	39.8	11.82	6.9	39.6	–	–	–
Miscellaneous precision workers, n.e.c. ....	16.12	4.1	40.0	16.35	4.5	40.0	–	–	–
Butchers and meat cutters .....	10.33	12.4	39.4	10.31	12.6	39.4	–	–	–
Bakers .....	8.67	8.1	33.2	8.67	8.1	33.2	–	–	–
Food batchmakers .....	13.80	4.8	40.0	13.80	4.8	40.0	–	–	–
Inspectors, testers, and graders .....	17.72	3.3	40.1	17.72	3.3	40.1	–	–	–
Precision inspectors, testers, and related workers, n.e.c. ....	17.10	10.2	40.0	17.10	10.2	40.0	–	–	–
Water and sewer treatment plant operators .....	16.13	3.9	40.0	16.15	4.1	40.0	–	–	–
Power plant operators .....	21.67	4.6	40.0	22.40	4.2	40.0	–	–	–
Stationary engineers .....	21.86	4.4	39.6	21.01	6.1	39.8	–	–	–
Miscellaneous plant and system operators, n.e.c. ....	17.67	5.8	40.0	17.50	7.3	40.0	–	–	–
<b>Machine operators, assemblers, and inspectors .....</b>	<b>12.81</b>	<b>1.5</b>	<b>39.8</b>	<b>13.19</b>	<b>1.6</b>	<b>39.7</b>	<b>11.68</b>	<b>2.4</b>	<b>39.9</b>
Lathe and turning machine set-up operators .....	14.50	2.6	40.0	14.50	2.6	40.0	–	–	–
Lathe and turning machine operators .....	12.74	9.5	40.0	15.48	3.4	40.0	–	–	–
Milling and planing machine operators .....	14.79	9.1	40.0	14.79	9.1	40.0	–	–	–
Punching and stamping press operators .....	13.55	3.4	39.7	13.73	3.7	39.7	–	–	–
Rolling machine operators .....	13.41	7.5	41.2	13.41	7.5	41.2	–	–	–
Drilling and boring machine operators .....	10.21	16.7	40.0	13.59	5.3	40.0	–	–	–
Grinding, abrading, buffing, and polishing machine operators .....	12.44	3.9	39.6	12.12	2.2	39.4	–	–	–
Forging machine operators .....	13.50	7.4	40.0	13.50	7.4	40.0	–	–	–
Numerical control machine operators .....	13.15	2.5	40.0	13.36	3.4	40.0	–	–	–
Fabricating machine operators, n.e.c. ....	15.06	3.1	40.1	15.41	2.8	40.1	–	–	–
Molding and casting machine operators .....	10.74	3.2	39.9	10.51	3.3	39.9	–	–	–
Metal plating machine operators .....	11.86	7.2	41.3	11.86	7.2	41.3	–	–	–
Heat treating equipment operators .....	–	–	–	13.52	11.2	40.0	–	–	–
Wood lathe, routing, and planing machine operators .....	12.99	16.7	38.7	12.99	16.7	38.7	–	–	–
Sawing machine operators .....	10.56	4.5	38.4	10.56	4.5	38.4	–	–	–
Shaping and jointing machine operators .....	11.34	7.9	40.0	11.34	7.9	40.0	–	–	–

See footnotes at end of table.

Table 4-8. East North Central census division:<sup>1</sup> Mean hourly earnings<sup>2</sup> and weekly hours by metropolitan and nonmetropolitan areas<sup>3</sup> for selected occupations, National Compensation Survey,<sup>4</sup> 1998—Continued

Occupation <sup>5</sup>	Total			Metropolitan			Nonmetropolitan		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>6</sup> (percent)		Mean	Relative error <sup>6</sup> (percent)		Mean	Relative error <sup>6</sup> (percent)	
<b>Blue collar—Continued</b>									
<b>Machine operators, assemblers, and inspectors—Continued</b>									
Printing press operators .....	\$13.82	6.3	39.6	\$15.72	4.3	39.2	—	—	—
Photoengravers and lithographers .....	16.68	5.0	38.6	16.73	5.8	38.4	—	—	—
Typesetters and compositors .....	13.08	5.6	39.9	—	—	—	—	—	—
Textile cutting machine operators .....	10.96	11.1	40.0	10.96	11.1	40.0	—	—	—
Textile sewing machine operators .....	10.92	13.6	39.5	10.92	13.6	39.5	—	—	—
Laundry and dry cleaning machine operators .....	7.21	3.8	37.9	7.17	4.5	38.9	—	—	—
Packaging and filling machine operators .....	12.79	3.7	39.6	12.36	2.0	39.6	—	—	—
Extruding and forming machine operators .....	11.49	3.0	40.0	12.86	6.6	39.9	—	—	—
Mixing and blending machine operators .....	14.66	4.5	39.9	14.96	5.9	39.9	—	—	—
Separating, filtering, and clarifying machine operators .....	16.49	4.0	40.1	16.49	4.0	40.1	—	—	—
Compressing and compacting machine operators ..	10.47	3.5	40.0	10.47	3.5	40.0	—	—	—
Painting and paint spraying machine operators .....	12.31	4.9	40.4	12.00	5.8	40.6	—	—	—
Roasting and baking machine operators, food .....	14.08	6.9	37.6	14.08	6.9	37.6	—	—	—
Washing, cleaning, and pickling machine operators .....	12.74	13.8	40.0	12.74	13.8	40.0	—	—	—
Furnace, kiln, and oven operators, except food .....	16.87	6.8	39.9	16.87	6.8	39.9	—	—	—
Crushing and grinding machine operators .....	12.68	10.8	40.0	12.68	10.8	40.0	—	—	—
Slicing and cutting machine operators .....	13.58	4.7	40.0	12.58	4.6	40.0	—	—	—
Photographic process machine operators .....	11.19	6.1	38.4	11.53	4.7	38.6	—	—	—
Miscellaneous machine operators, n.e.c. ....	11.97	5.3	39.8	12.87	3.0	39.7	\$10.72	9.8	40.0
Welders and cutters .....	14.86	3.4	39.9	14.97	4.4	39.9	—	—	—
Solders and braziers .....	11.48	11.7	39.8	11.48	11.7	39.8	—	—	—
Assemblers .....	13.31	3.7	39.6	13.37	3.9	39.6	—	—	—
Hand cutting and trimming .....	7.68	7.9	40.0	7.68	7.9	40.0	—	—	—
Hand molding, casting, and forming .....	13.34	11.8	40.0	11.55	9.6	40.0	—	—	—
Hand painting, coating, and decorating .....	10.41	8.7	40.0	10.41	8.7	40.0	—	—	—
Hand engraving and printing .....	9.37	3.6	40.0	9.37	3.6	40.0	—	—	—
Miscellaneous hand working, n.e.c. ....	11.27	5.2	39.6	11.88	4.0	39.5	—	—	—
Production inspectors, checkers and examiners .....	11.45	6.0	40.0	12.25	2.7	40.0	—	—	—
Production testers .....	13.44	6.8	38.5	13.44	6.8	38.5	—	—	—
Graders and sorters, except agricultural .....	9.12	2.4	40.0	9.12	2.4	40.0	—	—	—
<b>Transportation and material moving .....</b>	<b>14.42</b>	<b>1.4</b>	<b>36.5</b>	<b>14.56</b>	<b>1.6</b>	<b>36.4</b>	<b>13.69</b>	<b>1.8</b>	<b>37.2</b>
Supervisors, motor vehicle operators .....	17.24	7.5	40.9	17.24	7.5	40.9	—	—	—
Truck drivers .....	15.51	2.2	40.2	15.76	2.3	39.8	13.67	6.1	44.0
Driver-sales workers .....	14.64	11.1	34.5	14.87	11.1	35.1	—	—	—
Bus drivers .....	12.66	3.0	26.9	12.82	3.3	28.1	11.68	4.0	21.1
Taxicab drivers and chauffeurs .....	8.70	14.3	28.0	8.70	14.3	28.0	—	—	—
Parking lot attendants .....	7.46	5.2	22.1	7.46	5.2	22.1	—	—	—
Motor transportation, n.e.c. ....	8.10	10.1	25.1	8.10	10.1	25.1	—	—	—
Railroad conductors and yardmasters .....	18.89	2.5	40.0	18.89	2.5	40.0	—	—	—
Locomotive operating .....	15.50	7.8	43.1	15.50	7.8	43.1	—	—	—
Supervisors, material moving equipment .....	17.46	6.1	40.1	17.46	6.1	40.1	—	—	—
Operating engineers .....	20.84	4.8	40.0	20.27	5.4	40.0	—	—	—
Crane and tower operators .....	14.45	5.0	40.3	14.62	5.0	40.4	—	—	—
Excavating and loading machine operators .....	16.56	5.9	40.0	16.63	6.0	40.0	—	—	—
Grader, dozer, and scraper operators .....	16.75	20.0	40.5	—	—	—	—	—	—
Industrial truck and tractor equipment operators .....	13.07	2.1	39.8	13.05	2.6	39.7	13.15	3.1	40.0
Miscellaneous material moving equipment operators, n.e.c. ....	14.56	4.1	36.8	14.83	5.1	35.7	—	—	—
<b>Handlers, equipment cleaners, helpers, and laborers ..</b>	<b>10.65</b>	<b>1.4</b>	<b>34.6</b>	<b>10.51</b>	<b>1.5</b>	<b>34.4</b>	<b>11.31</b>	<b>3.4</b>	<b>35.5</b>
Supervisors, agriculture-related workers .....	17.13	6.0	40.0	17.13	6.0	40.0	—	—	—
Groundskeepers and gardeners, except farm .....	11.26	4.9	34.5	11.19	4.5	35.2	—	—	—
Animal caretakers, except farm .....	13.48	5.1	38.2	13.48	5.1	38.2	—	—	—
Supervisors, handlers, equipment cleaners, and laborers, n.e.c. ....	14.84	5.8	39.5	15.10	3.5	39.2	—	—	—
Helpers, mechanics and repairers .....	14.17	5.2	39.6	14.17	9.8	39.2	—	—	—
Helpers, construction trades .....	15.72	11.8	40.0	15.44	12.9	40.0	—	—	—
Construction laborers .....	16.13	2.8	39.4	16.28	2.8	39.4	—	—	—

See footnotes at end of table.



Table 4-8. East North Central census division:<sup>1</sup> Mean hourly earnings<sup>2</sup> and weekly hours by metropolitan and nonmetropolitan areas<sup>3</sup> for selected occupations, National Compensation Survey,<sup>4</sup> 1998–Continued

Occupation <sup>5</sup>	Total			Metropolitan			Nonmetropolitan		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>6</sup> (percent)		Mean	Relative error <sup>6</sup> (percent)		Mean	Relative error <sup>6</sup> (percent)	
<b>Blue collar –Continued</b>									
<b>Handlers, equipment cleaners, helpers, and laborers –Continued</b>									
Production helpers .....	\$10.27	4.7	38.6	\$9.74	6.2	38.4	\$11.24	8.9	38.9
Stock handlers and baggers .....	9.21	1.8	29.4	9.31	1.7	29.4	8.77	5.3	29.2
Machine feeders and offbearers .....	9.65	4.1	39.7	9.70	4.2	39.7	–	–	–
Freight, stock, and material handlers, n.e.c. ....	12.09	3.2	32.4	12.26	3.4	32.4	–	–	–
Garage and service station related .....	8.49	6.3	34.1	8.49	6.3	34.1	–	–	–
Vehicle washers and equipment cleaners .....	10.02	6.4	37.2	10.02	6.4	37.2	–	–	–
Hand packers and packagers .....	9.01	4.0	38.8	8.99	4.2	38.7	–	–	–
Laborers, except construction, n.e.c. ....	10.65	3.6	36.5	10.21	4.9	35.6	11.72	3.3	38.9
<b>Service</b>									
Protective service .....	9.66	1.3	31.1	9.78	1.3	30.9	9.06	4.8	31.7
Supervisors, firefighters and fire prevention .....	15.24	2.7	36.7	15.29	3.0	36.5	14.90	4.4	38.1
Supervisors, police and detectives .....	17.86	5.0	50.0	18.37	4.6	49.6	–	–	–
Supervisors, guards .....	24.61	7.7	40.1	26.12	5.3	40.1	–	–	–
Supervisors, police and detectives .....	13.83	15.7	37.6	12.09	12.8	37.6	–	–	–
Fire inspection and fire prevention .....	20.72	6.2	36.7	–	–	–	–	–	–
Firefighting .....	16.88	4.6	44.5	16.98	4.6	44.2	–	–	–
Police and detectives, public service .....	19.93	2.1	38.7	20.36	1.9	38.8	16.11	5.9	37.8
Sheriffs, bailiffs, and other law enforcement officers .....	15.10	4.2	39.7	16.26	3.4	39.8	13.66	5.4	39.6
Correctional institution officers .....	14.50	4.3	38.5	14.30	3.1	39.9	14.92	9.7	35.8
Crossing guards .....	7.19	9.6	13.5	7.25	11.0	14.3	–	–	–
Guards and police, except public service .....	8.89	4.3	32.0	8.77	4.3	31.7	12.07	17.5	39.5
Protective service, n.e.c. ....	10.56	12.8	27.5	10.56	12.8	27.5	–	–	–
Food service .....	6.81	2.7	27.5	6.80	3.1	27.4	6.92	2.3	28.2
Supervisors, food preparation and service .....	11.20	3.2	37.2	11.49	3.1	37.8	9.30	3.4	33.6
Bartenders .....	6.66	7.2	26.3	6.62	8.0	27.3	–	–	–
Waiters and waitresses .....	3.50	5.4	25.2	3.50	5.6	25.0	3.48	17.3	29.3
Cooks .....	8.66	2.7	32.1	8.68	3.1	31.6	8.58	4.4	34.9
Food counter, fountain, and related .....	5.94	4.4	22.5	5.83	6.3	22.5	6.13	5.8	22.4
Kitchen workers, food preparation .....	7.28	3.2	28.8	7.38	3.4	27.9	6.67	2.1	35.6
Waiters/Waitresses' assistants .....	4.86	4.4	20.8	4.85	4.4	20.9	–	–	–
Food preparation, n.e.c. ....	6.98	2.7	27.3	7.02	2.8	27.2	6.32	4.2	27.7
Health service .....	8.81	1.8	33.4	8.82	1.1	34.0	8.79	5.8	32.1
Health aides, except nursing .....	9.70	2.9	33.5	9.88	1.8	35.2	9.34	8.0	30.6
Nursing aides, orderlies and attendants .....	8.47	1.9	33.4	8.46	1.3	33.5	8.51	6.1	32.8
Cleaning and building service .....	9.70	1.8	33.8	9.95	1.6	34.2	8.43	4.3	32.0
Supervisors, cleaning and building service workers .....	12.91	5.4	39.6	13.08	6.1	39.6	–	–	–
Maids and housemen .....	6.90	2.2	31.3	7.05	2.0	33.3	6.50	4.6	27.0
Janitors and cleaners .....	9.93	1.7	33.9	10.13	1.8	34.0	8.80	3.2	33.5
Personal service .....	9.22	3.6	26.9	9.49	4.0	26.1	7.94	4.8	31.8
Supervisors, personal service .....	15.20	21.4	39.0	15.20	21.4	39.0	–	–	–
Attendants, amusement, and recreation facilities ....	6.43	2.3	23.2	6.48	2.3	22.6	–	–	–
Guides .....	8.37	7.3	29.3	8.37	7.3	29.3	–	–	–
Ushers .....	6.21	4.5	17.5	6.21	4.5	17.5	–	–	–
Public transportation attendants .....	32.03	6.7	18.5	32.03	6.7	18.5	–	–	–
Baggage porters and bellhops .....	9.90	18.3	34.7	9.90	18.3	34.7	–	–	–
Welfare service aides .....	7.36	4.8	29.1	7.58	5.1	29.5	6.20	5.6	27.3
Early childhood teachers' assistants .....	7.61	2.8	27.4	7.55	3.4	26.5	7.86	1.9	32.4
Child care workers, n.e.c. ....	8.81	4.6	24.7	9.09	4.2	24.0	7.83	12.3	27.6
Service, n.e.c. ....	9.03	5.3	28.6	9.05	5.8	26.4	8.97	11.9	37.3

<sup>1</sup> The East North Central census division consists of Ohio, Indiana, Illinois, Michigan, and Wisconsin. It also includes the Cincinnati, OH Consolidated Metropolitan Statistical Area, which is comprised of parts of Ohio, Kentucky, and Indiana.

<sup>2</sup> 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.

<sup>3</sup> Metropolitan areas can be a Metropolitan Statistical Area (MSA) or Consolidated Metropolitan Statistical Area (CMSA) as defined by the Office of Management and Budget, 1994. Nonmetropolitan areas are counties that do not fit the definitions above. For more information, see appendix E.

<sup>4</sup> In this census division, collection was conducted between January 1998 and April 1999. The average reference period was September 1998.

<sup>5</sup> A classification system including about 480 individual occupations is used to cover all workers in the civilian economy. For more information, see appendix B.

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

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

Table 4-9. West North Central census division:<sup>1</sup> Mean hourly earnings<sup>2</sup> and weekly hours by metropolitan and nonmetropolitan areas<sup>3</sup> for selected occupations, National Compensation Survey,<sup>4</sup> 1998

Occupation <sup>5</sup>	Total			Metropolitan			Nonmetropolitan		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>6</sup> (percent)		Mean	Relative error <sup>6</sup> (percent)		Mean	Relative error <sup>6</sup> (percent)	
All .....	\$14.85	1.6	36.5	\$15.83	2.4	36.5	\$12.10	2.3	36.4
All excluding sales .....	15.01	1.5	36.8	16.03	2.4	36.9	12.20	2.4	36.5
<b>White collar</b> .....	17.63	2.4	36.9	18.57	2.1	37.0	14.03	6.8	36.7
White collar excluding sales .....	18.31	2.1	37.6	19.28	2.0	37.8	14.57	6.8	36.9
<b>Professional specialty and technical</b> .....	21.76	1.3	36.9	22.31	1.7	36.8	19.43	1.9	37.2
Professional specialty .....	23.47	1.2	37.1	23.78	1.4	37.1	22.02	2.8	37.2
Engineers, architects, and surveyors .....	27.32	3.3	40.6	27.14	2.6	40.8	-	-	-
Civil engineers .....	28.34	5.1	39.2	28.34	5.1	39.2	-	-	-
Electrical and electronic engineers .....	26.75	2.5	40.9	26.75	2.5	40.9	-	-	-
Industrial engineers .....	27.36	14.9	40.4	22.76	2.9	40.8	-	-	-
Mechanical engineers .....	25.45	2.7	40.4	25.16	4.3	40.7	-	-	-
Engineers, n.e.c. ....	26.75	3.8	41.7	27.05	3.8	41.8	-	-	-
Mathematical and computer scientists .....	24.27	2.8	40.1	24.28	2.8	40.1	-	-	-
Computer systems analysts and scientists .....	24.84	3.1	40.1	24.87	3.1	40.1	-	-	-
Operations and systems researchers and analysts .....	21.91	4.8	39.8	21.91	4.8	39.8	-	-	-
Natural scientists .....	20.72	3.3	40.1	20.70	3.4	40.1	-	-	-
Chemists, except biochemists .....	21.78	11.2	40.6	21.78	11.2	40.6	-	-	-
Physical scientists, n.e.c. ....	25.46	8.7	39.7	25.44	9.2	39.7	-	-	-
Agricultural and food scientists .....	28.65	19.9	37.7	28.65	19.9	37.7	-	-	-
Biological and life scientists .....	18.35	8.9	40.0	18.35	8.9	40.0	-	-	-
Health related .....	21.04	2.4	35.1	21.37	2.2	34.7	19.85	9.1	36.4
Physicians .....	36.24	11.1	41.3	31.67	11.2	41.4	-	-	-
Registered nurses .....	18.32	1.4	33.7	19.33	1.6	33.1	15.40	4.0	35.8
Pharmacists .....	26.19	1.3	38.7	26.19	1.3	38.7	-	-	-
Dietitians .....	15.28	4.3	32.3	15.28	4.3	32.3	-	-	-
Respiratory therapists .....	16.13	4.9	39.0	16.13	4.9	39.0	-	-	-
Occupational therapists .....	22.07	5.2	36.2	22.07	7.2	35.0	-	-	-
Physical therapists .....	20.50	7.3	36.3	22.23	5.6	32.3	-	-	-
Speech therapists .....	25.92	3.7	32.7	25.92	3.7	32.7	-	-	-
Therapists, n.e.c. ....	14.22	3.7	39.4	14.22	3.7	39.4	-	-	-
Physicians' assistants .....	25.11	8.5	40.0	-	-	-	-	-	-
Teachers, college and university .....	31.72	2.9	35.8	32.69	4.0	35.3	28.82	1.5	37.6
Social science teachers, n.e.c. ....	32.95	7.8	38.8	36.36	2.7	38.1	-	-	-
Mathematical science teachers .....	20.78	26.8	39.9	-	-	-	-	-	-
Medical science teachers .....	32.26	16.0	39.7	32.26	16.0	39.7	-	-	-
Health specialties teachers .....	22.86	3.5	38.2	21.85	3.6	39.2	-	-	-
Business, commerce, and marketing teachers .....	35.60	9.2	34.1	38.85	11.7	29.8	-	-	-
Art, drama, and music teachers .....	30.78	12.4	34.1	30.78	12.4	34.1	-	-	-
Education teachers .....	23.77	4.1	26.0	-	-	-	-	-	-
English teachers .....	26.21	7.6	29.9	24.28	8.0	29.9	-	-	-
Theology teachers .....	33.34	2.6	39.8	34.35	1.0	39.7	-	-	-
Trade and industrial teachers .....	28.67	1.7	33.2	32.05	10.7	16.3	-	-	-
Teachers, post secondary, subject not specified .....	26.44	12.2	35.9	22.30	9.1	35.2	-	-	-
Teachers, post secondary, n.e.c. ....	28.18	5.7	23.7	27.14	7.5	21.6	-	-	-
Teachers, except college and university .....	24.22	1.6	34.9	24.91	2.2	34.5	22.47	2.0	36.0
Prekindergarten and kindergarten .....	19.67	13.2	35.9	19.74	13.7	36.0	-	-	-
Elementary school teachers .....	25.73	2.1	36.6	26.89	2.4	36.3	22.97	2.3	37.5
Secondary school teachers .....	24.98	1.8	36.5	26.67	2.5	35.8	22.35	1.6	37.5
Teachers, special education .....	23.50	3.2	37.5	23.80	4.3	37.5	22.85	3.8	37.3
Teachers, n.e.c. ....	22.94	6.9	32.6	22.89	7.9	33.3	-	-	-
Substitute teachers .....	9.18	3.1	9.6	9.14	3.3	10.4	-	-	-
Vocational and educational counselors .....	17.86	8.2	36.7	18.66	10.0	36.0	-	-	-
Librarians, archivists, and curators .....	23.98	4.5	37.3	24.53	4.5	37.0	-	-	-
Librarians .....	23.99	4.5	37.3	24.56	4.5	36.9	-	-	-
Social scientists and urban planners .....	22.06	6.0	39.7	22.20	6.5	39.6	-	-	-
Economists .....	24.03	10.4	39.8	24.03	10.4	39.8	-	-	-
Psychologists .....	22.31	5.6	39.5	22.75	6.4	39.4	-	-	-
Social, recreation, and religious workers .....	15.05	3.2	37.8	14.91	3.9	37.2	15.65	1.9	40.0
Social workers .....	15.06	3.3	37.9	14.91	4.0	37.3	15.65	1.9	40.0
Recreation workers .....	12.25	10.5	37.3	12.25	10.5	37.3	-	-	-
Lawyers and judges .....	31.14	8.0	41.9	32.25	8.9	42.3	-	-	-
Lawyers .....	30.72	8.7	42.0	32.25	8.9	42.3	-	-	-

See footnotes at end of table.

Table 4-9. West North Central census division:<sup>1</sup> Mean hourly earnings<sup>2</sup> and weekly hours by metropolitan and nonmetropolitan areas<sup>3</sup> for selected occupations, National Compensation Survey,<sup>4</sup> 1998—Continued

Occupation <sup>5</sup>	Total			Metropolitan			Nonmetropolitan		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>6</sup> (percent)		Mean	Relative error <sup>6</sup> (percent)		Mean	Relative error <sup>6</sup> (percent)	
<b>White collar</b> —Continued									
<b>Professional specialty and technical</b> —Continued									
Professional specialty—Continued									
Writers, authors, entertainers, athletes, and professionals, n.e.c. ....	\$19.65	4.6	38.3	\$20.72	4.9	38.1	—	—	—
Designers .....	18.35	6.2	40.0	18.35	6.2	40.0	—	—	—
Painters, sculptors, craft artists, and artist printmakers .....	16.22	7.9	39.9	17.37	7.5	39.9	—	—	—
Photographers .....	17.11	10.5	40.0	17.11	10.5	40.0	—	—	—
Editors and reporters .....	18.57	4.7	39.1	18.57	4.7	39.1	—	—	—
Public relations specialists .....	13.97	14.1	39.2	17.91	10.6	38.3	—	—	—
Athletes .....	26.89	43.8	28.5	—	—	—	—	—	—
Professional, n.e.c. ....	25.00	6.7	40.0	25.07	6.7	40.0	—	—	—
Technical .....	16.16	4.4	36.3	17.15	5.2	36.0	\$12.86	1.9	37.1
Clinical laboratory technologists and technicians ....	13.81	2.1	38.1	13.91	1.9	37.9	—	—	—
Health record technologists and technicians .....	10.01	3.9	33.9	—	—	—	—	—	—
Radiological technicians .....	16.47	6.9	32.2	17.38	7.8	30.4	—	—	—
Licensed practical nurses .....	11.63	1.4	34.6	12.26	2.2	34.4	10.74	2.2	34.8
Health technologists and technicians, n.e.c. ....	11.66	2.6	35.5	12.15	2.8	35.0	—	—	—
Electrical and electronic technicians .....	18.00	5.6	40.0	16.89	3.7	40.0	—	—	—
Mechanical engineering technicians .....	19.19	12.0	40.3	19.19	12.0	40.3	—	—	—
Engineering technicians, n.e.c. ....	17.16	3.5	39.4	17.41	3.9	39.2	—	—	—
Drafters .....	14.84	5.0	38.9	16.00	3.6	38.2	—	—	—
Chemical technicians .....	15.57	4.9	37.8	15.83	5.3	40.0	—	—	—
Science technicians, n.e.c. ....	13.33	5.5	39.0	13.33	5.5	39.0	—	—	—
Airplane pilots and navigators .....	79.49	26.1	19.5	79.49	26.1	19.5	—	—	—
Computer programmers .....	20.55	4.3	40.0	20.55	4.3	40.0	—	—	—
Legal assistants .....	17.64	6.0	38.4	17.64	6.0	38.4	—	—	—
Technical and related, n.e.c. ....	15.70	6.8	35.7	16.37	6.2	35.1	—	—	—
<b>Executive, administrative, and managerial</b> .....									
Executives, administrators, and managers .....	25.71	2.5	41.0	26.65	3.0	41.1	20.72	8.4	40.3
Legislators .....	29.70	3.3	41.2	31.05	4.0	41.4	23.33	7.8	40.4
Administrators and officials, public administration ...	10.11	18.5	18.4	—	—	—	—	—	—
Financial managers .....	23.81	4.7	40.8	25.06	3.0	40.8	20.67	12.1	40.9
Personnel and labor relations managers .....	30.26	10.0	40.8	35.45	4.2	41.1	—	—	—
Purchasing managers .....	30.31	10.2	41.6	30.31	10.2	41.6	—	—	—
Managers, marketing, advertising, and public relations .....	24.10	14.2	42.5	31.18	5.5	44.7	—	—	—
Administrators, education and related fields .....	33.08	5.7	40.9	33.94	5.6	41.0	—	—	—
Managers, medicine and health .....	27.91	3.7	40.1	28.00	4.0	40.1	27.39	9.2	40.2
Managers, food servicing and lodging establishments .....	26.61	6.3	40.5	28.41	6.6	40.7	—	—	—
Managers, properties and real estate .....	18.27	10.5	42.4	19.26	10.6	41.6	—	—	—
Managers, service organizations, n.e.c. ....	18.63	18.1	39.6	18.63	18.1	39.6	—	—	—
Managers and administrators, n.e.c. ....	23.55	4.9	40.6	24.02	5.3	40.7	—	—	—
Management related .....	30.93	5.2	42.5	30.62	5.0	42.5	32.92	17.6	42.3
Accountants and auditors .....	19.03	2.9	40.5	19.65	2.2	40.6	14.97	9.0	40.0
Underwriters .....	19.63	4.8	39.8	19.86	5.0	39.8	—	—	—
Other financial officers .....	17.48	10.6	39.7	18.87	8.5	39.6	—	—	—
Management analysts .....	22.13	6.3	42.0	22.12	6.4	42.1	—	—	—
Personnel, training, and labor relations specialists ..	22.57	8.8	40.7	23.41	8.1	40.8	—	—	—
Buyers, wholesale and retail trade, except farm products .....	16.41	8.1	40.3	18.16	3.5	40.5	—	—	—
Purchasing agents and buyers, n.e.c. ....	22.51	6.2	42.5	21.54	7.1	43.2	—	—	—
Construction inspectors .....	20.80	7.7	40.4	21.61	7.0	40.4	—	—	—
Inspectors and compliance officers, except construction .....	17.51	10.2	39.8	17.51	10.2	39.8	—	—	—
Management related, n.e.c. ....	17.90	5.1	40.7	17.90	5.1	40.7	—	—	—
Management related, n.e.c. ....	18.15	4.7	40.4	18.36	5.0	40.5	—	—	—
<b>Sales</b> .....									
Supervisors, sales .....	12.46	4.7	32.3	13.09	5.3	31.4	10.20	3.7	35.7
Insurance sales .....	15.94	6.6	40.2	16.35	7.5	39.3	14.92	14.9	42.6
Insurance sales .....	15.27	14.5	29.8	14.58	15.9	28.7	—	—	—

See footnotes at end of table.

Table 4-9. West North Central census division:<sup>1</sup> Mean hourly earnings<sup>2</sup> and weekly hours by metropolitan and nonmetropolitan areas<sup>3</sup> for selected occupations, National Compensation Survey,<sup>4</sup> 1998–Continued

Occupation <sup>5</sup>	Total			Metropolitan			Nonmetropolitan		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>6</sup> (percent)		Mean	Relative error <sup>6</sup> (percent)		Mean	Relative error <sup>6</sup> (percent)	
<b>White collar –Continued</b>									
<b>Sales –Continued</b>									
Securities and financial services sales .....	\$41.34	27.5	42.6	\$42.31	27.2	42.7	–	–	–
Advertising and related sales .....	23.22	13.1	38.9	23.22	13.1	38.9	–	–	–
Sales, other business services .....	15.84	18.1	35.5	19.67	10.1	37.3	–	–	–
Sales engineers .....	20.80	9.8	40.8	20.80	9.8	40.8	–	–	–
Sales representatives, mining, manufacturing, and wholesale .....	23.63	9.5	40.4	24.36	9.7	40.5	–	–	–
Sales workers, motor vehicles and boats .....	17.61	18.0	45.9	20.10	12.9	45.0	–	–	–
Sales workers, apparel .....	7.60	6.9	25.3	7.60	6.9	25.3	–	–	–
Sales workers, hardware and building supplies .....	14.24	22.1	34.1	14.24	22.1	34.1	–	–	–
Sales workers, parts .....	11.85	3.2	42.9	11.80	7.5	40.4	–	–	–
Sales workers, other commodities .....	8.85	4.5	30.7	9.13	3.1	28.5	–	–	–
Sales counter clerks .....	7.73	3.3	27.0	7.75	3.5	26.8	–	–	–
Cashiers .....	7.01	2.0	27.3	7.07	2.3	27.3	\$6.81	4.4	27.3
Demonstrators, promoters, and models, sales .....	7.68	4.9	19.6	7.88	4.7	20.2	–	–	–
Sales support, n.e.c. ....	11.79	8.8	38.6	12.20	14.1	35.6	–	–	–
<b>Administrative support, including clerical</b>									
Supervisors, general office .....	10.85	3.0	37.1	11.67	2.3	37.6	8.28	5.9	35.7
Supervisors, financial records processing .....	15.07	3.6	40.3	15.42	3.6	40.4	–	–	–
Supervisors, distribution, scheduling, and adjusting clerks .....	15.51	4.4	41.1	15.61	4.4	41.1	–	–	–
Computer operators .....	14.66	10.9	39.8	14.66	10.9	39.8	–	–	–
Peripheral equipment operators .....	12.70	3.9	39.5	12.33	3.2	39.4	–	–	–
Secretaries .....	9.85	5.2	39.8	10.21	4.6	39.8	–	–	–
Stenographers .....	12.58	1.9	38.5	13.09	2.4	38.7	9.77	1.5	37.8
Typists .....	11.19	5.1	35.9	12.02	2.7	38.6	–	–	–
Interviewers .....	10.76	3.8	39.6	11.06	4.4	39.5	–	–	–
Hotel clerks .....	8.09	3.9	32.7	8.91	6.8	28.9	–	–	–
Transportation ticket and reservation agents .....	7.43	2.3	36.9	7.43	2.3	36.9	–	–	–
Receptionists .....	–	–	–	12.37	8.4	32.5	–	–	–
Information clerks, n.e.c. ....	8.46	4.7	33.6	9.33	2.6	33.0	7.25	4.7	34.6
Correspondence clerks .....	9.94	6.8	36.0	10.75	2.8	34.2	–	–	–
Order clerks .....	15.35	7.6	40.0	15.35	7.6	40.0	–	–	–
Personnel clerks, except payroll and timekeeping .....	11.39	9.6	37.8	11.95	9.8	37.5	–	–	–
Library clerks .....	11.75	3.6	39.2	11.75	3.6	39.2	–	–	–
File clerks .....	9.23	4.1	27.0	9.24	3.0	28.0	–	–	–
Records clerks, n.e.c. ....	8.75	4.7	36.5	8.75	4.7	36.5	–	–	–
Bookkeepers, accounting and auditing clerks .....	9.24	3.2	38.1	10.85	3.6	37.4	7.32	4.1	39.1
Payroll and timekeeping clerks .....	10.76	2.3	37.5	11.00	2.6	38.6	9.93	5.0	34.1
Billing clerks .....	12.69	7.6	39.8	11.66	5.2	39.8	–	–	–
Office machine operators, n.e.c. ....	11.03	5.5	38.5	11.47	5.4	38.3	–	–	–
Telephone operators .....	7.79	4.6	33.6	7.79	4.6	33.6	–	–	–
Mail clerks, except postal service .....	10.89	9.5	33.5	10.89	9.5	33.5	–	–	–
Messengers .....	7.43	9.3	37.0	8.25	4.5	38.6	–	–	–
Dispatchers .....	8.18	5.2	33.0	8.57	4.4	32.5	–	–	–
Production coordinators .....	14.17	18.0	39.2	15.82	20.1	38.9	–	–	–
Traffic, shipping and receiving clerks .....	14.57	3.4	38.0	14.48	4.9	40.1	–	–	–
Stock and inventory clerks .....	10.21	4.0	38.8	10.36	4.3	38.7	–	–	–
Weighers, measurers, checkers, and samplers .....	10.41	4.2	36.4	11.43	4.6	35.2	8.56	4.7	38.8
Expeditors .....	15.36	22.0	23.9	16.11	20.2	34.1	–	–	–
Material recording, scheduling, and distribution clerks, n.e.c. ....	14.73	12.1	34.9	14.73	12.1	34.9	–	–	–
Insurance adjusters, examiners, and investigators .....	10.34	7.4	36.4	10.34	7.4	36.4	–	–	–
Investigators and adjusters, except insurance .....	13.88	4.6	39.1	13.86	4.7	39.0	–	–	–
Eligibility clerks, social welfare .....	10.61	4.8	38.2	10.70	5.2	38.1	–	–	–
Bill and account collectors .....	11.40	9.3	38.3	10.81	12.5	37.4	12.45	9.5	40.0
General office clerks .....	11.32	4.4	39.1	11.29	4.6	39.1	–	–	–
Bank tellers .....	10.98	2.2	36.6	11.66	2.2	37.9	8.34	2.4	32.2
Proofreaders .....	8.51	3.6	34.3	8.71	3.8	36.0	–	–	–
Data entry keyers .....	9.10	7.4	29.9	9.10	7.4	29.9	–	–	–
Statistical clerks .....	9.37	3.1	38.3	9.39	3.1	38.3	–	–	–
	10.04	8.3	36.6	10.04	8.3	36.6	–	–	–

See footnotes at end of table.

Table 4-9. West North Central census division:<sup>1</sup> Mean hourly earnings<sup>2</sup> and weekly hours by metropolitan and nonmetropolitan areas<sup>3</sup> for selected occupations, National Compensation Survey,<sup>4</sup> 1998–Continued

Occupation <sup>5</sup>	Total			Metropolitan			Nonmetropolitan		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>6</sup> (percent)		Mean	Relative error <sup>6</sup> (percent)		Mean	Relative error <sup>6</sup> (percent)	
<b>White collar –Continued</b>									
<b>Administrative support, including clerical –Continued</b>									
Teachers' aides .....	\$8.59	3.8	30.9	\$9.29	4.5	33.6	\$7.13	3.3	26.5
Administrative support, n.e.c. ....	10.40	7.2	36.4	11.51	2.5	37.1	7.57	16.5	34.7
<b>Blue collar .....</b>	<b>12.81</b>	<b>1.6</b>	<b>38.8</b>	<b>13.53</b>	<b>2.2</b>	<b>39.0</b>	<b>11.47</b>	<b>3.3</b>	<b>38.4</b>
<b>Precision production, craft, and repair .....</b>									
Supervisors, mechanics and repairers .....	18.47	5.6	43.5	20.21	3.9	41.3	–	–	–
Automobile mechanics .....	14.89	13.5	40.3	18.15	10.7	40.5	–	–	–
Bus, truck, and stationary engine mechanics .....	12.86	3.2	41.3	13.15	3.4	40.0	–	–	–
Automobile body and related repairers .....	13.65	8.9	42.9	15.89	6.2	41.3	–	–	–
Aircraft mechanics, except engine .....	18.01	5.1	40.0	18.01	5.1	40.0	–	–	–
Heavy equipment mechanics .....	17.78	7.9	40.1	16.31	4.0	40.1	–	–	–
Industrial machinery repairers .....	14.53	3.4	39.6	15.71	2.5	40.0	–	–	–
Machinery maintenance .....	15.19	4.5	39.6	15.19	4.5	39.6	–	–	–
Electronic repairers, communications and industrial equipment .....	16.41	5.3	40.2	17.11	4.3	40.3	–	–	–
Data processing equipment repairers .....	13.11	8.2	35.5	13.11	8.2	35.5	–	–	–
Heating, air conditioning, and refrigeration mechanics .....	13.67	8.6	39.8	13.67	8.6	39.8	–	–	–
Millwrights .....	19.67	6.4	40.0	19.76	6.5	40.0	–	–	–
Mechanics and repairers, n.e.c. ....	15.52	2.5	39.9	16.12	3.8	39.8	14.77	2.2	40.0
Supervisors, construction trades, n.e.c. ....	18.28	3.5	40.9	18.63	3.5	41.0	–	–	–
Carpenters .....	19.59	5.2	39.8	20.10	4.7	39.8	–	–	–
Electricians .....	17.68	2.3	40.0	17.62	2.9	40.0	–	–	–
Painters, construction and maintenance .....	16.58	17.6	40.0	16.58	17.6	40.0	–	–	–
Plumbers, pipefitters and steamfitters .....	22.35	4.4	40.0	22.50	4.5	40.0	–	–	–
Structural metal workers .....	17.36	8.0	40.0	–	–	–	–	–	–
Construction trades, n.e.c. ....	14.22	2.1	40.4	14.60	2.2	40.5	–	–	–
Supervisors, production .....	17.36	7.5	41.0	19.07	3.5	40.5	14.36	13.4	41.9
Tool and die makers .....	20.50	3.2	40.0	20.50	3.2	40.0	–	–	–
Precision assemblers, metal .....	15.30	11.6	40.0	15.30	11.6	40.0	–	–	–
Machinists .....	18.02	4.0	39.9	18.02	4.0	39.9	–	–	–
Sheet metal workers .....	17.63	7.0	39.9	17.63	7.0	39.9	–	–	–
Electrical and electronic equipment assemblers .....	9.04	7.0	39.6	9.04	7.0	39.6	–	–	–
Miscellaneous precision workers, n.e.c. ....	12.78	7.1	40.0	12.93	9.9	40.0	–	–	–
Butchers and meat cutters .....	–	–	–	10.11	6.2	36.1	–	–	–
Bakers .....	8.89	3.6	37.7	8.89	3.6	37.7	–	–	–
Inspectors, testers, and graders .....	14.99	6.4	40.8	14.59	7.3	40.5	–	–	–
Water and sewer treatment plant operators .....	17.15	2.7	40.0	17.15	2.7	40.0	–	–	–
Power plant operators .....	19.89	4.8	40.0	19.89	4.8	40.0	–	–	–
Stationary engineers .....	16.67	3.8	40.0	16.67	3.8	40.0	–	–	–
<b>Machine operators, assemblers, and inspectors .....</b>									
Punching and stamping press operators .....	11.08	4.0	39.3	11.23	4.5	39.2	–	–	–
Drilling and boring machine operators .....	11.78	12.5	40.0	11.78	12.5	40.0	–	–	–
Grinding, abrading, buffing, and polishing machine operators .....	11.85	9.2	40.0	14.50	9.5	40.0	–	–	–
Forging machine operators .....	12.01	5.6	40.0	–	–	–	–	–	–
Numerical control machine operators .....	13.17	8.2	40.0	13.17	8.2	40.0	–	–	–
Fabricating machine operators, n.e.c. ....	11.19	3.1	40.0	13.14	3.3	40.0	10.77	4.5	40.0
Molding and casting machine operators .....	11.15	5.3	39.6	10.81	6.4	39.4	–	–	–
Metal plating machine operators .....	13.47	6.6	40.0	13.47	6.6	40.0	–	–	–
Printing press operators .....	16.52	6.2	39.3	16.52	6.2	39.3	–	–	–
Photoengravers and lithographers .....	17.90	7.0	38.2	17.90	7.0	38.2	–	–	–
Laundering and dry cleaning machine operators .....	6.32	2.9	24.0	6.46	3.3	31.8	–	–	–
Packaging and filling machine operators .....	11.46	4.9	39.4	12.35	5.0	39.1	–	–	–
Extruding and forming machine operators .....	10.87	12.4	39.3	12.56	8.5	38.8	–	–	–
Mixing and blending machine operators .....	13.10	3.7	40.0	13.78	3.3	40.0	–	–	–
Painting and paint spraying machine operators .....	14.72	5.5	40.0	14.80	6.6	40.0	–	–	–
Slicing and cutting machine operators .....	12.66	8.7	39.6	14.57	4.6	39.9	–	–	–
Photographic process machine operators .....	9.69	12.1	37.4	9.69	12.1	37.4	–	–	–

See footnotes at end of table.

Table 4-9. West North Central census division:<sup>1</sup> Mean hourly earnings<sup>2</sup> and weekly hours by metropolitan and nonmetropolitan areas<sup>3</sup> for selected occupations, National Compensation Survey,<sup>4</sup> 1998—Continued

Occupation <sup>5</sup>	Total			Metropolitan			Nonmetropolitan		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>6</sup> (percent)		Mean	Relative error <sup>6</sup> (percent)		Mean	Relative error <sup>6</sup> (percent)	
<b>Blue collar—Continued</b>									
<b>Machine operators, assemblers, and inspectors—Continued</b>									
Miscellaneous machine operators, n.e.c. ....	\$12.21	5.0	39.7	\$11.56	2.7	39.5	\$12.60	7.8	39.9
Welders and cutters .....	12.39	5.3	40.0	13.05	3.1	40.0	—	—	—
Solders and braziers .....	—	—	—	10.91	7.3	40.0	—	—	—
Assemblers .....	12.74	5.4	39.0	13.44	4.3	39.7	—	—	—
Miscellaneous hand working, n.e.c. ....	11.16	7.0	40.0	10.68	9.1	40.0	—	—	—
Production inspectors, checkers and examiners .....	12.60	6.4	38.9	12.96	6.1	38.8	—	—	—
Production testers .....	13.76	7.2	40.0	14.36	10.2	40.0	—	—	—
<b>Transportation and material moving .....</b>	<b>14.23</b>	<b>3.1</b>	<b>41.2</b>	<b>14.23</b>	<b>2.7</b>	<b>42.4</b>	<b>14.22</b>	<b>9.1</b>	<b>38.1</b>
Supervisors, motor vehicle operators .....	16.63	10.4	40.7	19.32	7.3	41.3	—	—	—
Truck drivers .....	14.47	3.6	47.5	14.24	3.3	48.2	17.57	13.5	39.4
Driver-sales workers .....	12.43	13.5	32.1	12.19	17.4	27.3	—	—	—
Bus drivers .....	12.51	3.5	26.7	12.60	4.1	28.6	12.09	7.2	20.4
Taxicab drivers and chauffeurs .....	8.45	8.1	32.8	8.47	8.1	35.6	—	—	—
Motor transportation, n.e.c. ....	6.11	6.7	36.1	6.84	5.7	32.3	—	—	—
Supervisors, material moving equipment .....	19.52	4.2	40.2	19.52	4.2	40.2	—	—	—
Operating engineers .....	15.34	6.1	40.0	15.27	9.0	40.0	—	—	—
Excavating and loading machine operators .....	18.19	7.9	40.0	19.43	5.6	40.0	—	—	—
Grader, dozer, and scraper operators .....	12.44	9.4	40.0	—	—	—	11.31	6.2	40.0
Industrial truck and tractor equipment operators .....	12.49	2.3	39.7	12.79	3.7	39.6	12.08	3.3	39.8
Miscellaneous material moving equipment operators, n.e.c. ....	13.78	7.8	39.9	15.72	5.5	39.9	—	—	—
<b>Handlers, equipment cleaners, helpers, and laborers ..</b>	<b>9.92</b>	<b>1.8</b>	<b>35.3</b>	<b>10.36</b>	<b>2.3</b>	<b>35.2</b>	<b>9.16</b>	<b>3.4</b>	<b>35.6</b>
Groundskeepers and gardeners, except farm .....	11.00	6.2	37.3	10.96	6.6	37.5	—	—	—
Supervisors, handlers, equipment cleaners, and laborers, n.e.c. ....	12.74	8.2	40.4	14.27	5.1	40.8	—	—	—
Construction laborers .....	13.43	6.7	39.6	14.29	6.7	39.5	—	—	—
Production helpers .....	9.69	5.1	38.1	9.69	5.1	38.1	—	—	—
Stock handlers and baggers .....	9.25	6.6	28.9	9.31	4.3	29.9	9.10	20.4	26.8
Machine feeders and offbearers .....	9.10	10.0	38.2	10.52	5.6	37.2	—	—	—
Freight, stock, and material handlers, n.e.c. ....	11.13	5.4	35.0	11.55	5.8	35.6	—	—	—
Garage and service station related .....	9.27	13.8	32.9	9.27	13.8	32.9	—	—	—
Vehicle washers and equipment cleaners .....	8.41	9.2	39.3	9.57	7.0	38.7	—	—	—
Hand packers and packagers .....	8.57	7.3	38.1	9.50	4.7	37.2	—	—	—
Laborers, except construction, n.e.c. ....	9.92	4.2	37.6	10.08	4.4	37.2	9.80	6.7	37.9
<b>Service .....</b>	<b>9.23</b>	<b>1.6</b>	<b>31.1</b>	<b>9.46</b>	<b>2.1</b>	<b>31.0</b>	<b>8.61</b>	<b>4.1</b>	<b>31.3</b>
Protective service .....	14.75	2.9	39.1	15.03	3.6	38.9	13.84	6.7	39.6
Supervisors, firefighters and fire prevention .....	15.70	5.0	48.3	16.20	4.8	47.6	—	—	—
Supervisors, police and detectives .....	22.67	2.5	40.0	22.80	3.6	40.0	—	—	—
Supervisors, guards .....	19.40	17.1	40.0	22.25	13.6	40.0	—	—	—
Firefighting .....	13.04	3.6	46.8	13.11	4.1	46.1	—	—	—
Police and detectives, public service .....	17.31	3.1	39.8	17.37	3.6	39.8	17.01	4.7	40.0
Sheriffs, bailiffs, and other law enforcement officers .....	15.70	3.5	37.7	16.45	6.6	35.0	15.13	3.0	40.0
Correctional institution officers .....	13.11	6.4	38.9	13.19	7.3	38.7	—	—	—
Guards and police, except public service .....	9.18	6.5	34.7	10.15	4.6	34.5	—	—	—
Protective service, n.e.c. ....	7.81	10.5	26.5	7.84	10.6	26.5	—	—	—
<b>Food service .....</b>	<b>7.01</b>	<b>2.1</b>	<b>26.4</b>	<b>7.00</b>	<b>2.4</b>	<b>27.3</b>	<b>7.05</b>	<b>3.0</b>	<b>23.0</b>
Supervisors, food preparation and service .....	11.17	6.7	35.5	11.60	6.3	35.5	9.01	15.3	35.6
Bartenders .....	7.05	3.6	28.9	6.97	4.4	26.9	—	—	—
Waiters and waitresses .....	3.62	5.5	22.9	3.52	5.1	23.7	—	—	—
Cooks .....	8.61	2.4	33.4	8.68	2.7	32.7	8.28	3.3	37.4
Food counter, fountain, and related .....	6.46	4.2	23.5	6.46	4.2	23.5	—	—	—
Kitchen workers, food preparation .....	7.38	3.3	26.8	7.53	3.3	27.8	—	—	—
Waiters/Waitresses' assistants .....	5.94	7.0	26.2	5.84	8.1	26.6	—	—	—
Food preparation, n.e.c. ....	6.75	2.4	23.7	6.83	3.0	25.8	6.55	4.3	19.5
<b>Health service .....</b>	<b>8.22</b>	<b>1.6</b>	<b>31.4</b>	<b>8.80</b>	<b>1.6</b>	<b>31.0</b>	<b>7.54</b>	<b>3.9</b>	<b>31.9</b>
Health aides, except nursing .....	8.82	5.2	30.8	9.17	4.3	33.1	—	—	—

See footnotes at end of table.

Table 4-9. West North Central census division:<sup>1</sup> Mean hourly earnings<sup>2</sup> and weekly hours by metropolitan and nonmetropolitan areas<sup>3</sup> for selected occupations, National Compensation Survey,<sup>4</sup> 1998–Continued

Occupation <sup>5</sup>	Total			Metropolitan			Nonmetropolitan		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>6</sup> (percent)		Mean	Relative error <sup>6</sup> (percent)		Mean	Relative error <sup>6</sup> (percent)	
<b>Service –Continued</b>									
Health service –Continued									
Nursing aides, orderlies and attendants .....	\$8.13	1.8	31.6	\$8.72	1.5	30.8	\$7.55	4.1	32.5
Cleaning and building service .....	9.61	2.1	35.0	9.79	2.6	34.5	8.70	4.7	37.4
Supervisors, cleaning and building service workers	15.10	7.3	39.3	16.46	3.6	39.1	–	–	–
Maids and housemen .....	7.12	2.1	34.4	7.26	1.6	34.4	–	–	–
Janitors and cleaners .....	9.13	2.2	34.4	9.21	2.6	33.9	8.73	3.1	37.3
Personal service .....	9.12	3.6	29.6	9.40	5.6	27.8	8.69	1.5	32.6
Supervisors, personal service .....	13.61	4.9	38.5	11.91	14.9	34.8	–	–	–
Attendants, amusement, and recreation facilities .....	7.35	6.9	34.3	8.17	9.9	33.1	–	–	–
Public transportation attendants .....	21.60	11.8	19.3	21.60	11.8	19.3	–	–	–
Welfare service aides .....	8.96	7.2	26.6	8.91	8.6	25.2	–	–	–
Early childhood teachers' assistants .....	7.71	5.6	27.5	8.30	6.2	26.7	–	–	–
Child care workers, n.e.c. ....	7.74	2.8	25.4	7.84	2.6	27.6	–	–	–
Service, n.e.c. ....	8.35	4.0	29.8	7.92	5.9	28.5	8.88	3.6	31.6

<sup>1</sup> The West North Central census division consists of Minnesota, Iowa, Missouri, North Dakota, South Dakota, Nebraska, and Kansas. It also includes the St. Louis, MO Consolidated Metropolitan Statistical Area, which is comprised of parts of Missouri and Illinois, and the Minneapolis-St. Paul, MN Metropolitan Statistical Area, which is comprised of parts of Minnesota and Wisconsin.

<sup>2</sup> 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.

<sup>3</sup> Metropolitan areas can be a Metropolitan Statistical Area (MSA) or Consolidated Metropolitan Statistical Area (CMSA) as defined by the Office of Management and Budget, 1994. Nonmetropolitan areas are counties that do not fit the definitions above. For more

information, see appendix E.

<sup>4</sup> In this census division, collection was conducted between April 1998 and April 1999. The average reference period was September 1998.

<sup>5</sup> A classification system including about 480 individual occupations is used to cover all workers in the civilian economy. For more information, see appendix B.

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

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

Table 4-10. South Atlantic census division:<sup>1</sup> Mean hourly earnings<sup>2</sup> and weekly hours by metropolitan and nonmetropolitan areas<sup>3</sup> for selected occupations, National Compensation Survey,<sup>4</sup> 1998

Occupation <sup>5</sup>	Total			Metropolitan			Nonmetropolitan		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>6</sup> (percent)		Mean	Relative error <sup>6</sup> (percent)		Mean	Relative error <sup>6</sup> (percent)	
All .....	\$14.40	1.0	37.1	\$14.89	0.7	37.0	\$12.00	4.4	37.7
All excluding sales .....	14.54	1.0	37.5	15.04	.7	37.3	12.16	4.5	38.0
<b>White collar</b> .....	17.94	.8	37.5	18.32	.8	37.5	15.32	4.0	37.4
White collar excluding sales .....	18.76	.8	38.2	19.14	.8	38.2	16.16	3.7	38.2
<b>Professional specialty and technical</b> .....	22.44	1.0	37.6	23.04	1.0	37.5	18.74	3.2	37.8
Professional specialty .....	23.91	.9	37.6	24.31	1.0	37.5	21.15	2.7	37.9
Engineers, architects, and surveyors .....	28.15	1.1	40.2	28.21	1.1	40.2	-	-	-
Architects .....	23.74	4.4	39.3	23.74	4.4	39.3	-	-	-
Aerospace engineers .....	27.33	1.8	40.0	27.33	1.8	40.0	-	-	-
Chemical engineers .....	28.70	3.8	40.2	28.70	3.8	40.2	-	-	-
Civil engineers .....	25.50	3.2	40.7	25.33	3.2	40.7	-	-	-
Electrical and electronic engineers .....	29.61	2.1	40.2	29.64	2.1	40.2	-	-	-
Industrial engineers .....	23.79	1.3	40.4	23.92	1.4	40.4	-	-	-
Mechanical engineers .....	26.89	2.3	40.5	26.89	2.3	40.5	-	-	-
Engineers, n.e.c. ....	31.31	1.7	40.0	31.33	1.8	40.0	-	-	-
Surveyors and mapping scientists .....	18.41	2.0	42.6	18.41	2.0	42.6	-	-	-
Mathematical and computer scientists .....	25.95	1.9	40.2	26.13	1.9	40.2	-	-	-
Computer systems analysts and scientists .....	26.28	2.0	40.4	26.46	1.9	40.4	-	-	-
Operations and systems researchers and analysts .....	23.00	3.8	38.9	23.14	3.9	38.9	-	-	-
Statisticians .....	25.98	10.4	40.0	26.86	8.2	40.0	-	-	-
Natural scientists .....	22.48	3.1	39.7	23.00	2.6	39.7	-	-	-
Chemists, except biochemists .....	24.76	4.1	40.0	24.76	4.1	40.0	-	-	-
Geologists and geodesists .....	25.59	3.9	44.2	25.59	3.9	44.2	-	-	-
Physical scientists, n.e.c. ....	23.51	12.7	39.9	24.23	12.9	39.9	-	-	-
Agricultural and food scientists .....	21.42	6.7	39.3	21.92	8.2	39.2	-	-	-
Biological and life scientists .....	19.04	6.1	40.1	18.73	6.5	40.1	-	-	-
Medical scientists .....	21.56	7.4	38.3	22.95	3.5	37.8	-	-	-
Health related .....	22.01	3.8	35.5	22.54	4.3	35.1	18.81	3.8	37.7
Physicians .....	50.44	23.4	42.2	52.10	23.4	42.4	-	-	-
Registered nurses .....	19.67	1.4	34.6	19.95	1.6	34.1	18.15	.9	37.9
Pharmacists .....	28.11	2.1	37.4	28.40	1.9	37.3	-	-	-
Dietitians .....	16.77	2.4	39.5	16.77	2.4	39.5	-	-	-
Respiratory therapists .....	16.56	2.7	34.8	16.85	2.9	34.9	-	-	-
Occupational therapists .....	21.25	7.3	38.2	20.66	8.4	39.1	-	-	-
Physical therapists .....	26.48	3.7	35.5	26.48	3.7	35.5	-	-	-
Speech therapists .....	26.43	6.0	35.3	26.43	6.0	35.3	-	-	-
Therapists, n.e.c. ....	15.19	3.8	38.3	15.10	4.4	38.0	-	-	-
Physicians' assistants .....	26.12	7.1	40.4	26.12	7.1	40.4	-	-	-
Teachers, college and university .....	29.43	1.5	38.9	29.70	1.8	37.4	28.32	1.4	46.6
Biological science teachers .....	32.33	14.5	43.6	36.70	18.3	38.6	-	-	-
Chemistry teachers .....	28.70	3.7	53.6	24.99	6.1	50.2	-	-	-
Psychology teachers .....	31.04	11.1	40.8	31.04	11.1	40.8	-	-	-
Economics teachers .....	36.42	7.6	50.1	31.56	8.9	34.2	-	-	-
History teachers .....	27.87	9.9	39.0	27.87	9.9	39.0	-	-	-
Social science teachers, n.e.c. ....	21.11	11.2	34.1	21.11	11.2	34.1	-	-	-
Engineering teachers .....	30.73	2.8	47.8	27.09	18.5	33.0	-	-	-
Mathematical science teachers .....	26.77	8.6	34.0	25.50	10.6	31.9	-	-	-
Computer science teachers .....	26.78	14.0	20.4	26.78	14.0	20.4	-	-	-
Medical science teachers .....	47.34	7.4	35.7	47.34	7.4	35.7	-	-	-
Health specialties teachers .....	42.33	19.7	35.7	42.33	19.7	35.7	-	-	-
Business, commerce, and marketing teachers .....	33.11	10.3	41.6	33.11	10.3	41.6	-	-	-
Art, drama, and music teachers .....	22.16	4.4	33.3	22.16	4.4	33.3	-	-	-
Education teachers .....	26.62	16.7	44.2	26.62	16.7	44.2	-	-	-
English teachers .....	23.21	7.8	29.6	23.21	7.8	29.6	-	-	-
Foreign language teachers .....	17.32	15.2	40.4	29.96	9.5	22.0	-	-	-
Law teachers .....	56.28	11.5	44.1	56.28	11.5	44.1	-	-	-
Teachers, post secondary, subject not specified .....	33.07	9.7	38.0	33.07	9.7	38.0	-	-	-
Teachers, post secondary, n.e.c. ....	27.67	2.0	37.7	27.78	2.0	38.5	25.55	4.3	26.2
Teachers, except college and university .....	23.12	1.0	36.2	23.37	1.3	36.2	22.23	1.7	36.2
Prekindergarten and kindergarten .....	22.71	3.4	36.9	22.48	4.0	36.9	-	-	-
Elementary school teachers .....	23.41	1.4	37.4	23.46	1.5	37.3	23.19	2.9	37.7
Secondary school teachers .....	24.46	1.3	37.6	24.70	1.2	37.6	23.51	3.1	37.6
Teachers, special education .....	24.17	2.4	37.7	24.49	2.4	37.7	-	-	-

See footnotes at end of table.



Table 4-10. South Atlantic census division:<sup>1</sup> Mean hourly earnings<sup>2</sup> and weekly hours by metropolitan and nonmetropolitan areas<sup>3</sup> for selected occupations, National Compensation Survey,<sup>4</sup> 1998–Continued

Occupation <sup>5</sup>	Total			Metropolitan			Nonmetropolitan		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>6</sup> (percent)		Mean	Relative error <sup>6</sup> (percent)		Mean	Relative error <sup>6</sup> (percent)	
<b>White collar –Continued</b>									
<b>Professional specialty and technical –Continued</b>									
Professional specialty –Continued									
Teachers, except college and university –Continued									
Teachers, n.e.c. ....	\$21.81	3.8	33.4	\$22.91	3.8	31.3	\$19.77	1.8	38.0
Substitute teachers .....	7.53	3.6	19.8	7.89	1.3	23.4	–	–	–
Vocational and educational counselors .....	23.23	5.3	37.5	23.03	5.3	37.4	–	–	–
Librarians, archivists, and curators .....	18.55	3.0	36.6	18.53	2.5	37.6	–	–	–
Librarians .....	18.56	3.0	36.7	18.54	2.5	37.7	–	–	–
Social scientists and urban planners .....	21.47	2.3	38.8	21.85	2.1	38.8	–	–	–
Economists .....	24.64	5.1	40.0	24.64	5.1	40.0	–	–	–
Psychologists .....	21.46	4.7	37.1	22.27	4.2	36.6	–	–	–
Social scientists, n.e.c. ....	24.86	7.8	38.7	24.86	7.8	38.7	–	–	–
Urban planners .....	20.11	4.1	40.0	21.29	2.7	40.0	–	–	–
Social, recreation, and religious workers .....	14.45	2.1	38.7	14.42	1.7	38.5	14.60	9.0	40.0
Social workers .....	14.53	2.2	39.3	14.52	1.9	39.2	14.60	9.0	40.0
Recreation workers .....	13.24	4.4	33.0	13.24	4.4	33.0	–	–	–
Lawyers and judges .....	37.03	3.9	41.7	37.22	3.8	42.1	–	–	–
Lawyers .....	36.87	4.4	42.2	36.87	4.4	42.2	–	–	–
Writers, authors, entertainers, athletes, and professionals, n.e.c. ....	20.44	5.0	37.2	20.73	5.1	37.0	–	–	–
Technical writers .....	16.78	2.6	39.6	16.78	2.6	39.6	–	–	–
Designers .....	17.56	2.8	39.9	17.56	2.8	39.9	–	–	–
Actors and directors .....	13.86	21.3	30.9	13.86	21.3	30.9	–	–	–
Painters, sculptors, craft artists, and artist printmakers .....	17.20	11.5	39.9	17.20	11.5	39.9	–	–	–
Photographers .....	15.60	9.1	39.1	17.19	4.8	38.8	–	–	–
Artists, performers, and related workers, n.e.c. ....	14.43	24.9	30.0	14.43	24.9	30.0	–	–	–
Editors and reporters .....	24.66	11.6	38.4	24.66	11.6	38.4	–	–	–
Public relations specialists .....	21.27	7.5	39.6	22.04	8.3	39.5	–	–	–
Announcers .....	29.71	48.0	24.2	29.71	48.0	24.2	–	–	–
Athletes .....	14.12	9.8	27.1	14.12	9.8	27.1	–	–	–
Professional, n.e.c. ....	24.90	6.4	39.4	24.90	6.4	39.4	–	–	–
Technical .....	17.25	2.9	37.5	18.25	3.1	37.5	12.75	3.0	37.5
Clinical laboratory technologists and technicians ....	15.47	1.9	38.4	15.40	1.9	38.3	15.82	5.3	38.5
Health record technologists and technicians .....	11.00	12.1	40.0	12.75	6.4	40.0	–	–	–
Radiological technicians .....	16.51	2.4	35.3	16.76	2.4	35.9	–	–	–
Licensed practical nurses .....	12.42	1.3	36.6	12.93	.8	35.5	11.37	2.8	39.1
Health technologists and technicians, n.e.c. ....	11.93	2.4	36.5	12.35	2.3	36.7	10.86	4.7	35.9
Electrical and electronic technicians .....	18.51	2.7	40.0	18.54	2.1	40.0	–	–	–
Industrial engineering technicians .....	18.25	1.2	41.7	18.25	1.2	41.7	–	–	–
Mechanical engineering technicians .....	16.08	8.9	39.7	16.08	8.9	39.7	–	–	–
Engineering technicians, n.e.c. ....	16.69	5.3	39.7	17.19	4.0	39.7	–	–	–
Drafters .....	17.25	2.4	39.6	17.25	2.4	39.6	–	–	–
Surveying and mapping technicians .....	13.41	4.3	40.1	13.24	4.8	40.2	–	–	–
Biological technicians .....	14.18	9.8	35.8	13.21	12.2	34.4	–	–	–
Chemical technicians .....	16.73	4.6	39.9	18.85	5.0	39.8	–	–	–
Science technicians, n.e.c. ....	17.56	6.8	40.5	17.56	6.8	40.5	–	–	–
Airplane pilots and navigators .....	95.06	14.4	22.2	95.06	14.4	22.2	–	–	–
Broadcast equipment operators .....	15.66	21.5	34.9	15.66	21.5	34.9	–	–	–
Computer programmers .....	22.79	3.8	39.8	22.79	3.8	39.8	–	–	–
Legal assistants .....	17.08	5.7	39.7	17.08	5.7	39.7	–	–	–
Technical and related, n.e.c. ....	16.27	5.4	38.2	16.41	6.2	39.6	15.52	9.1	32.5
<b>Executive, administrative, and managerial</b>									
Executives, administrators, and managers .....	29.67	1.4	40.7	29.95	1.5	41.0	27.24	3.3	38.0
Legislators .....	10.12	43.2	14.9	7.34	3.1	15.5	–	–	–
Chief executives and general administrators, public administration .....	39.51	9.5	40.2	39.51	9.5	40.2	–	–	–
Administrators and officials, public administration ...	24.95	2.6	39.7	25.33	2.7	39.7	21.04	8.8	40.0
Financial managers .....	31.24	5.0	41.0	31.64	5.0	41.0	–	–	–
Personnel and labor relations managers .....	29.15	6.9	42.3	30.24	6.1	42.5	–	–	–
Purchasing managers .....	30.24	9.4	40.5	33.65	6.9	40.7	–	–	–

See footnotes at end of table.

Table 4-10. South Atlantic census division:<sup>1</sup> Mean hourly earnings<sup>2</sup> and weekly hours by metropolitan and nonmetropolitan areas<sup>3</sup> for selected occupations, National Compensation Survey,<sup>4</sup> 1998–Continued

Occupation <sup>5</sup>	Total			Metropolitan			Nonmetropolitan		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>6</sup> (percent)		Mean	Relative error <sup>6</sup> (percent)		Mean	Relative error <sup>6</sup> (percent)	
<b>White collar –Continued</b>									
<b>Executive, administrative, and managerial –Continued</b>									
Executives, administrators, and managers –Continued									
Managers, marketing, advertising, and public relations .....									
	\$31.94	4.3	41.0	\$32.41	4.2	41.3	–	–	–
Administrators, education and related fields .....	30.21	3.0	39.4	29.77	3.4	39.9	\$31.61	6.1	38.1
Managers, medicine and health .....	29.35	2.9	40.4	29.14	2.7	40.6	–	–	–
Managers, food servicing and lodging establishments .....									
	18.21	3.9	41.2	17.59	3.9	41.1	–	–	–
Managers, properties and real estate .....	25.45	18.9	41.1	25.45	18.9	41.1	–	–	–
Managers, service organizations, n.e.c. ....	27.95	4.6	40.5	28.13	4.8	40.7	–	–	–
Managers and administrators, n.e.c. ....	31.92	2.2	41.5	32.22	2.3	41.8	27.42	12.5	37.9
Management related .....	19.86	1.4	40.1	19.96	1.6	40.1	18.61	6.9	39.8
Accountants and auditors .....	19.56	2.0	39.9	19.71	3.4	39.9	–	–	–
Underwriters .....	20.37	5.2	41.3	20.37	5.2	41.3	–	–	–
Other financial officers .....	21.26	5.1	40.7	20.65	4.3	40.9	24.51	9.6	40.0
Management analysts .....	20.08	2.8	40.6	20.08	2.8	40.6	–	–	–
Personnel, training, and labor relations specialists ..	19.20	2.7	40.0	19.15	2.7	40.0	–	–	–
Buyers, wholesale and retail trade, except farm products .....									
	29.86	20.3	39.4	29.86	20.3	39.4	–	–	–
Purchasing agents and buyers, n.e.c. ....	17.83	4.8	40.1	17.83	5.2	40.1	–	–	–
Construction inspectors .....	16.55	3.6	41.1	16.94	3.2	41.2	–	–	–
Inspectors and compliance officers, except construction .....									
	16.40	8.0	40.2	17.01	9.4	40.2	13.01	5.1	40.0
Management related, n.e.c. ....	21.15	2.9	39.7	21.45	3.0	39.7	18.84	10.0	39.5
<b>Sales</b>									
	12.38	3.4	32.9	12.85	3.6	32.9	8.44	2.4	32.5
Supervisors, sales .....	17.96	5.3	41.3	18.81	5.6	41.4	12.79	7.4	40.8
Insurance sales .....	22.30	21.4	40.8	22.30	21.4	40.8	–	–	–
Real estate sales .....	23.53	15.6	37.3	23.53	15.6	37.3	–	–	–
Securities and financial services sales .....	45.81	12.4	39.6	45.81	12.4	39.6	–	–	–
Advertising and related sales .....	21.64	7.6	38.5	21.82	7.8	38.5	–	–	–
Sales, other business services .....	17.91	6.6	36.2	18.18	6.6	36.0	–	–	–
Sales engineers .....	32.17	4.6	40.9	32.17	4.6	40.9	–	–	–
Sales representatives, mining, manufacturing, and wholesale .....									
	23.19	4.5	41.3	23.52	4.4	41.4	–	–	–
Sales workers, motor vehicles and boats .....	17.75	4.1	45.8	17.75	4.1	45.8	–	–	–
Sales workers, apparel .....	10.19	11.3	28.5	10.19	11.3	28.5	–	–	–
Sales workers, shoes .....	9.17	13.7	30.1	9.17	13.7	30.1	–	–	–
Sales workers, furniture and home furnishings .....	10.63	14.4	30.7	10.63	14.4	30.7	–	–	–
Sales workers, hardware and building supplies .....	9.81	5.3	37.7	10.47	3.2	37.4	–	–	–
Sales workers, parts .....	13.26	8.6	37.8	14.26	5.5	37.4	–	–	–
Sales workers, other commodities .....	9.03	4.1	30.7	9.33	4.0	30.6	7.16	6.3	31.6
Sales counter clerks .....	8.44	5.6	29.8	8.44	5.6	29.8	–	–	–
Cashiers .....	6.69	1.1	27.7	6.75	1.0	27.9	6.28	3.3	25.8
Demonstrators, promoters, and models, sales .....	11.70	7.6	32.4	11.70	7.6	32.4	–	–	–
Sales support, n.e.c. ....	11.71	5.4	38.0	11.71	5.4	38.0	–	–	–
<b>Administrative support, including clerical</b>									
	11.34	.8	38.0	11.46	.7	37.9	10.58	3.5	38.5
Supervisors, general office .....	16.47	3.1	39.8	16.58	3.3	39.8	–	–	–
Supervisors, computer equipment operators .....	20.91	6.7	40.3	17.57	5.0	40.8	–	–	–
Supervisors, financial records processing .....	18.12	4.9	40.0	18.12	4.9	40.0	–	–	–
Chief communications operators .....	16.22	8.2	40.9	15.19	13.8	41.5	–	–	–
Supervisors, distribution, scheduling, and adjusting clerks .....									
	16.88	4.4	39.9	17.39	4.2	39.9	–	–	–
Computer operators .....	12.23	4.7	39.6	12.42	4.5	39.8	–	–	–
Peripheral equipment operators .....	10.26	7.3	40.0	10.26	7.3	40.0	–	–	–
Secretaries .....	12.80	1.5	38.9	12.88	1.6	39.0	12.15	3.6	38.2
Stenographers .....	11.13	3.3	38.4	11.80	3.5	37.5	–	–	–
Typists .....	11.88	4.4	38.1	11.98	4.4	38.1	–	–	–
Interviewers .....	9.62	3.3	36.9	9.95	2.6	36.3	7.99	.8	40.0
Hotel clerks .....	8.23	8.9	37.4	8.48	9.9	36.8	–	–	–

See footnotes at end of table.

Table 4-10. South Atlantic census division:<sup>1</sup> Mean hourly earnings<sup>2</sup> and weekly hours by metropolitan and nonmetropolitan areas<sup>3</sup> for selected occupations, National Compensation Survey,<sup>4</sup> 1998–Continued

Occupation <sup>5</sup>	Total			Metropolitan			Nonmetropolitan		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>6</sup> (percent)		Mean	Relative error <sup>6</sup> (percent)		Mean	Relative error <sup>6</sup> (percent)	
<b>White collar –Continued</b>									
<b>Administrative support, including clerical –Continued</b>									
Transportation ticket and reservation agents .....	\$13.43	5.3	36.6	\$13.95	3.9	36.4	–	–	–
Receptionists .....	8.60	1.6	35.9	8.73	1.4	35.6	\$7.38	5.6	39.7
Information clerks, n.e.c. ....	11.29	4.7	36.9	11.29	4.7	36.9	–	–	–
Correspondence clerks .....	9.17	3.5	38.1	9.17	3.5	38.1	–	–	–
Order clerks .....	11.67	2.2	36.5	11.42	1.7	36.1	13.54	4.5	40.0
Personnel clerks, except payroll and timekeeping ...	11.44	4.0	39.3	11.52	3.7	39.0	–	–	–
Library clerks .....	9.43	2.1	32.0	9.52	1.8	30.8	9.23	5.8	34.9
File clerks .....	8.44	3.0	36.8	8.62	3.1	37.7	–	–	–
Records clerks, n.e.c. ....	11.13	2.5	37.8	11.22	2.4	38.0	9.83	14.3	35.1
Bookkeepers, accounting and auditing clerks .....	10.81	1.4	38.6	10.74	1.1	38.6	11.31	6.9	38.5
Payroll and timekeeping clerks .....	12.00	1.9	37.0	12.03	2.3	36.0	–	–	–
Billing clerks .....	10.78	2.6	38.3	10.97	2.5	38.8	–	–	–
Cost and rate clerks .....	12.35	5.3	39.6	12.64	5.2	39.5	–	–	–
Billing, posting, and calculating machine operators	9.56	3.4	37.6	9.56	3.4	37.6	–	–	–
Duplicating machine operators .....	8.44	1.9	39.9	8.44	1.9	39.9	–	–	–
Office machine operators, n.e.c. ....	8.88	6.2	40.0	8.88	6.2	40.0	–	–	–
Telephone operators .....	10.73	5.6	36.9	10.80	6.8	35.5	–	–	–
Communications equipment operators, n.e.c. ....	10.88	3.4	36.3	10.42	3.8	35.6	–	–	–
Mail clerks, except postal service .....	8.64	3.6	35.6	8.64	3.6	35.6	–	–	–
Messengers .....	8.23	2.7	34.8	8.29	2.7	34.9	–	–	–
Dispatchers .....	12.45	4.5	40.9	12.02	2.4	40.5	14.05	9.7	42.4
Production coordinators .....	12.91	3.9	37.0	13.29	3.2	36.7	–	–	–
Traffic, shipping and receiving clerks .....	10.62	6.0	39.8	10.61	2.1	39.7	–	–	–
Stock and inventory clerks .....	10.56	2.4	37.8	10.52	2.5	37.5	10.85	6.9	40.0
Meter readers .....	11.84	7.3	39.9	11.99	8.8	39.9	–	–	–
Weighers, measurers, checkers, and samplers .....	11.17	7.1	40.0	11.17	7.1	40.0	–	–	–
Expeditors .....	12.24	5.7	39.8	12.24	5.7	39.8	–	–	–
Material recording, scheduling, and distribution clerks, n.e.c. ....	12.51	7.8	37.7	12.40	8.4	37.5	–	–	–
Insurance adjusters, examiners, and investigators ..	15.21	5.0	39.4	15.21	5.0	39.4	–	–	–
Investigators and adjusters, except insurance .....	10.95	3.7	38.3	11.10	3.7	38.2	–	–	–
Eligibility clerks, social welfare .....	11.96	3.0	39.2	12.16	3.1	39.0	–	–	–
Bill and account collectors .....	11.51	3.4	38.5	11.55	3.6	38.4	–	–	–
General office clerks .....	10.51	.9	38.6	10.58	.9	38.5	10.15	2.0	39.2
Bank tellers .....	8.35	2.4	35.4	8.39	2.5	35.4	–	–	–
Proofreaders .....	9.49	7.1	40.2	–	–	–	–	–	–
Data entry keyers .....	9.55	2.3	37.7	9.44	2.2	37.7	–	–	–
Statistical clerks .....	11.38	4.0	39.2	11.65	3.7	39.2	–	–	–
Teachers' aides .....	8.77	3.7	34.7	8.63	2.5	34.2	9.06	9.9	35.8
Administrative support, n.e.c. ....	11.16	3.0	37.4	11.81	2.3	37.6	8.37	6.2	36.5
<b>Blue collar .....</b>	<b>11.69</b>	<b>1.4</b>	<b>38.5</b>	<b>11.98</b>	<b>.7</b>	<b>38.4</b>	<b>10.67</b>	<b>6.0</b>	<b>39.1</b>
<b>Precision production, craft, and repair .....</b>									
Supervisors, mechanics and repairers .....	15.05	1.7	39.8	15.35	1.1	39.8	14.01	6.8	40.0
Automobile mechanics .....	21.34	4.6	40.2	22.04	2.7	40.3	–	–	–
Automobile mechanic apprentices .....	16.02	3.0	40.5	16.37	2.8	40.5	–	–	–
Bus, truck, and stationary engine mechanics .....	10.12	17.1	41.6	10.12	17.1	41.6	–	–	–
Aircraft engine mechanics .....	14.70	4.4	40.0	15.14	4.7	39.9	–	–	–
Aircraft engine mechanics .....	22.28	3.2	40.0	22.28	3.2	40.0	–	–	–
Automobile body and related repairers .....	13.72	2.8	39.4	13.72	2.8	39.4	–	–	–
Aircraft mechanics, except engine .....	20.32	6.6	40.0	20.32	6.6	40.0	–	–	–
Heavy equipment mechanics .....	13.46	3.4	40.0	13.76	2.8	40.0	–	–	–
Industrial machinery repairers .....	16.21	4.8	39.9	15.13	1.0	39.8	18.09	8.5	40.0
Machinery maintenance .....	12.31	6.0	39.7	12.33	2.7	39.5	–	–	–
Electronic repairers, communications and industrial equipment .....	15.55	5.8	40.0	15.27	6.0	40.0	–	–	–
Data processing equipment repairers .....	15.96	4.0	38.9	15.96	4.0	38.9	–	–	–
Household appliance and power tool repairers .....	13.49	9.8	40.0	12.08	5.0	40.0	–	–	–
Telephone line installers and repairers .....	18.14	7.0	39.8	18.75	7.3	39.8	14.89	14.1	40.0
Telephone installers and repairers .....	18.20	2.2	40.0	18.17	2.2	40.0	–	–	–

See footnotes at end of table.

Table 4-10. South Atlantic census division:<sup>1</sup> Mean hourly earnings<sup>2</sup> and weekly hours by metropolitan and nonmetropolitan areas<sup>3</sup> for selected occupations, National Compensation Survey,<sup>4</sup> 1998–Continued

Occupation <sup>5</sup>	Total			Metropolitan			Nonmetropolitan		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>6</sup> (percent)		Mean	Relative error <sup>6</sup> (percent)		Mean	Relative error <sup>6</sup> (percent)	
<b>Blue collar –Continued</b>									
<b>Precision production, craft, and repair –Continued</b>									
Heating, air conditioning, and refrigeration mechanics .....	\$14.14	2.8	40.1	\$14.30	3.0	40.1	–	–	–
Office machine repairers .....	14.26	9.5	40.0	14.26	9.5	40.0	–	–	–
Mechanical controls and valve repairers .....	15.15	5.4	40.0	14.36	3.9	40.0	–	–	–
Millwrights .....	15.39	4.1	40.0	15.39	4.1	40.0	–	–	–
Mechanics and repairers, n.e.c. ....	14.30	3.7	40.0	14.93	1.9	40.1	\$13.01	10.7	40.0
Supervisors, carpenters and related workers .....	15.95	12.7	40.0	15.95	12.7	40.0	–	–	–
Supervisors, electricians and power transmission installers .....	19.05	7.3	40.1	21.55	6.0	40.4	–	–	–
Supervisors, construction trades, n.e.c. ....	16.38	2.5	40.3	16.71	2.6	40.4	–	–	–
Carpenters .....	13.08	3.7	39.7	13.16	3.7	39.7	–	–	–
Electricians .....	15.98	4.3	39.9	16.55	5.4	39.9	14.52	4.8	40.0
Electrician apprentices .....	10.99	6.1	40.1	10.99	6.1	40.1	–	–	–
Electrical power installers and repairers .....	18.27	3.4	40.0	19.54	2.4	40.0	–	–	–
Painters, construction and maintenance .....	12.64	6.0	38.9	12.66	6.3	38.9	–	–	–
Plumbers, pipefitters and steamfitters .....	19.45	8.2	40.0	19.61	8.1	40.0	–	–	–
Concrete and terrazzo finishers .....	11.82	13.8	40.8	11.82	13.8	40.8	–	–	–
Insulation workers .....	11.22	13.2	40.0	11.70	15.3	40.0	–	–	–
Paving, surfacing, and tamping equipment operators .....	–	–	–	9.72	8.3	40.0	–	–	–
Sheetmetal duct installers .....	14.16	9.1	40.0	14.16	9.1	40.0	–	–	–
Structural metal workers .....	13.41	4.5	40.0	13.41	4.5	40.0	–	–	–
Construction trades, n.e.c. ....	11.49	5.1	40.0	12.33	4.5	39.9	10.32	10.5	40.0
Supervisors, production .....	17.98	2.3	41.0	18.23	1.5	41.6	17.50	6.0	40.0
Tool and die makers .....	15.18	8.5	40.0	16.60	5.3	40.0	–	–	–
Tool and die maker apprentices .....	12.53	7.1	40.0	12.53	7.1	40.0	–	–	–
Precision assemblers, metal .....	13.35	.4	40.0	13.35	.4	40.0	–	–	–
Machinists .....	16.50	2.2	40.2	16.50	2.2	40.2	–	–	–
Patternmakers and modelmakers, metal .....	14.09	14.4	40.0	14.09	14.4	40.0	–	–	–
Sheet metal workers .....	14.40	1.2	40.0	14.40	1.2	40.0	–	–	–
Furniture and wood finishers .....	10.51	1.6	40.0	10.51	1.6	40.0	–	–	–
Dressmakers .....	10.42	13.0	40.0	10.42	13.0	40.0	–	–	–
Upholsterers .....	15.23	.0	39.1	15.23	.0	39.1	–	–	–
Electrical and electronic equipment assemblers .....	10.30	3.0	39.5	9.85	2.5	39.3	–	–	–
Miscellaneous precision workers, n.e.c. ....	14.91	14.3	39.9	13.47	15.7	39.9	–	–	–
Butchers and meat cutters .....	8.21	6.2	35.8	8.81	4.5	32.3	–	–	–
Bakers .....	8.89	3.9	37.1	8.89	3.9	37.1	–	–	–
Food batchmakers .....	9.11	.6	40.0	9.11	.6	40.0	–	–	–
Inspectors, testers, and graders .....	14.58	2.4	40.5	14.58	2.4	40.5	–	–	–
Precision inspectors, testers, and related workers, n.e.c. ....	18.20	7.8	40.0	18.20	7.8	40.0	–	–	–
Water and sewer treatment plant operators .....	13.68	4.6	38.0	13.67	5.1	37.7	–	–	–
Power plant operators .....	19.55	5.1	40.0	19.55	5.1	40.0	–	–	–
Stationary engineers .....	18.00	3.1	39.9	18.00	3.1	39.9	–	–	–
Miscellaneous plant and system operators, n.e.c. ....	15.81	7.4	39.2	15.81	7.4	39.2	–	–	–
<b>Machine operators, assemblers, and inspectors .....</b>	<b>10.55</b>	<b>1.8</b>	<b>39.6</b>	<b>11.04</b>	<b>.8</b>	<b>39.5</b>	<b>9.37</b>	<b>5.1</b>	<b>40.0</b>
Lathe and turning machine set-up operators .....	13.44	5.1	39.9	14.30	4.6	39.9	–	–	–
Lathe and turning machine operators .....	12.15	3.5	40.0	12.15	3.5	40.0	–	–	–
Punching and stamping press operators .....	10.94	7.6	39.9	10.94	7.6	39.9	–	–	–
Drilling and boring machine operators .....	11.39	4.8	39.9	11.39	4.8	39.9	–	–	–
Grinding, abrading, buffing, and polishing machine operators .....	9.87	3.4	40.0	9.92	4.2	40.0	–	–	–
Numerical control machine operators .....	14.09	3.9	40.0	14.09	3.9	40.0	–	–	–
Fabricating machine operators, n.e.c. ....	11.32	3.5	40.0	11.32	3.5	40.0	–	–	–
Molding and casting machine operators .....	9.80	6.4	39.9	10.17	2.9	39.8	–	–	–
Heat treating equipment operators .....	11.92	9.8	40.6	11.92	9.8	40.6	–	–	–
Wood lathe, routing, and planing machine operators .....	9.05	14.0	36.5	10.82	.8	34.1	–	–	–
Sawing machine operators .....	–	–	–	10.61	4.9	38.4	–	–	–
Shaping and jointing machine operators .....	9.97	1.3	40.0	9.97	1.3	40.0	–	–	–

See footnotes at end of table.

Table 4-10. South Atlantic census division:<sup>1</sup> Mean hourly earnings<sup>2</sup> and weekly hours by metropolitan and nonmetropolitan areas<sup>3</sup> for selected occupations, National Compensation Survey,<sup>4</sup> 1998–Continued

Occupation <sup>5</sup>	Total			Metropolitan			Nonmetropolitan		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>6</sup> (percent)		Mean	Relative error <sup>6</sup> (percent)		Mean	Relative error <sup>6</sup> (percent)	
<b>Blue collar –Continued</b>									
<b>Machine operators, assemblers, and inspectors –Continued</b>									
Printing press operators .....	\$15.42	4.1	38.3	\$15.42	4.1	38.3	–	–	–
Photoengravers and lithographers .....	14.30	2.8	39.4	14.30	2.8	39.4	–	–	–
Typesetters and compositors .....	11.69	9.9	38.3	11.72	10.0	39.2	–	–	–
Winding and twisting machine operators .....	11.18	7.9	39.9	9.65	2.9	39.9	–	–	–
Knitting, looping, taping, and weaving machine operators .....	10.20	1.6	40.1	10.20	1.6	40.1	–	–	–
Textile cutting machine operators .....	9.35	3.8	39.9	9.50	2.9	39.9	–	–	–
Textile sewing machine operators .....	8.11	4.8	39.7	8.63	3.4	39.4	–	–	–
Laundering and dry cleaning machine operators .....	7.18	2.7	38.6	7.35	2.8	39.0	\$6.66	6.2	37.7
Cementing and gluing machine operators .....	–	–	–	9.69	12.1	40.0	–	–	–
Packaging and filling machine operators .....	10.69	8.5	39.3	12.75	4.9	38.8	–	–	–
Extruding and forming machine operators .....	12.17	2.5	40.2	12.17	2.5	40.2	–	–	–
Mixing and blending machine operators .....	12.21	5.3	39.9	12.53	5.4	39.9	–	–	–
Separating, filtering, and clarifying machine operators .....	16.35	2.1	39.9	16.35	2.1	39.9	–	–	–
Compressing and compacting machine operators ..	10.17	3.5	38.6	10.17	3.5	38.6	–	–	–
Painting and paint spraying machine operators .....	12.37	2.8	40.3	12.37	2.8	40.3	–	–	–
Folding machine operators .....	9.11	5.1	39.9	9.11	5.1	39.9	–	–	–
Furnace, kiln, and oven operators, except food .....	12.19	3.6	40.1	12.19	3.6	40.1	–	–	–
Crushing and grinding machine operators .....	11.55	4.0	40.0	11.55	4.0	40.0	–	–	–
Slicing and cutting machine operators .....	12.18	1.6	40.0	12.18	1.6	40.0	–	–	–
Photographic process machine operators .....	8.63	13.1	35.5	7.38	4.3	34.6	–	–	–
Miscellaneous machine operators, n.e.c. ....	11.87	2.4	39.7	11.85	.9	39.6	11.93	8.0	40.2
Welders and cutters .....	13.15	6.2	40.0	13.58	5.7	40.0	–	–	–
Assemblers .....	9.68	3.7	39.7	10.46	1.8	39.5	7.87	4.7	40.0
Hand cutting and trimming .....	10.92	2.1	40.0	10.92	2.1	40.0	–	–	–
Hand painting, coating, and decorating .....	9.43	4.7	34.3	9.43	4.7	34.3	–	–	–
Miscellaneous hand working, n.e.c. ....	9.72	6.9	38.5	10.07	5.1	37.0	–	–	–
Production inspectors, checkers and examiners .....	10.11	3.3	40.0	10.42	1.4	40.0	–	–	–
Production testers .....	10.60	8.1	40.0	12.24	3.5	40.1	–	–	–
Graders and sorters, except agricultural .....	7.75	2.1	40.0	8.10	2.8	40.1	–	–	–
Hand inspectors, n.e.c. ....	8.68	6.1	40.0	8.68	6.1	40.0	–	–	–
<b>Transportation and material moving .....</b>	<b>12.15</b>	<b>1.7</b>	<b>37.9</b>	<b>12.37</b>	<b>1.8</b>	<b>38.0</b>	<b>10.77</b>	<b>3.4</b>	<b>37.4</b>
Supervisors, motor vehicle operators .....	17.20	6.6	42.2	16.93	6.6	43.0	–	–	–
Truck drivers .....	12.40	2.1	41.6	12.58	2.0	41.2	10.84	5.6	45.9
Driver-sales workers .....	12.50	8.8	37.0	12.45	9.2	36.8	–	–	–
Bus drivers .....	11.37	3.8	28.0	11.83	3.8	29.6	8.70	8.3	21.2
Taxicab drivers and chauffeurs .....	6.70	5.3	27.0	6.82	5.4	26.4	–	–	–
Parking lot attendants .....	6.76	1.6	33.3	6.76	1.6	33.3	–	–	–
Motor transportation, n.e.c. ....	10.44	5.1	36.2	10.61	5.7	35.6	–	–	–
Ship captains and mates, except fishing boats .....	18.98	15.5	40.0	18.98	15.5	40.0	–	–	–
Supervisors, material moving equipment .....	17.48	7.6	40.4	18.59	5.4	40.5	–	–	–
Operating engineers .....	12.37	6.0	40.0	13.56	7.0	40.0	–	–	–
Crane and tower operators .....	16.22	4.1	40.0	16.99	3.8	40.0	–	–	–
Excavating and loading machine operators .....	11.63	4.8	40.0	12.23	3.5	39.9	–	–	–
Grader, dozer, and scraper operators .....	10.38	2.8	39.9	10.68	2.0	39.8	–	–	–
Industrial truck and tractor equipment operators .....	11.46	2.5	39.9	11.64	2.2	39.9	–	–	–
Miscellaneous material moving equipment operators, n.e.c. ....	13.21	12.7	38.8	13.62	13.1	38.6	–	–	–
<b>Handlers, equipment cleaners, helpers, and laborers ..</b>	<b>8.97</b>	<b>2.0</b>	<b>36.1</b>	<b>9.05</b>	<b>1.0</b>	<b>35.9</b>	<b>8.64</b>	<b>10.5</b>	<b>37.0</b>
Supervisors, agriculture-related workers .....	19.30	10.0	40.2	19.53	10.1	40.2	–	–	–
Groundskeepers and gardeners, except farm .....	8.05	3.0	38.5	8.45	4.2	37.6	7.43	4.7	40.0
Supervisors, handlers, equipment cleaners, and laborers, n.e.c. ....	13.98	2.4	40.2	13.98	2.4	40.2	–	–	–
Helpers, mechanics and repairers .....	10.14	5.3	40.0	10.16	7.4	40.0	–	–	–
Helpers, construction trades .....	9.36	3.0	38.3	9.29	3.3	37.7	–	–	–
Construction laborers .....	8.57	1.5	39.3	8.58	1.5	39.3	–	–	–
Production helpers .....	10.92	9.4	39.3	9.41	1.3	39.0	–	–	–

See footnotes at end of table.

Table 4-10. South Atlantic census division:<sup>1</sup> Mean hourly earnings<sup>2</sup> and weekly hours by metropolitan and nonmetropolitan areas<sup>3</sup> for selected occupations, National Compensation Survey,<sup>4</sup> 1998–Continued

Occupation <sup>5</sup>	Total			Metropolitan			Nonmetropolitan		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>6</sup> (percent)		Mean	Relative error <sup>6</sup> (percent)		Mean	Relative error <sup>6</sup> (percent)	
<b>Blue collar –Continued</b>									
<b>Handlers, equipment cleaners, helpers, and laborers –Continued</b>									
Garbage collectors .....	\$9.70	8.1	39.9	\$9.84	8.7	39.8	–	–	–
Stock handlers and baggers .....	8.04	1.9	30.2	8.03	1.6	30.4	\$8.12	8.7	28.8
Machine feeders and offbearers .....	9.38	4.0	39.8	9.22	3.9	39.8	–	–	–
Freight, stock, and material handlers, n.e.c. ....	9.77	4.5	37.4	10.25	2.6	37.0	7.91	16.5	38.8
Garage and service station related .....	8.67	5.3	39.9	8.67	5.3	39.9	–	–	–
Vehicle washers and equipment cleaners .....	9.06	4.2	39.1	9.22	4.3	39.0	–	–	–
Hand packers and packagers .....	8.02	2.9	37.8	8.17	2.0	37.0	7.63	9.2	40.0
Laborers, except construction, n.e.c. ....	8.57	2.9	37.9	8.64	2.2	37.9	8.17	16.0	38.5
<b>Service</b>									
Protective service .....	8.84	1.3	33.9	8.94	.9	33.5	8.43	6.3	35.5
Supervisors, firefighters and fire prevention .....	12.25	2.1	38.5	12.61	2.3	38.2	11.06	2.2	39.4
Supervisors, police and detectives .....	18.81	5.2	49.8	18.81	5.2	49.8	–	–	–
Supervisors, guards .....	20.47	3.4	40.2	21.25	2.7	40.2	–	–	–
Supervisors, police and detectives, public service .....	13.28	9.6	36.4	12.64	10.3	36.0	–	–	–
Fire inspection and fire prevention .....	16.10	6.5	45.6	16.10	6.5	45.6	–	–	–
Firefighting .....	12.47	2.5	49.2	12.52	2.4	49.3	–	–	–
Police and detectives, public service .....	16.21	2.1	40.1	16.42	2.1	40.1	13.35	8.1	39.8
Sheriffs, bailiffs, and other law enforcement officers .....	12.92	3.1	39.6	13.86	3.1	39.2	10.73	7.0	40.4
Correctional institution officers .....	11.87	2.6	40.1	13.00	2.3	40.1	11.21	1.4	40.0
Crossing guards .....	8.53	5.5	18.5	8.70	5.3	19.5	–	–	–
Guards and police, except public service .....	7.98	1.9	34.1	7.97	1.8	34.1	8.11	11.3	34.4
Protective service, n.e.c. ....	12.11	7.5	33.5	12.23	7.7	33.2	–	–	–
Food service .....	6.50	1.5	30.7	6.45	1.5	30.6	6.69	5.4	31.5
Supervisors, food preparation and service .....	11.02	2.9	39.2	11.18	3.0	40.1	–	–	–
Bartenders .....	5.20	6.2	33.1	5.19	7.8	32.5	–	–	–
Waiters and waitresses .....	3.49	3.7	28.7	3.48	4.1	28.4	3.64	4.1	32.7
Cooks .....	8.17	1.9	35.6	8.38	1.6	35.0	7.12	4.3	39.0
Food counter, fountain, and related .....	5.95	2.7	26.2	6.21	3.1	27.7	5.57	1.3	24.2
Kitchen workers, food preparation .....	7.40	1.6	30.1	7.32	1.4	29.4	7.75	5.1	33.3
Waiters/Waitresses' assistants .....	5.82	5.3	32.0	5.98	4.5	30.9	–	–	–
Food preparation, n.e.c. ....	6.73	1.6	30.5	6.71	1.6	30.0	6.81	4.7	33.0
Health service .....	8.08	1.9	34.8	8.21	.7	34.6	7.59	8.6	35.9
Dental assistants .....	10.06	3.2	40.0	10.06	3.2	40.0	–	–	–
Health aides, except nursing .....	9.22	4.1	34.6	8.80	1.9	33.8	10.95	14.2	38.7
Nursing aides, orderlies and attendants .....	7.76	1.8	34.8	8.03	.6	34.7	6.79	5.8	35.3
Cleaning and building service .....	7.92	1.1	35.2	8.00	1.2	34.7	7.38	2.2	38.8
Supervisors, cleaning and building service workers .....	11.94	3.2	39.2	11.83	3.4	39.1	–	–	–
Maids and housemen .....	7.03	2.5	37.3	7.21	2.7	37.3	6.19	2.0	37.1
Janitors and cleaners .....	7.84	1.4	34.1	7.87	1.5	33.4	7.60	3.0	39.6
Personal service .....	9.46	3.2	29.9	9.79	3.4	29.4	7.65	5.5	32.8
Supervisors, personal service .....	12.23	3.8	35.0	12.23	3.8	35.0	–	–	–
Hairdressers and cosmetologists .....	9.88	5.1	30.7	9.88	5.1	30.7	–	–	–
Attendants, amusement, and recreation facilities .....	6.54	4.7	26.8	6.91	2.2	27.7	–	–	–
Guides .....	9.02	4.3	31.7	9.14	4.1	33.0	–	–	–
Public transportation attendants .....	26.68	8.3	21.0	26.68	8.3	21.0	–	–	–
Baggage porters and bellhops .....	5.51	7.8	33.9	5.51	7.8	33.9	–	–	–
Welfare service aides .....	8.32	5.7	30.1	8.50	5.9	29.6	–	–	–
Early childhood teachers' assistants .....	8.70	2.6	34.4	8.83	4.0	32.7	8.51	2.9	37.1
Child care workers, n.e.c. ....	7.50	2.4	28.5	7.49	2.5	28.4	–	–	–
Service, n.e.c. ....	7.91	2.3	31.3	7.91	2.7	30.7	7.91	4.3	34.4

<sup>1</sup> The South Atlantic census division consists of Delaware, Maryland, District of Columbia, Virginia, West Virginia, North Carolina, South Carolina, Georgia, and Florida.

<sup>2</sup> 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.

<sup>3</sup> Metropolitan areas can be a Metropolitan Statistical Area (MSA) or Consolidated Metropolitan Statistical Area (CMSA) as defined by the Office of Management and Budget, 1994. Nonmetropolitan areas are counties that do not fit the definitions above. For more information, see appendix E.

<sup>4</sup> In this census division, collection was conducted between February 1998 and April 1999. The average reference period was October 1998.

<sup>5</sup> A classification system including about 480 individual occupations is used to cover all workers in the civilian economy. For more information, see appendix B.

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

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

Table 4-11. East South Central census division:<sup>1</sup> Mean hourly earnings<sup>2</sup> and weekly hours by metropolitan and nonmetropolitan areas<sup>3</sup> for selected occupations, National Compensation Survey,<sup>4</sup> 1998

Occupation <sup>5</sup>	Total			Metropolitan			Nonmetropolitan		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>6</sup> (percent)		Mean	Relative error <sup>6</sup> (percent)		Mean	Relative error <sup>6</sup> (percent)	
All .....	\$11.87	2.3	37.7	\$13.88	2.2	36.9	\$9.97	4.3	38.6
All excluding sales .....	12.16	2.3	37.8	14.01	2.3	37.2	10.25	4.5	38.5
<b>White collar</b> .....	15.05	2.1	37.7	16.73	2.2	36.9	12.60	5.6	38.9
White collar excluding sales .....	16.98	1.7	37.9	17.42	2.1	37.6	15.97	3.6	38.7
<b>Professional specialty and technical</b> .....	20.64	1.4	37.2	21.19	1.4	37.3	19.00	1.1	36.7
Professional specialty .....	22.46	1.6	36.9	23.18	1.6	37.1	20.52	1.1	36.4
Engineers, architects, and surveyors .....	24.84	3.9	40.6	26.66	1.7	40.9	-	-	-
Aerospace engineers .....	28.00	4.7	40.0	28.00	4.7	40.0	-	-	-
Civil engineers .....	27.20	5.5	39.2	27.20	5.5	39.2	-	-	-
Electrical and electronic engineers .....	26.85	3.8	40.9	26.83	5.1	41.2	-	-	-
Industrial engineers .....	-	-	-	24.24	3.3	41.1	-	-	-
Mechanical engineers .....	26.11	2.5	40.2	26.11	2.5	40.2	-	-	-
Engineers, n.e.c. ....	25.79	4.5	41.1	27.18	2.7	41.5	-	-	-
Mathematical and computer scientists .....	24.59	2.4	40.2	24.59	2.4	40.2	-	-	-
Computer systems analysts and scientists .....	24.68	2.7	40.3	24.68	2.7	40.3	-	-	-
Operations and systems researchers and analysts .....	24.35	4.8	40.5	24.35	4.8	40.5	-	-	-
Natural scientists .....	24.30	.5	40.6	24.30	.5	40.6	-	-	-
Health related .....	19.24	.8	35.8	19.79	.8	35.5	17.42	3.5	36.8
Physicians .....	47.58	21.7	29.3	47.58	21.7	29.3	-	-	-
Registered nurses .....	17.77	.9	35.8	18.03	.8	35.4	17.01	2.9	36.8
Pharmacists .....	27.65	2.7	38.5	27.97	3.4	37.9	-	-	-
Dietitians .....	14.50	2.7	40.7	15.05	.7	41.1	-	-	-
Respiratory therapists .....	16.65	1.9	39.0	16.24	1.0	39.3	-	-	-
Physical therapists .....	25.16	2.9	32.5	25.89	.4	34.2	-	-	-
Speech therapists .....	20.26	5.0	40.0	20.26	5.0	40.0	-	-	-
Therapists, n.e.c. ....	15.45	5.3	38.3	15.82	4.2	38.1	-	-	-
Teachers, college and university .....	29.29	3.7	34.4	30.07	2.5	35.5	26.94	10.1	31.4
History teachers .....	31.76	3.1	34.8	34.39	3.9	27.3	-	-	-
Business, commerce, and marketing teachers .....	36.10	15.4	30.1	23.86	26.4	33.8	-	-	-
Art, drama, and music teachers .....	25.52	5.8	27.1	25.20	5.9	39.5	-	-	-
English teachers .....	22.81	6.9	28.0	23.99	6.2	37.6	-	-	-
Trade and industrial teachers .....	26.95	6.4	34.4	-	-	-	-	-	-
Teachers, post secondary, n.e.c. ....	24.82	1.3	34.3	24.48	.7	33.9	-	-	-
Teachers, except college and university .....	23.77	2.7	35.8	25.03	3.2	35.3	21.80	1.8	36.6
Prekindergarten and kindergarten .....	12.79	17.9	36.5	12.79	17.9	36.5	-	-	-
Elementary school teachers .....	23.86	1.5	38.0	25.36	1.8	37.3	22.15	1.3	38.8
Secondary school teachers .....	24.40	2.7	37.4	25.23	3.0	37.0	23.02	2.6	38.0
Teachers, special education .....	25.54	5.4	36.6	26.87	3.9	36.4	-	-	-
Teachers, n.e.c. ....	24.28	2.1	36.5	24.61	2.1	36.0	-	-	-
Substitute teachers .....	6.90	2.2	10.2	7.11	.4	9.2	-	-	-
Vocational and educational counselors .....	27.49	13.1	39.0	32.06	7.2	39.4	-	-	-
Librarians, archivists, and curators .....	19.01	2.1	37.5	19.01	2.1	37.5	-	-	-
Librarians .....	19.54	2.2	37.0	19.54	2.2	37.0	-	-	-
Social scientists and urban planners .....	19.24	2.1	39.4	19.17	2.1	39.3	-	-	-
Psychologists .....	20.64	5.0	37.7	-	-	-	-	-	-
Social, recreation, and religious workers .....	13.20	4.3	39.1	13.66	4.5	38.9	11.82	4.3	39.8
Social workers .....	13.33	4.4	39.2	13.89	4.5	38.9	11.82	4.3	39.8
Recreation workers .....	10.42	2.8	38.7	10.42	2.8	38.7	-	-	-
Lawyers and judges .....	34.16	12.2	36.7	37.11	7.2	45.8	-	-	-
Lawyers .....	34.16	12.2	36.7	37.11	7.2	45.8	-	-	-
Writers, authors, entertainers, athletes, and professionals, n.e.c. ....	19.29	3.2	38.9	19.39	3.2	39.5	-	-	-
Editors and reporters .....	23.10	5.4	41.4	23.10	5.4	41.4	-	-	-
Public relations specialists .....	15.37	3.4	39.3	15.83	3.0	39.6	-	-	-
Professional, n.e.c. ....	17.58	2.9	39.0	17.58	2.9	39.0	-	-	-
Technical .....	14.47	1.5	38.0	15.13	.6	37.9	11.61	3.3	38.2
Clinical laboratory technologists and technicians .....	14.69	6.1	38.0	14.16	2.9	37.7	-	-	-
Health record technologists and technicians .....	11.74	5.6	38.2	11.84	6.0	37.9	-	-	-
Radiological technicians .....	13.32	2.6	38.6	13.55	1.5	38.5	-	-	-
Licensed practical nurses .....	11.37	3.4	37.0	12.23	4.0	36.4	10.23	2.2	37.9
Health technologists and technicians, n.e.c. ....	12.28	2.2	37.3	12.28	2.2	37.3	-	-	-
Electrical and electronic technicians .....	17.87	3.9	40.4	17.85	3.9	40.4	-	-	-
Engineering technicians, n.e.c. ....	16.96	1.9	39.7	17.39	.8	39.8	-	-	-

See footnotes at end of table.

Table 4-11. East South Central census division:<sup>1</sup> Mean hourly earnings<sup>2</sup> and weekly hours by metropolitan and nonmetropolitan areas<sup>3</sup> for selected occupations, National Compensation Survey,<sup>4</sup> 1998—Continued

Occupation <sup>5</sup>	Total			Metropolitan			Nonmetropolitan		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>6</sup> (percent)		Mean	Relative error <sup>6</sup> (percent)		Mean	Relative error <sup>6</sup> (percent)	
<b>White collar</b> —Continued									
<b>Professional specialty and technical</b> —Continued									
Technical—Continued									
Drafters .....	\$16.07	1.2	40.9	\$16.07	1.2	40.9	—	—	—
Biological technicians .....	15.52	4.7	40.0	15.52	4.7	40.0	—	—	—
Chemical technicians .....	15.23	6.3	40.0	15.23	6.3	40.0	—	—	—
Science technicians, n.e.c. ....	17.71	6.7	39.5	17.71	6.7	39.5	—	—	—
Computer programmers .....	19.04	2.1	40.5	19.04	2.1	40.5	—	—	—
Legal assistants .....	15.41	2.4	40.2	15.51	2.8	40.3	—	—	—
Technical and related, n.e.c. ....	14.82	4.3	36.9	14.82	4.3	36.9	—	—	—
<b>Executive, administrative, and managerial</b> .....	23.63	3.9	40.5	25.20	1.0	40.3	\$21.19	12.9	40.8
Executives, administrators, and managers .....	24.62	5.0	40.7	27.63	.8	40.6	20.70	17.9	41.0
Legislators .....	30.77	39.8	9.4	17.76	16.9	12.4	—	—	—
Administrators and officials, public administration ...	21.66	6.0	36.9	24.32	7.3	39.6	17.19	6.7	33.2
Financial managers .....	25.35	4.9	41.2	28.29	4.0	42.1	18.05	17.6	39.2
Personnel and labor relations managers .....	21.30	6.7	39.7	21.30	6.7	39.7	—	—	—
Purchasing managers .....	23.29	1.4	41.0	23.29	1.4	41.0	—	—	—
Managers, marketing, advertising, and public relations .....	28.86	.8	41.0	28.86	.8	41.0	—	—	—
Administrators, education and related fields .....	29.13	3.7	39.3	30.44	3.8	40.3	27.04	8.5	37.9
Managers, medicine and health .....	26.82	3.2	40.5	27.76	1.0	40.0	—	—	—
Managers, food servicing and lodging establishments .....	15.70	5.2	39.9	16.84	3.5	39.9	—	—	—
Managers, service organizations, n.e.c. ....	—	—	—	18.48	2.7	39.3	—	—	—
Managers and administrators, n.e.c. ....	30.48	5.5	44.2	29.67	1.8	41.8	—	—	—
Management related .....	21.33	2.1	39.9	20.69	.9	39.8	—	—	—
Accountants and auditors .....	17.88	3.9	39.5	18.59	2.6	39.4	—	—	—
Other financial officers .....	20.64	11.0	40.5	17.75	1.4	40.1	—	—	—
Personnel, training, and labor relations specialists ..	21.81	3.0	39.1	21.81	3.0	39.1	—	—	—
Buyers, wholesale and retail trade, except farm products .....	21.89	14.3	40.0	18.15	6.3	40.0	—	—	—
Purchasing agents and buyers, n.e.c. ....	17.31	6.6	40.0	15.40	5.6	40.0	—	—	—
Inspectors and compliance officers, except construction .....	16.22	3.1	39.2	16.77	2.6	39.2	—	—	—
Management related, n.e.c. ....	—	—	—	20.62	2.0	41.0	—	—	—
<b>Sales</b> .....	—	—	—	12.14	2.9	33.0	—	—	—
Supervisors, sales .....	16.70	10.0	41.2	18.55	5.2	41.5	—	—	—
Advertising and related sales .....	13.66	17.4	39.7	17.74	12.1	39.5	—	—	—
Sales, other business services .....	20.58	7.6	36.9	20.92	8.1	36.8	—	—	—
Sales representatives, mining, manufacturing, and wholesale .....	22.37	5.9	41.6	21.25	3.5	41.7	—	—	—
Sales workers, motor vehicles and boats .....	15.31	5.5	47.6	15.31	5.5	47.6	—	—	—
Sales workers, apparel .....	7.84	1.8	25.2	7.84	1.8	25.2	—	—	—
Sales workers, radio, tv, hi-fi, and appliances .....	10.33	24.0	23.4	10.33	24.0	23.4	—	—	—
Sales workers, hardware and building supplies .....	9.75	3.1	36.2	—	—	—	—	—	—
Sales workers, parts .....	11.18	1.2	38.3	11.18	1.2	38.3	—	—	—
Sales workers, other commodities .....	9.06	1.3	30.7	9.16	1.1	30.8	—	—	—
Sales counter clerks .....	5.98	2.3	24.6	6.01	2.4	24.8	—	—	—
Cashiers .....	—	—	—	6.85	2.0	28.4	—	—	—
Sales support, n.e.c. ....	9.02	4.4	34.6	9.02	4.4	34.6	—	—	—
<b>Administrative support, including clerical</b> .....	10.82	1.8	37.6	10.71	2.0	36.9	11.06	3.8	39.2
Supervisors, general office .....	13.63	7.4	39.9	14.01	7.3	39.9	—	—	—
Supervisors, financial records processing .....	17.82	3.7	40.5	17.82	3.7	40.5	—	—	—
Supervisors, distribution, scheduling, and adjusting clerks .....	17.31	6.7	40.3	16.28	8.0	38.8	—	—	—
Computer operators .....	14.29	4.5	39.6	13.11	4.6	39.2	—	—	—
Secretaries .....	10.99	3.1	38.1	11.29	3.6	37.9	9.77	1.8	39.3
Stenographers .....	11.19	6.0	39.4	11.19	6.0	39.4	—	—	—
Typists .....	10.76	7.4	39.4	12.26	4.2	39.2	—	—	—
Interviewers .....	8.76	6.0	40.0	9.40	3.2	40.0	—	—	—

See footnotes at end of table.



Table 4-11. East South Central census division:<sup>1</sup> Mean hourly earnings<sup>2</sup> and weekly hours by metropolitan and nonmetropolitan areas<sup>3</sup> for selected occupations, National Compensation Survey,<sup>4</sup> 1998–Continued

Occupation <sup>5</sup>	Total			Metropolitan			Nonmetropolitan		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>6</sup> (percent)		Mean	Relative error <sup>6</sup> (percent)		Mean	Relative error <sup>6</sup> (percent)	
<b>White collar –Continued</b>									
<b>Administrative support, including clerical –Continued</b>									
Hotel clerks .....	\$6.87	1.3	38.1	\$6.87	1.3	38.1	–	–	–
Receptionists .....	8.19	2.8	37.0	8.21	2.8	36.9	–	–	–
Information clerks, n.e.c. ....	9.85	8.2	36.9	9.85	8.2	36.9	–	–	–
Order clerks .....	9.00	4.2	36.9	9.00	4.2	36.9	–	–	–
Personnel clerks, except payroll and timekeeping ...	13.99	4.1	39.5	13.99	4.1	39.5	–	–	–
Library clerks .....	7.75	1.8	31.2	7.83	2.7	29.8	–	–	–
File clerks .....	8.23	1.1	37.4	8.16	.9	37.1	–	–	–
Records clerks, n.e.c. ....	10.91	3.5	39.5	11.01	7.3	39.0	–	–	–
Bookkeepers, accounting and auditing clerks .....	–	–	–	11.26	1.1	39.1	–	–	–
Payroll and timekeeping clerks .....	10.16	5.2	35.7	10.69	2.4	39.8	–	–	–
Billing clerks .....	9.89	1.4	36.1	9.48	1.6	34.6	–	–	–
Telephone operators .....	9.49	1.4	35.2	9.49	1.4	35.2	–	–	–
Mail clerks, except postal service .....	8.34	11.2	36.8	9.60	6.3	35.6	–	–	–
Dispatchers .....	11.18	3.6	38.1	11.97	1.3	39.6	–	–	–
Production coordinators .....	13.29	3.5	40.1	13.29	3.5	40.1	–	–	–
Traffic, shipping and receiving clerks .....	13.46	11.0	31.0	–	–	–	–	–	–
Stock and inventory clerks .....	10.37	3.5	37.5	10.50	3.3	39.8	–	–	–
Meter readers .....	14.24	5.6	40.0	14.24	5.6	40.0	–	–	–
Material recording, scheduling, and distribution clerks, n.e.c. ....	10.15	6.7	32.5	12.12	3.2	35.4	–	–	–
Insurance adjusters, examiners, and investigators ..	15.04	24.3	39.5	15.04	24.3	39.5	–	–	–
Investigators and adjusters, except insurance .....	10.26	6.5	38.8	11.19	.6	38.5	–	–	–
Eligibility clerks, social welfare .....	10.28	2.9	40.0	10.28	2.9	40.0	–	–	–
General office clerks .....	9.57	1.8	38.6	9.57	2.3	38.0	\$9.57	2.8	40.0
Bank tellers .....	9.14	5.5	33.1	9.27	5.4	33.3	–	–	–
Data entry keyers .....	8.84	1.7	37.1	8.76	.9	37.7	–	–	–
Teachers' aides .....	7.99	1.7	33.9	8.18	1.6	32.1	–	–	–
Administrative support, n.e.c. ....	9.96	6.8	38.3	10.92	1.6	37.6	–	–	–
<b>Blue collar .....</b>	<b>11.43</b>	<b>3.9</b>	<b>39.2</b>	<b>12.56</b>	<b>2.3</b>	<b>38.8</b>	<b>10.27</b>	<b>7.8</b>	<b>39.6</b>
<b>Precision production, craft, and repair .....</b>									
Supervisors, mechanics and repairers .....	14.40	7.9	40.0	16.04	2.6	40.1	12.23	13.0	40.0
Automobile mechanics .....	19.54	3.8	40.0	19.54	3.8	40.0	–	–	–
Bus, truck, and stationary engine mechanics .....	15.38	2.3	40.5	15.38	2.3	40.5	–	–	–
Heavy equipment mechanics .....	12.85	3.3	40.1	12.99	3.5	40.1	–	–	–
Industrial machinery repairers .....	16.13	5.5	40.0	15.08	3.2	40.0	–	–	–
Machinery maintenance .....	16.94	3.6	40.0	18.33	2.3	39.9	–	–	–
Electronic repairers, communications and industrial equipment .....	11.33	6.4	41.1	11.59	6.4	41.2	–	–	–
Telephone line installers and repairers .....	14.16	5.5	40.0	14.15	5.6	40.0	–	–	–
Telephone installers and repairers .....	17.15	3.0	40.0	16.83	3.2	40.0	–	–	–
Heating, air conditioning, and refrigeration mechanics .....	16.50	.8	40.0	16.44	.8	40.0	–	–	–
Mechanical controls and valve repairers .....	12.95	2.3	39.8	12.95	2.3	39.8	–	–	–
Millwrights .....	17.81	6.4	40.0	17.81	6.4	40.0	–	–	–
Mechanics and repairers, n.e.c. ....	–	–	–	14.73	9.8	40.0	–	–	–
Supervisors, electricians and power transmission installers .....	12.51	7.2	40.0	15.51	5.3	40.0	9.59	.6	40.0
Supervisors, construction trades, n.e.c. ....	21.23	2.1	40.0	21.94	1.0	40.1	–	–	–
Carpenters .....	18.65	3.3	41.6	20.16	1.7	42.9	17.12	4.0	40.3
Electricians .....	15.56	7.6	40.0	13.92	1.8	40.0	–	–	–
Electrician apprentices .....	15.92	3.6	40.0	16.54	2.5	40.0	–	–	–
Electrical power installers and repairers .....	9.92	4.4	40.0	9.92	4.4	40.0	–	–	–
Painters, construction and maintenance .....	17.62	2.0	40.0	18.04	1.7	40.0	–	–	–
Plumbers, pipefitters and steamfitters .....	14.76	10.4	40.0	14.76	10.4	40.0	–	–	–
Structural metal workers .....	18.69	10.5	40.0	18.69	10.5	40.0	–	–	–
Construction trades, n.e.c. ....	11.39	1.1	40.0	11.39	1.1	40.0	–	–	–
Supervisors, production .....	11.88	11.0	36.8	14.16	12.7	36.3	–	–	–
Tool and die makers .....	19.95	2.4	41.1	19.95	2.4	41.1	–	–	–
Machinists .....	20.32	4.7	40.0	20.32	4.7	40.0	–	–	–
	15.08	1.4	40.0	15.08	1.4	40.0	–	–	–

See footnotes at end of table.

Table 4-11. East South Central census division:<sup>1</sup> Mean hourly earnings<sup>2</sup> and weekly hours by metropolitan and nonmetropolitan areas<sup>3</sup> for selected occupations, National Compensation Survey,<sup>4</sup> 1998–Continued

Occupation <sup>5</sup>	Total			Metropolitan			Nonmetropolitan		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>6</sup> (percent)		Mean	Relative error <sup>6</sup> (percent)		Mean	Relative error <sup>6</sup> (percent)	
<b>Blue collar –Continued</b>									
<b>Precision production, craft, and repair –Continued</b>									
Sheet metal workers .....	\$12.20	3.2	40.0	\$12.20	3.2	40.0	–	–	–
Electrical and electronic equipment assemblers .....	–	–	–	7.76	2.6	39.1	–	–	–
Butchers and meat cutters .....	9.88	4.8	40.0	9.44	3.4	40.0	–	–	–
Inspectors, testers, and graders .....	13.87	5.1	38.8	13.87	5.1	38.8	–	–	–
Water and sewer treatment plant operators .....	11.75	8.0	40.0	13.40	2.0	40.0	–	–	–
Power plant operators .....	18.32	1.9	40.0	18.32	1.9	40.0	–	–	–
Miscellaneous plant and system operators, n.e.c. ....	18.68	1.3	40.0	18.68	1.3	40.0	–	–	–
<b>Machine operators, assemblers, and inspectors .....</b>	<b>11.12</b>	<b>5.0</b>	<b>39.9</b>	<b>12.17</b>	<b>4.0</b>	<b>39.7</b>	<b>\$10.24</b>	<b>9.2</b>	<b>40.0</b>
Punching and stamping press operators .....	11.05	1.1	40.0	11.05	1.1	40.0	–	–	–
Grinding, abrading, buffing, and polishing machine operators .....	17.13	7.6	40.0	17.13	7.6	40.0	–	–	–
Fabricating machine operators, n.e.c. ....	10.11	3.6	39.9	10.68	1.4	39.9	–	–	–
Molding and casting machine operators .....	8.56	1.2	39.4	8.56	1.2	39.4	–	–	–
Printing press operators .....	12.74	2.1	38.3	12.74	2.1	38.3	–	–	–
Winding and twisting machine operators .....	9.69	3.8	40.0	9.69	3.8	40.0	–	–	–
Textile sewing machine operators .....	7.51	2.8	40.0	8.29	1.8	40.0	–	–	–
Laundering and dry cleaning machine operators .....	6.82	2.8	37.9	6.85	3.0	38.2	–	–	–
Packaging and filling machine operators .....	–	–	–	12.76	10.2	39.7	–	–	–
Extruding and forming machine operators .....	10.79	5.3	39.6	10.79	5.3	39.6	–	–	–
Mixing and blending machine operators .....	15.59	6.6	40.0	15.59	6.6	40.0	–	–	–
Compressing and compacting machine operators ..	11.27	2.4	39.9	11.27	2.4	39.9	–	–	–
Painting and paint spraying machine operators .....	–	–	–	11.24	2.8	40.0	–	–	–
Furnace, kiln, and oven operators, except food .....	11.77	7.1	40.0	14.00	3.6	40.0	–	–	–
Slicing and cutting machine operators .....	–	–	–	12.14	3.6	39.8	–	–	–
Photographic process machine operators .....	13.35	4.6	36.8	13.35	4.6	36.8	–	–	–
Miscellaneous machine operators, n.e.c. ....	13.27	16.3	40.0	13.71	3.0	39.8	13.07	23.9	40.0
Welders and cutters .....	12.92	2.3	39.5	12.92	2.3	39.5	–	–	–
Assemblers .....	11.82	11.8	39.8	12.50	9.7	39.8	–	–	–
Miscellaneous hand working, n.e.c. ....	–	–	–	8.53	7.2	40.0	–	–	–
Production inspectors, checkers and examiners .....	9.97	10.6	40.1	13.70	5.8	40.2	–	–	–
Production testers .....	15.01	12.5	40.0	15.01	12.5	40.0	–	–	–
<b>Transportation and material moving .....</b>	<b>12.68</b>	<b>6.1</b>	<b>39.9</b>	<b>12.24</b>	<b>1.7</b>	<b>40.7</b>	<b>13.56</b>	<b>16.4</b>	<b>38.3</b>
Supervisors, motor vehicle operators .....	17.16	1.6	42.3	17.16	1.6	42.3	–	–	–
Truck drivers .....	13.16	2.0	44.4	12.18	1.1	44.0	17.22	4.3	46.2
Driver-sales workers .....	12.77	2.4	39.2	12.77	2.4	39.2	–	–	–
Bus drivers .....	10.83	3.8	25.3	11.09	5.0	29.7	10.32	5.0	19.7
Motor transportation, n.e.c. ....	9.70	6.6	39.8	9.59	7.3	39.8	–	–	–
Supervisors, material moving equipment .....	–	–	–	19.81	5.5	42.0	–	–	–
Operating engineers .....	13.77	1.4	40.0	13.77	1.4	40.0	–	–	–
Crane and tower operators .....	13.34	2.7	40.0	13.34	2.7	40.0	–	–	–
Excavating and loading machine operators .....	14.84	6.9	40.0	14.84	6.9	40.0	–	–	–
Grader, dozer, and scrapper operators .....	9.55	1.3	40.0	–	–	–	–	–	–
Industrial truck and tractor equipment operators .....	9.89	2.7	40.0	11.32	1.1	40.0	9.07	4.3	40.0
Miscellaneous material moving equipment operators, n.e.c. ....	11.38	3.0	33.3	11.40	3.1	33.0	–	–	–
<b>Handlers, equipment cleaners, helpers, and laborers ...</b>	<b>8.55</b>	<b>1.5</b>	<b>37.5</b>	<b>9.13</b>	<b>1.2</b>	<b>35.5</b>	<b>8.09</b>	<b>2.8</b>	<b>39.2</b>
Groundskeepers and gardeners, except farm .....	–	–	–	8.71	5.1	39.3	–	–	–
Supervisors, handlers, equipment cleaners, and laborers, n.e.c. ....	14.43	2.9	41.6	14.83	1.2	41.7	–	–	–
Helpers, mechanics and repairers .....	11.47	5.6	40.0	11.81	3.7	40.0	–	–	–
Helpers, construction trades .....	9.99	1.6	40.0	9.99	1.6	40.0	–	–	–
Construction laborers .....	9.27	4.2	39.6	8.81	3.7	39.5	–	–	–
Production helpers .....	8.69	10.2	40.0	8.53	7.6	40.0	–	–	–
Garbage collectors .....	8.52	3.9	40.0	8.52	3.9	40.0	–	–	–
Stock handlers and baggers .....	7.58	3.0	33.4	7.77	2.5	30.0	7.36	5.6	38.4
Machine feeders and offbearers .....	10.04	6.8	39.8	9.55	4.1	39.0	–	–	–
Freight, stock, and material handlers, n.e.c. ....	8.84	6.4	35.4	10.36	2.6	30.9	–	–	–

See footnotes at end of table.

Table 4-11. East South Central census division:<sup>1</sup> Mean hourly earnings<sup>2</sup> and weekly hours by metropolitan and nonmetropolitan areas<sup>3</sup> for selected occupations, National Compensation Survey,<sup>4</sup> 1998—Continued

Occupation <sup>5</sup>	Total			Metropolitan			Nonmetropolitan		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>6</sup> (percent)		Mean	Relative error <sup>6</sup> (percent)		Mean	Relative error <sup>6</sup> (percent)	
<b>Blue collar—Continued</b>									
<b>Handlers, equipment cleaners, helpers, and laborers—Continued</b>									
Garage and service station related .....	\$7.22	0.6	37.8	\$7.22	0.6	37.8	—	—	—
Vehicle washers and equipment cleaners .....	9.00	6.2	26.2	9.28	5.8	37.3	—	—	—
Hand packers and packagers .....	7.72	3.3	39.2	8.18	1.5	38.3	—	—	—
Laborers, except construction, n.e.c. ....	8.50	2.3	39.4	9.00	3.0	39.0	\$7.81	2.1	40.0
<b>Service</b>									
Protective service .....	7.63	.7	36.2	8.11	1.6	33.6	—	—	—
Supervisors, firefighters and fire prevention .....	10.52	1.2	40.2	11.87	1.4	40.1	—	—	—
Supervisors, police and detectives .....	15.40	7.1	52.3	17.28	.0	51.9	—	—	—
Supervisors, guards .....	18.14	3.9	40.1	18.78	3.6	40.1	—	—	—
Firefighting .....	12.87	2.7	37.9	12.87	2.7	37.9	—	—	—
Police and detectives, public service .....	11.43	2.9	52.1	11.55	3.4	52.2	—	—	—
Sheriffs, bailiffs, and other law enforcement officers .....	14.21	2.7	38.7	14.45	2.9	38.5	—	—	—
Correctional institution officers .....	11.45	3.4	40.0	14.04	2.2	39.4	10.54	4.1	40.2
Guards and police, except public service .....	10.78	1.4	39.8	11.15	1.9	39.8	—	—	—
Protective service, n.e.c. ....	—	—	—	7.54	1.4	36.5	—	—	—
Food service .....	9.59	2.8	35.4	9.99	1.6	36.2	—	—	—
Supervisors, food preparation and service .....	5.79	.5	35.8	6.12	1.8	30.1	—	—	—
Bartenders .....	9.71	4.1	36.7	10.56	1.2	38.7	7.21	9.2	32.0
Waiters and waitresses .....	5.48	5.9	30.1	5.12	5.7	31.3	—	—	—
Cooks .....	—	—	—	2.88	4.5	28.2	—	—	—
Food counter, fountain, and related .....	7.60	2.3	34.2	8.24	1.5	34.3	6.23	2.4	34.2
Kitchen workers, food preparation .....	5.75	1.0	27.0	5.72	.6	27.0	—	—	—
Waiters/Waitresses' assistants .....	7.43	5.3	33.5	8.07	1.7	34.3	6.57	10.3	32.6
Food preparation, n.e.c. ....	5.18	6.1	23.3	5.18	7.1	24.5	—	—	—
Health service .....	—	—	—	5.64	1.1	29.0	—	—	—
Health aides, except nursing .....	7.51	2.0	36.4	8.06	1.5	36.4	6.40	1.5	36.5
Nursing aides, orderlies and attendants .....	8.67	4.0	33.8	9.35	1.6	35.5	—	—	—
Cleaning and building service .....	7.25	2.1	37.1	7.75	1.5	36.5	6.25	2.3	38.1
Supervisors, cleaning and building service workers .....	7.95	1.8	37.8	8.22	3.4	35.7	—	—	—
Maids and housemen .....	—	—	—	11.18	7.2	39.5	—	—	—
Janitors and cleaners .....	6.34	2.9	38.2	6.63	2.5	37.5	—	—	—
Personal service .....	7.87	2.4	35.4	8.20	2.5	34.8	6.68	1.6	37.5
Supervisors, personal service .....	—	—	—	7.40	2.0	27.3	—	—	—
Attendants, amusement, and recreation facilities .....	—	—	—	8.96	.0	27.5	—	—	—
Baggage porters and bellhops .....	—	—	—	6.40	.5	21.5	—	—	—
Early childhood teachers' assistants .....	7.53	2.8	32.2	7.53	2.8	32.2	—	—	—
Child care workers, n.e.c. ....	7.49	5.5	32.5	7.89	4.7	29.0	—	—	—
Service, n.e.c. ....	6.63	5.0	31.7	7.70	.4	26.2	—	—	—
	—	—	—	6.90	4.2	29.9	—	—	—

<sup>1</sup> The East South Central census division consists of Kentucky, Tennessee, Alabama, and Mississippi. It also includes the Louisville, KY Metropolitan Statistical Area, which is comprised of parts of Kentucky and Indiana.

<sup>2</sup> 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.

<sup>3</sup> Metropolitan areas can be a Metropolitan Statistical Area (MSA) or Consolidated Metropolitan Statistical Area (CMSA) as defined by the Office of Management and Budget,

1994. Nonmetropolitan areas are counties that do not fit the definitions above. For more information, see appendix E.

<sup>4</sup> In this census division, collection was conducted between June 1998 and April 1999. The average reference period was November 1998.

<sup>5</sup> A classification system including about 480 individual occupations is used to cover all workers in the civilian economy. For more information, see appendix B.

<sup>6</sup> 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 4-12. West South Central census division:<sup>1</sup> Mean hourly earnings<sup>2</sup> and weekly hours by metropolitan and nonmetropolitan areas<sup>3</sup> for selected occupations, National Compensation Survey,<sup>4</sup> 1998

Occupation <sup>5</sup>	Total			Metropolitan			Nonmetropolitan		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>6</sup> (percent)		Mean	Relative error <sup>6</sup> (percent)		Mean	Relative error <sup>6</sup> (percent)	
All .....	\$14.62	1.8	37.2	\$14.86	2.1	37.2	\$13.08	5.6	37.1
All excluding sales .....	14.74	1.8	37.4	15.01	2.1	37.5	13.15	5.6	37.3
<b>White collar</b> .....	18.12	1.4	37.7	18.25	1.5	37.7	17.07	3.9	37.1
White collar excluding sales .....	18.88	1.3	38.3	19.07	1.4	38.4	17.39	3.9	37.8
<b>Professional specialty and technical</b> .....	22.11	1.2	37.7	22.50	1.4	37.8	19.73	2.3	37.3
Professional specialty .....	23.69	1.2	37.7	24.12	1.1	37.7	21.25	3.6	37.4
Engineers, architects, and surveyors .....	30.21	2.3	40.7	30.75	1.8	40.8	24.93	7.0	40.0
Petroleum engineers .....	43.08	4.9	40.2	42.72	5.8	40.2	—	—	—
Chemical engineers .....	34.75	4.1	40.3	34.75	4.1	40.3	—	—	—
Civil engineers .....	31.74	8.8	41.9	31.75	8.9	42.0	—	—	—
Electrical and electronic engineers .....	29.58	1.8	40.4	29.58	1.8	40.4	—	—	—
Industrial engineers .....	25.10	3.4	41.6	25.55	3.6	41.9	—	—	—
Mechanical engineers .....	27.05	3.3	41.1	27.05	3.3	41.1	—	—	—
Engineers, n.e.c. ....	30.62	5.0	40.7	32.12	2.5	40.8	—	—	—
Mathematical and computer scientists .....	26.69	2.2	40.2	27.19	1.9	40.3	—	—	—
Computer systems analysts and scientists .....	27.01	2.4	40.2	27.62	2.1	40.2	—	—	—
Operations and systems researchers and analysts .....	26.20	4.3	41.1	26.20	4.3	41.1	—	—	—
Natural scientists .....	26.36	5.9	40.0	26.72	5.9	40.0	—	—	—
Geologists and geodesists .....	37.94	9.1	40.2	38.93	9.2	40.2	—	—	—
Physical scientists, n.e.c. ....	19.79	3.1	40.0	20.00	3.0	40.0	—	—	—
Biological and life scientists .....	24.52	17.9	40.0	24.52	17.9	40.0	—	—	—
Medical scientists .....	16.27	17.7	39.7	16.27	17.7	39.7	—	—	—
Health related .....	20.10	1.2	36.1	20.57	1.2	36.1	16.87	4.0	36.2
Physicians .....	28.11	17.5	44.3	28.11	17.5	44.3	—	—	—
Registered nurses .....	19.33	.9	35.9	19.76	.9	35.9	16.75	2.4	35.8
Pharmacists .....	26.10	2.1	39.0	26.10	2.1	39.0	—	—	—
Dietitians .....	14.91	11.2	40.0	17.40	3.8	40.0	—	—	—
Respiratory therapists .....	16.41	3.5	33.9	16.07	3.1	33.3	—	—	—
Occupational therapists .....	19.87	1.9	36.2	19.87	1.9	36.2	—	—	—
Physical therapists .....	21.47	5.9	37.6	21.47	5.9	37.6	—	—	—
Speech therapists .....	24.68	2.8	35.2	24.94	2.9	34.9	—	—	—
Therapists, n.e.c. ....	18.97	17.9	30.7	19.71	18.3	30.1	—	—	—
Teachers, college and university .....	31.82	3.5	33.4	32.66	3.7	33.3	25.42	4.1	34.1
Mathematical science teachers .....	27.87	5.6	35.9	30.06	3.3	34.1	—	—	—
Computer science teachers .....	24.69	1.6	19.5	—	—	—	—	—	—
Medical science teachers .....	39.45	4.4	37.5	39.45	4.4	37.5	—	—	—
Health specialties teachers .....	22.77	6.1	34.0	22.77	6.1	34.0	—	—	—
Business, commerce, and marketing teachers .....	27.91	8.8	37.3	27.91	8.8	37.3	—	—	—
English teachers .....	20.73	13.8	26.2	—	—	—	—	—	—
Trade and industrial teachers .....	21.90	9.6	35.3	20.13	15.1	32.2	—	—	—
Teachers, post secondary, subject not specified .....	47.13	8.4	32.5	47.63	8.3	36.6	—	—	—
Teachers, post secondary, n.e.c. ....	27.11	1.5	32.8	27.02	1.8	31.9	—	—	—
Teachers, except college and university .....	22.88	1.3	37.2	22.87	.7	37.2	22.92	5.0	37.0
Prekindergarten and kindergarten .....	21.52	6.7	37.6	20.82	7.2	37.4	—	—	—
Elementary school teachers .....	23.00	1.5	38.1	23.05	.6	38.4	22.80	6.1	37.4
Secondary school teachers .....	23.69	1.9	38.1	23.87	.7	38.4	23.38	5.1	37.6
Teachers, special education .....	23.43	1.5	37.5	22.95	1.0	37.4	—	—	—
Teachers, n.e.c. ....	20.66	4.5	34.8	21.44	2.7	35.6	—	—	—
Substitute teachers .....	7.58	3.4	17.2	7.73	3.0	16.9	—	—	—
Vocational and educational counselors .....	24.61	3.4	37.4	24.56	3.5	37.4	—	—	—
Librarians, archivists, and curators .....	16.31	5.5	38.9	16.99	4.0	38.9	—	—	—
Librarians .....	16.07	6.8	38.7	16.88	5.0	38.6	—	—	—
Social scientists and urban planners .....	20.38	3.8	38.2	20.03	3.8	38.4	—	—	—
Economists .....	23.52	12.7	40.2	23.52	12.7	40.2	—	—	—
Psychologists .....	21.67	3.8	36.3	21.07	3.8	36.5	—	—	—
Urban planners .....	22.86	2.0	40.0	22.86	2.0	40.0	—	—	—
Social, recreation, and religious workers .....	13.00	1.9	39.5	13.24	1.7	39.4	11.89	6.1	40.0
Social workers .....	13.06	1.7	39.4	13.23	1.5	39.3	12.22	6.5	40.0
Recreation workers .....	10.30	9.8	39.2	11.00	12.8	38.7	—	—	—
Lawyers and judges .....	37.43	3.5	37.8	37.38	3.4	37.6	—	—	—
Lawyers .....	37.00	3.6	37.8	37.30	3.5	37.8	—	—	—
Judges .....	43.97	9.6	36.7	39.62	13.9	34.2	—	—	—

See footnotes at end of table.

Table 4-12. **West South Central census division:**<sup>1</sup> **Mean hourly earnings**<sup>2</sup> **and weekly hours by metropolitan and nonmetropolitan areas**<sup>3</sup> **for selected occupations, National Compensation Survey,**<sup>4</sup> **1998—Continued**

Occupation <sup>5</sup>	Total			Metropolitan			Nonmetropolitan		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>6</sup> (percent)		Mean	Relative error <sup>6</sup> (percent)		Mean	Relative error <sup>6</sup> (percent)	
<b>White collar —Continued</b>									
<b>Professional specialty and technical —Continued</b>									
Professional specialty —Continued									
Writers, authors, entertainers, athletes, and professionals, n.e.c. ....									
	\$20.60	4.7	35.8	\$20.68	4.7	35.8	—	—	—
Technical writers .....	22.64	5.6	38.9	22.64	5.6	38.9	—	—	—
Designers .....	21.06	10.1	38.1	21.06	10.1	38.1	—	—	—
Actors and directors .....	27.37	35.7	40.0	27.37	35.7	40.0	—	—	—
Painters, sculptors, craft artists, and artist printmakers .....									
	11.08	6.1	35.7	—	—	—	—	—	—
Photographers .....	9.61	9.7	39.6	9.61	9.7	39.6	—	—	—
Artists, performers, and related workers, n.e.c. ....	14.99	36.3	30.2	14.99	36.3	30.2	—	—	—
Editors and reporters .....	17.49	4.7	39.5	17.49	4.7	39.5	—	—	—
Public relations specialists .....	25.66	12.2	33.6	25.66	12.2	33.6	—	—	—
Announcers .....	11.52	1.2	40.2	11.52	1.2	40.2	—	—	—
Athletes .....	18.13	21.1	16.2	18.13	21.1	16.2	—	—	—
Professional, n.e.c. ....	24.87	4.8	38.7	24.87	4.8	38.7	—	—	—
Technical .....	16.86	3.7	37.8	17.29	4.0	37.9	\$13.96	10.9	36.9
Clinical laboratory technologists and technicians ....	13.53	3.1	37.5	13.40	3.4	37.2	—	—	—
Health record technologists and technicians .....	12.11	7.4	38.5	12.16	7.5	38.4	—	—	—
Radiological technicians .....	14.85	2.9	37.4	15.53	3.3	39.6	12.75	.9	31.9
Licensed practical nurses .....	12.15	1.7	37.2	12.55	1.7	37.7	11.03	1.5	35.8
Health technologists and technicians, n.e.c. ....	12.38	2.3	36.5	12.30	2.2	35.9	—	—	—
Electrical and electronic technicians .....	17.66	1.4	39.7	17.84	1.1	39.7	—	—	—
Mechanical engineering technicians .....	22.60	8.3	41.8	22.60	8.3	41.8	—	—	—
Engineering technicians, n.e.c. ....	16.97	3.5	40.0	17.19	3.4	40.0	—	—	—
Drafters .....	18.82	6.7	39.9	19.03	6.6	40.1	—	—	—
Surveying and mapping technicians .....	14.65	6.2	40.0	14.65	6.2	40.0	—	—	—
Biological technicians .....	12.25	6.2	40.0	12.25	6.2	40.0	—	—	—
Chemical technicians .....	19.04	5.4	40.1	19.04	5.4	40.1	—	—	—
Science technicians, n.e.c. ....	16.01	13.8	40.0	16.01	13.8	40.0	—	—	—
Airplane pilots and navigators .....	63.43	24.7	27.9	83.57	16.1	23.7	—	—	—
Broadcast equipment operators .....	10.33	20.1	37.5	10.33	20.1	37.5	—	—	—
Computer programmers .....	20.21	3.3	39.8	20.21	3.3	39.8	—	—	—
Legal assistants .....	16.97	3.2	40.4	16.97	3.2	40.4	—	—	—
Technical and related, n.e.c. ....	16.12	5.9	39.9	16.12	5.9	39.9	—	—	—
<b>Executive, administrative, and managerial .....</b>									
	26.82	1.3	40.3	27.07	1.4	40.5	24.34	6.8	38.3
Executives, administrators, and managers .....									
	30.24	1.7	40.4	30.72	1.8	40.7	26.13	6.4	37.9
Legislators .....	5.22	.0	37.1	5.22	.0	37.1	—	—	—
Administrators and officials, public administration ...	24.47	4.3	38.3	25.10	3.5	40.4	—	—	—
Financial managers .....	31.11	4.2	40.6	31.27	4.2	40.6	—	—	—
Personnel and labor relations managers .....	32.51	4.9	39.7	32.36	5.8	40.0	—	—	—
Purchasing managers .....	31.14	5.4	40.4	29.58	4.7	40.5	—	—	—
Managers, marketing, advertising, and public relations .....									
	35.22	3.9	40.5	35.22	3.9	40.5	—	—	—
Administrators, education and related fields .....	30.14	3.0	39.7	30.42	3.0	40.3	29.24	8.4	37.8
Managers, medicine and health .....	24.05	5.7	39.9	25.79	3.2	39.8	—	—	—
Managers, food servicing and lodging establishments .....									
	17.69	16.4	41.2	17.69	16.4	41.2	—	—	—
Managers, properties and real estate .....	27.63	10.1	39.8	27.63	10.1	39.8	—	—	—
Managers, service organizations, n.e.c. ....	21.89	10.0	39.7	21.89	10.0	39.7	—	—	—
Managers and administrators, n.e.c. ....	33.17	2.5	41.2	34.03	2.2	41.3	26.46	8.2	40.4
Management related .....	21.36	1.8	40.1	21.47	1.9	40.2	19.72	10.3	39.5
Accountants and auditors .....	20.46	1.9	40.3	20.40	1.9	40.3	—	—	—
Underwriters .....	20.98	7.2	40.0	20.98	7.2	40.0	—	—	—
Other financial officers .....	25.39	5.2	41.5	25.24	5.5	41.6	—	—	—
Management analysts .....	24.33	4.3	40.1	24.33	4.3	40.1	—	—	—
Personnel, training, and labor relations specialists ..	20.05	4.6	40.2	19.91	3.3	40.2	—	—	—
Buyers, wholesale and retail trade, except farm products .....									
	26.92	21.9	40.6	26.92	21.9	40.6	—	—	—
Purchasing agents and buyers, n.e.c. ....	21.27	4.5	40.2	21.27	4.5	40.2	—	—	—
Construction inspectors .....	15.77	8.4	40.0	17.35	4.7	40.0	—	—	—

See footnotes at end of table.

Table 4-12. **West South Central census division:**<sup>1</sup> **Mean hourly earnings**<sup>2</sup> **and weekly hours by metropolitan and nonmetropolitan areas**<sup>3</sup> **for selected occupations, National Compensation Survey,**<sup>4</sup> **1998–Continued**

Occupation <sup>5</sup>	Total			Metropolitan			Nonmetropolitan		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>6</sup> (percent)		Mean	Relative error <sup>6</sup> (percent)		Mean	Relative error <sup>6</sup> (percent)	
<b>White collar –Continued</b>									
<b>Executive, administrative, and managerial –Continued</b>									
Management related –Continued									
Inspectors and compliance officers, except construction .....	\$19.03	6.3	40.1	\$18.95	2.5	40.1	–	–	–
Management related, n.e.c. ....	21.17	3.4	39.2	21.54	3.3	39.3	–	–	–
<b>Sales</b> .....	13.00	3.1	33.8	13.13	3.2	34.2	\$8.94	4.3	26.0
Supervisors, sales .....	18.45	3.8	40.9	18.62	3.9	40.9	–	–	–
Insurance sales .....	58.35	42.1	40.2	58.35	42.1	40.2	–	–	–
Real estate sales .....	23.94	18.1	40.0	24.23	18.3	40.0	–	–	–
Securities and financial services sales .....	15.82	11.3	39.4	15.82	11.3	39.4	–	–	–
Advertising and related sales .....	23.54	9.4	37.4	23.54	9.4	37.4	–	–	–
Sales, other business services .....	15.54	9.5	35.9	15.54	9.5	35.9	–	–	–
Sales engineers .....	31.99	3.9	44.6	31.99	3.9	44.6	–	–	–
Sales representatives, mining, manufacturing, and wholesale .....	19.48	9.2	41.1	19.48	9.2	41.1	–	–	–
Sales workers, motor vehicles and boats .....	19.33	8.7	46.2	19.33	8.7	46.2	–	–	–
Sales workers, apparel .....	8.34	2.6	26.5	8.34	2.6	26.5	–	–	–
Sales workers, shoes .....	8.89	11.0	23.8	8.89	11.0	23.8	–	–	–
Sales workers, furniture and home furnishings .....	14.64	18.9	33.8	14.64	18.9	33.8	–	–	–
Sales workers, radio, tv, hi-fi, and appliances .....	9.57	18.4	36.5	9.57	18.4	36.5	–	–	–
Sales workers, hardware and building supplies .....	9.73	6.2	35.6	9.73	6.2	35.6	–	–	–
Sales workers, parts .....	16.83	6.4	42.0	16.83	6.4	42.0	–	–	–
Sales workers, other commodities .....	10.82	4.6	33.6	10.92	4.7	33.6	–	–	–
Sales counter clerks .....	7.69	5.1	28.5	7.70	5.2	29.8	–	–	–
Cashiers .....	6.93	1.2	28.6	6.91	1.0	29.3	7.15	7.9	23.0
Demonstrators, promoters, and models, sales .....	9.55	8.5	27.9	9.55	8.5	27.9	–	–	–
Sales support, n.e.c. ....	11.29	5.0	38.6	11.29	5.0	38.6	–	–	–
<b>Administrative support, including clerical</b> .....	10.74	1.3	38.2	10.88	1.5	38.1	9.40	3.3	38.4
Supervisors, general office .....	14.88	3.0	39.9	14.85	3.1	39.9	–	–	–
Supervisors, computer equipment operators .....	17.63	5.4	40.0	17.63	5.4	40.0	–	–	–
Supervisors, financial records processing .....	16.81	5.3	40.0	16.81	5.3	40.0	–	–	–
Supervisors, distribution, scheduling, and adjusting clerks .....	17.91	5.2	40.2	17.91	5.2	40.2	–	–	–
Computer operators .....	12.12	4.3	38.9	12.12	4.3	38.9	–	–	–
Peripheral equipment operators .....	10.40	8.0	40.0	10.40	8.0	40.0	–	–	–
Secretaries .....	11.85	2.4	39.2	12.21	1.7	39.2	9.72	10.8	39.1
Stenographers .....	14.61	5.5	39.1	14.61	5.5	39.1	–	–	–
Typists .....	9.98	2.3	38.1	10.02	2.3	38.0	–	–	–
Interviewers .....	8.67	7.1	37.2	8.81	7.6	36.7	–	–	–
Hotel clerks .....	7.12	4.0	36.9	7.12	4.0	36.9	–	–	–
Transportation ticket and reservation agents .....	11.98	5.3	37.5	11.98	5.3	37.5	–	–	–
Receptionists .....	8.44	2.7	35.9	8.59	2.4	36.0	–	–	–
Information clerks, n.e.c. ....	10.04	2.9	38.2	10.04	2.9	38.2	–	–	–
Correspondence clerks .....	15.47	6.3	40.0	15.47	6.3	40.0	–	–	–
Order clerks .....	10.77	4.0	38.0	10.97	4.5	37.9	–	–	–
Personnel clerks, except payroll and timekeeping .....	10.42	3.8	34.0	10.42	3.8	34.0	–	–	–
Library clerks .....	8.74	3.5	33.1	9.20	2.9	31.8	–	–	–
File clerks .....	8.88	5.9	36.7	8.88	5.9	36.7	–	–	–
Records clerks, n.e.c. ....	9.50	2.7	38.6	9.94	3.0	38.4	7.59	5.3	39.6
Bookkeepers, accounting and auditing clerks .....	10.33	2.7	39.1	10.16	2.0	39.2	11.72	10.8	37.8
Payroll and timekeeping clerks .....	11.80	3.8	40.1	11.80	3.8	40.1	–	–	–
Billing clerks .....	10.78	5.3	40.0	10.87	5.7	40.0	–	–	–
Cost and rate clerks .....	11.90	17.0	40.0	11.90	17.0	40.0	–	–	–
Billing, posting, and calculating machine operators .....	9.60	14.7	33.6	10.98	12.0	31.6	–	–	–
Duplicating machine operators .....	9.20	3.4	34.4	9.20	3.4	34.4	–	–	–
Telephone operators .....	9.69	7.7	39.1	9.69	7.7	39.1	–	–	–
Mail clerks, except postal service .....	8.18	3.4	37.4	8.18	3.4	37.4	–	–	–
Messengers .....	8.80	8.0	37.1	8.80	8.0	37.1	–	–	–
Dispatchers .....	10.58	4.8	38.7	11.07	5.2	39.7	–	–	–
Production coordinators .....	13.25	4.0	40.0	14.09	4.1	40.0	–	–	–

See footnotes at end of table.

Table 4-12. West South Central census division:<sup>1</sup> Mean hourly earnings<sup>2</sup> and weekly hours by metropolitan and nonmetropolitan areas<sup>3</sup> for selected occupations, National Compensation Survey,<sup>4</sup> 1998–Continued

Occupation <sup>5</sup>	Total			Metropolitan			Nonmetropolitan		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>6</sup> (percent)		Mean	Relative error <sup>6</sup> (percent)		Mean	Relative error <sup>6</sup> (percent)	
<b>White collar –Continued</b>									
<b>Administrative support, including clerical –Continued</b>									
Traffic, shipping and receiving clerks .....	\$9.85	4.4	38.4	\$10.18	3.6	38.2	–	–	–
Stock and inventory clerks .....	9.61	2.2	39.3	9.65	2.4	39.2	–	–	–
Meter readers .....	10.63	6.2	39.7	10.63	6.2	39.7	–	–	–
Weighers, measurers, checkers, and samplers .....	11.72	7.5	40.0	11.72	7.5	40.0	–	–	–
Expeditors .....	14.10	7.4	40.0	14.10	7.4	40.0	–	–	–
Material recording, scheduling, and distribution clerks, n.e.c. ....	9.00	3.5	39.9	9.00	3.5	39.9	–	–	–
Insurance adjusters, examiners, and investigators ..	14.09	7.5	39.3	14.09	7.5	39.3	–	–	–
Investigators and adjusters, except insurance .....	13.21	4.8	39.1	13.21	4.8	39.1	–	–	–
Eligibility clerks, social welfare .....	9.34	4.1	39.1	9.34	4.1	39.1	–	–	–
Bill and account collectors .....	12.04	5.5	38.0	12.27	6.1	39.6	–	–	–
General office clerks .....	9.97	1.9	37.0	10.02	2.0	36.8	\$9.35	7.2	40.0
Bank tellers .....	8.79	5.6	31.2	8.89	5.7	31.1	–	–	–
Data entry keyers .....	9.23	2.1	38.5	9.24	2.1	38.4	–	–	–
Statistical clerks .....	9.58	10.1	39.2	9.48	3.3	39.0	–	–	–
Teachers' aides .....	8.43	3.2	38.2	8.40	3.6	38.3	8.57	4.0	37.5
Administrative support, n.e.c. ....	10.60	2.6	37.6	10.78	2.7	37.3	9.09	5.9	40.0
<b>Blue collar .....</b>	<b>11.96</b>	<b>2.6</b>	<b>38.7</b>	<b>11.93</b>	<b>2.5</b>	<b>38.6</b>	<b>12.11</b>	<b>8.9</b>	<b>39.3</b>
<b>Precision production, craft, and repair .....</b>									
Supervisors, mechanics and repairers .....	21.52	2.9	40.6	21.83	3.5	40.7	–	–	–
Automobile mechanics .....	15.71	3.0	41.6	15.78	3.0	41.6	–	–	–
Automobile mechanic apprentices .....	10.87	16.9	40.0	10.87	16.9	40.0	–	–	–
Bus, truck, and stationary engine mechanics .....	13.26	5.9	40.2	13.98	3.5	40.3	–	–	–
Aircraft engine mechanics .....	20.15	12.6	40.0	17.02	5.1	40.0	–	–	–
Automobile body and related repairers .....	15.03	7.3	41.3	15.03	7.3	41.3	–	–	–
Aircraft mechanics, except engine .....	18.31	5.2	40.4	18.31	5.2	40.4	–	–	–
Heavy equipment mechanics .....	14.85	1.7	40.5	14.94	1.7	40.5	–	–	–
Industrial machinery repairers .....	16.17	6.6	40.0	15.68	2.3	40.0	–	–	–
Machinery maintenance .....	11.19	4.3	40.0	12.24	8.5	40.0	–	–	–
Electronic repairers, communications and industrial equipment .....	17.01	7.8	38.3	17.01	7.8	38.3	–	–	–
Data processing equipment repairers .....	15.53	8.4	40.0	16.56	10.3	40.0	–	–	–
Telephone line installers and repairers .....	15.69	2.1	40.0	15.69	2.1	40.0	–	–	–
Telephone installers and repairers .....	17.30	9.8	40.0	17.44	10.0	40.0	–	–	–
Heating, air conditioning, and refrigeration mechanics .....	15.11	3.8	40.0	15.11	3.8	40.0	–	–	–
Office machine repairers .....	16.85	9.3	40.0	16.85	9.3	40.0	–	–	–
Mechanics and repairers, n.e.c. ....	14.65	3.1	38.8	14.35	2.8	39.7	17.37	15.5	32.1
Supervisors, carpenters and related workers .....	17.44	4.5	42.3	17.44	4.5	42.3	–	–	–
Supervisors, electricians and power transmission installers .....	19.76	4.5	40.0	20.69	3.2	40.0	–	–	–
Supervisors, plumbers, pipefitters, and steamfitters .....	15.43	5.5	40.0	15.43	5.5	40.0	–	–	–
Supervisors, construction trades, n.e.c. ....	14.02	6.8	40.4	14.81	5.8	40.6	–	–	–
Carpenters .....	13.01	4.8	39.2	13.22	4.9	39.1	–	–	–
Electricians .....	17.16	5.3	40.0	16.60	2.8	40.0	–	–	–
Electrician apprentices .....	9.06	10.6	40.0	9.06	10.6	40.0	–	–	–
Electrical power installers and repairers .....	19.41	8.1	40.0	22.16	1.4	40.0	–	–	–
Painters, construction and maintenance .....	11.07	3.4	40.0	11.07	3.4	40.0	–	–	–
Plumbers, pipefitters and steamfitters .....	14.63	4.1	40.0	15.08	3.1	40.0	–	–	–
Plumber, pipefitter, and steamfitter apprentices .....	10.77	10.3	40.0	10.77	10.3	40.0	–	–	–
Concrete and terrazzo finishers .....	11.10	3.6	40.6	10.99	4.0	40.6	–	–	–
Insulation workers .....	11.54	6.2	33.7	11.54	6.2	33.7	–	–	–
Structural metal workers .....	14.53	3.2	40.0	14.53	3.2	40.0	–	–	–
Construction trades, n.e.c. ....	11.52	5.4	39.9	11.64	5.8	39.8	–	–	–
Supervisors, extractive .....	16.45	14.0	39.1	–	–	–	–	–	–
Drillers, oil well .....	16.20	1.1	41.4	16.20	1.1	41.4	–	–	–
Mining, n.e.c. ....	20.04	3.2	40.1	–	–	–	20.60	2.3	40.0
Supervisors, production .....	19.73	3.1	40.3	20.23	2.9	40.3	–	–	–
Precision assemblers, metal .....	13.83	8.9	40.0	13.83	8.9	40.0	–	–	–

See footnotes at end of table.

Table 4-12. **West South Central census division:<sup>1</sup> Mean hourly earnings<sup>2</sup> and weekly hours by metropolitan and nonmetropolitan areas<sup>3</sup> for selected occupations, National Compensation Survey,<sup>4</sup> 1998–Continued**

Occupation <sup>5</sup>	Total			Metropolitan			Nonmetropolitan		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>6</sup> (percent)		Mean	Relative error <sup>6</sup> (percent)		Mean	Relative error <sup>6</sup> (percent)	
<b>Blue collar –Continued</b>									
<b>Precision production, craft, and repair –Continued</b>									
Machinists .....	\$16.52	4.2	39.7	\$16.52	4.2	39.7	–	–	–
Boilermakers .....	18.01	5.1	40.0	18.01	5.1	40.0	–	–	–
Sheet metal workers .....	14.92	8.7	40.0	14.92	8.7	40.0	–	–	–
Cabinet makers and bench carpenters .....	9.56	.6	40.0	9.56	.6	40.0	–	–	–
Electrical and electronic equipment assemblers .....	9.52	2.7	40.0	9.92	2.9	40.0	–	–	–
Miscellaneous precision workers, n.e.c. ....	15.81	20.7	38.6	9.15	13.4	37.0	–	–	–
Bakers .....	8.08	2.6	37.6	8.35	2.2	36.5	–	–	–
Food batchmakers .....	7.78	6.5	37.1	7.78	6.5	37.1	–	–	–
Inspectors, testers, and graders .....	15.76	4.7	41.2	15.09	3.1	41.3	–	–	–
Water and sewer treatment plant operators .....	11.99	6.9	39.5	11.99	6.9	39.5	–	–	–
Power plant operators .....	19.13	4.3	40.0	19.13	4.3	40.0	–	–	–
Stationary engineers .....	12.67	4.6	40.0	12.67	4.6	40.0	–	–	–
Miscellaneous plant and system operators, n.e.c. ....	21.57	1.9	39.9	22.06	1.4	39.9	–	–	–
<b>Machine operators, assemblers, and inspectors .....</b>	<b>10.12</b>	<b>3.4</b>	<b>39.6</b>	<b>10.26</b>	<b>3.9</b>	<b>39.5</b>	<b>\$9.27</b>	<b>8.5</b>	<b>39.9</b>
Lathe and turning machine operators .....	11.40	8.0	40.0	11.40	8.0	40.0	–	–	–
Punching and stamping press operators .....	–	–	–	9.14	7.5	40.0	–	–	–
Grinding, abrading, buffing, and polishing machine operators .....	10.02	7.0	40.0	9.09	12.1	40.0	–	–	–
Numerical control machine operators .....	14.87	5.9	40.0	14.87	5.9	40.0	–	–	–
Fabricating machine operators, n.e.c. ....	13.44	8.1	40.0	12.24	6.1	40.0	–	–	–
Molding and casting machine operators .....	12.15	9.4	40.0	10.03	7.4	40.0	–	–	–
Printing press operators .....	12.48	6.3	39.8	12.48	6.3	39.8	–	–	–
Photoengravers and lithographers .....	15.40	6.1	39.8	15.40	6.1	39.8	–	–	–
Textile sewing machine operators .....	7.19	2.2	40.0	7.19	2.2	40.0	–	–	–
Pressing machine operators .....	7.55	9.0	39.9	7.55	9.0	39.9	–	–	–
Laundering and dry cleaning machine operators .....	6.79	2.9	39.6	6.94	2.5	39.6	–	–	–
Packaging and filling machine operators .....	8.19	8.6	40.0	10.29	3.3	40.0	–	–	–
Mixing and blending machine operators .....	10.27	14.7	40.0	10.27	14.7	40.0	–	–	–
Separating, filtering, and clarifying machine operators .....	16.39	6.1	40.2	16.39	6.1	40.2	–	–	–
Painting and paint spraying machine operators .....	12.05	3.3	40.0	12.05	3.3	40.0	–	–	–
Furnace, kiln, and oven operators, except food .....	10.20	17.3	40.0	10.20	17.3	40.0	–	–	–
Slicing and cutting machine operators .....	10.38	11.7	40.0	10.38	11.7	40.0	–	–	–
Photographic process machine operators .....	8.85	7.3	37.4	9.11	6.8	38.3	–	–	–
Miscellaneous machine operators, n.e.c. ....	10.43	3.2	39.8	10.72	3.9	39.8	9.48	6.4	40.0
Welders and cutters .....	11.79	3.8	40.0	11.76	3.8	40.0	–	–	–
Assemblers .....	11.01	3.3	39.4	11.01	3.3	39.4	–	–	–
Hand cutting and trimming .....	6.99	8.4	38.0	6.99	8.4	38.0	–	–	–
Miscellaneous hand working, n.e.c. ....	9.46	6.5	33.7	8.80	6.1	31.5	–	–	–
Production inspectors, checkers and examiners .....	10.66	4.8	40.0	10.66	4.8	40.0	–	–	–
Production testers .....	9.06	15.1	39.9	11.88	8.4	39.8	–	–	–
<b>Transportation and material moving .....</b>	<b>12.57</b>	<b>2.8</b>	<b>39.6</b>	<b>12.88</b>	<b>3.0</b>	<b>39.7</b>	<b>9.97</b>	<b>1.1</b>	<b>38.7</b>
Supervisors, motor vehicle operators .....	11.75	7.5	40.9	13.16	6.5	41.7	–	–	–
Truck drivers .....	12.09	3.2	42.7	12.36	3.6	42.8	9.84	.8	41.5
Driver-sales workers .....	11.98	4.1	42.7	11.98	4.1	42.7	–	–	–
Bus drivers .....	10.97	4.4	32.6	10.99	4.7	33.4	–	–	–
Taxicab drivers and chauffeurs .....	6.57	2.7	30.8	6.57	2.7	30.8	–	–	–
Motor transportation, n.e.c. ....	6.31	6.0	27.8	6.31	6.0	27.8	–	–	–
Ship captains and mates, except fishing boats .....	15.25	4.9	48.4	15.25	4.9	48.4	–	–	–
Sailors and deckhands .....	7.49	2.9	54.5	7.49	2.9	54.5	–	–	–
Supervisors, material moving equipment .....	16.21	3.9	41.2	16.49	4.3	41.5	–	–	–
Operating engineers .....	13.65	8.7	40.0	14.30	7.9	40.0	–	–	–
Crane and tower operators .....	14.90	4.2	40.0	14.90	4.2	40.0	–	–	–
Excavating and loading machine operators .....	9.92	3.6	39.9	9.92	3.6	39.9	–	–	–
Grader, dozer, and scraper operators .....	10.14	4.3	40.0	11.03	6.0	40.2	9.77	4.7	40.0
Industrial truck and tractor equipment operators .....	10.35	3.6	40.4	10.35	3.6	40.4	–	–	–
Miscellaneous material moving equipment operators, n.e.c. ....	14.42	12.5	39.5	14.87	12.0	39.5	–	–	–

See footnotes at end of table.



Table 4-12. West South Central census division:<sup>1</sup> Mean hourly earnings<sup>2</sup> and weekly hours by metropolitan and nonmetropolitan areas<sup>3</sup> for selected occupations, National Compensation Survey,<sup>4</sup> 1998—Continued

Occupation <sup>5</sup>	Total			Metropolitan			Nonmetropolitan		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>6</sup> (percent)		Mean	Relative error <sup>6</sup> (percent)		Mean	Relative error <sup>6</sup> (percent)	
<b>Blue collar—Continued</b>									
<b>Handlers, equipment cleaners, helpers, and laborers ...</b>	\$8.37	1.9	36.0	\$8.38	2.2	35.6	\$8.34	4.1	38.5
Supervisors, agriculture-related workers .....	10.44	10.8	38.5	10.44	10.8	38.5	—	—	—
Groundskeepers and gardeners, except farm .....	8.10	6.1	38.6	7.61	4.2	38.2	—	—	—
Animal caretakers, except farm .....	6.94	6.5	38.5	6.94	6.5	38.5	—	—	—
Supervisors, handlers, equipment cleaners, and laborers, n.e.c. ....	13.40	2.7	38.4	13.14	3.5	37.6	—	—	—
Helpers, mechanics and repairers .....	9.08	4.1	39.2	9.33	4.1	39.0	—	—	—
Helpers, construction trades .....	8.37	4.7	39.5	8.37	4.7	39.5	—	—	—
Construction laborers .....	7.57	2.0	39.8	7.68	1.9	39.7	—	—	—
Production helpers .....	8.57	6.3	39.9	8.57	6.5	39.9	—	—	—
Garbage collectors .....	8.87	7.2	37.2	8.87	7.2	37.2	—	—	—
Stevedores .....	14.37	15.0	40.0	14.37	15.0	40.0	—	—	—
Stock handlers and baggers .....	7.29	2.9	28.6	7.40	3.1	28.9	5.85	4.0	25.1
Machine feeders and offbearers .....	7.16	3.6	39.4	7.06	3.7	39.4	—	—	—
Freight, stock, and material handlers, n.e.c. ....	10.00	5.6	35.1	9.49	4.7	34.7	—	—	—
Garage and service station related .....	7.74	7.6	38.5	8.06	8.0	38.3	—	—	—
Vehicle washers and equipment cleaners .....	8.93	4.8	39.6	9.40	3.2	39.5	—	—	—
Hand packers and packagers .....	7.41	4.7	37.2	7.49	4.9	37.1	—	—	—
Laborers, except construction, n.e.c. ....	8.04	2.4	38.0	8.40	3.0	37.0	—	—	—
<b>Service</b> .....	7.94	2.1	33.3	8.11	2.6	33.2	7.17	2.4	33.8
Protective service .....	11.78	2.7	38.9	12.24	2.9	39.0	9.50	4.1	38.5
Supervisors, firefighters and fire prevention .....	17.95	6.2	49.1	17.95	6.2	49.1	—	—	—
Supervisors, police and detectives .....	16.49	6.6	40.1	17.88	2.6	40.2	—	—	—
Supervisors, guards .....	13.08	8.8	40.1	14.00	7.9	40.1	—	—	—
Firefighting .....	12.79	5.7	48.2	13.31	4.5	50.9	—	—	—
Police and detectives, public service .....	15.49	3.0	40.0	16.17	2.8	40.0	11.62	8.8	40.0
Sheriffs, bailiffs, and other law enforcement officers .....	13.10	4.9	39.6	14.28	3.6	39.2	—	—	—
Correctional institution officers .....	10.01	4.5	40.1	10.97	.9	40.1	8.47	3.7	40.1
Crossing guards .....	6.05	2.6	17.4	6.05	2.6	17.4	—	—	—
Guards and police, except public service .....	7.63	2.2	34.2	7.63	2.3	34.5	—	—	—
Protective service, n.e.c. ....	8.07	2.7	33.9	8.07	2.7	33.9	—	—	—
Food service .....	6.23	2.2	31.5	6.15	2.4	31.5	6.55	3.7	31.5
Supervisors, food preparation and service .....	11.03	4.9	42.0	11.08	4.3	40.4	—	—	—
Bartenders .....	5.42	4.9	29.6	5.26	5.4	31.1	—	—	—
Waiters and waitresses .....	3.32	5.7	28.7	3.33	6.3	29.6	—	—	—
Cooks .....	7.23	2.6	35.3	7.22	2.7	35.1	—	—	—
Food counter, fountain, and related .....	6.02	2.4	29.4	6.07	3.6	26.4	—	—	—
Kitchen workers, food preparation .....	6.54	2.0	33.2	6.44	2.0	31.6	6.77	3.3	37.2
Waiters'/Waitresses' assistants .....	5.65	9.2	31.6	5.63	9.7	31.3	—	—	—
Food preparation, n.e.c. ....	6.31	1.7	28.9	6.37	1.8	31.1	6.02	4.1	22.4
Health service .....	7.05	1.7	34.4	7.32	1.5	35.5	5.98	2.7	30.7
Dental assistants .....	8.37	5.2	40.0	8.37	5.2	40.0	—	—	—
Health aides, except nursing .....	8.02	1.8	36.0	8.01	1.7	35.6	—	—	—
Nursing aides, orderlies and attendants .....	6.74	2.1	33.9	7.06	1.8	35.4	5.71	2.0	29.8
Cleaning and building service .....	7.09	1.9	34.7	7.08	1.8	34.3	7.12	6.7	37.5
Supervisors, cleaning and building service workers .....	10.19	5.9	39.2	10.24	6.3	39.1	—	—	—
Maids and housemen .....	5.84	1.3	36.3	5.90	.9	37.1	—	—	—
Janitors and cleaners .....	7.09	2.0	34.1	7.02	1.8	33.3	7.44	6.1	38.7

See footnotes at end of table.

Table 4-12. West South Central census division:<sup>1</sup> Mean hourly earnings<sup>2</sup> and weekly hours by metropolitan and nonmetropolitan areas<sup>3</sup> for selected occupations, National Compensation Survey,<sup>4</sup> 1998—Continued

Occupation <sup>5</sup>	Total			Metropolitan			Nonmetropolitan		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>6</sup> (percent)		Mean	Relative error <sup>6</sup> (percent)		Mean	Relative error <sup>6</sup> (percent)	
<b>Service</b> —Continued									
Personal service .....	\$7.98	8.0	27.1	\$8.20	9.3	26.2	\$6.67	9.0	33.6
Supervisors, personal service .....	11.63	14.1	39.4	11.63	14.1	39.4	—	—	—
Attendants, amusement, and recreation facilities .....	6.98	2.6	31.8	6.93	2.3	32.2	—	—	—
Public transportation attendants .....	31.37	8.4	18.6	31.97	8.3	18.5	—	—	—
Baggage porters and bellhops .....	4.81	6.5	39.5	4.81	6.5	39.5	—	—	—
Welfare service aides .....	5.46	2.4	25.0	5.43	2.2	23.4	—	—	—
Early childhood teachers' assistants .....	7.71	3.0	29.2	7.77	2.9	28.0	—	—	—
Child care workers, n.e.c. ....	6.64	4.4	24.3	6.71	4.6	24.6	—	—	—
Service, n.e.c. ....	7.01	2.0	29.0	7.01	2.0	29.0	—	—	—

<sup>1</sup> The West South Central census division consists of Arkansas, Louisiana, Oklahoma, and Texas.

<sup>2</sup> 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.

<sup>3</sup> Metropolitan areas can be a Metropolitan Statistical Area (MSA) or Consolidated Metropolitan Statistical Area (CMSA) as defined by the Office of Management and Budget, 1994. Nonmetropolitan areas are counties that do not fit the definitions above. For more information, see appendix E.

<sup>4</sup> In this census division, collection was conducted between July 1997 and April 1999. The average reference period was August 1998.

<sup>5</sup> A classification system including about 480 individual occupations is used to cover all workers in the civilian economy. For more information, see appendix B.

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

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

Table 4-13. Mountain census division:<sup>1</sup> Mean hourly earnings<sup>2</sup> and weekly hours by metropolitan and nonmetropolitan areas<sup>3</sup> for selected occupations, National Compensation Survey,<sup>4</sup> 1998

Occupation <sup>5</sup>	Total			Metropolitan			Nonmetropolitan		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>6</sup> (percent)		Mean	Relative error <sup>6</sup> (percent)		Mean	Relative error <sup>6</sup> (percent)	
All .....	\$14.58	2.7	36.4	\$14.73	3.4	36.5	\$13.99	3.3	36.0
All excluding sales .....	14.78	2.6	36.7	14.86	3.2	36.8	14.43	2.7	36.2
<b>White collar</b> .....	17.61	3.5	36.9	17.76	4.4	37.1	16.98	3.0	36.3
White collar excluding sales .....	18.50	3.2	37.5	18.57	4.0	37.7	18.24	2.1	36.9
<b>Professional specialty and technical</b> .....	22.76	4.5	36.5	22.73	5.6	36.6	22.85	2.9	35.9
Professional specialty .....	24.66	4.0	36.6	24.67	5.1	36.6	24.63	2.5	36.5
Engineers, architects, and surveyors .....	27.70	2.1	40.6	29.20	2.0	40.5	22.19	1.5	40.8
Civil engineers .....	26.43	5.1	40.7	28.01	5.2	40.0	-	-	-
Electrical and electronic engineers .....	29.08	5.9	40.5	30.41	2.8	40.6	-	-	-
Industrial engineers .....	25.06	3.7	41.5	25.06	3.7	41.5	-	-	-
Mechanical engineers .....	23.48	4.6	40.6	24.51	4.7	41.5	-	-	-
Engineers, n.e.c. ....	30.28	8.0	40.2	32.86	3.6	40.2	-	-	-
Mathematical and computer scientists .....	25.62	5.2	40.5	25.81	5.6	40.5	-	-	-
Computer systems analysts and scientists .....	26.69	5.8	40.5	27.00	6.3	40.5	-	-	-
Operations and systems researchers and analysts .....	19.18	9.3	40.4	19.18	9.3	40.4	-	-	-
Natural scientists .....	26.88	6.0	39.5	29.07	6.6	39.3	-	-	-
Geologists and geodesists .....	31.71	11.6	40.1	35.79	4.0	40.1	-	-	-
Biological and life scientists .....	28.57	14.1	41.0	33.01	8.0	41.4	-	-	-
Medical scientists .....	24.20	9.5	34.6	24.20	9.5	34.6	-	-	-
Health related .....	22.29	8.6	34.3	20.60	6.9	35.2	29.98	11.4	30.8
Physicians .....	46.24	7.9	36.0	42.84	9.6	34.2	-	-	-
Registered nurses .....	20.44	4.9	34.3	19.11	3.7	35.2	26.74	6.3	30.5
Pharmacists .....	23.16	7.2	30.3	22.60	8.6	34.8	-	-	-
Dietitians .....	18.51	5.0	37.8	18.51	5.0	37.8	-	-	-
Respiratory therapists .....	15.59	4.9	37.1	15.59	4.9	37.1	-	-	-
Physical therapists .....	21.70	6.1	34.6	21.70	6.1	34.6	-	-	-
Speech therapists .....	16.50	25.9	36.3	13.77	22.5	35.9	-	-	-
Teachers, college and university .....	32.14	10.6	35.1	32.93	11.9	35.1	25.87	12.5	35.8
Mathematical science teachers .....	31.87	12.9	38.6	31.87	12.9	38.6	-	-	-
Computer science teachers .....	20.79	3.8	34.5	20.39	2.1	35.0	-	-	-
Health specialties teachers .....	45.92	15.9	30.4	47.75	16.2	29.7	-	-	-
Business, commerce, and marketing teachers .....	30.18	1.5	39.5	29.91	.5	39.6	-	-	-
English teachers .....	29.91	15.8	29.8	25.82	15.6	28.7	-	-	-
Theology teachers .....	40.28	3.8	43.5	40.28	3.8	43.5	-	-	-
Teachers, post secondary, subject not specified .....	21.21	4.1	38.5	-	-	-	-	-	-
Teachers, post secondary, n.e.c. ....	35.34	2.0	35.7	35.34	2.0	35.7	-	-	-
Teachers, except college and university .....	23.49	2.6	35.8	23.92	3.7	34.8	22.84	2.0	37.3
Prekindergarten and kindergarten .....	20.05	15.9	35.7	17.97	27.8	33.8	-	-	-
Elementary school teachers .....	24.40	2.7	36.6	25.63	3.1	35.9	22.82	2.8	37.6
Secondary school teachers .....	25.03	1.9	37.6	25.93	2.4	37.1	23.73	2.1	38.3
Teachers, special education .....	18.53	3.6	37.3	17.53	6.9	37.9	-	-	-
Teachers, n.e.c. ....	20.51	4.1	28.5	20.51	4.1	28.5	-	-	-
Substitute teachers .....	9.70	2.1	20.4	9.81	2.2	21.2	-	-	-
Vocational and educational counselors .....	25.18	9.5	36.9	25.11	13.4	35.9	-	-	-
Librarians, archivists, and curators .....	17.83	14.6	39.8	20.45	7.4	39.7	-	-	-
Librarians .....	17.83	14.6	39.8	20.45	7.4	39.7	-	-	-
Social scientists and urban planners .....	20.57	8.3	38.7	18.81	7.9	38.0	-	-	-
Economists .....	17.68	9.7	42.0	17.78	14.5	43.1	-	-	-
Psychologists .....	21.31	9.5	37.7	18.63	10.1	36.4	-	-	-
Social, recreation, and religious workers .....	16.07	7.0	37.5	16.07	8.5	36.9	16.05	5.3	40.0
Social workers .....	16.31	7.6	37.4	16.38	9.5	36.8	16.05	5.3	40.0
Recreation workers .....	14.21	10.8	37.6	14.21	10.8	37.6	-	-	-
Lawyers and judges .....	38.65	9.1	42.1	35.14	7.1	42.8	-	-	-
Lawyers .....	35.13	7.1	43.8	35.13	7.1	43.8	-	-	-
Writers, authors, entertainers, athletes, and professionals, n.e.c. ....	22.97	7.9	36.6	23.29	8.2	36.5	-	-	-
Technical writers .....	20.99	9.7	40.0	20.99	9.7	40.0	-	-	-
Designers .....	20.19	12.6	40.0	20.19	12.6	40.0	-	-	-
Editors and reporters .....	20.28	7.1	39.1	20.49	7.4	39.4	-	-	-
Public relations specialists .....	22.46	7.7	39.5	24.36	10.6	39.1	-	-	-
Athletes .....	8.96	16.7	19.9	8.92	17.6	19.6	-	-	-
Professional, n.e.c. ....	29.27	6.8	34.9	29.27	6.8	34.9	-	-	-
Technical .....	16.94	5.7	36.1	17.29	7.1	36.6	15.18	2.0	33.5

See footnotes at end of table.

Table 4-13. Mountain census division:<sup>1</sup> Mean hourly earnings<sup>2</sup> and weekly hours by metropolitan and nonmetropolitan areas<sup>3</sup> for selected occupations, National Compensation Survey,<sup>4</sup> 1998—Continued

Occupation <sup>5</sup>	Total			Metropolitan			Nonmetropolitan		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>6</sup> (percent)		Mean	Relative error <sup>6</sup> (percent)		Mean	Relative error <sup>6</sup> (percent)	
<b>White collar –Continued</b>									
<b>Professional specialty and technical –Continued</b>									
Technical –Continued									
Clinical laboratory technologists and technicians .....	\$14.30	9.1	38.5	\$14.16	8.9	38.6	–	–	–
Radiological technicians .....	15.71	8.7	34.3	15.71	8.7	34.3	–	–	–
Licensed practical nurses .....	12.42	3.7	32.5	12.68	4.9	32.6	\$11.58	6.3	32.1
Health technologists and technicians, n.e.c. ....	11.77	6.9	25.6	11.94	8.1	29.9	–	–	–
Electrical and electronic technicians .....	14.42	11.0	39.9	14.66	12.2	39.9	–	–	–
Engineering technicians, n.e.c. ....	18.32	4.4	38.5	19.49	2.2	38.1	–	–	–
Drafters .....	18.69	5.9	40.0	17.98	10.0	40.0	–	–	–
Surveying and mapping technicians .....	17.56	7.2	40.0	17.56	7.2	40.0	–	–	–
Biological technicians .....	15.61	4.3	39.1	15.61	4.3	39.1	–	–	–
Chemical technicians .....	16.89	4.8	40.0	16.89	4.8	40.0	–	–	–
Science technicians, n.e.c. ....	21.35	9.6	36.8	21.35	9.6	36.8	–	–	–
Airplane pilots and navigators .....	80.88	8.2	19.7	80.88	8.9	19.7	–	–	–
Computer programmers .....	21.43	5.6	40.9	21.43	5.6	40.9	–	–	–
Legal assistants .....	15.63	5.0	39.7	16.18	7.6	39.5	–	–	–
Technical and related, n.e.c. ....	18.23	4.0	40.1	17.75	5.6	40.1	–	–	–
<b>Executive, administrative, and managerial .....</b>	<b>24.18</b>	<b>3.3</b>	<b>41.1</b>	<b>24.86</b>	<b>3.9</b>	<b>41.3</b>	<b>21.79</b>	<b>4.6</b>	<b>40.5</b>
Executives, administrators, and managers .....	26.77	3.1	41.7	28.08	3.3	41.9	23.02	4.1	41.2
Administrators and officials, public administration ...	23.27	7.4	40.9	25.66	5.0	41.7	20.65	10.7	40.0
Financial managers .....	25.10	3.8	41.1	24.49	4.8	41.6	–	–	–
Personnel and labor relations managers .....	33.25	4.5	39.9	33.25	4.5	39.9	–	–	–
Purchasing managers .....	24.50	17.1	42.8	–	–	–	–	–	–
Managers, marketing, advertising, and public relations .....	26.87	6.5	42.6	26.85	6.5	42.6	–	–	–
Administrators, education and related fields .....	33.58	5.9	40.2	32.95	9.1	40.3	–	–	–
Managers, medicine and health .....	22.12	19.4	39.8	28.93	9.2	39.4	–	–	–
Managers, food servicing and lodging establishments .....	20.43	13.2	44.6	20.43	13.2	44.6	–	–	–
Managers, service organizations, n.e.c. ....	24.29	7.9	42.7	25.62	6.3	43.1	–	–	–
Managers and administrators, n.e.c. ....	27.78	6.2	42.6	30.02	4.1	42.0	17.46	7.4	45.6
Management related .....	19.02	5.0	40.0	19.32	5.5	40.4	17.20	14.6	37.9
Accountants and auditors .....	15.89	12.7	41.5	16.12	15.2	41.7	–	–	–
Underwriters .....	21.92	7.1	40.3	23.05	13.1	40.6	–	–	–
Other financial officers .....	22.77	6.6	40.8	23.48	6.9	40.9	–	–	–
Management analysts .....	19.98	8.0	40.2	19.98	8.0	40.2	–	–	–
Personnel, training, and labor relations specialists ..	17.90	4.5	41.0	17.97	4.5	41.0	–	–	–
Purchasing agents and buyers, n.e.c. ....	22.71	6.0	39.9	22.71	6.0	39.9	–	–	–
Construction inspectors .....	21.48	3.3	40.0	21.48	3.3	40.0	–	–	–
Inspectors and compliance officers, except construction .....	18.09	6.4	35.4	19.35	6.5	40.0	–	–	–
Management related, n.e.c. ....	20.20	5.1	39.4	19.56	5.0	39.3	–	–	–
<b>Sales .....</b>	<b>12.35</b>	<b>6.2</b>	<b>33.8</b>	<b>13.25</b>	<b>6.5</b>	<b>34.0</b>	<b>7.78</b>	<b>10.2</b>	<b>32.7</b>
Supervisors, sales .....	20.03	6.0	40.4	19.97	6.1	40.5	–	–	–
Insurance sales .....	19.30	10.1	39.3	19.30	10.1	39.3	–	–	–
Real estate sales .....	16.00	17.2	39.5	16.00	17.2	39.5	–	–	–
Securities and financial services sales .....	18.03	8.0	39.7	18.03	8.0	39.7	–	–	–
Advertising and related sales .....	22.52	23.6	35.1	22.52	23.6	35.1	–	–	–
Sales, other business services .....	19.20	9.7	39.6	19.20	9.7	39.6	–	–	–
Sales representatives, mining, manufacturing, and wholesale .....	22.53	8.1	41.9	22.88	8.5	42.0	–	–	–
Sales workers, motor vehicles and boats .....	17.82	10.1	46.3	17.82	10.1	46.3	–	–	–
Sales workers, apparel .....	6.35	7.3	24.8	6.49	8.6	24.8	–	–	–
Sales workers, furniture and home furnishings .....	–	–	–	12.82	27.8	27.2	–	–	–
Sales workers, hardware and building supplies .....	15.79	34.9	37.1	15.79	34.9	37.1	–	–	–
Sales workers, parts .....	15.37	9.2	38.1	15.37	9.2	38.1	–	–	–
Sales workers, other commodities .....	10.17	11.3	30.4	11.03	13.7	30.1	7.28	4.9	31.5
Sales counter clerks .....	7.97	6.4	37.2	8.70	12.5	33.9	–	–	–
Cashiers .....	8.38	4.1	33.3	8.59	4.8	32.5	7.29	7.1	38.0
Sales support, n.e.c. ....	12.17	18.6	36.8	12.91	19.3	36.7	–	–	–

See footnotes at end of table.

Table 4-13. Mountain census division:<sup>1</sup> Mean hourly earnings<sup>2</sup> and weekly hours by metropolitan and nonmetropolitan areas<sup>3</sup> for selected occupations, National Compensation Survey,<sup>4</sup> 1998—Continued

Occupation <sup>5</sup>	Total			Metropolitan			Nonmetropolitan		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>6</sup> (percent)		Mean	Relative error <sup>6</sup> (percent)		Mean	Relative error <sup>6</sup> (percent)	
<b>White collar</b> —Continued									
<b>Administrative support, including clerical</b> .....	\$11.13	2.4	37.3	\$11.32	3.0	37.5	\$10.29	1.1	36.5
Supervisors, general office .....	17.30	5.4	40.4	17.66	5.7	40.5	—	—	—
Supervisors, financial records processing .....	15.52	5.2	40.5	15.52	5.2	40.5	—	—	—
Supervisors, distribution, scheduling, and adjusting clerks .....	15.70	6.5	40.3	16.06	8.1	40.4	—	—	—
Computer operators .....	14.71	6.6	39.9	15.73	3.3	39.9	—	—	—
Secretaries .....	11.70	3.2	39.0	12.22	3.6	39.1	9.85	9.2	38.6
Stenographers .....	12.84	4.6	36.8	12.84	4.6	36.8	—	—	—
Typists .....	11.53	4.0	38.9	10.94	4.5	38.0	—	—	—
Interviewers .....	9.51	7.6	35.4	9.22	8.5	34.6	—	—	—
Hotel clerks .....	7.49	2.3	36.8	7.73	.0	40.0	—	—	—
Transportation ticket and reservation agents .....	9.80	7.5	36.1	9.80	7.5	36.1	—	—	—
Receptionists .....	8.12	3.7	36.0	8.10	4.3	35.3	—	—	—
Information clerks, n.e.c. ....	10.88	8.2	38.7	10.88	8.2	38.7	—	—	—
Correspondence clerks .....	11.62	10.1	36.7	11.62	10.1	36.7	—	—	—
Order clerks .....	9.66	7.6	38.5	9.53	7.0	38.5	—	—	—
Personnel clerks, except payroll and timekeeping .....	11.01	4.1	35.6	11.01	4.1	35.6	—	—	—
Library clerks .....	10.41	6.5	32.3	11.26	6.7	35.9	9.49	10.1	29.1
File clerks .....	8.35	8.4	32.3	8.35	8.4	32.3	—	—	—
Records clerks, n.e.c. ....	10.94	3.6	36.8	10.95	3.8	36.7	—	—	—
Bookkeepers, accounting and auditing clerks .....	10.95	3.8	38.8	10.99	4.1	38.7	—	—	—
Payroll and timekeeping clerks .....	11.28	9.0	40.0	12.77	4.3	40.0	—	—	—
Billing clerks .....	9.59	5.5	39.6	10.10	6.5	39.3	—	—	—
Cost and rate clerks .....	12.52	9.0	39.1	12.52	9.0	39.1	—	—	—
Billing, posting, and calculating machine operators .....	9.56	6.1	39.0	9.56	6.1	39.0	—	—	—
Office machine operators, n.e.c. ....	8.34	3.8	34.1	8.48	3.8	36.9	—	—	—
Telephone operators .....	11.08	16.7	38.7	13.03	9.2	38.2	—	—	—
Mail clerks, except postal service .....	10.73	3.8	36.2	10.73	3.8	36.2	—	—	—
Dispatchers .....	12.03	9.8	38.5	14.78	6.5	36.7	9.97	4.8	40.0
Production coordinators .....	13.41	5.1	34.1	13.45	7.4	32.0	—	—	—
Traffic, shipping and receiving clerks .....	11.43	5.7	40.0	11.38	5.9	40.0	—	—	—
Stock and inventory clerks .....	11.27	3.5	37.7	11.58	4.2	37.8	—	—	—
Meter readers .....	13.37	9.7	40.0	—	—	—	—	—	—
Expeditors .....	11.14	10.7	36.7	11.14	10.7	36.7	—	—	—
Insurance adjusters, examiners, and investigators ..	14.26	5.5	39.2	14.16	6.7	38.9	—	—	—
Investigators and adjusters, except insurance .....	12.25	7.9	39.5	12.59	7.7	39.4	—	—	—
Eligibility clerks, social welfare .....	14.08	3.9	39.2	14.08	3.9	39.2	—	—	—
Bill and account collectors .....	12.24	8.6	39.1	11.60	8.8	39.0	—	—	—
General office clerks .....	11.11	3.0	37.3	11.11	3.9	36.6	11.11	4.0	39.0
Bank tellers .....	8.93	3.4	33.4	8.93	3.4	33.4	—	—	—
Data entry keyers .....	9.18	3.5	38.1	9.31	3.7	37.9	—	—	—
Statistical clerks .....	9.94	.9	38.6	9.52	5.4	31.4	—	—	—
Teachers' aides .....	8.63	6.4	25.5	8.97	9.6	27.0	8.22	2.5	23.9
Administrative support, n.e.c. ....	11.01	4.5	36.9	10.98	5.2	36.8	—	—	—
<b>Blue collar</b> .....	12.90	3.3	38.2	12.92	2.9	38.2	12.80	12.4	38.4
<b>Precision production, craft, and repair</b> .....	16.45	2.9	39.7	16.31	2.8	39.7	17.19	9.8	40.0
Supervisors, mechanics and repairers .....	22.64	4.4	40.7	21.38	5.5	40.9	—	—	—
Automobile mechanics .....	18.21	7.1	40.2	18.21	7.1	40.2	—	—	—
Automobile mechanic apprentices .....	11.95	4.3	38.0	11.95	4.3	38.0	—	—	—
Bus, truck, and stationary engine mechanics .....	16.47	2.9	40.0	16.35	2.8	40.0	—	—	—
Aircraft engine mechanics .....	19.19	10.7	40.0	19.19	10.7	40.0	—	—	—
Automobile body and related repairers .....	20.75	14.2	40.9	20.75	14.2	40.9	—	—	—
Heavy equipment mechanics .....	18.09	1.0	39.8	18.02	1.1	39.7	—	—	—
Industrial machinery repairers .....	19.85	8.8	39.9	17.68	2.8	39.9	—	—	—
Machinery maintenance .....	14.83	6.9	40.0	14.83	6.9	40.0	—	—	—
Electronic repairers, communications and industrial equipment .....	14.57	6.9	39.6	14.79	7.3	39.4	—	—	—
Heating, air conditioning, and refrigeration mechanics .....	15.88	3.1	40.0	15.88	3.1	40.0	—	—	—
Mechanics and repairers, n.e.c. ....	15.72	4.1	39.7	15.13	2.1	39.7	—	—	—

See footnotes at end of table.

Table 4-13. Mountain census division:<sup>1</sup> Mean hourly earnings<sup>2</sup> and weekly hours by metropolitan and nonmetropolitan areas<sup>3</sup> for selected occupations, National Compensation Survey,<sup>4</sup> 1998—Continued

Occupation <sup>5</sup>	Total			Metropolitan			Nonmetropolitan		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>6</sup> (percent)		Mean	Relative error <sup>6</sup> (percent)		Mean	Relative error <sup>6</sup> (percent)	
<b>Blue collar—Continued</b>									
<b>Precision production, craft, and repair—Continued</b>									
Supervisors, electricians and power transmission installers .....	\$23.23	11.7	42.8	\$21.14	14.8	44.3	—	—	—
Supervisors, construction trades, n.e.c. ....	20.59	4.5	40.0	19.14	6.4	40.0	—	—	—
Carpenters .....	15.16	6.1	40.0	15.64	7.2	40.0	—	—	—
Electricians .....	17.81	13.7	40.0	17.51	16.2	39.9	—	—	—
Painters, construction and maintenance .....	11.05	9.3	40.0	11.05	9.3	40.0	—	—	—
Plumbers, pipefitters and steamfitters .....	21.24	5.2	39.9	21.24	5.2	39.9	—	—	—
Plumber, pipefitter, and steamfitter apprentices .....	12.08	4.8	40.0	12.08	4.8	40.0	—	—	—
Construction trades, n.e.c. ....	15.81	8.1	34.7	16.97	7.6	33.2	—	—	—
Supervisors, production .....	19.64	4.5	41.1	20.50	2.6	40.6	—	—	—
Machinists .....	16.99	2.6	40.0	16.99	2.6	40.0	—	—	—
Sheet metal workers .....	15.43	17.8	40.0	—	—	—	—	—	—
Electrical and electronic equipment assemblers .....	9.52	3.2	39.5	9.81	3.0	39.4	—	—	—
Butchers and meat cutters .....	12.56	6.3	38.6	12.56	6.3	38.6	—	—	—
Bakers .....	9.53	8.0	38.2	9.83	9.8	37.7	—	—	—
Food batchmakers .....	9.29	10.3	34.9	9.29	10.3	34.9	—	—	—
Inspectors, testers, and graders .....	17.73	5.3	40.3	17.73	5.3	40.3	—	—	—
<b>Machine operators, assemblers, and inspectors</b> .....	<b>10.47</b>	<b>2.6</b>	<b>39.4</b>	<b>10.72</b>	<b>1.7</b>	<b>39.5</b>	<b>\$9.31</b>	<b>8.0</b>	<b>39.0</b>
Grinding, abrading, buffing, and polishing machine operators .....	—	—	—	12.57	4.2	40.0	—	—	—
Numerical control machine operators .....	11.58	12.6	40.0	14.74	5.6	40.0	—	—	—
Fabricating machine operators, n.e.c. ....	11.52	4.5	40.0	11.52	4.5	40.0	—	—	—
Sawing machine operators .....	8.43	13.5	40.0	—	—	—	—	—	—
Printing press operators .....	15.65	3.8	39.2	15.65	3.8	39.2	—	—	—
Laundering and dry cleaning machine operators .....	7.05	2.9	35.2	7.18	2.7	37.9	—	—	—
Packaging and filling machine operators .....	10.09	4.8	40.0	10.09	4.8	40.0	—	—	—
Extruding and forming machine operators .....	—	—	—	11.85	1.9	40.0	—	—	—
Mixing and blending machine operators .....	9.54	11.8	40.0	9.48	21.0	40.0	—	—	—
Painting and paint spraying machine operators .....	11.48	5.5	40.5	11.48	5.5	40.5	—	—	—
Miscellaneous machine operators, n.e.c. ....	11.44	2.7	39.7	11.73	2.7	39.7	—	—	—
Welders and cutters .....	15.34	8.2	41.0	14.29	6.6	41.4	—	—	—
Assemblers .....	8.89	2.3	39.4	8.91	2.5	39.4	—	—	—
Miscellaneous hand working, n.e.c. ....	9.20	8.8	40.0	9.20	8.8	40.0	—	—	—
Production inspectors, checkers and examiners .....	10.69	8.0	39.2	11.64	5.8	38.9	—	—	—
<b>Transportation and material moving</b> .....	<b>13.92</b>	<b>7.3</b>	<b>37.3</b>	<b>13.90</b>	<b>7.6</b>	<b>37.4</b>	<b>13.97</b>	<b>18.2</b>	<b>37.0</b>
Supervisors, motor vehicle operators .....	15.33	6.2	42.2	15.33	6.2	42.2	—	—	—
Truck drivers .....	13.43	5.5	40.4	13.62	5.7	40.7	—	—	—
Driver-sales workers .....	9.40	24.3	32.1	9.40	24.3	32.1	—	—	—
Bus drivers .....	11.12	4.1	28.5	11.08	4.6	30.2	—	—	—
Taxicab drivers and chauffeurs .....	7.49	1.4	33.1	7.48	2.5	36.1	—	—	—
Motor transportation, n.e.c. ....	7.15	3.6	32.6	7.15	3.6	32.6	—	—	—
Supervisors, material moving equipment .....	15.91	15.1	40.0	15.93	20.2	40.0	—	—	—
Operating engineers .....	10.49	5.8	40.0	—	—	—	—	—	—
Grader, dozer, and scrapper operators .....	17.84	4.3	40.0	—	—	—	—	—	—
Industrial truck and tractor equipment operators .....	15.42	12.9	39.4	12.32	7.7	39.0	—	—	—
Miscellaneous material moving equipment operators, n.e.c. ....	14.10	13.8	39.5	15.89	9.9	39.4	—	—	—
<b>Handlers, equipment cleaners, helpers, and laborers</b> .....	<b>9.08</b>	<b>1.6</b>	<b>35.9</b>	<b>9.15</b>	<b>1.8</b>	<b>35.7</b>	<b>8.76</b>	<b>.9</b>	<b>37.0</b>
Groundskeepers and gardeners, except farm .....	9.19	4.1	36.2	9.54	6.3	34.3	—	—	—
Supervisors, handlers, equipment cleaners, and laborers, n.e.c. ....	14.10	11.2	40.0	12.52	15.6	40.0	—	—	—
Helpers, mechanics and repairers .....	11.83	7.3	38.5	11.83	7.3	38.5	—	—	—
Helpers, construction trades .....	9.21	7.5	40.0	9.03	8.7	40.0	—	—	—
Construction laborers .....	10.87	4.4	38.9	10.63	4.7	38.9	—	—	—
Production helpers .....	8.90	2.4	39.4	9.06	3.4	39.1	—	—	—
Stock handlers and baggers .....	8.02	2.4	30.7	8.16	2.7	30.9	—	—	—
Machine feeders and offbearers .....	10.90	10.2	40.0	10.90	10.2	40.0	—	—	—

See footnotes at end of table.

Table 4-13. Mountain census division:<sup>1</sup> Mean hourly earnings<sup>2</sup> and weekly hours by metropolitan and nonmetropolitan areas<sup>3</sup> for selected occupations, National Compensation Survey,<sup>4</sup> 1998—Continued

Occupation <sup>5</sup>	Total			Metropolitan			Nonmetropolitan		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>6</sup> (percent)		Mean	Relative error <sup>6</sup> (percent)		Mean	Relative error <sup>6</sup> (percent)	
<b>Blue collar—Continued</b>									
<b>Handlers, equipment cleaners, helpers, and laborers—Continued</b>									
Freight, stock, and material handlers, n.e.c. ....	\$9.65	4.0	38.3	\$10.20	4.2	38.4	—	—	—
Garage and service station related .....	11.25	8.8	34.4	11.25	8.8	34.4	—	—	—
Vehicle washers and equipment cleaners .....	7.67	11.3	35.2	7.16	10.6	34.6	—	—	—
Hand packers and packagers .....	8.53	4.3	38.8	8.52	4.7	38.7	—	—	—
Laborers, except construction, n.e.c. ....	8.98	4.9	36.7	8.96	6.0	36.2	\$9.05	4.9	38.9
<b>Service</b>									
Protective service .....	8.62	1.8	33.5	8.70	2.4	33.5	8.32	1.8	33.4
Supervisors, firefighters and fire prevention .....	13.52	8.9	38.4	13.59	11.1	38.2	13.25	3.7	39.5
Supervisors, police and detectives .....	22.74	5.1	50.6	22.74	5.1	50.6	—	—	—
Supervisors, police and detectives .....	21.98	6.6	41.6	23.26	7.5	42.1	—	—	—
Supervisors, guards .....	10.10	8.9	37.2	10.10	8.9	37.2	—	—	—
Firefighting .....	15.04	7.0	47.6	15.70	8.0	48.6	—	—	—
Police and detectives, public service .....	20.15	5.8	39.4	22.11	4.0	39.2	14.14	2.7	40.0
Sheriffs, bailiffs, and other law enforcement officers .....	16.84	5.1	40.0	17.79	1.5	40.0	—	—	—
Correctional institution officers .....	12.56	5.9	40.0	12.39	3.5	40.0	—	—	—
Guards and police, except public service .....	8.13	1.6	36.3	8.17	1.6	36.3	—	—	—
Protective service, n.e.c. ....	12.19	9.1	29.1	12.67	9.9	28.9	—	—	—
Food service .....	6.48	2.8	31.2	6.53	3.2	31.1	6.31	2.0	31.4
Supervisors, food preparation and service .....	11.26	7.4	37.7	11.87	5.4	38.1	—	—	—
Bartenders .....	6.40	4.7	32.2	6.41	5.0	32.8	—	—	—
Waiters and waitresses .....	3.96	9.6	28.9	3.80	12.1	28.3	—	—	—
Cooks .....	8.21	4.1	33.2	8.27	4.7	35.2	—	—	—
Food counter, fountain, and related .....	5.85	2.1	27.5	5.88	3.1	27.3	—	—	—
Kitchen workers, food preparation .....	7.56	2.9	29.7	7.52	2.9	26.6	—	—	—
Waiters/Waitresses' assistants .....	5.01	3.5	33.7	4.97	4.6	32.5	—	—	—
Food preparation, n.e.c. ....	6.25	1.1	32.6	6.19	1.3	32.8	6.51	3.0	32.0
Health service .....	8.25	2.2	31.2	8.59	4.0	34.0	7.80	1.5	28.2
Health aides, except nursing .....	8.09	5.6	32.7	8.47	7.8	33.0	7.63	9.8	32.4
Nursing aides, orderlies and attendants .....	8.26	1.8	30.7	8.56	3.0	34.4	7.87	.4	26.8
Cleaning and building service .....	8.31	2.4	35.2	8.10	2.8	34.4	9.05	1.4	38.6
Supervisors, cleaning and building service workers .....	11.11	5.9	39.8	11.26	6.4	40.0	—	—	—
Maids and housemen .....	7.14	2.7	31.1	7.23	2.5	30.4	—	—	—
Janitors and cleaners .....	8.54	3.3	36.9	8.34	4.2	36.4	9.21	2.1	38.8
Personal service .....	7.65	4.5	33.2	7.92	5.5	32.5	6.34	7.2	36.9
Supervisors, personal service .....	12.00	9.7	38.7	12.00	9.7	38.7	—	—	—
Attendants, amusement, and recreation facilities .....	6.15	.9	35.5	6.20	.7	34.3	—	—	—
Public transportation attendants .....	18.12	7.8	20.5	18.12	7.8	20.5	—	—	—
Baggage porters and bellhops .....	8.34	22.5	37.8	8.34	22.5	37.8	—	—	—
Welfare service aides .....	8.33	6.4	37.2	8.84	10.8	40.3	—	—	—
Early childhood teachers' assistants .....	6.75	1.7	24.5	6.79	1.7	24.7	—	—	—
Child care workers, n.e.c. ....	6.51	5.0	23.5	6.88	4.1	21.1	—	—	—
Service, n.e.c. ....	8.04	3.3	32.3	8.15	3.4	32.8	—	—	—

<sup>1</sup> The Mountain census division consists of Montana, Idaho, Wyoming, Colorado, New Mexico, Arizona, Utah, and Nevada.

<sup>2</sup> 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.

<sup>3</sup> Metropolitan areas can be a Metropolitan Statistical Area (MSA) or Consolidated Metropolitan Statistical Area (CMSA) as defined by the Office of Management and Budget, 1994. Nonmetropolitan areas are counties that do not fit the definitions above. For more information, see appendix E.

<sup>4</sup> In this census division, collection was conducted between March 1998 and April 1999. The average reference period was August 1998.

<sup>5</sup> A classification system including about 480 individual occupations is used to cover all workers in the civilian economy. For more information, see appendix B.

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

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

Table 4-14. Pacific census division:<sup>1</sup> Mean hourly earnings<sup>2</sup> and weekly hours by metropolitan and nonmetropolitan areas<sup>3</sup> for selected occupations, National Compensation Survey,<sup>4</sup> 1998

Occupation <sup>5</sup>	Total			Metropolitan			Nonmetropolitan		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>6</sup> (percent)		Mean	Relative error <sup>6</sup> (percent)		Mean	Relative error <sup>6</sup> (percent)	
All .....	\$17.86	1.3	36.2	\$18.04	1.3	36.2	\$14.96	2.8	35.6
All excluding sales .....	18.06	1.3	36.5	18.25	1.3	36.5	15.00	3.0	35.9
<b>White collar</b> .....	21.63	1.2	36.3	21.77	1.3	36.3	18.76	.4	35.6
White collar excluding sales .....	22.49	1.2	36.9	22.65	1.3	36.9	19.35	1.2	36.3
<b>Professional specialty and technical</b> .....	27.27	1.3	35.8	27.47	1.4	35.9	23.23	2.1	33.9
Professional specialty .....	29.17	1.4	35.5	29.41	1.5	35.6	24.71	2.0	33.4
Engineers, architects, and surveyors .....	31.66	1.3	40.5	31.80	1.3	40.5	24.13	4.0	39.8
Architects .....	36.32	12.3	41.4	36.50	13.0	41.7	-	-	-
Aerospace engineers .....	32.70	4.4	40.3	32.70	4.4	40.3	-	-	-
Petroleum engineers .....	43.47	9.0	44.2	43.47	9.0	44.2	-	-	-
Nuclear engineers .....	34.39	1.2	40.7	34.39	1.2	40.7	-	-	-
Civil engineers .....	30.63	4.6	40.1	31.43	4.4	40.1	-	-	-
Electrical and electronic engineers .....	33.21	2.5	40.9	33.21	2.5	40.9	-	-	-
Industrial engineers .....	27.26	3.2	40.4	27.26	3.2	40.4	-	-	-
Mechanical engineers .....	29.00	3.9	40.9	29.00	3.9	40.9	-	-	-
Engineers, n.e.c. ....	31.40	2.2	40.2	31.44	2.2	40.2	-	-	-
Mathematical and computer scientists .....	31.11	4.4	40.2	31.15	4.4	40.2	-	-	-
Computer systems analysts and scientists .....	31.62	4.6	40.3	31.64	4.7	40.3	-	-	-
Operations and systems researchers and analysts .....	26.38	5.8	40.0	26.38	5.8	40.0	-	-	-
Natural scientists .....	27.13	2.8	40.1	27.31	2.9	40.2	24.33	5.5	39.7
Chemists, except biochemists .....	27.41	5.7	40.4	27.41	5.7	40.4	-	-	-
Geologists and geodesists .....	30.50	6.0	40.0	30.50	6.0	40.0	-	-	-
Physical scientists, n.e.c. ....	29.35	3.2	40.0	29.35	3.2	40.0	-	-	-
Agricultural and food scientists .....	22.93	14.8	40.1	21.78	17.9	40.1	-	-	-
Biological and life scientists .....	23.67	3.9	39.8	23.72	4.9	39.9	-	-	-
Forestry and conservation scientists .....	21.32	5.4	40.6	-	-	-	-	-	-
Medical scientists .....	23.60	7.1	40.2	23.60	7.1	40.2	-	-	-
Health related .....	25.57	1.8	33.3	25.78	1.8	33.3	22.56	7.9	34.4
Physicians .....	38.26	12.9	38.4	37.13	13.3	38.4	-	-	-
Registered nurses .....	24.96	1.6	32.8	25.22	1.6	32.7	21.53	2.6	33.2
Pharmacists .....	33.34	4.9	33.2	33.48	5.0	33.1	-	-	-
Dietitians .....	18.84	4.7	37.7	18.84	4.7	37.7	-	-	-
Respiratory therapists .....	19.80	4.5	33.0	20.38	4.9	31.7	-	-	-
Occupational therapists .....	26.31	8.1	30.9	26.31	8.1	30.9	-	-	-
Physical therapists .....	24.22	3.7	33.2	24.28	4.1	32.7	-	-	-
Speech therapists .....	26.59	10.2	33.2	26.59	10.2	33.2	-	-	-
Therapists, n.e.c. ....	19.14	11.3	37.1	19.14	11.3	37.1	-	-	-
Physicians' assistants .....	23.43	20.6	37.6	22.65	23.2	37.4	-	-	-
Teachers, college and university .....	34.52	2.6	27.4	34.81	2.7	27.1	30.60	4.9	30.7
Earth, environmental, and marine science teachers .....	24.31	12.1	36.4	24.31	12.1	36.4	-	-	-
Biological science teachers .....	45.10	16.7	26.5	45.10	16.7	26.5	-	-	-
Chemistry teachers .....	52.91	17.0	38.6	52.91	17.0	38.6	-	-	-
Psychology teachers .....	30.19	9.0	22.7	30.19	9.0	22.7	-	-	-
Social science teachers, n.e.c. ....	33.77	7.9	36.1	36.44	4.2	35.8	-	-	-
Engineering teachers .....	42.77	9.1	31.1	42.77	9.1	31.1	-	-	-
Mathematical science teachers .....	39.11	8.4	22.8	39.32	8.6	24.3	-	-	-
Computer science teachers .....	32.15	11.9	33.6	31.02	17.4	31.1	-	-	-
Medical science teachers .....	33.52	8.8	49.4	33.52	8.8	49.4	-	-	-
Health specialties teachers .....	27.04	11.8	33.3	27.04	11.8	33.3	-	-	-
Business, commerce, and marketing teachers .....	41.63	6.9	25.9	41.63	6.9	25.9	-	-	-
Art, drama, and music teachers .....	34.19	3.5	27.5	34.22	3.5	28.2	-	-	-
Physical education teachers .....	35.24	8.5	18.6	37.27	7.7	20.3	-	-	-
Education teachers .....	34.55	20.1	32.4	42.84	33.5	26.1	-	-	-
English teachers .....	32.07	5.3	26.6	34.33	4.7	24.6	-	-	-
Foreign language teachers .....	33.91	5.4	26.4	34.14	5.4	27.8	-	-	-
Law teachers .....	42.59	13.4	27.5	42.59	13.4	27.5	-	-	-
Trade and industrial teachers .....	31.04	11.0	24.0	31.04	11.0	24.0	-	-	-
Teachers, post secondary, subject not specified .....	31.91	8.6	22.3	33.80	10.3	19.5	-	-	-
Teachers, post secondary, n.e.c. ....	33.13	3.8	23.4	32.72	3.9	23.0	-	-	-
Teachers, except college and university .....	29.65	1.8	32.8	29.91	1.9	32.8	26.41	1.5	33.4
Prekindergarten and kindergarten .....	18.25	13.7	33.0	18.12	14.1	33.8	-	-	-
Elementary school teachers .....	31.72	1.9	34.8	31.96	2.0	34.6	27.68	1.3	38.3
Secondary school teachers .....	31.30	2.2	35.8	31.63	2.3	35.7	26.81	1.3	37.7

See footnotes at end of table.



Table 4-14. Pacific census division:<sup>1</sup> Mean hourly earnings<sup>2</sup> and weekly hours by metropolitan and nonmetropolitan areas<sup>3</sup> for selected occupations, National Compensation Survey,<sup>4</sup> 1998—Continued

Occupation <sup>5</sup>	Total			Metropolitan			Nonmetropolitan		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>6</sup> (percent)		Mean	Relative error <sup>6</sup> (percent)		Mean	Relative error <sup>6</sup> (percent)	
<b>White collar</b> —Continued									
<b>Professional specialty and technical</b> —Continued									
Professional specialty—Continued									
Teachers, except college and university—Continued									
Teachers, special education .....	\$30.44	2.8	35.7	\$30.57	2.9	35.7	—	—	—
Teachers, n.e.c. ....	27.32	5.4	26.1	27.46	7.0	24.9	\$26.88	4.1	30.6
Substitute teachers .....	15.21	4.8	12.9	15.22	4.9	13.4	—	—	—
Vocational and educational counselors .....	26.33	9.7	36.5	27.06	9.9	36.4	—	—	—
Librarians, archivists, and curators .....	25.83	4.1	37.5	25.55	4.1	37.4	—	—	—
Librarians .....	25.98	4.3	36.6	25.65	4.2	36.5	—	—	—
Archivists and curators .....	25.12	12.0	42.1	25.12	12.0	42.1	—	—	—
Social scientists and urban planners .....	25.90	5.6	36.2	25.91	5.6	36.1	—	—	—
Economists .....	29.66	5.0	41.3	29.66	5.0	41.3	—	—	—
Psychologists .....	23.59	9.1	32.8	23.61	9.1	32.8	—	—	—
Urban planners .....	25.18	3.3	40.0	25.18	3.3	40.0	—	—	—
Social, recreation, and religious workers .....	18.59	4.2	37.8	18.62	4.5	38.5	18.21	5.3	30.6
Social workers .....	19.55	4.2	38.1	19.53	4.4	38.2	19.77	4.2	37.5
Recreation workers .....	14.41	8.0	31.9	14.92	8.0	36.0	—	—	—
Lawyers and judges .....	38.23	5.5	40.9	39.03	5.6	41.1	—	—	—
Lawyers .....	38.25	5.9	41.1	38.88	5.8	41.1	—	—	—
Judges .....	37.99	10.4	38.9	—	—	—	—	—	—
Writers, authors, entertainers, athletes, and professionals, n.e.c. ....	31.57	14.7	34.4	32.11	14.8	35.2	—	—	—
Technical writers .....	32.14	20.5	39.7	32.14	20.5	39.7	—	—	—
Designers .....	25.45	10.6	41.5	25.46	10.6	41.5	—	—	—
Musicians and composers .....	19.25	13.1	15.9	19.25	13.1	15.9	—	—	—
Actors and directors .....	57.29	25.0	33.3	57.29	25.0	33.3	—	—	—
Painters, sculptors, craft artists, and artist printmakers .....	32.02	26.3	41.7	32.02	26.3	41.7	—	—	—
Photographers .....	27.87	19.2	41.3	27.87	19.2	41.3	—	—	—
Editors and reporters .....	27.78	15.5	40.1	28.18	16.2	40.3	—	—	—
Public relations specialists .....	21.48	6.9	34.3	21.47	7.3	34.0	—	—	—
Professional, n.e.c. ....	25.39	5.3	39.7	25.39	5.3	39.7	—	—	—
Technical .....	20.26	2.4	37.2	20.44	2.5	37.2	15.44	.8	37.0
Clinical laboratory technologists and technicians .....	18.85	3.5	37.9	18.83	3.6	38.1	—	—	—
Health record technologists and technicians .....	13.12	8.5	34.2	13.12	8.5	34.2	—	—	—
Radiological technicians .....	20.51	3.8	30.8	20.50	3.8	30.9	—	—	—
Licensed practical nurses .....	15.45	3.2	35.0	15.55	3.2	35.0	11.83	3.4	33.9
Health technologists and technicians, n.e.c. ....	15.84	3.9	36.7	15.77	4.0	36.7	—	—	—
Electrical and electronic technicians .....	20.21	2.9	39.6	20.18	2.9	39.6	—	—	—
Mechanical engineering technicians .....	19.68	4.1	39.9	19.68	4.1	39.9	—	—	—
Engineering technicians, n.e.c. ....	19.97	4.4	39.0	20.27	4.8	39.0	—	—	—
Drafters .....	23.87	8.6	39.8	23.87	8.6	39.8	—	—	—
Surveying and mapping technicians .....	23.24	9.4	39.9	23.24	9.4	39.9	—	—	—
Biological technicians .....	13.69	8.8	34.0	14.22	10.7	32.6	—	—	—
Chemical technicians .....	19.48	10.6	40.5	19.48	10.6	40.5	—	—	—
Science technicians, n.e.c. ....	20.74	3.0	39.3	20.86	3.0	39.3	—	—	—
Airplane pilots and navigators .....	71.71	18.2	24.5	71.71	18.2	24.5	—	—	—
Broadcast equipment operators .....	17.05	10.0	38.1	17.03	10.3	38.0	—	—	—
Computer programmers .....	26.20	6.7	39.2	26.39	6.7	39.2	—	—	—
Legal assistants .....	16.88	7.9	39.4	16.83	8.1	39.4	—	—	—
Technical and related, n.e.c. ....	19.06	4.4	38.7	19.45	4.2	38.9	—	—	—
<b>Executive, administrative, and managerial</b> .....	30.12	2.0	40.2	30.32	2.0	40.2	24.99	2.5	41.5
Executives, administrators, and managers .....	35.07	2.6	40.5	35.50	2.7	40.4	25.76	2.8	42.8
Legislators .....	24.71	28.5	10.0	24.71	28.5	10.0	—	—	—
Chief executives and general administrators, public administration .....	46.65	6.4	38.9	—	—	—	—	—	—
Administrators and officials, public administration .....	29.25	4.9	39.9	29.92	5.3	39.9	—	—	—
Financial managers .....	33.82	4.1	39.6	33.78	4.2	39.6	—	—	—
Personnel and labor relations managers .....	32.95	5.1	40.0	33.87	4.7	40.2	—	—	—
Purchasing managers .....	30.57	5.0	40.3	30.50	5.1	40.3	—	—	—

See footnotes at end of table.

Table 4-14. Pacific census division:<sup>1</sup> Mean hourly earnings<sup>2</sup> and weekly hours by metropolitan and nonmetropolitan areas<sup>3</sup> for selected occupations, National Compensation Survey,<sup>4</sup> 1998—Continued

Occupation <sup>5</sup>	Total			Metropolitan			Nonmetropolitan		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>6</sup> (percent)		Mean	Relative error <sup>6</sup> (percent)		Mean	Relative error <sup>6</sup> (percent)	
<b>White collar</b> —Continued									
<b>Executive, administrative, and managerial</b> —Continued									
Executives, administrators, and managers—Continued									
Managers, marketing, advertising, and public relations .....									
	\$37.45	4.6	41.1	\$37.45	4.6	41.1	—	—	—
	35.50	3.3	39.6	35.98	3.5	39.5	—	—	—
	31.66	4.4	40.0	31.90	4.5	40.0	—	—	—
Managers, food servicing and lodging establishments .....									
	18.32	7.4	45.0	19.07	8.9	43.5	—	—	—
	22.61	26.8	40.9	22.61	26.8	40.9	—	—	—
	24.82	7.5	39.3	24.78	7.6	39.3	—	—	—
	38.95	4.5	41.0	39.26	4.5	41.0	\$27.81	6.2	43.9
	23.00	1.5	39.9	22.99	1.6	39.9	23.44	3.5	39.3
Management related .....									
	22.20	1.8	39.8	22.21	1.8	39.8	—	—	—
Underwriters .....									
	25.82	12.8	38.6	25.82	12.8	38.6	—	—	—
Other financial officers .....									
	24.52	4.8	40.9	24.62	4.8	40.9	—	—	—
Management analysts .....									
	25.89	3.7	40.3	26.26	3.8	40.4	—	—	—
Personnel, training, and labor relations specialists ..									
	23.99	7.7	39.8	23.90	8.0	39.8	—	—	—
Buyers, wholesale and retail trade, except farm products .....									
	21.49	7.4	40.2	22.26	6.8	39.8	—	—	—
Purchasing agents and buyers, n.e.c. ....									
	22.42	2.8	40.6	22.52	2.9	40.7	—	—	—
Construction inspectors .....									
	24.36	3.2	39.9	24.37	3.2	39.9	—	—	—
Inspectors and compliance officers, except construction .....									
	21.74	5.5	39.9	21.70	5.7	39.9	—	—	—
Management related, n.e.c. ....									
	22.35	2.3	39.5	22.13	2.3	39.5	—	—	—
<b>Sales</b> .....									
	15.11	4.5	32.5	15.15	4.7	32.6	14.32	7.9	31.3
Supervisors, sales .....									
	22.51	9.5	40.1	22.11	10.2	40.1	—	—	—
Insurance sales .....									
	18.70	21.7	39.6	18.85	22.3	39.6	—	—	—
Real estate sales .....									
	53.90	10.3	41.8	—	—	—	—	—	—
Advertising and related sales .....									
	21.54	10.5	35.8	21.54	10.5	35.8	—	—	—
Sales, other business services .....									
	20.01	19.9	35.9	20.11	20.1	35.9	—	—	—
Sales engineers .....									
	26.60	9.7	40.8	26.60	9.7	40.8	—	—	—
Sales representatives, mining, manufacturing, and wholesale .....									
	26.12	5.9	40.0	26.30	5.9	39.9	—	—	—
Sales workers, motor vehicles and boats .....									
	20.08	5.2	42.3	19.85	5.4	42.4	—	—	—
Sales workers, apparel .....									
	8.62	6.7	25.3	8.62	6.7	25.3	—	—	—
Sales workers, shoes .....									
	10.64	8.0	27.7	10.64	8.0	27.7	—	—	—
Sales workers, furniture and home furnishings .....									
	9.02	6.5	25.4	9.02	6.5	25.4	—	—	—
Sales workers, radio, tv, hi-fi, and appliances .....									
	10.34	9.2	38.7	10.34	9.2	38.7	—	—	—
Sales workers, parts .....									
	15.11	6.8	37.5	15.18	6.8	37.5	—	—	—
Sales workers, other commodities .....									
	10.75	5.2	30.7	10.79	5.4	30.8	—	—	—
Sales counter clerks .....									
	8.48	15.3	28.3	7.72	13.6	26.9	—	—	—
Cashiers .....									
	10.26	2.8	30.6	10.13	3.1	30.6	11.50	3.6	30.9
Street and door-to-door sales workers .....									
	10.85	6.7	35.2	10.85	6.7	35.2	—	—	—
Demonstrators, promoters, and models, sales .....									
	7.38	5.4	15.7	7.38	5.4	15.7	—	—	—
Sales support, n.e.c. ....									
	14.22	8.0	33.3	14.88	7.5	35.0	—	—	—
<b>Administrative support, including clerical</b> .....									
	13.23	.9	36.3	13.23	1.0	36.3	13.22	3.5	36.9
Supervisors, general office .....									
	17.63	3.1	40.0	17.18	2.8	40.0	22.24	4.7	40.0
Supervisors, financial records processing .....									
	19.64	4.6	39.4	20.02	4.3	39.8	—	—	—
Supervisors, distribution, scheduling, and adjusting clerks .....									
	19.96	5.4	40.2	18.62	6.0	40.4	—	—	—
Computer operators .....									
	17.20	3.8	39.5	17.25	3.8	39.5	—	—	—
Secretaries .....									
	15.10	1.4	38.4	15.21	1.4	38.5	13.46	2.8	37.0
Stenographers .....									
	15.98	8.7	34.5	16.05	9.0	34.4	—	—	—
Typists .....									
	13.05	2.9	38.6	13.08	3.0	38.8	—	—	—
Interviewers .....									
	11.60	4.0	35.0	11.88	3.8	34.6	—	—	—
Hotel clerks .....									
	10.06	7.9	37.9	10.01	9.3	37.5	—	—	—
Transportation ticket and reservation agents .....									
	13.18	6.1	36.6	13.19	6.5	36.5	—	—	—
Receptionists .....									
	9.96	1.7	36.1	9.96	1.8	36.1	—	—	—
Information clerks, n.e.c. ....									
	11.62	2.6	34.7	11.56	2.6	34.6	—	—	—

See footnotes at end of table.

Table 4-14. Pacific census division:<sup>1</sup> Mean hourly earnings<sup>2</sup> and weekly hours by metropolitan and nonmetropolitan areas<sup>3</sup> for selected occupations, National Compensation Survey,<sup>4</sup> 1998—Continued

Occupation <sup>5</sup>	Total			Metropolitan			Nonmetropolitan		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>6</sup> (percent)		Mean	Relative error <sup>6</sup> (percent)		Mean	Relative error <sup>6</sup> (percent)	
<b>White collar</b> —Continued									
<b>Administrative support, including clerical</b> —Continued									
Order clerks .....	\$12.45	2.9	36.8	\$12.43	2.9	36.8	—	—	—
Personnel clerks, except payroll and timekeeping ...	13.89	3.8	39.4	13.92	3.8	39.4	—	—	—
Library clerks .....	12.27	3.2	30.5	12.42	3.3	30.0	—	—	—
File clerks .....	9.39	4.2	35.1	9.50	4.3	35.6	—	—	—
Records clerks, n.e.c. ....	12.57	3.2	38.0	12.72	3.5	37.8	\$11.01	4.2	40.0
Bookkeepers, accounting and auditing clerks .....	13.40	1.4	39.1	13.52	1.5	39.1	11.58	3.6	39.7
Payroll and timekeeping clerks .....	13.96	4.1	39.4	14.02	4.2	39.4	—	—	—
Billing clerks .....	12.23	3.4	39.4	12.44	3.6	39.2	—	—	—
Billing, posting, and calculating machine operators .....	11.61	14.7	31.0	11.61	14.7	31.0	—	—	—
Office machine operators, n.e.c. ....	10.74	15.6	38.3	10.74	15.6	38.3	—	—	—
Telephone operators .....	10.27	4.9	38.0	10.27	4.9	38.0	—	—	—
Mail clerks, except postal service .....	8.99	8.1	37.6	9.28	8.1	38.0	—	—	—
Messengers .....	10.73	8.7	37.5	10.80	8.8	37.7	—	—	—
Dispatchers .....	15.87	5.3	38.2	15.87	5.3	38.2	—	—	—
Production coordinators .....	16.34	5.0	39.9	16.34	5.0	39.9	—	—	—
Traffic, shipping and receiving clerks .....	11.51	4.1	38.5	11.51	4.2	38.5	—	—	—
Stock and inventory clerks .....	12.20	3.8	35.3	12.11	4.0	35.0	—	—	—
Meter readers .....	17.20	4.0	38.9	17.20	4.0	38.9	—	—	—
Weighers, measurers, checkers, and samplers .....	11.22	9.3	30.2	—	—	—	—	—	—
Expeditors .....	14.23	10.0	39.9	14.25	10.0	39.9	—	—	—
Material recording, scheduling, and distribution clerks, n.e.c. ....	13.58	5.2	36.7	13.68	5.3	36.8	—	—	—
Insurance adjusters, examiners, and investigators ..	15.37	5.6	38.7	15.45	5.6	38.7	—	—	—
Investigators and adjusters, except insurance .....	13.91	5.5	38.7	13.89	5.6	38.7	—	—	—
Eligibility clerks, social welfare .....	13.96	4.1	39.5	14.02	4.4	39.5	—	—	—
Bill and account collectors .....	12.44	5.1	38.2	12.31	5.3	38.3	—	—	—
General office clerks .....	12.24	1.5	35.5	12.23	1.6	35.6	12.39	2.2	32.9
Bank tellers .....	9.16	1.8	22.6	9.17	1.9	22.4	—	—	—
Proofreaders .....	17.25	8.0	39.9	17.25	8.0	39.9	—	—	—
Data entry keyers .....	12.14	2.8	37.3	12.14	2.9	37.3	—	—	—
Statistical clerks .....	14.16	8.9	34.7	14.16	8.9	34.7	—	—	—
Teachers' aides .....	11.04	3.0	23.9	11.21	3.0	23.5	—	—	—
Administrative support, n.e.c. ....	13.79	2.1	36.9	13.82	2.2	36.9	13.04	8.1	36.3
<b>Blue collar</b> .....	13.78	1.9	38.3	13.87	1.9	38.4	12.70	7.8	37.7
<b>Precision production, craft, and repair</b> .....									
Supervisors, mechanics and repairers .....	23.77	2.9	40.2	23.77	3.1	40.3	—	—	—
Automobile mechanics .....	18.04	3.9	39.9	18.03	4.0	39.9	—	—	—
Automobile mechanic apprentices .....	10.24	12.6	39.6	10.24	12.6	39.6	—	—	—
Bus, truck, and stationary engine mechanics .....	17.98	3.0	40.0	18.20	3.0	40.0	—	—	—
Aircraft engine mechanics .....	20.89	6.7	39.8	20.89	6.7	39.8	—	—	—
Automobile body and related repairers .....	16.44	17.7	40.0	16.53	21.1	40.0	—	—	—
Aircraft mechanics, except engine .....	21.30	1.6	40.0	21.32	1.7	40.0	—	—	—
Heavy equipment mechanics .....	21.04	6.1	40.0	21.04	6.1	40.0	—	—	—
Industrial machinery repairers .....	18.58	2.6	39.3	18.74	2.6	39.3	—	—	—
Machinery maintenance .....	14.25	7.5	39.0	13.75	7.5	39.2	—	—	—
Electronic repairers, communications and industrial equipment .....	18.21	4.4	39.9	18.77	3.4	39.9	—	—	—
Household appliance and power tool repairers .....	19.06	11.5	37.5	19.04	11.8	37.3	—	—	—
Heating, air conditioning, and refrigeration mechanics .....	21.98	14.1	37.0	21.93	14.5	37.0	—	—	—
Mechanical controls and valve repairers .....	21.13	4.9	40.0	21.13	4.9	40.0	—	—	—
Millwrights .....	17.86	2.8	39.6	17.86	2.8	39.6	—	—	—
Mechanics and repairers, n.e.c. ....	16.98	3.0	39.4	16.96	3.2	39.4	17.20	4.0	39.6
Supervisors, electricians and power transmission installers .....	29.77	7.3	39.2	29.77	7.3	39.2	—	—	—
Supervisors, plumbers, pipefitters, and steamfitters .....	26.85	5.7	40.0	26.85	5.7	40.0	—	—	—
Supervisors, construction trades, n.e.c. ....	25.05	6.3	39.6	25.69	6.8	39.5	—	—	—
Brickmasons and stonemasons .....	19.60	12.9	40.0	19.60	12.9	40.0	—	—	—
Carpenters .....	19.65	3.5	39.3	19.78	3.5	39.5	15.87	17.6	33.5

See footnotes at end of table.

Table 4-14. Pacific census division:<sup>1</sup> Mean hourly earnings<sup>2</sup> and weekly hours by metropolitan and nonmetropolitan areas<sup>3</sup> for selected occupations, National Compensation Survey,<sup>4</sup> 1998—Continued

Occupation <sup>5</sup>	Total			Metropolitan			Nonmetropolitan		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>6</sup> (percent)		Mean	Relative error <sup>6</sup> (percent)		Mean	Relative error <sup>6</sup> (percent)	
<b>Blue collar—Continued</b>									
<b>Precision production, craft, and repair—Continued</b>									
Carpenter apprentices .....	\$13.69	5.8	40.0	\$13.68	5.8	40.0	—	—	—
Electricians .....	21.22	6.0	40.0	22.64	3.9	40.0	—	—	—
Electrician apprentices .....	16.53	4.7	40.0	15.96	10.6	40.0	—	—	—
Electrical power installers and repairers .....	25.32	3.2	40.0	25.32	3.2	40.0	—	—	—
Painters, construction and maintenance .....	14.54	14.2	40.0	14.19	16.2	40.0	—	—	—
Plumbers, pipefitters and steamfitters .....	19.35	6.0	40.0	19.65	6.2	40.0	—	—	—
Plumber, pipefitter, and steamfitter apprentices .....	15.46	7.1	40.0	15.46	7.1	40.0	—	—	—
Structural metal workers .....	23.02	8.1	34.9	23.02	8.1	34.9	—	—	—
Construction trades, n.e.c. ....	15.35	6.3	39.8	16.29	6.6	39.8	\$12.43	9.6	40.0
Drillers, oil well .....	21.07	10.6	41.1	21.07	10.6	41.1	—	—	—
Supervisors, production .....	22.45	8.1	40.1	22.45	8.1	40.1	—	—	—
Tool and die makers .....	17.86	6.2	40.0	17.86	6.2	40.0	—	—	—
Machinists .....	19.02	3.5	39.8	19.02	3.5	39.8	—	—	—
Layout workers .....	16.40	4.9	40.0	16.40	4.9	40.0	—	—	—
Sheet metal workers .....	22.76	5.4	40.0	22.76	5.4	40.0	—	—	—
Patternmakers, layout workers, and cutters .....	18.07	14.8	40.0	18.07	14.8	40.0	—	—	—
Electrical and electronic equipment assemblers .....	9.93	3.5	39.9	9.93	3.5	39.9	—	—	—
Miscellaneous precision workers, n.e.c. ....	18.16	11.9	39.8	18.16	11.9	39.8	—	—	—
Butchers and meat cutters .....	12.89	9.8	39.0	12.80	11.2	39.1	—	—	—
Bakers .....	13.58	13.3	36.7	13.58	13.3	36.7	—	—	—
Food batchmakers .....	10.03	10.6	39.9	9.97	11.8	39.9	—	—	—
Inspectors, testers, and graders .....	16.57	6.3	39.6	16.57	6.3	39.6	—	—	—
Water and sewer treatment plant operators .....	19.79	3.6	40.0	19.78	4.6	40.0	—	—	—
Stationary engineers .....	21.13	5.0	40.0	21.13	5.0	40.0	—	—	—
Miscellaneous plant and system operators, n.e.c. ....	23.50	1.3	40.4	23.50	1.3	40.4	—	—	—
<b>Machine operators, assemblers, and inspectors .....</b>									
Lathe and turning machine operators .....	14.72	14.8	40.0	14.72	14.8	40.0	—	—	—
Punching and stamping press operators .....	10.40	8.6	40.0	10.40	8.6	40.0	—	—	—
Drilling and boring machine operators .....	13.99	11.5	39.9	13.99	11.5	39.9	—	—	—
Grinding, abrading, buffing, and polishing machine operators .....	10.08	9.1	39.9	10.08	9.1	39.9	—	—	—
Numerical control machine operators .....	15.94	5.8	40.0	15.94	5.8	40.0	—	—	—
Fabricating machine operators, n.e.c. ....	13.04	7.8	40.0	12.40	8.6	40.0	—	—	—
Molding and casting machine operators .....	8.88	10.2	39.7	8.88	10.2	39.7	—	—	—
Metal plating machine operators .....	12.90	6.7	40.0	12.90	6.7	40.0	—	—	—
Sawing machine operators .....	—	—	—	8.95	13.4	40.0	—	—	—
Printing press operators .....	15.34	10.0	39.0	15.34	10.0	39.0	—	—	—
Photoengravers and lithographers .....	15.89	13.5	38.6	15.89	13.5	38.6	—	—	—
Typesetters and compositors .....	14.44	10.1	38.5	14.44	10.1	38.5	—	—	—
Textile cutting machine operators .....	9.94	4.7	40.0	9.94	4.7	40.0	—	—	—
Textile sewing machine operators .....	7.89	7.5	38.3	7.89	7.5	38.3	—	—	—
Laundering and dry cleaning machine operators .....	7.90	4.7	37.9	7.95	4.8	37.8	—	—	—
Packaging and filling machine operators .....	10.52	7.2	35.5	10.62	7.8	38.0	—	—	—
Extruding and forming machine operators .....	10.79	4.6	40.0	10.79	4.6	40.0	—	—	—
Mixing and blending machine operators .....	10.67	9.8	39.5	10.67	9.8	39.5	—	—	—
Separating, filtering, and clarifying machine operators .....	15.91	2.1	40.0	15.75	3.6	40.0	—	—	—
Painting and paint spraying machine operators .....	11.18	14.9	39.9	11.18	14.9	39.9	—	—	—
Folding machine operators .....	16.78	3.1	40.0	16.78	3.1	40.0	—	—	—
Furnace, kiln, and oven operators, except food .....	11.95	6.3	40.0	11.95	6.3	40.0	—	—	—
Crushing and grinding machine operators .....	12.84	8.0	40.0	12.84	8.0	40.0	—	—	—
Slicing and cutting machine operators .....	9.77	7.9	38.7	9.77	7.9	38.7	—	—	—
Photographic process machine operators .....	10.14	5.6	37.2	10.14	5.6	37.2	—	—	—
Miscellaneous machine operators, n.e.c. ....	10.73	4.2	39.5	11.07	4.1	39.4	—	—	—
Welders and cutters .....	15.79	6.7	40.0	15.77	7.1	40.0	—	—	—
Solders and braziers .....	8.33	8.6	40.0	8.33	8.6	40.0	—	—	—
Assemblers .....	10.21	3.6	39.0	10.21	3.6	39.0	—	—	—
Hand cutting and trimming .....	6.44	11.7	38.0	6.44	11.7	38.0	—	—	—
Hand painting, coating, and decorating .....	7.31	8.8	40.0	7.31	8.8	40.0	—	—	—
Miscellaneous hand working, n.e.c. ....	8.37	4.7	39.9	8.37	4.7	39.9	—	—	—

See footnotes at end of table.

Table 4-14. Pacific census division:<sup>1</sup> Mean hourly earnings<sup>2</sup> and weekly hours by metropolitan and nonmetropolitan areas<sup>3</sup> for selected occupations, National Compensation Survey,<sup>4</sup> 1998—Continued

Occupation <sup>5</sup>	Total			Metropolitan			Nonmetropolitan		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>6</sup> (percent)		Mean	Relative error <sup>6</sup> (percent)		Mean	Relative error <sup>6</sup> (percent)	
<b>Blue collar—Continued</b>									
<b>Machine operators, assemblers, and inspectors—Continued</b>									
Production inspectors, checkers and examiners .....	\$11.70	5.2	39.2	\$11.70	5.2	39.2	—	—	—
Production testers .....	11.49	5.3	40.0	11.49	5.3	40.0	—	—	—
Graders and sorters, except agricultural .....	11.07	8.4	39.1	11.07	8.4	39.1	—	—	—
<b>Transportation and material moving .....</b>	14.69	4.2	37.7	14.87	4.4	37.9	\$13.00	7.1	35.7
Supervisors, motor vehicle operators .....	21.31	9.4	40.5	21.36	9.5	40.5	—	—	—
Truck drivers .....	14.26	3.9	39.6	14.15	4.3	39.6	—	—	—
Driver-sales workers .....	12.44	8.8	34.6	12.57	8.8	34.4	—	—	—
Bus drivers .....	13.36	5.1	32.8	13.39	5.3	32.7	—	—	—
Taxicab drivers and chauffeurs .....	9.58	6.1	34.7	9.58	6.1	34.7	—	—	—
Parking lot attendants .....	8.35	9.6	34.5	8.35	9.6	34.5	—	—	—
Motor transportation, n.e.c. ....	8.12	12.1	29.9	8.26	13.3	35.8	—	—	—
Railroad conductors and yardmasters .....	28.02	15.9	41.3	28.02	15.9	41.3	—	—	—
Locomotive operating .....	27.24	23.6	42.0	27.24	23.6	42.0	—	—	—
Ship captains and mates, except fishing boats .....	18.39	13.9	34.6	17.86	17.0	33.4	—	—	—
Sailors and deckhands .....	19.70	5.4	33.3	20.63	4.2	32.0	—	—	—
Supervisors, material moving equipment .....	15.43	3.7	40.4	15.43	3.7	40.4	—	—	—
Operating engineers .....	22.88	5.6	39.9	23.42	4.6	39.9	—	—	—
Crane and tower operators .....	19.14	14.1	40.0	19.14	14.1	40.0	—	—	—
Excavating and loading machine operators .....	18.38	14.7	40.0	18.38	14.7	40.0	—	—	—
Grader, dozer, and scrapper operators .....	17.81	12.5	40.0	21.10	10.0	40.0	—	—	—
Industrial truck and tractor equipment operators .....	11.93	5.1	39.4	12.32	5.4	39.2	—	—	—
Miscellaneous material moving equipment operators, n.e.c. ....	17.78	8.9	37.5	17.74	9.1	37.4	—	—	—
<b>Handlers, equipment cleaners, helpers, and laborers ..</b>	10.03	2.0	36.3	10.00	2.2	36.3	10.39	5.6	36.7
Nursery workers .....	7.42	6.8	40.5	7.42	6.8	40.5	—	—	—
Supervisors, agriculture-related workers .....	18.20	3.9	40.2	18.20	3.9	40.2	—	—	—
Groundskeepers and gardeners, except farm .....	12.46	4.4	38.5	12.55	4.3	37.8	12.25	10.4	40.0
Animal caretakers, except farm .....	12.41	8.4	36.5	12.41	8.4	36.5	—	—	—
Inspectors, agricultural products .....	7.50	3.5	34.5	7.50	3.5	34.5	—	—	—
Supervisors, handlers, equipment cleaners, and laborers, n.e.c. ....	15.42	6.7	40.0	15.42	6.7	40.0	—	—	—
Helpers, mechanics and repairers .....	12.12	8.6	38.9	12.08	8.9	38.8	—	—	—
Helpers, construction trades .....	11.41	9.7	38.9	11.40	9.8	38.9	—	—	—
Construction laborers .....	12.70	8.8	38.9	12.95	9.2	39.6	—	—	—
Production helpers .....	8.68	4.2	38.7	8.66	4.2	38.7	—	—	—
Stock handlers and baggers .....	9.52	7.0	29.8	9.62	7.4	30.5	8.21	8.9	23.4
Machine feeders and offbearers .....	9.60	8.1	38.6	9.55	8.2	38.6	—	—	—
Freight, stock, and material handlers, n.e.c. ....	10.01	4.7	35.7	9.89	4.9	35.5	12.45	5.7	40.0
Garage and service station related .....	9.91	5.6	39.1	9.91	5.6	39.1	—	—	—
Vehicle washers and equipment cleaners .....	7.65	7.6	38.2	7.65	7.6	38.2	—	—	—
Hand packers and packagers .....	8.05	3.2	37.1	8.05	3.2	37.1	—	—	—
Laborers, except construction, n.e.c. ....	10.45	5.3	37.6	10.78	4.7	37.0	—	—	—
<b>Service .....</b>	11.08	2.2	33.1	11.18	2.3	33.2	9.77	5.1	32.6
Protective service .....	16.45	4.9	37.7	16.51	5.0	37.6	15.01	4.7	40.5
Supervisors, firefighters and fire prevention .....	23.68	5.5	50.6	24.02	5.5	51.0	—	—	—
Supervisors, police and detectives .....	31.14	4.2	40.2	31.14	4.2	40.2	—	—	—
Supervisors, guards .....	19.75	14.6	39.4	19.75	14.6	39.4	—	—	—
Fire inspection and fire prevention .....	18.08	8.8	41.8	18.08	8.8	41.8	—	—	—
Firefighting .....	17.30	8.0	35.3	17.52	8.4	35.0	—	—	—
Police and detectives, public service .....	24.08	2.3	39.7	24.27	2.3	39.6	20.52	3.7	40.0
Sheriffs, bailiffs, and other law enforcement officers .....	20.63	4.0	39.6	20.81	4.0	39.6	—	—	—
Correctional institution officers .....	18.01	2.6	40.0	18.09	2.7	40.0	—	—	—
Crossing guards .....	10.35	13.6	19.9	10.35	13.6	19.9	—	—	—
Guards and police, except public service .....	8.43	4.0	36.1	8.40	4.1	36.0	—	—	—
Protective service, n.e.c. ....	13.86	10.9	27.6	13.85	11.1	27.5	—	—	—
Food service .....	7.81	1.5	29.8	7.79	1.6	29.6	7.99	4.1	31.9

See footnotes at end of table.

Table 4-14. Pacific census division:<sup>1</sup> Mean hourly earnings<sup>2</sup> and weekly hours by metropolitan and nonmetropolitan areas<sup>3</sup> for selected occupations, National Compensation Survey,<sup>4</sup> 1998—Continued

Occupation <sup>5</sup>	Total			Metropolitan			Nonmetropolitan		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>6</sup> (percent)		Mean	Relative error <sup>6</sup> (percent)		Mean	Relative error <sup>6</sup> (percent)	
<b>Service—Continued</b>									
Food service—Continued									
Supervisors, food preparation and service .....	\$12.33	4.4	39.3	\$12.34	4.5	39.3	—	—	—
Bartenders .....	7.33	3.8	31.3	7.60	3.3	30.3	—	—	—
Waiters and waitresses .....	6.09	1.6	26.7	5.93	2.0	26.4	—	—	—
Cooks .....	9.87	3.0	37.2	9.96	3.5	37.0	\$9.29	3.7	38.4
Food counter, fountain, and related .....	6.56	3.3	24.9	6.56	3.5	24.7	—	—	—
Kitchen workers, food preparation .....	8.08	2.8	31.2	8.02	3.0	31.7	—	—	—
Waiters/Waitresses' assistants .....	6.37	3.5	28.2	6.36	3.7	28.1	—	—	—
Food preparation, n.e.c. ....	7.43	2.8	28.3	7.35	2.4	27.8	—	—	—
Health service .....	9.94	2.0	34.4	9.99	2.2	34.4	9.42	.8	34.1
Health aides, except nursing .....	11.89	2.3	33.1	12.02	2.5	33.6	10.43	.0	28.0
Nursing aides, orderlies and attendants .....	9.32	2.1	34.8	9.34	2.3	34.6	9.12	1.2	36.5
Cleaning and building service .....	9.68	3.0	36.4	9.71	3.1	36.6	9.19	3.8	33.0
Supervisors, cleaning and building service workers .....	14.56	8.6	40.1	14.75	8.8	40.1	—	—	—
Maids and housemen .....	8.30	3.3	34.9	8.24	3.3	35.4	8.99	13.5	29.7
Janitors and cleaners .....	9.57	3.8	36.4	9.59	4.0	36.5	9.24	.5	34.4
Personal service .....	10.29	5.2	26.8	10.30	5.4	26.6	10.17	17.4	28.6
Supervisors, personal service .....	13.34	8.8	38.0	12.13	7.5	37.4	—	—	—
Attendants, amusement, and recreation facilities .....	7.15	4.1	27.8	7.43	3.8	24.6	—	—	—
Guides .....	11.90	10.6	32.5	11.83	11.5	32.1	—	—	—
Ushers .....	6.24	2.4	10.4	6.24	2.4	10.4	—	—	—
Public transportation attendants .....	24.24	13.8	22.5	24.24	13.8	22.5	—	—	—
Baggage porters and bellhops .....	7.40	6.9	35.2	7.40	6.9	35.2	—	—	—
Welfare service aides .....	8.78	5.7	27.6	8.78	5.7	27.6	—	—	—
Early childhood teachers' assistants .....	9.00	3.2	26.7	8.93	3.3	26.3	—	—	—
Child care workers, n.e.c. ....	10.18	8.7	22.8	10.16	8.8	22.9	—	—	—
Service, n.e.c. ....	9.59	8.7	27.7	8.80	7.0	29.6	—	—	—

<sup>1</sup> The Pacific census division consists of Washington, Oregon, California, Alaska, and Hawaii.

<sup>2</sup> 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.

<sup>3</sup> Metropolitan areas can be a Metropolitan Statistical Area (MSA) or Consolidated Metropolitan Statistical Area (CMSA) as defined by the Office of Management and Budget, 1994. Nonmetropolitan areas are counties that do not fit the definitions above. For more information, see appendix E.

<sup>4</sup> In this census division, collection was conducted between January 1998 and April 1999. The average reference period was June 1998.

<sup>5</sup> A classification system including about 480 individual occupations is used to cover all workers in the civilian economy. For more information, see appendix B.

<sup>6</sup> 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.

# Appendix A.

## Technical Note

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

### Planning for the survey

The overall design of the survey, which was based on the type of data to be produced, had to be developed before data collection could begin.

### Survey scope

The National Compensation Survey (NCS) studied 18,576 establishments with 50 or more workers, representing more than 63 million workers within scope of the survey. (See appendix table 2.) The survey covered goods-producing industries (mining, construction, and manufacturing); service-producing industries (transportation, communications, electric, gas, and sanitary services; wholesale trade; retail trade; finance, insurance, and real estate; and services industries); and State and local governments. Agriculture, private households, and the Federal Government were excluded from the scope of the survey. For purposes of this survey, an establishment was an economic unit 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 was usually at a single physical location. For State and local governments, an establishment was defined as all locations of a government entity.

The geographical scope of the NCS includes all 50 States and the District of Columbia.

### Sampling frame

The list of establishments from which the survey sample was selected (sampling frame) was developed from the State unemployment insurance reports. The reference month for the public sector is June 1994. Due to the volatility of industries within the private sector, sampling frames were developed using the most recent month of reference available at the time the sample was selected. The reference month for the private sector is March 1996.

### Sample design

The sample for this survey was selected using a three-stage design. The first stage consisted of the selection of areas for study. The NCS sample consists of 154 metropolitan areas and nonmetropolitan areas that represent the Nation's 326 metropolitan statistical areas (as defined by the Office of Management and Budget, 1994) and the remaining portions of the 50 States. (See Appendix E.) The NCS surveys two types of metropolitan areas: Metropolitan Statistical Areas (MSA) and Consolidated Metropolitan Statistical Areas (CMSA). MSA's are areas with a central city of 50,000 or more inhabitants and a total area population of at least 100,000. An MSA usually consists of one or more counties with close economic and social ties as defined by commuting patterns and population density. CMSA's are large, integrated areas of 1 million or more people consisting of two or more contiguous Primary Metropolitan Statistical Areas (large areas that consist of 250,000 to 999,999 people). Nonmetropolitan areas are areas that are not a part of an MSA or CMSA. These areas are individual counties or parishes.

In the second stage, 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 data collection.

The third stage of sample selection was development of a probability sample of occupations within a sampled establishment.

### Data collection

The collection of data from survey respondents required detailed procedures. Collection was the responsibility of field economists, working out of the BLS Regional Offices, who visited each establishment surveyed. Collection was conducted between July 1997 and April 1999. The average payroll reference month was August 1998. For each estab-

lishment in the survey, the data reflect the establishment's practices on the day of collection.

**Occupational selection and classification**

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

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

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

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

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

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

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

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

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

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

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

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

**Generic leveling through point factor analysis**

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

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

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

Each factor contains a number of levels and each level has an associated written description and point value. The



number and range of points differ among the factors. For each factor, an occupation was assigned a level based on which written description best matched the job. Within each occupation, the points for 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. The appendix also includes an example of a leveled job.

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

## 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 (e.g., Christmas bonuses, profit-sharing bonuses)
- Uniform and tool allowances
- Free room and board
- Payments made by third parties (e.g., tips, bonuses given by manufacturers to department store salespeople, referral incentives in real estate)
- On-call pay

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. In this summary bulletin, only hourly earnings are presented.

Earnings distribution tables that are not included in this bulletin are available at the BLS Internet site (<http://stats.bls.gov/comhome.htm>). These supplemental tables provide hourly earnings at the 10th, 25th, 50th, 75th, and 90th percentile positions for selected occupations. At the 50th percentile, the median, half of the workers receive the same as or more than the rate shown, and half receive the same as or less than the rate shown. At the 25th percentile, one-fourth of the workers earn the same as or less than the rate shown. At the 75th percentile, one-fourth earn the same as or more than the rate shown. The 10th and 90th percentiles follow the same pattern. Earnings data are made available for all workers, private industry, and State and local government. Further detail for full- and part-time workers also is provided.

## 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 above and the example in Appendix D for more details on the leveling process.)

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

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

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

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

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

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

## Processing and analyzing the data

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

### Weighting and nonresponse

Sample weights were calculated for each establishment/occupation in the survey. These weights reflected the relative size of the occupation within the establishment and of the establishment within the sample universe. Weights were used to aggregate data for the individual establishment/occupations into the various data series. 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 for a sample establishment or occupation, or data were missing, the response was treated as a refusal.

### Estimation

The wage series in the tables are computed by combining the wages for individual establishment/occupations. Before being combined, individual wage rates are weighted by: number of workers; the sample weight, adjusted for nonresponding establishments and other factors; and the occupation work schedule, which varied depending on whether hourly, weekly, or annual rates were being calculated.

Not all series that were calculated met the criteria for publication. Before any series was published, it was reviewed to make sure that the number of observations underlying it was sufficient. This review prevented the publication of a

series that could have revealed information about a specific establishment.

The number-of-workers estimates in appendix table 2 represents 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 only to indicate the relative importance of the occupational groups studied.

### Data reliability

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

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

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

The standard error can be used to calculate a "confidence interval" around a sample estimate. As an example, table 1-1 shows mean hourly earnings of \$15.72 for all workers, and an RSE of 0.5 for this estimate. At the 90-percent level, the confidence interval for this estimate is \$15.85 to \$15.59 (\$15.72 plus and minus 1.645 times 0.5 percent times \$15.72). If all possible samples were selected to estimate the population value, the interval from each sample would include the true population value approximately 90 percent of the time.

*Nonsampling errors* also affect survey results. They can stem from many sources, such as inability to obtain information for some establishments, difficulties with survey definitions, inability of the respondents to provide correct information, or mistakes in recording or coding the data obtained. A Technical Reinterview Program done in all survey areas will be used in the development of a formal quality assessment process to help compute nonsampling error. Although they were not specifically measured, the nonsampling errors were expected to be minimal due to the extensive training of the field economists who gathered the survey data by personal visit, computer edits of the data, and detailed data review.

Table A. Number of establishments represented by the survey and number studied by industry group and establishment employment size, United States, National Compensation Survey,<sup>1</sup> 1998

Industry division	Number of establishments represented <sup>2</sup>	Number of establishments studied						
		Total	50 - 99 workers	100 - 499 workers	500 - 999 workers	1,000 - 2,499 workers	2,500 - 4,999 workers	5,000 or more workers
<b>All</b> .....	327,400	18,576	5,280	8,252	2,125	1,784	692	443
<b>Private Industry</b> .....	298,400	15,850	4,983	7,295	1,618	1,308	446	200
Goods-producing industries .....	78,800	4,625	1,143	2,252	614	396	153	67
Mining .....	1,500	172	72	68	24	7	1	-
Construction .....	13,400	537	273	231	21	11	-	1
Manufacturing .....	63,900	3,916	798	1,953	569	378	152	66
Durable goods .....	36,600	2,412	491	1,132	357	251	124	57
Fabricated metal products, except machinery and transportation equipment .....	6,300	369	101	212	31	18	6	1
Industrial and commercial machinery and computer equipment .....	6,500	444	97	213	73	39	16	6
Electronic and electrical equipment .....	6,400	387	61	177	73	48	18	10
Transportation equipment .....	3,000	371	43	107	59	69	63	30
Measuring, analyzing, and controlling instruments .....	2,500	214	29	92	43	36	8	6
Nondurable goods .....	27,300	1,504	307	821	212	127	28	9
Food and kindred products .....	4,200	326	61	182	55	26	2	-
Printing, publishing, and allied industries .....	5,000	320	75	162	40	32	9	2
Chemicals and allied products .....	4,300	265	42	128	44	38	10	3
Service-producing industries .....	219,600	11,225	3,840	5,043	1,004	912	293	133
Transportation and utilities .....	18,900	1,159	352	494	121	129	35	28
Wholesale trade .....	17,200	661	286	299	48	23	1	4
Retail trade .....	78,900	2,743	1,342	1,198	119	63	19	2
Finance, insurance and real estate .....	16,700	859	252	325	104	119	31	28
Depository institutions .....	5,300	305	89	111	41	31	15	18
Insurance carriers .....	4,000	254	46	94	44	56	9	5
Services .....	87,900	5,803	1,608	2,727	612	578	207	71
Business services .....	21,800	1,201	357	609	127	92	12	4
Educational services .....	4,600	829	314	371	79	34	16	15
Health services .....	25,200	1,986	314	887	259	342	144	40
Hospitals .....	4,500	890	13	191	196	316	134	40
Engineering, accounting, research, management, and related services .....	6,500	376	124	163	31	38	17	3
<b>State and local government</b> .....	29,000	2,726	297	957	507	476	246	243
Health services .....	2,500	317	36	91	62	61	44	23
Hospitals .....	1,500	200	11	35	42	54	38	20

<sup>1</sup> This survey covers all 50 States. Collection was conducted between July 1997 and April 1999. The average reference period was August 1998.

<sup>2</sup> Number of establishments represented by the survey rounded to the nearest 100.

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

Table B. **Number of workers<sup>1</sup> represented by the survey, by occupational group,<sup>2</sup> United States, National Compensation Survey,<sup>3</sup> 1998**

Occupational group	All industries	Private industry	State and local government
<b>All</b> .....	63,368,100	48,783,200	14,584,900
All excluding sales .....	58,871,800	44,345,500	14,526,300
<b>White collar</b> .....	33,474,800	23,595,100	9,879,700
White collar excluding sales .....	28,978,400	19,157,300	9,821,100
Professional specialty and technical .....	13,157,900	7,384,600	5,773,300
Professional specialty occupations .....	10,508,500	5,225,600	5,282,900
Technical occupations .....	2,649,400	2,159,000	490,400
Executive, administrative, and managerial .....	5,115,400	3,854,500	1,261,000
Sales .....	4,496,300	4,437,700	58,600
Administrative support, including clerical .....	10,705,100	7,918,200	2,786,900
<b>Blue collar</b> .....	17,739,100	16,249,100	1,490,000
Precision production, craft, and repair .....	5,010,400	4,409,800	600,700
Machine operators, assemblers, and inspectors .....	5,699,200	5,664,600	34,600
Transportation and material moving .....	2,514,100	1,987,400	526,700
Handlers, equipment cleaners, helpers, and laborers .....	4,515,400	4,187,400	328,000
<b>Service</b> .....	12,154,200	8,939,100	3,215,100

<sup>1</sup> 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 with other statistical series to measure employment trends or levels. Both full-time and part-time workers were included in the survey.

<sup>2</sup> A classification system including about 480 individual

occupations is used to cover all workers in the civilian economy. For more information, see appendix B.

<sup>3</sup> This survey covers all 50 States. Collection was conducted between July 1997 and April 1999. The average reference period was August 1998.

# Appendix B.

## Occupational Classifications

NOTE: The 4-digit code before each occupation title is used to classify the job into one of three major groups. **White-collar** workers include those classified in Major groups A through D. **Blue-collar** workers include those classified in Major groups E through H. **Service** workers are classified in Major group K.

### Major group A:

#### PROFESSIONAL SPECIALTY AND TECHNICAL OCCUPATIONS

##### PROFESSIONAL SPECIALTY OCCUPATIONS

##### ENGINEERS, ARCHITECTS, AND SURVEYORS

- A043 Architects
- A044 Aerospace Engineers
- A045 Metallurgical and Materials Engineers
- A046 Mining Engineers
- A047 Petroleum Engineers
- A048 Chemical Engineers
- A049 Nuclear Engineers
- A053 Civil Engineers
- A054 Agricultural Engineers
- A055 Electrical and Electronic Engineers
- A056 Industrial Engineers
- A057 Mechanical Engineers
- A058 Marine Engineers and Naval Architects
- A059 Engineers, n.e.c.<sup>1</sup>
- A063 Surveyors and Mapping Scientists

##### MATHEMATICAL AND COMPUTER SCIENTISTS

- A064 Computer Systems Analysts and Scientists
- A065 Operations and Systems Researchers and Analysts
- A066 Actuaries
- A067 Statisticians
- A068 Mathematical Scientists, n.e.c.

##### NATURAL SCIENTISTS

- A069 Physicists and Astronomers
- A073 Chemists, Except Biochemists
- A074 Atmospheric and Space Scientists
- A075 Geologists and Geodesists
- A076 Physical Scientists, n.e.c.

- A077 Agricultural and Food Scientists
- A078 Biological and Life Scientists
- A079 Forestry and Conservation Scientists
- A083 Medical Scientists

##### HEALTH RELATED OCCUPATIONS

- A084 Physicians
- A085 Dentists
- A086 Veterinarians
- A087 Optometrists
- A088 Podiatrists
- A089 Health Diagnosing Practitioners, n.e.c.
- A095 Registered Nurses
- A096 Pharmacists
- A097 Dietitians
- A098 Respiratory Therapists
- A099 Occupational Therapists
- A103 Physical Therapists
- A104 Speech Therapists
- A105 Therapists, n.e.c.
- A106 Physicians' Assistants

##### TEACHERS, COLLEGE AND UNIVERSITY

- A113 Earth, Environmental, and Marine Science Teachers
- A114 Biological Science Teachers
- A115 Chemistry Teachers
- A116 Physics Teachers
- A117 Natural Science Teachers, n.e.c.
- A118 Psychology Teachers
- A119 Economics Teachers
- A123 History Teachers
- A124 Political Science Teachers
- A125 Sociology Teachers
- A126 Social Science Teachers, n.e.c.
- A127 Engineering Teachers
- A128 Mathematical Science Teachers
- A129 Computer Science Teachers
- A133 Medical Science Teachers
- A134 Health Specialties Teachers

<sup>1</sup> n.e.c. in an occupation title means not elsewhere classified.

A135 Business, Commerce, and Marketing Teachers  
A136 Agriculture and Forestry Teachers  
A137 Art, Drama, and Music Teachers  
A138 Physical Education Teachers  
A139 Education Teachers  
A143 English Teachers  
A144 Foreign Language Teachers  
A145 Law Teachers  
A146 Social Work Teachers  
A147 Theology Teachers  
A148 Trade and Industrial Teachers  
A149 Home Economics Teachers  
A153 Teachers, Post Secondary, n.e.c.  
A154 Post Secondary Teachers, Subject not specified

#### TEACHERS, EXCEPT COLLEGE AND UNIVERSITY

A155 Prekindergarten and Kindergarten Teachers  
A156 Elementary School Teachers  
A157 Secondary School Teachers  
A158 Teachers, Special Education  
A159 Teachers, n.e.c.  
A160 Substitute Teachers  
A163 Vocational and Educational Counselors

#### LIBRARIANS, ARCHIVISTS, AND CURATORS

A164 Librarians  
A165 Archivists and Curators

#### SOCIAL SCIENTISTS AND URBAN PLANNERS

A166 Economists  
A167 Psychologists  
A168 Sociologists  
A169 Social Scientists, n.e.c.  
A173 Urban Planners

#### SOCIAL, RECREATION, AND RELIGIOUS WORKERS

A174 Social Workers  
A175 Recreation Workers  
A176 Clergy  
A177 Religious Workers, n.e.c.

#### LAWYERS AND JUDGES

A178 Lawyers  
A179 Judges

#### WRITERS, AUTHORS, ENTERTAINERS, ATHLETES, AND PROFESSIONALS, N.E.C.

A183 Authors

A184 Technical Writers  
A185 Designers  
A186 Musicians and Composers  
A187 Actors and Directors  
A188 Painters, Sculptors, Craft-Artists, and Artist Print-Makers  
A189 Photographers  
A193 Dancers  
A194 Artists, Performers, and Related Workers, n.e.c.  
A195 Editors and Reporters  
A197 Public Relations Specialists  
A198 Announcers  
A199 Athletes  
A999 Professional Occupations, n.e.c.

#### TECHNICAL OCCUPATIONS

##### HEALTH TECHNOLOGISTS AND TECHNICIANS

A203 Clinical Laboratory Technologists and Technicians  
A204 Dental Hygienists  
A205 Health Record Technologists and Technicians  
A206 Radiologic Technicians  
A207 Licensed Practical Nurses  
A208 Health Technologists and Technicians, n.e.c.

##### ENGINEERING AND RELATED TECHNOLOGISTS AND TECHNICIANS

A213 Electrical and Electronic Technicians  
A214 Industrial Engineering Technicians  
A215 Mechanical Engineering Technicians  
A216 Engineering Technicians, n.e.c.  
A217 Drafters  
A218 Surveying and Mapping Technicians

##### SCIENCE TECHNICIANS

A223 Biological Technicians  
A224 Chemical Technicians  
A225 Science Technicians, n.e.c.

##### MISCELLANEOUS TECHNICIANS

A226 Airplane Pilots and Navigators  
A227 Air Traffic Controllers  
A228 Broadcast Equipment Operators  
A229 Computer Programmers  
A233 Tool Programmers, Numerical Control  
A234 Legal Assistants  
A235 Technical and Related Occupations, n.e.c.

**Major group B:**

**EXECUTIVE, ADMINISTRATIVE, AND  
MANAGERIAL OCCUPATIONS**

EXECUTIVES, ADMINISTRATORS, AND  
MANAGERS

- B003 Legislators
- B004 Chief Executives and General Administrators,  
Public Administration
- B005 Administrators and Officials, Public Adminis-  
tration
- B007 Financial Managers
- B008 Personnel and Labor Relations Managers
- B009 Purchasing Managers
- B013 Managers: Marketing, Advertising, and Public  
Relations
- B014 Administrators, Education and Related Fields
- B015 Managers, Medicine and Health
- B016 Postmasters and Mail Superintendents
- B017 Managers, Food Serving and Lodging  
Establishments
- B018 Managers, Properties and Real Estate
- B019 Funeral Directors
- B021 Managers, Service Organizations, n.e.c.
- B022 Managers and Administrators, n.e.c.

MANAGEMENT RELATED OCCUPATIONS

- B023 Accountants and Auditors
- B024 Underwriters
- B025 Other Financial Officers
- B026 Management Analysts
- B027 Personnel, Training, and Labor Relations  
Specialists
- B028 Purchasing Agents and Buyers, Farm Products
- B029 Buyers, Wholesale and Retail Trade, Except  
Farm Products
- B033 Purchasing Agents and Buyers, n.e.c.
- B034 Business and Promotion Agents
- B035 Construction Inspectors
- B036 Inspectors and Compliance Officers, Except  
Construction
- B037 Management Related Occupations, n.e.c.

**Major group C:**

**SALES OCCUPATIONS**

- C243 Supervisors: Sales Occupations

FINANCE AND BUSINESS SERVICES, SALES  
REPRESENTATIVES

- C253 Insurance Sales Occupations

- C254 Real Estate Sales Occupations
- C255 Securities and Financial Services Sales  
Occupations
- C256 Advertising and Related Sales Occupations
- C257 Sales Occupations, Other Business Services

SALES REPRESENTATIVES, COMMODITIES  
EXCEPT RETAIL

- C258 Sales Engineers
- C259 Sales Representatives: Mining, Manufactur-  
ing, and Wholesale

RETAIL AND PERSONAL SERVICES SALES  
WORKERS

- C263 Sales Workers, Motor Vehicles and Boats
- C264 Sales Workers, Apparel
- C265 Sales Workers, Shoes
- C266 Sales Workers, Furniture and Home Furnish-  
ings
- C267 Sales Workers, Radio, TV, Hi-Fi, and Appli-  
ances
- C268 Sales Workers, Hardware and Building  
Supplies
- C269 Sales Workers, Parts
- C274 Sales Workers, Other Commodities
- C275 Sales Counter Clerks
- C276 Cashiers
- C277 Street and Door-To-Door Sales Workers
- C278 News Vendors

SALES RELATED OCCUPATIONS

- C283 Demonstrators, Promoters, and Models, Sales
- C284 Auctioneers
- C285 Sales Support Occupations, n.e.c.

**Major group D:**

**ADMINISTRATIVE SUPPORT OCCUPATIONS,  
INCLUDING CLERICAL**

SUPERVISORS, CLERICAL AND ADMINISTRATIVE  
SUPPORT

- D303 Supervisors: General Office
- D304 Supervisors: Computer Equipment Operators
- D305 Supervisors: Financial Records Processing
- D306 Chief Communications Operators
- D307 Supervisors: Distribution, Scheduling, and  
Adjusting Clerks

COMPUTER EQUIPMENT OPERATORS

- D308 Computer Operators
- D309 Peripheral Equipment Operators

SECRETARIES, STENOGRAPHERS, AND TYPISTS

- D313 Secretaries
- D314 Stenographers
- D315 Typists

INFORMATION CLERKS

- D316 Interviewers
- D317 Hotel Clerks
- D318 Transportation Ticket and Reservation Agents
- D319 Receptionists
- D323 Information Clerks, n.e.c.

RECORDS PROCESSING CLERKS, EXCEPT FINANCIAL

- D325 Classified-Ad Clerks
- D326 Correspondence Clerks
- D327 Order Clerks
- D328 Personnel Clerks, Except Payroll and Time-keeping
- D329 Library Clerks
- D335 File Clerks
- D336 Records Clerks, n.e.c.

FINANCIAL RECORDS PROCESSING CLERKS

- D337 Bookkeepers, Accounting, and Auditing Clerks
- D338 Payroll and Timekeeping Clerks

- D339 Billing Clerks
- D343 Cost and Rate Clerks
- D344 Billing, Posting, and Calculating Machine Operators

DUPLICATING, MAIL, AND OTHER OFFICE MACHINE OPERATORS

- D345 Duplicating Machine Operators
- D346 Mail Preparing and Paper Handling Machine Operators
- D347 Office Machine Operators, n.e.c.

COMMUNICATIONS EQUIPMENT OPERATORS

- D348 Telephone Operators
- D353 Communications Equipment Operators, n.e.c.

MAIL AND MESSAGE DISTRIBUTING OCCUPATIONS

- D356 Mail Clerks, Except Postal Service
- D357 Messengers

MATERIAL RECORDING, SCHEDULING, AND DISTRIBUTING CLERKS

- D359 Dispatchers
- D363 Production Coordinators
- D364 Traffic, Shipping, and Receiving Clerks
- D365 Stock and Inventory Clerks
- D366 Meter Readers
- D368 Weighers, Measurers, Checkers, and Samplers
- D373 Expeditors
- D374 Material Recording, Scheduling, and Distributing Clerks, n.e.c.

ADJUSTERS AND INVESTIGATORS

- D375 Insurance Adjusters, Examiners, and Investigators
- D376 Investigators and Adjusters, Except Insurance
- D377 Eligibility Clerks, Social Welfare
- D378 Bill and Account Collectors

MISCELLANEOUS ADMINISTRATIVE SUPPORT OCCUPATIONS

- D379 General Office Clerks
- D383 Bank Tellers
- D384 Proofreaders
- D385 Data Entry Keyers
- D386 Statistical Clerks
- D387 Teachers' Aides
- D389 Administrative Support Occupations, n.e.c.

**Major group E:**

**PRECISION PRODUCTION, CRAFT, AND REPAIR OCCUPATIONS**

MECHANICS AND REPAIRERS

- E503 Supervisors: Mechanics and Repairers
- E505 Automobile Mechanics
- E506 Automobile Mechanic Apprentices
- E507 Bus, Truck, and Stationary Engine Mechanics
- E508 Aircraft Engine Mechanics
- E509 Small Engine Repairers
- E514 Automobile Body and Related Repairers
- E515 Aircraft Mechanics, Except Engine
- E516 Heavy Equipment Mechanics
- E517 Farm Equipment Mechanics
- E518 Industrial Machinery Repairers
- E519 Machinery Maintenance Occupations
- E523 Electronic Repairers, Communications and Industrial Equipment
- E525 Data Processing Equipment Repairers
- E526 Household Appliance and Power Tool Repairers



E527 Telephone Line Installers and Repairers  
E529 Telephone Installers and Repairers  
E534 Heating, Air Conditioning, and Refrigeration Mechanics  
E535 Camera, Watch, and Musical Instrument Repairers  
E536 Locksmiths and Safe Repairers  
E538 Office Machine Repairers  
E539 Mechanical Controls and Valve Repairers  
E543 Elevator Installers and Repairers  
E544 Millwrights  
E547 Mechanics and Repairers, n.e.c.

#### SUPERVISORS, CONSTRUCTION TRADES

E553 Supervisors: Brickmasons, Stonemasons, and Tilersetters  
E554 Supervisors: Carpenters and Related Workers  
E555 Supervisors: Electricians and Power Transmission Installers  
E556 Supervisors: Painters, Paperhangers, and Plasterers  
E557 Supervisors: Plumbers, Pipefitters, and Steamfitters  
E558 Supervisors: Construction Trades, n.e.c.

#### CONSTRUCTION TRADES OCCUPATIONS

E563 Brickmasons and Stonemasons  
E564 Brickmason and Stonemason Apprentices  
E565 Tile Setters, Hard and Soft  
E566 Carpet Installers  
E567 Carpenters  
E569 Carpenter Apprentices  
E573 Drywall Installers  
E575 Electricians  
E576 Electrician Apprentices  
E577 Electrical Power Installers and Repairers  
E579 Painters, Construction and Maintenance  
E583 Paperhangers  
E584 Plasterers  
E585 Plumbers, Pipefitters, and Steamfitters  
E587 Plumber, Pipefitter, and Steamfitter Apprentices  
E588 Concrete and Terrazzo Finishers  
E589 Glaziers  
E593 Insulation Workers  
E594 Paving, Surfacing, and Tamping Equipment Operators  
E595 Roofers  
E596 Sheetmetal Duct Installers  
E597 Structural Metal Workers  
E598 Drillers, Earth  
E599 Construction Trades, n.e.c.

#### EXTRACTIVE OCCUPATIONS

E613 Supervisors: Extractive Occupations  
E614 Drillers, Oil Well  
E615 Explosives Workers  
E616 Mining Machine Operators  
E617 Mining Occupations, n.e.c.

#### PRECISION PRODUCTION OCCUPATIONS

E628 Supervisors: Production Occupations

#### PRECISION METAL WORKING OCCUPATIONS

E634 Tool and Die Makers  
E635 Tool and Die Maker Apprentices  
E636 Precision Assemblers, Metal  
E637 Machinists  
E639 Machinist Apprentices  
E643 Boilermakers  
E644 Precision Grinders, Filers, and Tool Sharpeners  
E645 Patternmakers and Modelmakers, Metal  
E646 Layout Workers  
E647 Precious Stones and Metals Workers  
E649 Engravers, Metal  
E653 Sheet Metal Workers  
E654 Sheet Metal Worker Apprentices

#### PRECISION WOODWORKING OCCUPATIONS

E656 Patternmakers and Modelmakers, Wood  
E657 Cabinet Makers and Bench Carpenters  
E658 Furniture and Wood Finishers

#### PRECISION TEXTILE, APPAREL, AND FURNISHINGS MACHINE WORKERS

E666 Dressmakers  
E667 Tailors  
E668 Upholsterers  
E669 Shoe Repairers

#### PRECISION WORKERS, ASSORTED MATERIALS

E675 Hand Molders and Shapers, Except Jewelers  
E676 Patternmakers, Layout Workers, and Cutters  
E677 Optical Goods Workers  
E678 Dental Laboratory and Medical Appliance Technicians  
E679 Bookbinders  
E683 Electrical and Electronic Equipment Assemblers  
E684 Miscellaneous Precision Workers, n.e.c.

## PRECISION FOOD PRODUCTION OCCUPATIONS

- E685 Precision Food Production Occupations, n.e.c.
- E686 Butchers and Meat Cutters
- E687 Bakers
- E688 Food Batchmakers

## PRECISION INSPECTORS, TESTERS, AND RELATED WORKERS

- E689 Inspectors, Testers, and Graders
- E690 Precision Inspectors, Testers, and Related Workers, n.e.c.
- E693 Adjusters and Calibrators

## PLANT AND SYSTEM OPERATORS

- E694 Water and Sewage Treatment Plant Operators
- E695 Power Plant Operators
- E696 Stationary Engineers
- E699 Miscellaneous Plant and System Operators, n.e.c.

### Major group F:

## MACHINE OPERATORS, ASSEMBLERS, AND INSPECTORS

### METALWORKING AND PLASTIC WORKING MACHINE OPERATORS

- F703 Lathe and Turning-Machine Set-Up Operators
- F704 Lathe and Turning-Machine Operators
- F705 Milling and Planing Machine Operators
- F706 Punching and Stamping Press Operators
- F707 Rolling Machine Operators
- F708 Drilling and Boring Machine Operators
- F709 Grinding, Abrading, Buffing, and Polishing Machine Operators
- F713 Forging Machine Operators
- F714 Numerical Control Machine Operators
- F717 Fabricating Machine Operators, n.e.c.
- F719 Molding and Casting Machine Operators
- F723 Metal Plating Machine Operators
- F724 Heat Treating Equipment Operators

### WOODWORKING MACHINE OPERATORS

- F726 Wood Lathe, Routing, and Planing Machine Operators
- F727 Sawing Machine Operators
- F728 Shaping and Joining Machine Operators
- F729 Nailing and Tacking Machine Operators

### PRINTING MACHINE OPERATORS

- F734 Printing Press Operators
- F735 Photoengravers and Lithographers
- F736 Typesetters and Compositors

## TEXTILE, APPAREL, AND FURNISHINGS MACHINE OPERATORS

- F738 Winding and Twisting Machine Operators
- F739 Knitting, Looping, Taping, and Weaving Machine Operators
- F743 Textile Cutting Machine Operators
- F744 Textile Sewing Machine Operators
- F745 Shoe Machine Operators
- F747 Pressing Machine Operators
- F748 Laundering and Dry Cleaning Machine Operators

## MACHINE OPERATORS, ASSORTED MATERIALS

- F753 Cementing and Gluing Machine Operators
- F754 Packaging and Filling Machine Operators
- F755 Extruding and Forming Machine Operators
- F756 Mixing and Blending Machine Operators
- F757 Separating, Filtering, and Clarifying Machine Operators
- F758 Compressing and Compacting Machine Operators
- F759 Painting and Paint Spraying Machine Operators
- F763 Roasting and Baking Machine Operators, Food
- F764 Washing, Cleaning, and Pickling Machine Operators
- F765 Folding Machine Operators
- F766 Furnace, Kiln, and Oven Operators, Except Food
- F768 Crushing and Grinding Machine Operators
- F769 Slicing and Cutting Machine Operators
- F773 Motion Picture Projectionists
- F774 Photographic Process Machine Operators
- F777 Miscellaneous Machine Operators, n.e.c.

## FABRICATORS, ASSEMBLERS, AND HAND WORKING OCCUPATIONS

- F783 Welders and Cutters
- F784 Solderers and Brazers
- F785 Assemblers
- F786 Hand Cutting and Trimming Occupations
- F787 Hand Molding, Casting, and Forming Occupations
- F789 Hand Painting, Coating, and Decorating Occupations
- F793 Hand Engraving and Printing Occupations
- F795 Miscellaneous Hand Working Occupations, n.e.c.

PRODUCTION INSPECTORS, TESTERS,  
SAMPLERS, AND WEIGHERS

- F796 Production Inspectors, Checkers, and Examiners
- F797 Production Testers
- F798 Production Samplers and Weighers
- F799 Graders and Sorters, Except Agricultural
- F800 Hand Inspectors, n.e.c.

**Major group G:**

**TRANSPORTATION AND MATERIAL MOVING  
OCCUPATIONS**

MOTOR VEHICLE OPERATORS

- G803 Supervisors: Motor Vehicle Operators
- G804 Truck Drivers
- G806 Driver-Sales Workers
- G808 Bus Drivers
- G809 Taxicab Drivers and Chauffeurs
- G813 Parking Lot Attendants
- G814 Motor Transportation Occupations, n.e.c.

RAILROAD TRANSPORTATION OCCUPATIONS

- G823 Railroad Conductors and Yardmasters
- G824 Locomotive Operating Occupations
- G825 Railroad Brake, Signal, and Switch Operators
- G826 Rail Vehicle Operators, n.e.c.

WATER TRANSPORTATION OCCUPATIONS

- G828 Ship Captains and Mates, Except Fishing Boats
- G829 Sailors and Deckhands
- G833 Marine Engineers
- G834 Bridge, Lock, and Lighthouse Tenders

MATERIAL MOVING EQUIPMENT OPERATORS

- G843 Supervisors: Material Moving Equipment Operators
- G844 Operating Engineers
- G845 Longshore Equipment Operators
- G848 Hoist and Winch Operators
- G849 Crane and Tower Operators
- G853 Excavating and Loading Machine Operators
- G855 Grader, Dozer, and Scraper Operators
- G856 Industrial Truck and Tractor Equipment Operators
- G859 Miscellaneous Material Moving Equipment Operators, n.e.c.

**Major group H:**

**HANDLERS, EQUIPMENT CLEANERS, HELPERS,  
AND LABORERS**

FARM, FISHING, AND FORESTRY OCCUPATIONS -  
NONFARM SECTOR

- H483 Marine Life Cultivation Workers
- H484 Nursery Workers
- H485 Supervisors: Agriculture-Related Workers
- H486 Groundskeepers and Gardeners, Except Farm
- H487 Animal Caretakers, Except Farm
- H489 Inspectors, Agricultural Products
- H494 Supervisors: Forestry and Logging Workers
- H495 Forestry Workers, Except Logging
- H496 Timber Cutting and Logging Occupations
- H497 Captains and Other Officers, Fishing Vessels
- H498 Fishers, Hunters, and Trappers

HELPERS, HANDLERS, AND LABORERS

- H864 Supervisors: Handlers, Equipment Cleaners, and Laborers, n.e.c.
- H865 Helpers, Mechanics and Repairers
- H866 Helpers, Construction Trades
- H867 Helpers, Surveyor
- H868 Helpers, Extractive Occupations
- H869 Construction Laborers
- H874 Production Helpers
- H875 Garbage Collectors
- H876 Stevedores
- H877 Stock Handlers and Baggers
- H878 Machine Feeders and Offbearers
- H883 Freight, Stock, and Material Handlers, n.e.c.
- H885 Garage and Service Station Related Occupations
- H887 Vehicle Washers and Equipment Cleaners
- H888 Hand Packers and Packagers
- H889 Laborers, Except Construction, n.e.c.

**Major group K:**

**SERVICE OCCUPATIONS, EXCEPT PRIVATE  
HOUSEHOLD**

PROTECTIVE SERVICE OCCUPATIONS

- K413 Supervisors: Firefighting and Fire Prevention Occupations
- K414 Supervisors: Police and Detectives
- K415 Supervisors: Guards
- K416 Fire Inspection and Fire Prevention Occupations

K417 Firefighting Occupations  
K418 Police and Detectives, Public Service  
K423 Sheriffs, Bailiffs, and Other Law Enforcement  
Officers  
K424 Correctional Institution Officers  
K425 Crossing Guards  
K426 Guards and Police, Except Public  
Service  
K427 Protective Service Occupations, n.e.c.

#### FOOD SERVICE OCCUPATIONS

K433 Supervisors: Food Preparation and Service  
Occupations  
K434 Bartenders  
K435 Waiters and Waitresses  
K436 Cooks  
K438 Food Counter, Fountain, and Related  
Occupations  
K439 Kitchen Workers, Food Preparation  
K443 Waiters'/Waitresses' Assistants  
K444 Food Preparation Occupations, n.e.c.

#### HEALTH SERVICE OCCUPATIONS

K445 Dental Assistants

K446 Health Aides, Except Nursing  
K447 Nursing Aides, Orderlies, and Attendants

#### CLEANING AND BUILDING SERVICE OCCUPATIONS

K448 Supervisors: Cleaning and Building Service  
Workers  
K449 Maids and Housemen  
K453 Janitors and Cleaners  
K454 Elevator Operators  
K455 Pest Control Occupations

#### PERSONAL SERVICE OCCUPATIONS

K456 Supervisors: Personal Service Occupations  
K457 Barbers  
K458 Hairdressers and Cosmetologists  
K459 Attendants, Amusement and Recreation Fa-  
cilities  
K461 Guides  
K462 Ushers  
K463 Public Transportation Attendants  
K464 Baggage Porters and Bellhops  
K465 Welfare Service Aides  
K467 Early Childhood Teacher's Assistants  
K468 Child Care Workers, n.e.c.  
K469 Service Occupations, n.e.c.

## Appendix C. Generic Leveling Criteria

**B**elow are the 10 criteria for the generic leveling of occupations. The description of each level within a factor is included. An example of using these criteria for leveling a job follows in Appendix D.

**KNOWLEDGE** measures the nature and extent of information or facts which the workers must understand to do acceptable work (e.g., steps, procedures, practices, rules, policies, theories, principles, and concepts) and the nature and extent of the skills needed to apply those forms of knowledge. To be used as a basis for selecting a level under this factor, the knowledge must be required and applied.

1. Knowledge of simple, routine, or repetitive tasks or operations that typically includes following step-by-step instructions and requires little or no previous training or experience;

OR

Skill to operate simple equipment or equipment that operates repetitively, requiring little or no previous training or experience;

OR

Equivalent knowledge and skill.

2. Knowledge of basic or commonly used rules, procedures, or operations that typically requires some previous training or experience;

OR

Basic skill to operate equipment requiring some previous training or experience, such as keyboard equipment;

OR

Equivalent knowledge and skill.

3. Knowledge of a body of standardized rules, procedures, operations, goods, services, tools, or equipment, requiring considerable training and experience to perform the full range of standard clerical assignments and resolve recurring problems;

OR

Skill, acquired through considerable training and experience, to operate and adjust varied equipment for purposes such as performing numerous standardized tests or operations;

OR

Equivalent knowledge and skill.

4. Knowledge of an extensive body of rules, procedures, operations, products, or services, requiring extended training and experience to perform a wide variety of interrelated or nonstandard procedural assignments and resolve a wide range of problems;

OR

Practical knowledge of standard procedures in a technical field, requiring extended training or experience, to perform such work as: Adapting equipment when this requires considering the functioning characteristics of equipment; interpreting results of tests based on previous experience and observations (rather than directly reading instruments or other measures); or extracting information from various sources when this requires considering the applicability of information and the characteristics and quality of the sources;

OR

Comprehensive knowledge of a blue-collar skill, usually acquired through a formal apprenticeship;

OR

Equivalent knowledge and skill.

5. Knowledge (such as would be acquired through a pertinent baccalaureate educational program or its equivalent in experience, training, or independent study) of basic principles, concepts, and methodology of a professional or administrative occupation, and skill in applying this knowledge in carrying out elementary assignments, operations, or procedures;

OR

In addition to the practical knowledge of standard procedures in Level 4, practical knowledge of technical methods to perform assignments such as carrying out limited projects that involve use of specialized, complicated techniques;

OR

Advanced knowledge of a blue-collar skill to solve unusually complex problems;

OR

Equivalent knowledge and skill.

6. Knowledge of the principles, concepts, and methodology of a professional or administrative occupation, as described at Level 5, that has been either: (a) Supplemented by skill gained through job experience to permit independent per-

formance of recurring assignments, or (b) supplemented by expanded professional or administrative knowledge, gained through relevant graduate study or experience, that has provided skill in carrying out assignments, operations, and procedures in the occupation that are significantly more difficult and complex than those covered by Level 5;

OR

Practical knowledge of a wide range of technical methods, principles, and practices similar to a narrow area of a professional field, and skill in applying this knowledge to such assignments as the design and planning of difficult, but well-precedented projects;

OR

Equivalent knowledge and skill.

7. Knowledge of a wide range of concepts, principles, and practices in a professional or administrative occupation, such as would be gained through extended graduate study or experience, and skill in applying this knowledge to difficult and complex work assignments;

OR

A comprehensive, intensive, practical knowledge of a technical field and skill in applying this knowledge to the development of new methods, approaches, or procedures;

OR

Equivalent knowledge and skill.

8. Mastery of a professional or administrative field to:

Apply experimental theories and new developments to problems not susceptible to treatment by accepted methods;

OR

Make decisions or recommendations significantly changing, interpreting, or developing important policies or programs;

OR

Equivalent knowledge and skill.

9. Mastery of a professional field to generate and develop new hypotheses and theories;

OR

Equivalent knowledge and skill.

**SUPERVISION RECEIVED** covers the nature and extent of direct or indirect controls exercised by the supervisor, the employee's responsibility, and the review of completed work. Controls are exercised by the supervisor in the way assignments are made, instructions are given to the employee, priorities and deadlines are set, and objectives and boundaries are defined. Responsibility of the employee depends upon the extent to which the employee is expected to develop the sequence and timing of various aspects of the work, to modify or recommend modification of instructions, and to participate in establishing priorities and defining objectives. The degree of review of completed work depends upon the nature and extent of the review, e.g., close and detailed review of each phase of the assignment; detailed review of

the finished assignment; spot-check of finished work for accuracy; or review only for adherence to policy.

1. For both one-of-a-kind and repetitive tasks, the supervisor makes specific assignments that are accompanied by clear, detailed, and specific instructions.

The employee works as instructed and consults with the supervisor as needed on all matters not specifically covered in the original instructions or guidelines.

For all positions, the work is closely controlled. For some positions, the control is through the structured nature of the work itself; for others, it may be controlled by the circumstances in which it is performed. In some situations, the supervisor maintains control through review of the work, which may include checking progress or reviewing completed work for accuracy, adequacy, and adherence to instructions and established procedures.

2. The supervisor provides continuing or individual assignments by indicating generally what is to be done, limitations, quality and quantity expected, deadlines, and priority of assignments. The supervisor provides additional, specific instructions for new, difficult, or unusual assignments including suggested work methods or advice on source material available.

The employee uses initiative in carrying out recurring assignments independently without specific instruction, but refers deviations, problems, and unfamiliar situations not covered by instructions to the supervisor for decision or help.

The supervisor assures that finished work and methods used are technically accurate and in compliance with instructions or established procedures. Review of the work increases with more difficult assignments if the employee has not previously performed similar assignments.

3. The supervisor makes assignments by defining objectives, priorities, and deadlines; and assists employee with unusual situations that do not have clear precedents.

The employee plans and carries out the successive steps and handles problems and deviations in the work assignment in accordance with instructions, policies, previous training, or accepted practices in the occupation.

Completed work usually is evaluated for technical soundness, appropriateness, and conformity to policy and requirements. The methods used in arriving at the end results are not usually reviewed in detail.

4. The supervisor sets the overall objectives and resources available. The employee and supervisor, in consultation, develop the deadlines, projects, and work to be done.

At this level, the employee, having developed expertise in the line of work, is responsible for planning and carrying out the assignment; resolving most of the conflicts that arise; coordinating the work with others as necessary; and interpreting policy on own initiative in terms of established objectives. In some assignments, the employee also deter-

mines the approach to be taken and the methodology to be used. The employee keeps the supervisor informed of progress, potentially controversial matters, or far-reaching implications.

Completed work is reviewed only from an overall standpoint in terms of feasibility, compatibility with other work, or effectiveness in meeting requirements or expected results.

5. The supervisor provides administrative direction with assignments in terms of broadly defined missions or functions.

The employee has responsibility for planning, designing, and carrying out programs, projects, studies, or other work independently.

Results of the work are considered as technically authoritative and are normally accepted without significant change. If the work should be reviewed, the review concerns such matters as fulfillment of program objectives, effect of advice and influence on the overall program, or the contribution to the advancement of technology. Recommendations for new projects and alteration of objectives usually are evaluated for such considerations as availability of funds and other resources, broad program goals, or priorities.

**GUIDELINES** covers the nature of guidelines and the judgment needed to apply them. Guidelines used include, for example: Desk manuals, established procedures and policies, traditional practices, and reference materials such as dictionaries, style manuals, engineering handbooks, and the pharmacopoeia.

Individual jobs in different occupations vary in the specificity, applicability and availability of the guidelines for performance of assignments. Consequently, the constraints and judgmental demands placed upon employees also vary. For example, the existence of specific instructions, procedures, and policies may limit the opportunity of the employee to make or recommend decisions or actions. However, in the absence of procedures or under broadly stated objectives, employees in some occupations may use considerable judgment in researching literature and developing new methods.

Guidelines should not be confused with the forms of knowledge described under Factor 1, Knowledge. Guidelines either provide reference data or impose certain constraints on the use of knowledge. For example, in the field of medical technology, there may be three or four standardized tests for a particular diagnosis set forth in a technical manual. A medical technologist is expected to know these diagnostic tests. However, in a given laboratory, the policy may be to use only one of the tests; or the policy may state specifically under what conditions one or the other of these tests may be used.

1. Specific, detailed guidelines covering all important aspects of the assignment are provided to the employee. The employee works in strict adherence to the guidelines; deviations must be authorized by the supervisor.

2. Procedures for doing the work have been established and a number of specific guidelines are available.

The number and similarity of guidelines and work situations require the employee to use judgment in locating and selecting the most appropriate guidelines, references, and procedures for application, and in making minor deviations to adapt the guidelines in specific cases. At this level, the employee may also determine which of several established alternatives to use. Situations to which the existing guidelines cannot be applied or significant proposed deviations from the guidelines are referred to the supervisor.

3. Guidelines are available, but are not completely applicable to the work or have gaps in specificity.

The employee uses judgment in interpreting and adapting guidelines such as policies, regulations, precedents, and work directions for application to specific cases or problems. The employee analyzes results and recommends changes.

4. Administrative policies and precedents are applicable but are stated in general terms. Guidelines for performing the work are scarce or of limited use.

The employee uses initiative and resourcefulness in deviating from traditional methods or researching trends and patterns to develop new methods, criteria, or proposed new policies.

5. Guidelines are broadly stated and nonspecific, e.g., broad policy statements and basic legislation that require extensive interpretation.

The employee must use judgment and ingenuity in interpreting the intent of the guidelines that do exist and in developing applications to specific areas of work. Frequently, the employee is recognized as a technical authority in the development and interpretation of guidelines.

**COMPLEXITY** covers the nature, number, variety, and intricacy of tasks, steps, processes, or methods in the work performed; the difficulty in identifying what needs to be done; and the difficulty and originality involved in performing the work.

1. The work consists of tasks that are clear-cut and directly related.

There is little or no choice to be made in deciding what needs to be done.

Actions to be taken or responses to be made are readily discernible. The work is quickly mastered.

2. The work consists of duties that involve related steps, processes, or methods.

The decision regarding what needs to be done involves various choices requiring the employee to recognize the existence of and differences among a few easily recognizable situations.

Actions to be taken or responses to be made differ in re-

gard to such things as the source of information, the kind of transactions or entries, or other matters of a factual nature.

3. The work includes various duties involving different and unrelated processes and methods.

The decision regarding what needs to be done depends upon the analysis of the subject, phase, or issues involved in each assignment, and the chosen course of action may have to be selected from many alternatives.

The work involves conditions and elements that must be identified and analyzed to discern interrelationships.

4. The work typically includes varied duties requiring many different and unrelated processes and methods, such as those relating to well-established aspects of an administrative or professional field.

Decisions regarding what needs to be done include the assessment of unusual circumstances, variations in approach, and incomplete or conflicting data.

The work requires making many decisions concerning such things as the interpreting of considerable data, planning of the work, or refining the methods and techniques to be used.

5. The work includes varied duties requiring many different and unrelated processes and methods applied to a broad range of activities or substantial depth of analysis, typically for an administrative or professional field.

Decisions regarding what needs to be done include major areas of uncertainty in approach, methodology, or interpretation and evaluation processes resulting from such elements as continuing changes in program, technological developments, unknown phenomena, or conflicting requirements.

The work requires originating new techniques, establishing criteria, or developing new information.

6. The work consists of broad functions and processes of an administrative or professional field. Assignments are characterized by breadth and intensity of effort and involve several phases being pursued concurrently or sequentially with the support of others within or outside of the organization.

Decisions regarding what needs to be done include largely undefined issues and elements, requiring extensive probing and analysis to determine the nature and scope of the problems.

The work requires continuing efforts to establish concepts, theories, or programs, or to resolve unyielding problems.

**SCOPE AND EFFECT** covers the relationship between the nature of the work, i.e., the purpose, breadth, and depth of the assignment, and the effect of work products or services both within and outside the organization.

Effect measures such things as whether the work output facilitates the work of others, provides timely services of a personal nature, or affects the adequacy of research conclusions. The concept of effect alone does not provide sufficient

information to properly understand and evaluate the impact of the position. The scope of the work completes the picture, allowing consistent evaluations. Only the effect of properly performed work is to be considered.

1. The work involves the performance of specific, routine operations that include a few separate tasks or procedures.

The work product or service is required to facilitate the work of others; however, it has little impact beyond the immediate organizational unit or beyond the timely provision of limited services to others.

2. The work involves the execution of specific rules, regulations, or procedures and typically comprises a complete segment of an assignment or project of broader scope.

The work product or service affects the accuracy, reliability, or acceptability of further processes or services.

3. The work involves treating a variety of conventional problems, questions, or situations in conformance with established criteria.

The work product or service affects the design or operation of systems, programs, or equipment; the adequacy of such activities as field investigations, testing operations, or research conclusions; or the social, physical, and economic well-being of persons.

4. The work involves establishing criteria; formulating projects; assessing program effectiveness; or investigating or analyzing variety of unusual conditions, problems, or questions.

The work product or service affects a wide range of establishment activities, major activities of industrial concerns, or the operation of other organizations.

5. The work involves isolating and defining unknown conditions, resolving critical problems, or developing new theories.

The work product or service affects the work of other experts, the development of major aspects of administrative or scientific programs or missions, or the well-being of substantial numbers of people.

6. The work involves planning, developing, and carrying out vital administrative or scientific programs.

The programs are essential to the missions of the overall organization or affect large numbers of people on a long-term or continuing basis.

**PERSONAL CONTACTS** includes face-to-face contacts and telephone and radio dialogue with persons not in the supervisory chain. (NOTE: Personal contacts with supervisors are covered under Factor 2, Supervision Received.) Levels described under this factor are based on what is required to make the initial contact, the difficulty of communicating with those contacted, and the setting in which the



contact takes place (e.g., the degree to which the employee and those contacted recognize their relative roles and authorities).

Above the lowest level, points should be credited under this factor only for contacts that are essential for successful performance of the work, and that have a demonstrable impact on the difficulty and responsibility of the work performed.

The relationship of Factors 6 (Personal Contacts) and 7 (Purpose of Contacts) presumes that the same contacts will be evaluated for both factors. Therefore, the personal contacts that serve as the basis for the level selected for Factor 7 are used as the basis for selecting a level for Factor 6.

1. The personal contacts are with employees within the immediate organization, office, project, or work unit, and in related or support units;

AND/OR

The contacts are with members of the general public in very highly structured situations (e.g., the purpose of the contact and the question of whom to deal with are relatively clear). Typical of contacts at this level are purchases of admission tickets at a ticket window.

2. The personal contacts are with employees in the same overall organization, but outside the immediate organization. People contacted generally are engaged in different functions, missions, and kinds of work, and might include representatives from various levels within the overall organizations such as headquarters, district offices, or local offices, plants, stores, or other operating units in the immediate installation;

AND/OR

The contacts are with members of the general public, as individuals or groups, in a moderately structured setting (e.g., the contacts are generally established on a routine basis, usually at the employee's work place; the exact purpose of the contact may be unclear at first to one or more of the parties; and one or more of the parties may be uninformed concerning the role and authority of other participants).

3. The personal contacts are with individuals or groups from outside the employing establishment in a moderately unstructured setting (e.g., the contacts are not established on a routine basis; the purpose and extent of each contact are different and the role and authority of each party are identified and developed during the course of the contact). Typical of contacts at this level are those with persons in their capacities as attorneys; contractors; or representatives of professional organizations, the news media, or public action groups.

4. The personal contacts are with high-ranking officials from outside the employing establishment at national or international levels in highly unstructured settings (e.g., contacts are characterized by problems such as: the officials may be

relatively inaccessible; arrangements may have to be made for accompanying staff members; appointments may have to be made well in advance; each party may be very unclear as to the role and authority of the other; and each contact may be conducted under different ground rules). Typical of contacts at this level are those with presidents of large national or international firms, nationally recognized representatives of the news media, presidents of national unions, members of Congress, leading representatives of foreign governments, State governors, or mayors of large cities.

**PURPOSE OF CONTACTS** ranges from factual exchanges of information to situations involving significant or controversial issues and differing viewpoints, goals, or objectives. The personal contacts that serve as the basis for the level selected for this factor must be the same as the contacts that are the basis for the level selected for Factor 6.

1. The purpose is to obtain, clarify, or give facts or information, regardless of the nature of those facts, i.e., the facts or information may range from easily understood to highly technical.

2. The purpose is to plan, coordinate, or advise on work efforts or to resolve operating problems by influencing or motivating individuals or groups who are working toward mutual goals and who have basically cooperative attitudes.

3. The purpose is to influence, motivate, convince, or question persons or groups. Those contacted may be hesitant or skeptical, so the employee must be skillful in approaching the individual or group in order to obtain the desired response;

OR

The purpose is to interrogate or control persons or groups who may be fearful, uncooperative, or dangerous. Therefore, the employee must be skillful in approaching the individual or group in order to obtain the desired effect, such as gaining compliance with established policies and regulations by persuasion or negotiation, or gaining information by establishing rapport with a suspicious informant.

4. The purpose is to justify, defend, negotiate, or settle matters involving significant or controversial issues. Work at this level usually involves active participation in conferences, meetings, hearings, or presentations involving problems or issues of considerable consequence or importance. The persons contacted typically have diverse viewpoints, goals, or objectives requiring the employee to achieve a common understanding of the problem and a satisfactory solution by convincing them, arriving at a compromise, or developing suitable alternatives.

**PHYSICAL DEMANDS** covers the requirements and physical demands placed on the employee by the work assignment. This includes physical characteristics and abili-

ties (e.g., specific agility and dexterity requirements) and the physical exertion involved in the work (e.g., climbing, lifting, pushing, balancing, stooping, kneeling, crouching, crawling, or reaching). To some extent, the frequency or intensity of physical exertion must also be considered, e.g., a job requiring prolonged standing involves more physical exertion than a job requiring intermittent standing.

1. The work is sedentary. Typically, the employee may sit comfortably to do the work. However, there may be some walking; standing; bending; carrying of light items such as papers, books, or small parts; driving an automobile, etc. No special physical demands are required to perform the work.

2. The work requires some physical exertion, such as long periods of standing; walking over rough, uneven, or rocky surfaces; recurring bending, crouching, stooping, stretching, reaching, or similar activities; recurring lifting of moderately heavy items such as personal computers and record boxes. The work may require specific, but common, physical characteristics and abilities such as above-average agility and dexterity.

3. The work requires considerable and strenuous physical exertion such as frequent climbing of tall ladders, lifting heavy objects over 50 pounds, crouching or crawling in restricted areas, and defending oneself or others against physical attack.

**WORK ENVIRONMENT** considers the risks and discomforts in the employee's physical surroundings or the nature of the work assignment and the safety regulations required. Although the use of safety precautions can practically eliminate a certain danger or discomfort, such situations typically place additional demands upon the employee in complying with safety regulations and techniques.

1. The work environment involves everyday risks or discomforts that require normal safety precautions typical of such places as offices, meeting and training rooms, libraries, and residences or commercial vehicles, e.g., use of safe work practices with office equipment, avoidance of trips and falls, observance of fire regulations and traffic.

2. The work involves moderate risks or discomforts that require special safety precautions, e.g., working around moving parts, carts, or machines; with contagious diseases or irritant chemicals; etc. Employees may be required to use protective clothing or gear such as masks, gowns, coats, boots, goggles, gloves, or shields.

3. The work environment involves high risks of exposure to potentially dangerous situations or unusual environmental stress that require a range of safety and other precautions, e.g., working at great heights under extreme outdoor weather conditions, subject to possible physical attack or mob conditions, or in similar situations where conditions cannot be controlled.

**SUPERVISORY DUTIES** describes the level of supervisory responsibility for a position.

1. No supervisory responsibility.

2. A nonsupervisory position. Incumbent sets the pace of work for the group and shows other workers in the group how to perform assigned tasks. Commonly performs the same work as the group, in addition to lead duties. Can also be called group leader, team leader, or lead worker.

3. Directs staff through face to face meetings. Organizational structure is not complex and internal and administrative procedures are simple. Performing the same work as subordinates is not the principal duty. Typically, this is the first supervisory level.

4. Directs staff through intermediate supervisors. Internal procedures and administrative controls are formal. Organizational structure is complex and is divided into subordinate groups that may differ from each other as to subject matter and function.

5. Directs staff through two or more subordinate supervisory levels with several subdivisions at each level. Programs are usually interlocked on a direct and continuing basis with other organizational segments, requiring constant attention to extensive formal coordination, clearances, and procedural controls.

# Appendix D.

## Evaluating Your Firm's Jobs

To compare data on their firm's jobs with statistics contained in this bulletin, data users need to be able to determine their jobs' work levels. Using the example of a dental hygienist, this appendix will go through the procedure for determining the work level of a particular job.

To determine the work level of a job, it must be evaluated using the generic leveling factors. With the information available, such as a written position description and other knowledge of the job, each factor must be reviewed. Comparing that information to the descriptions of each level within a factor as shown in Appendix C, the level best matching the job should be chosen and recorded. (Note that the number of levels varies by factor.)

### Generic leveling: an example

#### Knowledge

Hygienist must have a dental hygienist license, which requires 2 years of schooling and passage of a technical exam. This is a mid-level hygienist job, which means that a worker must have at least 3 years of experience. The procedures are essentially the same every day, such as cleaning teeth, checking gums, and taking x-rays.

Level 4.

#### Supervision received

Most of the tasks are performed without supervision. For more complicated procedures, such as tooth filling, the dental hygienist assists the dentist.

Level 2.

#### Guidelines

A hygienist knows which procedure to use for different dental problems. Unusual situations are handled after checking with the supervisor.

Level 2.

#### Complexity

Each procedure performed leads to the next, for example, examining gums, scraping plaque, then cleaning teeth.

Level 2.

#### Scope and effect

In terms of process, the dentist's work follows the hygienist's. In terms of effect, the hygienist's doing a thorough cleaning in preparation for the dentist's work allows the dentist to do a complete exam and properly treat the patient.

Level 2.

#### Personal contacts

Patients come to the clinic or, occasionally, the hygienist will travel to perform work or give a talk at a school.

Level 2.

#### Purpose of contacts

Most of hygienist's interaction is with patients; no planning or coordination work is involved.

Level 1.

#### Physical demands

The work is sedentary.

Level 1.

#### Work environment

Hygienist must take precautions not to be exposed to x-rays, punctures, etc.

Level 2.

#### Supervisory duties

A dental hygienist at this level does not supervise anyone.

Level 1.

#### Assigning points

Once the correct level has been identified within each factor, the points associated with each level are recorded. Summing the points for all factors gives the total points for the job. Using the factors above and the table at the end of this section showing the points associated with each level within a factor, a sample worksheet was filled out for the dental hygienist position.

## Generic leveling worksheet

Company job title: Dental Hygienist

Factor	Level	Points
Knowledge	4	550
Supervision received	2	125
Guidelines	2	125
Complexity	2	75
Scope and effect	2	75
Personal contacts	2	25
Purpose of contacts	1	20
Physical demands	1	5
Work environment	2	20
Supervisory duties	1	0
<b>Total</b>	<b>5</b>	<b>1,020</b>

## Point ranges by work level

Range of Generic Level Points		
Level	Low	High
1	190	254
2	255	454
3	455	654
4	655	854
5	855	1,104
6	1,105	1,354
7	1,355	1,604
8	1,605	1,854
9	1,855	2,104
10	2,105	2,354
11	2,355	2,754
12	2,755	3,154
13	3,155	3,604
14	3,605	4,054
15	4,055 and up	

### Determining the work level

The following chart takes the point total determined using the worksheet and converts it to an overall work level for the job. There are 15 work levels, based on those used to rank Federal civil service white-collar jobs, each identified by a point range. The 1,020 total points for the dental hygienist job puts it in level 5.

### Comparing wages

Once the work level has been identified for a job, wages for that job can be compared to wages for similar jobs at the same work level. BLS publishes hourly wage rates by work level within nine major occupational groups, which are combinations of similar individual occupations. The groups and work levels available vary by area. Employers also can use the data on work levels to compare different jobs in their establishment.

### Points associated with each factor level

Factor	1	2	3	4	5	6	7	8	9
Knowledge	50	200	350	550	750	950	1,250	1,550	1,850
Supervision received	25	125	275	450	650	X	X	X	X
Guidelines	25	125	275	450	650	X	X	X	X
Complexity	25	75	150	225	325	450	X	X	X
Scope and effect	25	75	150	225	325	450	X	X	X
Personal contacts	10	25	60	110	X	X	X	X	X
Purpose of contacts	20	50	120	220	X	X	X	X	X
Physical demands	5	20	50	X	X	X	X	X	X
Work environment	5	20	50	X	X	X	X	X	X
Supervisory duties	0	0	0	0	0	X	X	X	X

Note: X indicates that a level is not associated with a given factor. For example, for physical demands, point levels 1, 2, and 3 are the only choices.

# Appendix E: Census Divisions and Survey Areas

This appendix lists the nine census divisions, the States included in each division, and the 154 metropolitan and nonmetropolitan areas surveyed under the NCS.

## Census Division and States

<p><b>NEW ENGLAND</b></p> <p>Connecticut Maine Massachusetts New Hampshire Rhode Island Vermont</p>	<p><b>MIDDLE ATLANTIC<sup>1</sup></b></p> <p>New Jersey New York Pennsylvania</p>	<p><b>EAST NORTH CENTRAL<sup>2</sup></b></p> <p>Illinois Indiana Michigan Ohio Wisconsin</p>	<p><b>WEST NORTH CENTRAL<sup>3</sup></b></p> <p>Iowa Kansas Minnesota Missouri Nebraska North Dakota South Dakota</p>
<p><b>SOUTH ATLANTIC</b></p> <p>Delaware District of Columbia Florida Georgia Maryland North Carolina South Carolina Virginia West Virginia</p>	<p><b>EAST SOUTH CENTRAL<sup>4</sup></b></p> <p>Alabama Kentucky Mississippi Tennessee</p>	<p><b>WEST SOUTH CENTRAL</b></p> <p>Arkansas Louisiana Oklahoma Texas</p>	<p><b>MOUNTAIN</b></p> <p>Arizona Colorado Idaho Montana Nevada New Mexico Utah Wyoming</p>
<p><b>PACIFIC</b></p> <p>Alaska California Hawaii Oregon Washington</p>			

<sup>1</sup> The Middle Atlantic census division also includes the New York, NY, Consolidated Metropolitan Statistical Area (which comprises parts of New York, New Jersey, Connecticut, and Pennsylvania), and the Philadelphia, PA, Consolidated Metropolitan Statistical Area (which comprises parts of Pennsylvania, New Jersey, Delaware, and Maryland).

<sup>2</sup> The East North Central census division also includes the Cincinnati, OH, Consolidated Metropolitan Statistical Area, which comprises parts of Ohio, Kentucky, and Indiana.

<sup>3</sup> The West North Central census division also includes the St. Louis, MO, Consolidated Metropolitan Statistical Area, which comprises parts of Missouri and Illinois, and the Minneapolis-St. Paul, MN, Metropolitan Statistical Area which comprises parts of Minnesota and Wisconsin.

<sup>4</sup> The East South Central census division also includes the Louisville, KY, Metropolitan Statistical Area, which comprises parts of Kentucky and Indiana, and the Memphis, TN, Metropolitan Statistical Area, which comprises parts of Tennessee, Arkansas, and Mississippi.

**Survey areas****Geographic coverage<sup>5</sup>**

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AMARILLO, TX*	MSA
ANCHORAGE, AK*	MSA
ANDREWS, TX*	COUNTY
ATLANTA, GA*	MSA
AUGUSTA-AIKEN, GA-SC*	MSA
AUSTIN-SAN MARCOS, TX*	MSA
BANNOCK, ID	COUNTY
BIRMINGHAM, AL*	MSA
BLOOMINGTON, IN*	MSA
BLOOMINGTON-NORMAL, IL*	MSA
BOSTON-WORCESTER-LAWRENCE, MA-NH-ME-CT*	CMSA
BRADLEY, TN	COUNTY
BROWNSVILLE-HARLINGEN-SAN BENITO, TX*	MSA
BUFFALO-NIAGARA FALLS, NY*	MSA
CARSON CITY, NV	COUNTY
CHARLESTON-NORTH CHARLESTON, SC*	MSA
CHARLOTTE-GASTONIA-ROCK HILL, NC-SC*	MSA
CHESHIRE, NH	COUNTY
CHEYENNE, CO	COUNTY
CHICAGO-GARY-KENOSHA, IL-IN-WI*	CMSA
CHOCTAW, AL	COUNTY
CINCINNATI-HAMILTON, OH-KY-IN*	CMSA
CITRUS, FL	COUNTY
CLATSOP, OR	COUNTY
CLEVELAND-AKRON, OH*	CMSA
CLINTON, IA	COUNTY
CLINTON, NY	COUNTY
COLUMBIA, NY	COUNTY
COLUMBUS, OH*	MSA
CORPUS CHRISTI, TX*	MSA
CRAVEN, NC	COUNTY
CROOK, OR	COUNTY
DALLAS-FORT WORTH, TX*	CMSA
DAYTON-SPRINGFIELD, OH*	MSA
DECATUR, GA	COUNTY
DELTA, MI*	COUNTY
DENVER-BOULDER-GREELEY, CO*	CMSA
DES MOINES, IA	COUNTY
DETROIT-ANN ARBOR-FLINT, MI*	CMSA
DORCHESTER, MD	COUNTY
ELKHART-GOSHEN, IN*	MSA
FAIRBANKS-NORTH STAR, AK	COUNTY
FERGUS, MT	COUNTY
FOND DU LAC, WI	COUNTY
FORT COLLINS-LOVELAND, CO*	MSA

**Survey areas****Geographic coverage<sup>5</sup>**

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FRANKLIN, VA	COUNTY
FREEBORN, MN	COUNTY
GEORGETOWN, SC	COUNTY
GILLESPIE, TX*	COUNTY
GOODHUE, MN	COUNTY
GRAFTON, NH	COUNTY
GRAND RAPIDS-MUSKEGON-HOLLAND, MI*	MSA
GREAT FALLS, MT*	MSA
GREEN LAKE, WI	COUNTY
GREENSBORO—WINSTON-SALEM—HIGH POINT, NC*	MSA
GREENVILLE-SPARTANBURG-ANDERSON, SC*	MSA
GREENWOOD, SC	COUNTY
GRIGGS, ND	COUNTY
HARRISON, KY*	COUNTY
HARTFORD, CT *	MSA
HENDERSON, IL	COUNTY
HENRY, AL	COUNTY
HICKORY-MORGANTON-LENOIR, NC*	MSA
HONOLULU, HI*	MSA
HOUSTON-GALVESTON-BRAZORIA, TX*	CMSA
HUNTSVILLE, AL *	MSA
INDIANAPOLIS, IN*	MSA
IOWA CITY, IA	MSA
JEFFERSON, IN	COUNTY
JOHNSTOWN, PA*	MSA
JUNEAU, AK	COUNTY
JUNEAU, WI	COUNTY
KALAMAZOO-BATTLE CREEK, MI*	MSA
KANSAS CITY, MO-KS*	MSA
KAUAI, HI	COUNTY
KNOXVILLE, TN*	MSA
LEE, MS	COUNTY
LEWIS, MO	COUNTY
LIBERTY, GA	COUNTY
LINCOLN, NE*	MSA
LINCOLN, WY	COUNTY
LOGAN, NE	COUNTY
LOS ANGELES-RIVERSIDE-ORANGE COUNTY, CA*	CMSA
LOUISVILLE, KY-IN*	MSA
MADISON, NE	COUNTY
MARSHALL, IN	COUNTY
MELBOURNE-TITUSVILLE-PALM BAY, FL*	MSA
MEMPHIS, TN-AR-MS*	MSA
MIAMI-FORT LAUDERDALE, FL*	CMSA
MILWAUKEE-RACINE, WI*	CMSA

**Survey areas****Geographic coverage<sup>5</sup>**

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MINNEAPOLIS-ST. PAUL, MN-WI*	MSA
MOBILE, AL*	MSA
MONROE, OH	COUNTY
MONTGOMERY, VA	COUNTY
MOORE, NC	COUNTY
MORGAN, IL	COUNTY
NEW ORLEANS, LA*	MSA
NEW YORK-NORTHERN NEW JERSEY-LONG ISLAND, NY-NJ-CT-PA*	CMSA
NORFOLK-VIRGINIA BEACH-NEWPORT NEWS, VA-NC*	MSA
NORTHUMBERLAND, PA	COUNTY
Ocala, FL*	MSA
OKLAHOMA CITY, OK*	MSA
ORANGE, VT	COUNTY
ORLANDO, FL*	MSA
PALO PINTO, TX	COUNTY
PANOLA, TX*	COUNTY
PHILADELPHIA-WILMINGTON-ATLANTIC CITY, PA-NJ-DE-MD*	CMSA
PHOENIX-MESA, AZ*	MSA
PITTSBURGH, PA*	MSA
POLK, NC*	COUNTY
POPE, AR	COUNTY
PORTLAND-SALEM, OR-WA*	CMSA
PRAIRIE, AR	COUNTY
PROVIDENCE-FALL RIVER-WARWICK, RI-MA*	MSA
RALEIGH-DURHAM-CHAPEL HILL, NC*	MSA
READING, PA*	MSA
RENO, NV *	MSA
RICHLAND-KENNEWICK-PASCO, WA*	MSA
RICHMOND-PETERSBURG, VA*	MSA
ROCHESTER, NY*	MSA
ROCKFORD, IL*	MSA
SACRAMENTO-YOLO, CA*	CMSA
SALINAS, CA*	MSA
SAN ANTONIO, TX*	MSA
SAN DIEGO, CA*	MSA
SAN FRANCISCO-OAKLAND-SAN JOSE, CA*	CMSA
SAUK, WI	COUNTY
SEATTLE-TACOMA-BREMERTON, WA*	CMSA
SENECA, OH	COUNTY
SEWARD, NE	COUNTY
SKAGIT, WA	COUNTY
SPRINGFIELD, MA*	MSA
SPRINGFIELD, MO*	MSA
ST. FRANCIS, AR	COUNTY
ST. LAWRENCE, NY	COUNTY



**Survey areas****Geographic coverage<sup>5</sup>**

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ST. LOUIS, MO-IL*	MSA
TALLAHASSEE, FL*	MSA
TAMA, IA	COUNTY
TAMPA-ST. PETERSBURG-CLEARWATER, FL*	MSA
TATTNALL, GA*	COUNTY
TAYLOR, KY	COUNTY
TUNICA, MS	COUNTY
VERMILION, LA	PARISH
VISALIA-TULARE-PORTERVILLE, CA*	MSA
WARD, ND	COUNTY
WASCO, OR*	COUNTY
WASHINGTON, GA	COUNTY
WASHINGTON-BALTIMORE, DC-MD-VA-WV*	CMSA
WAYNE, OH	COUNTY
WAYNE, TN	COUNTY
WINSTON, MS*	COUNTY
YAVAPAI, AZ	COUNTY
YORK, PA*	MSA
YOUNGSTOWN-WARREN, OH*	MSA

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<sup>5</sup> Metropolitan areas are either Metropolitan Statistical Areas (MSA's) or Consolidated Metropolitan Statistical Areas (CMSA's). Nonmetropolitan areas are identified as counties or parishes. Asterisk (\*) indicates that results have been published for the locality. Data for other areas did not meet publica-

tion standards. The geographical definitions of published metropolitan area surveys are available on the Internet. The address is: <http://www.bls.gov/compub.htm>.