

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



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

Bureau of Labor Statistics
Katharine G. Abraham, Commissioner

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.

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 (<http://stats.bls.gov/comhome.htm>). Data are in three formats: an ASCII file containing the published table formats, an ASCII file containing positional columns of data for manipulation as a 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.

Material in this bulletin is in the public domain and, with appropriate credit, may be reproduced without permission. This information will be made available to sensory impaired individuals upon request. Voice phone: (202) 691-5200; Federal Relay Service: 1-800-326-2577.

Contents

	<i>Page</i>
Overview	
Chapter 1. United States, private industry, State and local government	1
Tables:	
1-1. Summary, United States: Mean hourly earnings and weekly hours by selected characteristics, private industry and State and local government	2
1-2. State and local government: Mean hourly earnings and weekly hours by selected characteristics	3
Chapter 2. Worker characteristics	4
Tables:	
2-1. United States, selected occupations: Mean hourly earnings and weekly hours for full-time and part-time workers	7
2-2. Private industry, selected occupations: Mean hourly earnings and weekly hours for full-time and part-time workers	17
2-3. State and local government, selected occupations: Mean hourly earnings and weekly hours for full-time and part-time workers	26
2-4. Selected occupations and levels: Mean hourly earnings and weekly hours, private industry and State and local government	32
2-5. Collective bargaining status: Mean hourly earnings by occupational group	86
2-6. Time and incentive pay: Mean hourly earnings and weekly hours by occupational group in private industry	87
Chapter 3. Establishment characteristics	88
3-1. Goods-producing and service-producing industries: Mean hourly earnings and weekly hours by occupational group in private industry	89
3-2. Major industry division: Mean hourly earnings and weekly hours by occupational group in private industry	90
3-3. United States, establishment employment size: Mean hourly earnings by occupational group	93
3-4. Private industry, establishment employment size: Mean hourly earnings by occupational group	94
3-5. State and local government, establishment employment size: Mean hourly earnings by occupational group	95
Chapter 4. Geographic areas	96
4-1. Summary metropolitan and nonmetropolitan areas: Mean hourly earnings and weekly hours by selected characteristics	97
4-2. United States: Mean hourly earnings and weekly hours by metropolitan and nonmetropolitan areas for selected occupations	98
4-3. Largest 10 metropolitan areas ranked by employment size: Mean hourly earnings by occupational group	107
4-4. Pay relatives for major occupational groups in metropolitan areas	108
4-5. Summary, United States and nine census divisions: Mean hourly earnings and weekly hours by selected characteristics	110

Contents—Continued

	<i>Page</i>
4-6. New England census division: Mean hourly earnings and weekly hours by metropolitan and nonmetropolitan areas for selected occupations	114
4-7. Middle Atlantic census division: Mean hourly earnings and weekly hours by metropolitan and nonmetropolitan areas for selected occupations	119
4-8. East North Central census division: Mean hourly earnings and weekly hours by metropolitan and nonmetropolitan areas for selected occupations	126
4-9. West North Central census division: Mean hourly earnings and weekly hours by metropolitan and nonmetropolitan areas for selected occupations	133
4-10. South Atlantic census division: Mean hourly earnings and weekly hours by metropolitan and nonmetropolitan areas for selected occupations	139
4-11. East South Central census division: Mean hourly earnings and weekly hours by metropolitan and nonmetropolitan areas for selected occupations	146
4-12. West South Central census division: Mean hourly earnings and weekly hours by metropolitan and nonmetropolitan areas for selected occupations	151
4-13. Mountain census division: Mean hourly earnings and weekly hours by metropolitan and nonmetropolitan areas for selected occupations	158
4-14. Pacific census division: Mean hourly earnings and weekly hours by metropolitan and nonmetropolitan areas for selected occupations	163
Appendixes	
A. Technical Note	170
B. Occupational Classifications	176
C. Generic Leveling Criteria	184
D. Evaluating Your Firm's Jobs	190
E. Census Divisions and Survey Areas	192
Appendix tables:	
A. Number of establishments represented by the survey and number studied by industry group and establishment employment size, United States	174
B. Number of workers represented by the survey, by occupational group, United States	175

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 States¹ 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

¹ See Appendix A for details on the industrial scope of the survey.

Chapter 1.

United States, private industry, State and local government

Table 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 earnings¹ and weekly hours by selected characteristics, private industry and State and local government, National Compensation Survey,² 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 ³ (percent)		Mean	Relative error ³ (percent)		Mean	Relative error ³ (percent)	
Total	\$15.72	0.5	36.5	\$14.95	0.6	36.5	\$18.59	0.6	36.6
Worker characteristics:⁴									
White-collar occupations ⁵	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 ⁵	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 ⁵	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	-	-	-
Establishment characteristics:									
Goods producing	(⁶)	(⁶)	(⁶)	16.00	.8	39.8	(⁶)	(⁶)	(⁶)
Service producing	(⁶)	(⁶)	(⁶)	14.40	.7	35.0	(⁶)	(⁶)	(⁶)
50-99 workers ⁷	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
Geographic areas:⁸									
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

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

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

³ 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.

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

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

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

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

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

⁸ 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,¹ and weekly hours by selected characteristics, National Compensation Survey,² 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 ³ (percent)		Mean	Relative error ³ (percent)		Mean	Relative error ³ (percent)	
Total	\$18.59	0.6	36.6	\$17.89	1.2	38.7	\$18.87	0.6	35.8
Worker characteristics:⁴									
White-collar occupations ⁵	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 ⁵	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 ⁵	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
Establishment characteristics:⁶									
50-99 workers ⁶	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
Geographic areas:⁷									
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

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

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

³ 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.

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

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

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

⁷ 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.² 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.³

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 sales⁴ 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

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

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

⁴ 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 earnings¹ and weekly hours for full-time and part-time workers,² National Compensation Survey,³ 1998**

Occupation ⁴	Total			Full time			Part time		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error ⁵ (percent)		Mean	Relative error ⁵ (percent)		Mean	Relative error ⁵ (percent)	
All	\$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
White collar	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
Professional specialty and technical	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 earnings¹ and weekly hours for full-time and part-time workers,² National Compensation Survey,³ 1998–Continued**

Occupation ⁴	Total			Full time			Part time		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error ⁵ (percent)		Mean	Relative error ⁵ (percent)		Mean	Relative error ⁵ (percent)	
White collar –Continued									
Professional specialty and technical –Continued									
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 specialities 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 earnings¹ and weekly hours for full-time and part-time workers,² National Compensation Survey,³ 1998**—Continued

Occupation ⁴	Total			Full time			Part time		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error ⁵ (percent)		Mean	Relative error ⁵ (percent)		Mean	Relative error ⁵ (percent)	
White collar —Continued									
Professional specialty and technical —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
Executive, administrative, and managerial									
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 earnings¹ and weekly hours for full-time and part-time workers,² National Compensation Survey,³ 1998**—Continued

Occupation ⁴	Total			Full time			Part time		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error ⁵ (percent)		Mean	Relative error ⁵ (percent)		Mean	Relative error ⁵ (percent)	
White collar —Continued									
Executive, administrative, and managerial									
—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
Sales									
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
Administrative support, including clerical									
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 earnings¹ and weekly hours for full-time and part-time workers,² National Compensation Survey,³ 1998**—Continued

Occupation ⁴	Total			Full time			Part time		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error ⁵ (percent)		Mean	Relative error ⁵ (percent)		Mean	Relative error ⁵ (percent)	
White collar —Continued									
Administrative support, including clerical —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
Blue collar	12.90	.6	38.5	13.17	.7	40.1	8.00	1.3	22.1
Precision production, craft, and repair	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 earnings¹ and weekly hours for full-time and part-time workers,² National Compensation Survey,³ 1998–Continued**

Occupation ⁴	Total			Full time			Part time		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error ⁵ (percent)		Mean	Relative error ⁵ (percent)		Mean	Relative error ⁵ (percent)	
Blue collar –Continued									
Precision production, craft, and repair –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 earnings¹ and weekly hours for full-time and part-time workers,² National Compensation Survey,³ 1998**—Continued

Occupation ⁴	Total			Full time			Part time		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error ⁵ (percent)		Mean	Relative error ⁵ (percent)		Mean	Relative error ⁵ (percent)	
Blue collar —Continued									
Precision production, craft, and repair —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	—	—	—
Machine operators, assemblers, and inspectors	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 earnings¹ and weekly hours for full-time and part-time workers,² National Compensation Survey,³ 1998—Continued**

Occupation ⁴	Total			Full time			Part time		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error ⁵ (percent)		Mean	Relative error ⁵ (percent)		Mean	Relative error ⁵ (percent)	
Blue collar —Continued									
Machine operators, assemblers, and inspectors —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	—	—	—
Transportation and material moving	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
Handlers, equipment cleaners, helpers, and laborers	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 earnings¹ and weekly hours for full-time and part-time workers,² National Compensation Survey,³ 1998**—Continued

Occupation ⁴	Total			Full time			Part time		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error ⁵ (percent)		Mean	Relative error ⁵ (percent)		Mean	Relative error ⁵ (percent)	
Blue collar —Continued									
Handlers, equipment cleaners, helpers, and laborers —Continued									
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
Service									
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 earnings¹ and weekly hours for full-time and part-time workers,² National Compensation Survey,³ 1998**—Continued

Occupation ⁴	Total			Full time			Part time		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error ⁵ (percent)		Mean	Relative error ⁵ (percent)		Mean	Relative error ⁵ (percent)	
Service —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

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

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

³ This survey covers all 50 States. Collection was conducted between July 1997 and

April 1999. The average reference period was August 1998.

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

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

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

Table 2-2. Private industry, selected occupations: Mean hourly earnings¹ for full-time and part-time workers,² National Compensation Survey,³ 1998

Occupation ⁴	Total			Full time			Part time		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error ⁵ (percent)		Mean	Relative error ⁵ (percent)		Mean	Relative error ⁵ (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
White collar	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
Professional specialty and technical	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 earnings¹ for full-time and part-time workers,² National Compensation Survey,³ 1998–Continued

Occupation ⁴	Total			Full time			Part time		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error ⁵ (percent)		Mean	Relative error ⁵ (percent)		Mean	Relative error ⁵ (percent)	
White collar –Continued									
Professional specialty and technical –Continued									
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 earnings¹ for full-time and part-time workers,² National Compensation Survey,³ 1998–Continued

Occupation ⁴	Total			Full time			Part time		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error ⁵ (percent)		Mean	Relative error ⁵ (percent)		Mean	Relative error ⁵ (percent)	
White collar –Continued									
Professional specialty and technical –Continued									
Technical –Continued									
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
Executive, administrative, and managerial									
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	–	–	–
Sales	22.77	1.4	39.7	22.82	1.4	40.0	17.90	10.7	23.5
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 earnings¹ for full-time and part-time workers,² National Compensation Survey,³ 1998—Continued

Occupation ⁴	Total			Full time			Part time		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error ⁵ (percent)		Mean	Relative error ⁵ (percent)		Mean	Relative error ⁵ (percent)	
White collar —Continued									
Sales —Continued									
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
Cashiers	8.12	3.1	28.5	9.22	3.6	39.2	6.78	3.2	21.4
Street and door-to-door sales workers	7.74	1.6	30.1	8.36	1.3	39.5	6.73	1.1	21.6
News vendors	12.96	11.6	30.0	16.28	10.2	38.3	8.04	10.8	22.8
Demonstrators, promoters, and models, sales ..	7.78	11.7	20.9	—	—	—	6.71	3.9	17.9
Sales support, n.e.c.	9.69	7.7	22.1	12.37	8.2	39.2	7.34	3.5	16.0
	12.68	3.1	36.3	13.35	3.1	40.0	8.45	4.8	22.9
Administrative support, including clerical	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 earnings¹ for full-time and part-time workers,² National Compensation Survey,³ 1998–Continued

Occupation ⁴	Total			Full time			Part time		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error ⁵ (percent)		Mean	Relative error ⁵ (percent)		Mean	Relative error ⁵ (percent)	
White collar –Continued									
Administrative support, including clerical –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
Blue collar	12.77	.7	38.6	13.04	.7	40.1	7.71	1.4	22.3
Precision production, craft, and repair									
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 earnings¹ for full-time and part-time workers,² National Compensation Survey,³ 1998–Continued

Occupation ⁴	Total			Full time			Part time		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error ⁵ (percent)		Mean	Relative error ⁵ (percent)		Mean	Relative error ⁵ (percent)	
Blue collar –Continued									
Precision production, craft, and repair –Continued									
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 earnings¹ for full-time and part-time workers,² National Compensation Survey,³ 1998—Continued

Occupation ⁴	Total			Full time			Part time		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error ⁵ (percent)		Mean	Relative error ⁵ (percent)		Mean	Relative error ⁵ (percent)	
Blue collar—Continued									
Machine operators, assemblers, and inspectors	\$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 earnings¹ for full-time and part-time workers,² National Compensation Survey,³ 1998–Continued

Occupation ⁴	Total			Full time			Part time		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error ⁵ (percent)		Mean	Relative error ⁵ (percent)		Mean	Relative error ⁵ (percent)	
Blue collar –Continued									
Machine operators, assemblers, and inspectors –Continued									
Hand inspectors, n.e.c.	\$9.27	7.5	39.9	\$9.27	7.5	39.9	–	–	–
Transportation and material moving									
Supervisors, motor vehicle operators	13.77	1.2	38.9	14.12	1.2	41.4	\$9.18	3.0	21.6
Truck drivers	16.66	4.0	41.8	16.83	4.0	42.0	–	–	–
Driver-sales workers	13.96	1.2	41.5	14.07	1.3	43.0	11.21	4.4	22.1
Bus drivers	14.23	4.2	37.6	15.07	3.5	41.5	6.58	8.9	20.5
Taxicab drivers and chauffeurs	11.31	2.8	30.3	11.93	3.7	38.7	10.42	4.1	23.1
Parking lot attendants	8.20	4.5	29.9	8.94	5.2	38.7	6.62	3.4	20.0
Motor transportation, n.e.c.	7.01	4.3	28.1	7.70	5.1	39.9	6.22	4.6	20.9
Railroad conductors and yardmasters	8.22	4.5	31.4	8.83	5.7	39.2	6.24	2.1	19.0
Locomotive operating	26.82	4.4	40.2	26.82	4.4	40.2	–	–	–
Railroad brake, signal and switch operators	30.26	8.1	40.9	30.26	8.1	40.9	–	–	–
Rail vehicle operators, n.e.c.	23.65	10.9	40.0	23.65	10.9	40.0	–	–	–
Ship captains and mates, except fishing boats ..	22.32	3.9	40.0	22.32	3.9	40.0	–	–	–
Sailors and deckhands	16.04	3.9	48.0	16.14	3.9	49.2	–	–	–
Supervisors, material moving equipment	10.69	8.7	44.3	10.51	7.8	46.6	–	–	–
Operating engineers	19.16	6.0	40.5	19.16	6.0	40.5	–	–	–
Longshore equipment operators	21.57	4.4	40.0	21.57	4.4	40.0	–	–	–
Hoist and winch operators	27.40	6.8	37.4	–	–	–	–	–	–
Crane and tower operators	12.94	5.5	40.9	12.94	5.5	40.9	–	–	–
Excavating and loading machine operators	15.55	3.4	40.1	15.55	3.4	40.1	–	–	–
Grader, dozer, and scrapper operators	14.74	5.1	40.1	14.74	5.1	40.1	–	–	–
Industrial truck and tractor equipment operators	14.69	9.1	40.2	14.69	9.1	40.2	–	–	–
Miscellaneous material moving equipment operators, n.e.c.	12.11	1.9	39.8	12.13	1.9	40.0	10.17	8.2	25.5
Handlers, equipment cleaners, helpers, and laborers									
Nursery workers	9.52	.7	35.7	9.93	.8	39.8	7.10	1.0	22.2
Supervisors, agriculture-related workers	7.28	3.5	38.0	7.38	3.9	40.1	–	–	–
Groundskeepers and gardeners, except farm ...	19.19	10.0	40.3	19.19	10.0	40.3	–	–	–
Animal caretakers, except farm	8.45	3.9	38.8	8.49	4.3	39.9	7.39	4.8	22.5
Inspectors, agricultural products	9.74	11.3	36.9	10.05	11.6	39.8	–	–	–
Supervisors, handlers, equipment cleaners, and laborers, n.e.c.	7.84	6.1	37.4	8.09	8.8	40.0	–	–	–
Helpers, mechanics and repairers	14.37	2.7	39.8	14.41	2.8	40.3	–	–	–
Helpers, construction trades	11.40	5.8	39.3	11.50	5.7	40.1	7.49	8.3	21.7
Helpers, extractive	10.38	4.1	39.2	10.42	4.1	39.7	8.14	16.3	24.0
Construction laborers	15.17	11.8	38.7	–	–	–	–	–	–
Production helpers	11.37	3.4	39.5	11.49	3.4	39.9	7.04	8.6	29.8
Garbage collectors	9.75	3.5	39.1	9.82	3.5	39.8	6.69	3.8	22.4
Stevedores	9.26	8.1	39.6	9.25	9.1	40.3	–	–	–
Stock handlers and baggers	18.90	3.8	39.2	18.89	3.8	39.2	–	–	–
Machine feeders and offbearers	8.63	1.4	29.8	9.97	1.7	39.6	6.49	1.2	21.4
Freight, stock, and material handlers, n.e.c.	9.38	2.6	39.3	9.39	2.6	39.8	8.48	10.2	21.7
Garage and service station related	10.49	2.1	35.4	10.70	2.4	39.8	9.37	2.1	22.2
Vehicle washers and equipment cleaners	7.90	6.8	34.2	8.35	5.9	38.9	6.05	4.2	22.9
Hand packers and packagers	8.81	3.2	37.4	8.96	3.5	40.0	6.95	5.2	20.7
Laborers, except construction, n.e.c.	8.49	1.7	37.9	8.63	1.8	39.8	6.96	1.8	24.8
Service									
Protective service	9.39	1.4	37.8	9.63	1.4	39.8	6.88	3.5	24.6
Supervisors, guards	7.85	.6	31.8	8.37	.7	38.6	6.34	.7	21.0
Police and detectives, public service	8.74	1.7	35.0	8.95	1.8	39.4	7.71	1.6	22.8
Guards and police, except public service	13.42	5.3	38.7	13.59	5.4	39.6	–	–	–
Protective service, n.e.c.	10.30	13.9	32.5	–	–	–	–	–	–
Food service	8.43	1.9	35.2	8.57	2.1	39.4	7.75	1.7	23.5
Supervisors, food preparation and service	8.76	8.6	24.4	10.55	13.0	39.0	6.55	2.2	16.7
	6.54	.8	30.1	7.12	1.0	38.8	5.46	.8	21.2
	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 earnings¹ for full-time and part-time workers,² National Compensation Survey,³ 1998—Continued

Occupation ⁴	Total			Full time			Part time		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error ⁵ (percent)		Mean	Relative error ⁵ (percent)		Mean	Relative error ⁵ (percent)	
Service—Continued									
Food service—Continued									
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
Health service	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
Cleaning and building service	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	—	—	—
Personal service	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

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

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

³ This survey covers all 50 States. Collection was conducted between July 1997 and

April 1999. The average reference period was August 1998.

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

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

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

Table 2-3. **State and local government, selected occupations: Mean hourly earnings¹ and weekly hours for full-time and part-time workers,² National Compensation Survey,³ 1998**

Occupation ⁴	Total			Full time			Part time		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error ⁵ (percent)		Mean	Relative error ⁵ (percent)		Mean	Relative error ⁵ (percent)	
All	\$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
White collar	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
Professional specialty and technical	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 earnings¹ and weekly hours for full-time and part-time workers,² National Compensation Survey,³ 1998–Continued**

Occupation ⁴	Total			Full time			Part time		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error ⁵ (percent)		Mean	Relative error ⁵ (percent)		Mean	Relative error ⁵ (percent)	
White collar –Continued									
Professional specialty and technical –Continued									
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
Executive, administrative, and managerial	24.99	1.1	38.6	25.04	1.1	39.4	20.62	7.3	13.3
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 earnings¹ and weekly hours for full-time and part-time workers,² National Compensation Survey,³ 1998–Continued**

Occupation ⁴	Total			Full time			Part time		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error ⁵ (percent)		Mean	Relative error ⁵ (percent)		Mean	Relative error ⁵ (percent)	
White collar –Continued									
Executive, administrative, and managerial –Continued									
Executives, administrators, and managers –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
Sales									
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
Administrative support, including clerical									
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 earnings¹ and weekly hours for full-time and part-time workers,² National Compensation Survey,³ 1998–Continued**

Occupation ⁴	Total			Full time			Part time		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error ⁵ (percent)		Mean	Relative error ⁵ (percent)		Mean	Relative error ⁵ (percent)	
White collar –Continued									
Administrative support, including clerical –Continued									
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
Blue collar	14.44	1.1	37.5	14.66	1.2	39.4	10.89	2.0	21.1
Precision production, craft, and repair									
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 earnings¹ and weekly hours for full-time and part-time workers,² National Compensation Survey,³ 1998–Continued**

Occupation ⁴	Total			Full time			Part time		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error ⁵ (percent)		Mean	Relative error ⁵ (percent)		Mean	Relative error ⁵ (percent)	
Blue collar –Continued									
Precision production, craft, and repair –Continued									
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	–	–	–
Machine operators, assemblers, and inspectors	13.50	6.6	38.3	13.62	6.7	39.6	\$9.95	7.0	19.3
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	–	–	–
Transportation and material moving	13.52	1.7	33.8	13.87	1.9	38.3	11.62	2.2	20.8
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	–	–	–
Handlers, equipment cleaners, helpers, and laborers	11.84	2.0	38.4	12.05	2.1	39.8	7.98	4.1	22.7
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
Service	13.84	1.3	36.7	14.33	1.4	40.1	8.65	1.5	19.3
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 earnings¹ and weekly hours for full-time and part-time workers,² National Compensation Survey,³ 1998–Continued**

Occupation ⁴	Total			Full time			Part time		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error ⁵ (percent)		Mean	Relative error ⁵ (percent)		Mean	Relative error ⁵ (percent)	
Service –Continued									
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

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

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

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

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

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

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

Table 2-4. Selected occupations¹ and levels:² Mean hourly earnings³ and weekly hours, private industry and State and local government, National Compensation Survey,⁴ 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 ⁵ (percent)		Mean	Relative error ⁵ (percent)		Mean	Relative error ⁵ (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
White collar	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
Professional specialty and technical	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 occupations¹ and levels:² Mean hourly earnings³ and weekly hours, private industry and State and local government, National Compensation Survey,⁴ 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 ⁵ (percent)		Mean	Relative error ⁵ (percent)		Mean	Relative error ⁵ (percent)	
White collar—Continued									
Professional specialty and technical—Continued									
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 occupations¹ and levels:² Mean hourly earnings³ and weekly hours, private industry and State and local government, National Compensation Survey,⁴ 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 ⁵ (percent)		Mean	Relative error ⁵ (percent)		Mean	Relative error ⁵ (percent)	
White collar –Continued									
Professional specialty and technical –Continued									
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 occupations¹ and levels:² Mean hourly earnings³ and weekly hours, private industry and State and local government, National Compensation Survey,⁴ 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 ⁵ (percent)		Mean	Relative error ⁵ (percent)		Mean	Relative error ⁵ (percent)	
White collar –Continued									
Professional specialty and technical –Continued									
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 occupations¹ and levels:² Mean hourly earnings³ and weekly hours, private industry and State and local government, National Compensation Survey,⁴ 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 ⁵ (percent)		Mean	Relative error ⁵ (percent)		Mean	Relative error ⁵ (percent)	
White collar –Continued									
Professional specialty and technical –Continued									
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 occupations¹ and levels:² Mean hourly earnings³ and weekly hours, private industry and State and local government, National Compensation Survey,⁴ 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 ⁵ (percent)		Mean	Relative error ⁵ (percent)		Mean	Relative error ⁵ (percent)	
White collar –Continued									
Professional specialty and technical –Continued									
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 occupations¹ and levels:² Mean hourly earnings³ and weekly hours, private industry and State and local government, National Compensation Survey,⁴ 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 ⁵ (percent)		Mean	Relative error ⁵ (percent)		Mean	Relative error ⁵ (percent)	
White collar –Continued									
Professional specialty and technical –Continued									
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 occupations¹ and levels:² Mean hourly earnings³ and weekly hours, private industry and State and local government, National Compensation Survey,⁴ 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 ⁵ (percent)		Mean	Relative error ⁵ (percent)		Mean	Relative error ⁵ (percent)	
White collar –Continued									
Professional specialty and technical –Continued									
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 occupations¹ and levels:² Mean hourly earnings³ and weekly hours, private industry and State and local government, National Compensation Survey,⁴ 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 ⁵ (percent)		Mean	Relative error ⁵ (percent)		Mean	Relative error ⁵ (percent)	
White collar –Continued									
Professional specialty and technical –Continued									
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 occupations¹ and levels:² Mean hourly earnings³ and weekly hours, private industry and State and local government, National Compensation Survey,⁴ 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 ⁵ (percent)		Mean	Relative error ⁵ (percent)		Mean	Relative error ⁵ (percent)	
White collar—Continued									
Professional specialty and technical—Continued									
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 occupations¹ and levels:² Mean hourly earnings³ and weekly hours, private industry and State and local government, National Compensation Survey,⁴ 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 ⁵ (percent)		Mean	Relative error ⁵ (percent)		Mean	Relative error ⁵ (percent)	
White collar—Continued									
Professional specialty and technical—Continued									
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	21.39	2.2	36.5	21.02	3.8	35.4	21.56	2.9	37.1
5	13.89	5.5	34.8	12.95	5.1	32.7	14.56	8.5	36.6
6	13.08	13.0	33.4	9.50	12.1	27.7	14.35	15.0	36.0
7	16.74	7.1	36.4	15.89	5.0	35.9	17.07	9.3	36.5
8	21.26	5.1	38.2	21.33	6.6	39.3	21.25	5.9	38.0
9	23.87	4.0	36.5	20.82	4.5	35.0	25.50	5.2	37.3
10	23.50	5.3	37.2	23.61	8.7	36.4	23.39	6.2	38.1
11	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	21.53	2.3	36.5	20.47	3.6	35.2	21.95	3.0	37.0
5	14.20	5.9	36.0	13.01	5.5	35.0	15.15	8.9	36.9
6	13.05	13.2	33.3	9.18	12.2	27.3	14.35	15.0	36.0
7	17.12	7.9	35.9	16.45	3.2	35.7	17.37	10.5	36.0
8	21.30	5.4	37.9	20.87	8.7	37.3	21.36	6.0	38.0
9	24.44	3.9	36.4	21.68	3.2	35.1	25.78	5.4	37.1
10	23.43	5.8	37.4	23.53	9.9	36.6	23.33	6.5	38.2
11	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	20.33	7.7	37.1	23.16	12.7	36.5	16.77	5.6	37.9
7	14.48	7.7	39.1	—	—	—	—	—	—
9	17.62	10.4	36.6	—	—	—	—	—	—
11	26.65	16.4	37.7	—	—	—	—	—	—
Social scientists and urban planners	23.65	3.0	36.7	23.07	3.7	35.9	24.27	4.7	37.5
5	12.61	6.8	35.2	13.04	6.5	32.8	—	—	—
6	15.30	3.9	35.3	15.02	5.0	37.5	16.35	4.7	28.9
7	17.82	3.0	39.0	18.59	3.9	39.1	16.69	5.5	38.9
8	20.41	3.5	35.5	19.52	5.5	37.7	21.45	3.8	33.3
9	23.93	8.5	35.3	20.22	6.4	33.4	26.89	11.0	37.1
10	23.85	4.6	38.5	24.56	7.3	38.3	23.34	5.8	38.7
11	28.94	3.4	36.8	30.80	4.8	33.4	27.82	3.9	39.1
12	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	25.93	3.8	39.8	26.30	3.9	39.8	20.77	7.2	40.0
5	15.02	4.0	41.4	15.02	4.0	41.4	—	—	—
6	15.00	4.7	40.3	15.00	4.7	40.3	—	—	—
7	19.13	4.3	40.7	19.43	4.3	40.7	—	—	—
8	23.66	6.4	39.5	23.66	6.4	39.5	—	—	—
9	24.36	5.2	40.0	25.00	4.8	40.0	—	—	—
10	29.60	4.5	38.2	29.65	4.5	38.1	—	—	—
11	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	23.81	5.0	34.6	18.27	4.0	31.5	27.38	5.4	37.0
5	11.89	10.6	28.1	—	—	—	—	—	—
6	15.21	6.9	31.7	14.62	9.7	35.5	—	—	—
7	15.63	4.9	37.1	15.98	7.0	32.8	15.46	6.8	39.5
8	19.50	4.8	36.3	16.07	7.2	36.4	22.07	5.1	36.3
9	25.37	12.8	32.8	15.53	3.0	28.6	31.18	10.9	35.8
10	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 occupations¹ and levels:² Mean hourly earnings³ and weekly hours, private industry and State and local government, National Compensation Survey,⁴ 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 ⁵ (percent)		Mean	Relative error ⁵ (percent)		Mean	Relative error ⁵ (percent)	
White collar—Continued									
Professional specialty and technical—Continued									
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 occupations¹ and levels:² Mean hourly earnings³ and weekly hours, private industry and State and local government, National Compensation Survey,⁴ 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 ⁵ (percent)		Mean	Relative error ⁵ (percent)		Mean	Relative error ⁵ (percent)	
White collar –Continued									
Professional specialty and technical –Continued									
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.									
4	23.92	3.8	36.4	24.21	4.2	36.7	21.56	4.7	34.1
5	10.53	15.5	31.9	10.54	15.6	32.0	–	–	–
6	14.36	2.8	37.7	14.23	2.9	39.1	16.34	10.5	25.0
7	13.89	2.4	38.8	13.94	2.6	39.0	13.55	4.6	37.4
8	18.06	2.2	39.1	18.09	2.4	39.3	17.82	6.0	37.6
9	19.90	2.2	38.7	19.89	2.4	38.6	19.94	3.9	39.5
10	23.21	2.6	38.5	23.24	2.8	38.6	22.72	4.1	37.6
11	26.11	4.4	40.4	27.14	4.2	40.0	–	–	–
12	31.33	3.2	38.9	31.52	3.3	38.9	26.37	6.0	39.9
13	36.90	3.4	39.3	37.66	3.4	40.3	–	–	–
14	41.26	4.5	39.5	41.32	4.6	39.4	–	–	–
Not able to be leveled	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									
5	21.50	6.8	38.9	21.50	6.8	38.9	–	–	–
6	14.60	3.2	38.6	14.60	3.2	38.6	–	–	–
7	16.72	7.7	39.8	16.72	7.7	39.8	–	–	–
8	19.14	3.6	39.4	19.10	3.6	39.4	–	–	–
9	19.18	5.3	39.4	19.18	5.3	39.4	–	–	–
10	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									
4	22.27	3.9	39.7	22.40	4.0	39.8	15.97	8.7	36.8
5	8.43	4.4	33.9	8.43	4.4	33.9	–	–	–
6	14.56	4.6	39.2	14.56	4.6	39.2	–	–	–
7	15.53	3.3	38.9	15.76	3.3	39.7	14.38	10.2	35.3
8	18.45	2.8	39.7	18.48	2.9	39.7	–	–	–
9	20.17	3.8	38.6	20.17	3.8	38.6	–	–	–
10	22.94	3.4	39.9	22.99	3.5	39.9	–	–	–
11	27.51	6.1	41.1	27.51	6.1	41.1	–	–	–
12	30.57	7.3	40.8	30.57	7.3	40.8	–	–	–
13	36.00	5.2	42.7	36.00	5.2	42.7	–	–	–
Musicians and composers									
Not able to be leveled	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									
Not able to be leveled	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									
Not able to be leveled	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									
5	17.11	7.1	38.9	17.18	7.8	38.8	–	–	–
6	13.72	10.9	40.0	13.72	10.9	40.0	–	–	–
7	15.34	6.6	39.9	14.87	9.1	39.8	–	–	–
8	21.61	21.4	41.0	24.79	23.5	41.6	–	–	–
9	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 occupations¹ and levels:² Mean hourly earnings³ and weekly hours, private industry and State and local government, National Compensation Survey,⁴ 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 ⁵ (percent)		Mean	Relative error ⁵ (percent)		Mean	Relative error ⁵ (percent)	
White collar –Continued									
Professional specialty and technical –Continued									
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 occupations¹ and levels:² Mean hourly earnings³ and weekly hours, private industry and State and local government, National Compensation Survey,⁴ 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 ⁵ (percent)		Mean	Relative error ⁵ (percent)		Mean	Relative error ⁵ (percent)	
White collar—Continued									
Professional specialty and technical—Continued									
Technical—Continued									
Clinical laboratory technologists and technicians—Continued									
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 occupations¹ and levels:² Mean hourly earnings³ and weekly hours, private industry and State and local government, National Compensation Survey,⁴ 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 ⁵ (percent)		Mean	Relative error ⁵ (percent)		Mean	Relative error ⁵ (percent)	
White collar—Continued									
Professional specialty and technical—Continued									
Technical—Continued									
Mechanical engineering technicians—Continued									
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 occupations¹ and levels:² Mean hourly earnings³ and weekly hours, private industry and State and local government, National Compensation Survey,⁴ 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 ⁵ (percent)		Mean	Relative error ⁵ (percent)		Mean	Relative error ⁵ (percent)	
White collar—Continued									
Professional specialty and technical—Continued									
Technical—Continued									
Airplane pilots and navigators—Continued									
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	—	—	—
Broadcast equipment operators	17.82	11.0	35.7	17.95	12.5	35.5	\$17.04	8.8	37.0
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	—	—	—
Computer programmers	22.06	1.9	39.5	22.38	2.0	39.4	19.51	4.0	39.7
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	—	—	—
Tool programmers, numerical control	17.32	4.7	40.1	17.32	4.7	40.1	—	—	—
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	—	—	—
Legal assistants	17.19	2.6	39.3	17.91	2.7	39.4	15.40	5.2	39.2
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	—	—	—
Technical and related, n.e.c.	18.60	1.7	38.4	19.44	2.0	39.0	16.12	4.5	36.9
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	—	—	—
Executive, administrative, and managerial									
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 occupations¹ and levels:² Mean hourly earnings³ and weekly hours, private industry and State and local government, National Compensation Survey,⁴ 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 ⁵ (percent)		Mean	Relative error ⁵ (percent)		Mean	Relative error ⁵ (percent)	
White collar—Continued									
Executive, administrative, and managerial—Continued									
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 occupations¹ and levels:² Mean hourly earnings³ and weekly hours, private industry and State and local government, National Compensation Survey,⁴ 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 ⁵ (percent)		Mean	Relative error ⁵ (percent)		Mean	Relative error ⁵ (percent)	
White collar—Continued									
Executive, administrative, and managerial—Continued									
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	35.26	2.0	40.8	35.35	2.0	40.8	\$22.56	11.1	39.5
7	17.58	3.1	39.6	17.41	3.2	39.5	—	—	—
8	18.97	6.7	40.5	18.97	6.8	40.6	—	—	—
9	25.76	2.3	40.8	25.77	2.3	40.8	—	—	—
10	31.32	5.8	41.0	31.32	5.8	41.0	—	—	—
11	32.26	3.7	40.8	32.26	3.7	40.8	—	—	—
12	40.47	2.1	40.7	40.49	2.1	40.7	—	—	—
13	47.64	3.2	41.8	47.65	3.2	41.8	—	—	—
14	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	31.96	1.7	39.1	25.48	3.5	38.8	33.81	1.8	39.2
5	10.75	4.1	35.5	10.86	6.1	33.8	—	—	—
6	13.15	15.9	35.3	11.15	7.6	34.5	—	—	—
7	16.50	6.2	35.2	13.91	3.5	35.4	20.26	8.1	35.0
8	19.68	4.4	39.1	16.91	3.8	39.2	22.44	5.6	38.9
9	24.93	3.4	38.6	21.56	2.4	37.3	26.25	4.2	39.1
10	31.58	3.8	39.2	21.75	5.5	40.3	33.35	3.5	39.0
11	32.09	1.9	39.3	23.97	3.0	40.1	33.28	2.0	39.2
12	37.34	3.5	39.1	33.54	6.0	40.4	37.99	3.8	38.9
13	42.88	5.9	40.0	43.48	10.3	39.5	42.60	7.2	40.2
14	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	29.33	2.3	39.7	29.88	2.4	39.7	27.24	7.8	39.6
5	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	18.24	3.3	42.7	18.35	3.5	43.2	17.25	6.9	38.8
5	12.57	4.3	39.0	12.55	4.7	39.3	—	—	—
6	13.82	3.6	42.2	13.53	4.2	43.1	—	—	—
7	15.37	2.2	43.0	14.89	2.5	43.8	—	—	—
8	15.23	4.0	44.7	15.14	4.2	45.2	—	—	—
9	20.07	4.3	43.4	19.96	4.3	43.5	—	—	—
10	25.11	6.9	42.6	25.22	7.1	43.3	—	—	—
11	30.77	7.1	42.9	30.77	7.1	42.9	—	—	—
12	32.34	7.9	39.7	32.46	9.5	40.2	—	—	—
Managers, properties and real estate	23.18	8.9	40.5	23.34	10.2	40.8	22.17	6.0	39.2
6	10.86	7.5	39.3	10.70	8.3	39.2	—	—	—
7	14.07	4.2	40.1	—	—	—	—	—	—
8	17.27	9.9	40.4	17.27	10.2	40.4	—	—	—
9	23.71	6.4	40.2	24.50	6.7	40.3	—	—	—

See footnotes at end of table.

Table 2-4. Selected occupations¹ and levels:² Mean hourly earnings³ and weekly hours, private industry and State and local government, National Compensation Survey,⁴ 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 ⁵ (percent)		Mean	Relative error ⁵ (percent)		Mean	Relative error ⁵ (percent)	
White collar—Continued									
Executive, administrative, and managerial—Continued									
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 occupations¹ and levels:² Mean hourly earnings³ and weekly hours, private industry and State and local government, National Compensation Survey,⁴ 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 ⁵ (percent)		Mean	Relative error ⁵ (percent)		Mean	Relative error ⁵ (percent)	
White collar—Continued									
Executive, administrative, and managerial—Continued									
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 occupations¹ and levels:² Mean hourly earnings³ and weekly hours, private industry and State and local government, National Compensation Survey,⁴ 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 ⁵ (percent)		Mean	Relative error ⁵ (percent)		Mean	Relative error ⁵ (percent)	
White collar –Continued									
Executive, administrative, and managerial –Continued									
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	19.23	3.5	38.9	23.10	3.8	40.2	17.78	4.2	38.5
5	14.74	7.7	39.3	–	–	–	14.38	8.7	39.3
6	13.93	5.2	38.4	16.66	7.2	39.8	13.29	3.7	38.1
7	16.14	4.6	38.5	19.39	7.6	39.8	15.20	4.6	38.1
8	18.49	1.8	38.1	19.58	3.4	42.2	18.29	2.2	37.5
9	21.98	2.7	39.7	24.33	4.7	40.1	20.26	2.6	39.3
10	26.40	6.5	39.3	–	–	–	–	–	–
11	25.66	3.7	40.2	24.21	9.2	40.8	26.22	3.9	40.0
Management related, n.e.c.	22.31	1.2	39.4	22.77	1.4	39.7	20.81	2.6	38.5
4	9.22	9.0	46.5	9.22	9.0	46.5	–	–	–
5	14.07	4.0	39.4	14.32	4.3	39.6	12.70	5.2	38.1
6	16.26	2.2	38.9	16.42	2.2	39.2	15.51	6.7	37.8
7	18.53	4.1	39.3	18.93	4.9	39.4	17.38	3.3	39.0
8	19.40	2.0	39.5	19.31	1.9	40.1	19.62	5.1	38.2
9	23.19	1.5	39.5	23.45	1.6	39.8	22.41	3.3	38.6
10	26.38	2.2	39.9	26.80	2.8	39.8	25.48	3.3	40.0
11	30.95	3.0	39.5	31.77	3.2	39.5	28.32	4.1	39.7
12	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
Sales	13.28	3.6	33.0	13.29	3.6	33.0	12.10	4.8	32.2
1	6.51	.8	25.8	6.51	.8	25.8	6.77	4.3	24.9
2	7.15	1.3	25.6	7.15	1.3	25.6	7.85	1.1	24.6
3	8.25	.9	31.8	8.20	.8	31.7	10.87	7.9	33.2
4	10.57	1.6	34.6	10.56	1.6	34.6	12.17	4.2	34.4
5	15.45	2.8	38.8	15.47	2.8	38.8	14.36	5.2	39.9
6	17.81	4.3	41.0	17.83	4.3	41.0	13.92	2.5	33.7
7	21.59	4.6	41.5	21.71	4.6	41.5	15.12	4.7	39.3
8	21.95	2.0	40.6	21.96	2.1	40.8	19.86	16.9	24.6
9	29.47	6.4	41.3	29.48	6.4	41.3	–	–	–
10	31.85	4.4	40.6	31.98	4.5	40.6	–	–	–
11	37.13	4.1	40.9	37.24	4.1	41.0	–	–	–
12	47.76	6.1	40.8	47.76	6.1	40.8	–	–	–
13	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	20.02	4.0	40.6	20.07	4.1	40.7	16.52	11.6	32.3
3	9.45	4.5	39.3	9.45	4.5	39.3	–	–	–
4	9.78	2.6	37.5	9.77	2.7	37.5	–	–	–
5	13.15	2.4	40.5	13.07	2.4	40.5	–	–	–
6	17.82	14.0	41.9	17.84	14.0	41.9	–	–	–
7	19.34	5.0	42.4	19.36	5.0	42.5	–	–	–
8	19.74	2.6	40.6	19.74	2.7	41.2	–	–	–
9	24.70	4.6	42.5	24.72	4.6	42.5	–	–	–
10	34.50	9.2	41.3	34.50	9.2	41.3	–	–	–
11	31.99	3.1	41.3	31.99	3.1	41.3	–	–	–
12	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 occupations¹ and levels:² Mean hourly earnings³ and weekly hours, private industry and State and local government, National Compensation Survey,⁴ 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 ⁵ (percent)		Mean	Relative error ⁵ (percent)		Mean	Relative error ⁵ (percent)	
White collar—Continued									
Sales—Continued									
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 occupations¹ and levels:² Mean hourly earnings³ and weekly hours, private industry and State and local government, National Compensation Survey,⁴ 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 ⁵ (percent)		Mean	Relative error ⁵ (percent)		Mean	Relative error ⁵ (percent)	
White collar—Continued									
Sales—Continued									
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 occupations¹ and levels:² Mean hourly earnings³ and weekly hours, private industry and State and local government, National Compensation Survey,⁴ 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 ⁵ (percent)		Mean	Relative error ⁵ (percent)		Mean	Relative error ⁵ (percent)	
White collar—Continued									
Sales—Continued									
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	—	—	—
Administrative support, including clerical	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 occupations¹ and levels:² Mean hourly earnings³ and weekly hours, private industry and State and local government, National Compensation Survey,⁴ 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 ⁵ (percent)		Mean	Relative error ⁵ (percent)		Mean	Relative error ⁵ (percent)	
White collar—Continued									
Administrative support, including clerical—Continued									
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 occupations¹ and levels:² Mean hourly earnings³ and weekly hours, private industry and State and local government, National Compensation Survey,⁴ 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 ⁵ (percent)		Mean	Relative error ⁵ (percent)		Mean	Relative error ⁵ (percent)	
White collar—Continued									
Administrative support, including clerical—Continued									
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 occupations¹ and levels:² Mean hourly earnings³ and weekly hours, private industry and State and local government, National Compensation Survey,⁴ 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 ⁵ (percent)		Mean	Relative error ⁵ (percent)		Mean	Relative error ⁵ (percent)	
White collar—Continued									
Administrative support, including clerical—Continued									
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 occupations¹ and levels:² Mean hourly earnings³ and weekly hours, private industry and State and local government, National Compensation Survey,⁴ 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 ⁵ (percent)		Mean	Relative error ⁵ (percent)		Mean	Relative error ⁵ (percent)	
White collar—Continued									
Administrative support, including clerical—Continued									
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 occupations¹ and levels:² Mean hourly earnings³ and weekly hours, private industry and State and local government, National Compensation Survey,⁴ 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 ⁵ (percent)		Mean	Relative error ⁵ (percent)		Mean	Relative error ⁵ (percent)	
White collar—Continued									
Administrative support, including clerical—Continued									
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 occupations¹ and levels:² Mean hourly earnings³ and weekly hours, private industry and State and local government, National Compensation Survey,⁴ 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 ⁵ (percent)		Mean	Relative error ⁵ (percent)		Mean	Relative error ⁵ (percent)	
White collar—Continued									
Administrative support, including clerical—Continued									
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	8.97	1.4	32.2	8.97	1.4	32.2	—	—	—
1	7.85	2.1	26.6	7.85	2.1	26.6	—	—	—
2	7.95	1.2	30.1	7.95	1.2	30.1	—	—	—
3	8.76	2.0	30.8	8.76	2.0	30.8	—	—	—
4	9.31	1.6	36.2	9.31	1.6	36.2	—	—	—
5	12.03	6.1	37.7	12.03	6.1	37.7	—	—	—
6	11.77	1.9	39.9	11.77	1.9	39.9	—	—	—
Proofreaders	12.53	13.2	38.1	10.46	5.4	37.5	—	—	—
3	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	10.04	1.4	37.6	9.79	1.5	37.4	11.20	3.3	38.8
1	8.30	6.6	38.2	7.49	2.5	37.0	—	—	—
2	8.89	2.2	36.6	8.75	2.1	36.4	10.72	8.5	38.9
3	10.08	2.1	37.7	9.76	2.2	37.7	11.33	4.1	37.8
4	11.20	2.8	38.8	11.08	3.0	38.7	11.62	6.8	39.5
5	12.38	4.0	39.4	12.31	5.0	39.2	—	—	—
6	15.39	4.6	39.9	15.72	4.5	39.9	—	—	—
Statistical clerks	11.56	3.9	37.2	11.93	4.6	36.7	10.34	4.0	38.8
1	7.39	7.8	30.6	7.39	7.8	30.6	—	—	—
2	8.76	5.6	31.1	8.58	5.9	30.7	—	—	—
3	8.63	5.3	37.6	8.61	6.4	37.2	—	—	—
4	12.73	6.6	38.0	13.51	6.7	37.6	9.93	6.4	39.5
5	11.75	8.1	37.1	13.79	2.3	36.3	—	—	—
6	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	9.52	1.8	30.6	8.29	4.0	31.5	9.60	1.8	30.5
1	7.95	3.0	29.5	6.29	3.4	26.6	8.09	3.1	29.8
2	8.33	1.7	30.1	7.91	5.5	28.1	8.34	1.8	30.2
3	9.33	2.4	31.7	7.31	4.3	26.1	9.38	2.5	31.9
4	9.88	2.5	30.4	8.13	3.7	34.6	10.14	2.5	29.8
5	14.08	4.0	27.9	10.48	17.7	36.3	14.34	3.7	27.5
6	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.	12.06	1.7	36.6	11.91	2.1	36.6	12.50	1.7	36.6
1	6.53	5.6	26.6	6.42	5.8	27.4	7.74	3.4	20.0
2	8.92	3.4	33.3	8.89	4.0	33.5	9.08	4.2	32.4
3	9.59	2.7	35.4	9.44	2.9	35.8	10.27	4.9	33.8
4	11.64	1.5	37.6	11.71	1.9	37.5	11.40	1.9	38.1
5	13.08	1.7	38.6	13.28	2.2	38.5	12.66	2.6	38.6
6	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
Blue collar	12.90	.6	38.5	12.77	.7	38.6	14.44	1.1	37.5
1	7.77	1.3	34.8	7.72	1.3	34.8	9.38	4.8	35.8
2	9.02	.8	37.6	8.96	.8	37.8	10.21	2.3	34.4
3	11.43	1.1	38.7	11.42	1.5	39.1	11.57	2.2	33.8
4	12.79	.8	39.4	12.77	.9	39.6	13.08	2.3	36.6
5	14.06	.6	39.8	14.05	.6	39.9	14.11	1.4	38.5
6	16.01	.8	40.5	16.12	.9	40.6	15.07	2.7	39.7
7	18.98	.5	39.9	19.15	.6	40.0	17.98	1.6	39.8
8	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 occupations¹ and levels:² Mean hourly earnings³ and weekly hours, private industry and State and local government, National Compensation Survey,⁴ 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 ⁵ (percent)		Mean	Relative error ⁵ (percent)		Mean	Relative error ⁵ (percent)	
Blue collar—Continued									
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
Precision production, craft, and repair	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 occupations¹ and levels:² Mean hourly earnings³ and weekly hours, private industry and State and local government, National Compensation Survey,⁴ 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 ⁵ (percent)		Mean	Relative error ⁵ (percent)		Mean	Relative error ⁵ (percent)	
Blue collar—Continued									
Precision production, craft, and repair—Continued									
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 occupations¹ and levels:² Mean hourly earnings³ and weekly hours, private industry and State and local government, National Compensation Survey,⁴ 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 ⁵ (percent)		Mean	Relative error ⁵ (percent)		Mean	Relative error ⁵ (percent)	
Blue collar—Continued									
Precision production, craft, and repair—Continued									
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
3	7.71	3.2	38.8	7.54	3.3	38.6	—	—	—
4	9.92	2.5	39.7	9.86	2.7	39.6	10.11	4.9	39.9
5	12.00	2.8	38.8	12.49	3.7	38.4	10.80	3.0	39.6
6	13.63	2.9	39.8	13.75	3.8	39.8	13.30	2.8	39.8
7	16.18	2.1	39.9	16.75	2.1	39.9	14.41	4.6	39.7
8	17.93	1.2	39.8	18.21	1.3	39.9	16.95	2.6	39.8
9	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	—	—	—
9	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
8	22.09	5.4	40.3	22.80	5.6	40.4	18.90	11.0	40.0
9	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
9	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
6	14.78	6.6	40.0	—	—	—	13.23	4.7	39.9
7	13.21	8.0	40.3	14.28	3.6	40.8	12.66	10.7	40.0
8	16.66	3.3	40.3	18.17	3.3	40.6	14.77	4.4	39.9
9	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	—	—	—
5	12.71	9.0	38.9	13.01	9.7	38.8	—	—	—
6	13.89	2.2	39.2	14.10	2.2	39.4	11.99	5.2	37.7
7	15.11	3.7	39.1	15.29	3.9	39.0	—	—	—
8	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	—	—	—
5	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 occupations¹ and levels:² Mean hourly earnings³ and weekly hours, private industry and State and local government, National Compensation Survey,⁴ 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 ⁵ (percent)		Mean	Relative error ⁵ (percent)		Mean	Relative error ⁵ (percent)	
Blue collar—Continued									
Precision production, craft, and repair—Continued									
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 occupations¹ and levels:² Mean hourly earnings³ and weekly hours, private industry and State and local government, National Compensation Survey,⁴ 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 ⁵ (percent)		Mean	Relative error ⁵ (percent)		Mean	Relative error ⁵ (percent)	
Blue collar—Continued									
Precision production, craft, and repair—Continued									
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 occupations¹ and levels:² Mean hourly earnings³ and weekly hours, private industry and State and local government, National Compensation Survey,⁴ 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 ⁵ (percent)		Mean	Relative error ⁵ (percent)		Mean	Relative error ⁵ (percent)	
Blue collar—Continued									
Precision production, craft, and repair—Continued									
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 occupations¹ and levels:² Mean hourly earnings³ and weekly hours, private industry and State and local government, National Compensation Survey,⁴ 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 ⁵ (percent)		Mean	Relative error ⁵ (percent)		Mean	Relative error ⁵ (percent)	
Blue collar—Continued									
Precision production, craft, and repair—Continued									
Bakers—Continued									
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	—	—	—
Machine operators, assemblers, and inspectors	11.59	.9	39.6	11.58	.9	39.6	13.50	6.6	38.3
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 occupations¹ and levels:² Mean hourly earnings³ and weekly hours, private industry and State and local government, National Compensation Survey,⁴ 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 ⁵ (percent)		Mean	Relative error ⁵ (percent)		Mean	Relative error ⁵ (percent)	
Blue collar—Continued									
Machine operators, assemblers, and inspectors—Continued									
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 occupations¹ and levels:² Mean hourly earnings³ and weekly hours, private industry and State and local government, National Compensation Survey,⁴ 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 ⁵ (percent)		Mean	Relative error ⁵ (percent)		Mean	Relative error ⁵ (percent)	
Blue collar—Continued									
Machine operators, assemblers, and inspectors—Continued									
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 occupations¹ and levels:² Mean hourly earnings³ and weekly hours, private industry and State and local government, National Compensation Survey,⁴ 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 ⁵ (percent)		Mean	Relative error ⁵ (percent)		Mean	Relative error ⁵ (percent)	
Blue collar—Continued									
Machine operators, assemblers, and inspectors—Continued									
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 occupations¹ and levels:² Mean hourly earnings³ and weekly hours, private industry and State and local government, National Compensation Survey,⁴ 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 ⁵ (percent)		Mean	Relative error ⁵ (percent)		Mean	Relative error ⁵ (percent)	
Blue collar—Continued									
Machine operators, assemblers, and inspectors—Continued									
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 occupations¹ and levels:² Mean hourly earnings³ and weekly hours, private industry and State and local government, National Compensation Survey,⁴ 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 ⁵ (percent)		Mean	Relative error ⁵ (percent)		Mean	Relative error ⁵ (percent)	
Blue collar —Continued									
Machine operators, assemblers, and inspectors —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 occupations¹ and levels:² Mean hourly earnings³ and weekly hours, private industry and State and local government, National Compensation Survey,⁴ 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 ⁵ (percent)		Mean	Relative error ⁵ (percent)		Mean	Relative error ⁵ (percent)	
Blue collar—Continued									
Machine operators, assemblers, and inspectors—Continued									
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	—	—	—
Transportation and material moving	13.72	1.1	37.9	13.77	1.2	38.9	\$13.52	1.7	33.8
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 occupations¹ and levels:² Mean hourly earnings³ and weekly hours, private industry and State and local government, National Compensation Survey,⁴ 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 ⁵ (percent)		Mean	Relative error ⁵ (percent)		Mean	Relative error ⁵ (percent)	
Blue collar—Continued									
Transportation and material moving—Continued									
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									
1	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 occupations¹ and levels:² Mean hourly earnings³ and weekly hours, private industry and State and local government, National Compensation Survey,⁴ 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 ⁵ (percent)		Mean	Relative error ⁵ (percent)		Mean	Relative error ⁵ (percent)	
Blue collar—Continued									
Transportation and material moving—Continued									
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
Handlers, equipment cleaners, helpers, and laborers	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 occupations¹ and levels:² Mean hourly earnings³ and weekly hours, private industry and State and local government, National Compensation Survey,⁴ 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 ⁵ (percent)		Mean	Relative error ⁵ (percent)		Mean	Relative error ⁵ (percent)	
Blue collar—Continued									
Handlers, equipment cleaners, helpers, and laborers—Continued									
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	—	—	—
4	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	—	—	—
Inspectors, agricultural products									
1	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 occupations¹ and levels:² Mean hourly earnings³ and weekly hours, private industry and State and local government, National Compensation Survey,⁴ 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 ⁵ (percent)		Mean	Relative error ⁵ (percent)		Mean	Relative error ⁵ (percent)	
Blue collar—Continued									
Handlers, equipment cleaners, helpers, and laborers—Continued									
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	—	—	—
Service	9.52	.7	33.0	7.85	.6	31.8	13.84	1.3	36.7
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 occupations¹ and levels:² Mean hourly earnings³ and weekly hours, private industry and State and local government, National Compensation Survey,⁴ 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 ⁵ (percent)		Mean	Relative error ⁵ (percent)		Mean	Relative error ⁵ (percent)	
Service—Continued									
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 occupations¹ and levels:² Mean hourly earnings³ and weekly hours, private industry and State and local government, National Compensation Survey,⁴ 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 ⁵ (percent)		Mean	Relative error ⁵ (percent)		Mean	Relative error ⁵ (percent)	
Service—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 occupations¹ and levels:² Mean hourly earnings³ and weekly hours, private industry and State and local government, National Compensation Survey,⁴ 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 ⁵ (percent)		Mean	Relative error ⁵ (percent)		Mean	Relative error ⁵ (percent)	
Service—Continued									
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 occupations¹ and levels:² Mean hourly earnings³ and weekly hours, private industry and State and local government, National Compensation Survey,⁴ 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 ⁵ (percent)		Mean	Relative error ⁵ (percent)		Mean	Relative error ⁵ (percent)	
Service—Continued									
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 occupations¹ and levels:² Mean hourly earnings³ and weekly hours, private industry and State and local government, National Compensation Survey,⁴ 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 ⁵ (percent)		Mean	Relative error ⁵ (percent)		Mean	Relative error ⁵ (percent)	
Service—Continued									
Personal service—Continued									
Attendants, amusement, and recreation facilities—Continued									
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	—	—	—
Guides	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	—	—	—	—	—	—
Ushers	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	—	—	—
Public transportation attendants	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	—	—	—
Baggage porters and bellhops	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	—	—	—
Welfare service aides	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	—	—	—
Early childhood teachers' assistants	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	—	—	—	—	—	—
Child care workers, n.e.c.	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 occupations¹ and levels:² Mean hourly earnings³ and weekly hours, private industry and State and local government, National Compensation Survey,⁴ 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 ⁵ (percent)		Mean	Relative error ⁵ (percent)		Mean	Relative error ⁵ (percent)	
Service—Continued									
Personal service—Continued									
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	—	—	—

¹ A classification system including about 480 individual occupations is used to cover all workers in the civilian economy. For more information, see appendix B.
² Each occupation for which data are collected in an establishment is evaluated based on 10 factors, including knowledge, complexity, work environment, etc. Points are assigned based on the occupation's rank within each factor. The points are summed to determine the overall level of the occupation. See appendixes C and D for more information.

³ 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.

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

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

NOTE: Dashes indicate that no data were reported or that data did not meet publication criteria. Occupational groups may include data for levels not shown separately.

Table 2-5. **Collective bargaining status:¹ Mean hourly earnings² by occupational group,³ National Compensation Survey,⁴ 1998**

Occupational group	Total		Private industry		State and local government	
	Union	Nonunion	Union	Nonunion	Union	Nonunion
Mean						
All	\$17.76	\$15.10	\$15.81	\$14.77	\$20.44	\$17.01
White collar	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
Blue collar	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
Service	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 ⁵ (percent)						
All	0.9	0.6	1.3	0.7	0.7	0.9
White collar .....	.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
Blue collar	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
Service	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

¹ Union workers are those whose wages are determined through collective bargaining.

² 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.

³ A classification system including about 480 individual occupations is

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

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

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

Table 2-6. Time and incentive pay:¹ Mean hourly earnings² and weekly hours by occupational group³ in private industry, National Compensation Survey,⁴ 1998

Occupational group	Time			Incentive		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error ⁵ (percent)		Mean	Relative error ⁵ (percent)	
All	\$14.84	0.6	36.4	\$17.14	2.7	38.6
White collar	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
Blue collar	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
Service	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	—	—	—

¹ 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.

² 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.

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

For more information, see appendix B.

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

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

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

Chapter 3.

Establishment characteristics

While 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.⁵ 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

⁵ 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 earnings¹ and weekly hours by occupational group² in private industry, National Compensation Survey,³ 1998**

Occupational group	Goods-producing industries			Service-producing industries		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error ⁴ (percent)		Mean	Relative error ⁴ (percent)	
All	\$16.00	0.8	39.8	\$14.40	0.7	35.0
White collar	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
Blue collar	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
Service	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

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

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

³ This survey covers all 50 States. Collection was conducted

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

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

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

Table 3-2. Major industry division: Mean hourly earnings¹ and weekly hours by occupational group² in private industry, National Compensation Survey,³ 1998

Occupational group	Mining			Construction			Manufacturing		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error ⁴ (percent)		Mean	Relative error ⁴ (percent)		Mean	Relative error ⁴ (percent)	
All	\$22.97	3.5	40.3	\$17.42	1.4	39.9	\$15.76	0.9	39.8
White collar	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
Blue collar	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
Service	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 earnings¹ and weekly hours by occupational group² in private industry, National Compensation Survey,³ 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 ⁴ (percent)		Mean	Relative error ⁴ (percent)		Mean	Relative error ⁴ (percent)	
All	\$19.01	1.2	37.5	\$16.25	1.8	39.4	\$10.07	1.2	31.2
White collar	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
Blue collar	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
Service	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 earnings¹ and weekly hours by occupational group² in private industry, National Compensation Survey,³ 1998—Continued

Occupational group	Finance, insurance, and real estate			Services		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error ⁴ (percent)		Mean	Relative error ⁴ (percent)	
All	\$19.14	1.8	37.7	\$14.13	1.0	35.3
White collar	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
Blue collar	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
Service	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

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

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

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

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

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

Table 3-3. **United States, establishment employment size: Mean hourly earnings¹ by occupational group,² National Compensation Survey,³ 1998**

Occupational group	50-99 workers	100-499 workers	500-999 workers	1,000-2,499 workers	2,500 or more workers
	Mean				
All	\$13.04	\$14.21	\$16.45	\$16.51	\$20.07
White collar	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
Blue collar	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
Service	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 ⁴ (percent)				
All	1.1	0.7	1.4	7.3	0.6
White collar	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
Blue collar	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
Service	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

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

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

For more information, see appendix B.

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

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

Table 3-4. Private Industry, establishment employment size: Mean hourly earnings¹ by occupational group,² National Compensation Survey,³ 1998

Occupational group	50-99 workers	100-499 workers	500-999 workers	1,000-2,499 workers	2,500 or more workers
	Mean				
All	\$12.96	\$13.82	\$15.82	\$15.81	\$21.05
White collar	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
Blue collar	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
Service	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 ⁴ (percent)				
All	1.2	0.8	1.6	9.3	1.1
White collar	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
Blue collar	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
Service .....	.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

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

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

³ This survey covers all 50 States. Collection was conducted

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

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

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

Table 3-5. **State and local government, establishment employment size: Mean hourly earnings¹ by occupational group,² National Compensation Survey,³ 1998**

Occupational group	50-99 workers	100-499 workers	500-999 workers	1,000-2,499 workers	2,500 or more workers
	Mean				
All	\$14.40	\$17.59	\$18.83	\$18.65	\$19.27
White collar	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
Blue collar	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
Service	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 ⁴ (percent)				
All	3.6	1.3	1.7	2.0	0.7
White collar	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
Blue collar	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
Service	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

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

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

³ This survey covers all 50 States. Collection was conducted

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

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

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

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 areas⁶

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.

⁶ 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 adjusted⁷ 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 4-4.⁸)

Nine census divisions⁹

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.¹⁰ (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.

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

⁸ 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.

⁹ 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.

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

Table 4-1. **Summary, metropolitan and nonmetropolitan areas:¹ Mean hourly earnings² and weekly hours by selected characteristics, National Compensation Survey,³ 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 ⁴ (percent)		Mean	Relative error ⁴ (percent)		Mean	Relative error ⁴ (percent)	
Total	\$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
Worker characteristics:⁵									
White-collar occupations ⁶	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 ⁶	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 ⁶	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
Establishment characteristics:									
Goods producing ⁷	16.00	.8	39.8	17.00	.8	39.8	12.37	2.1	40.0
Service producing ⁷	14.40	.7	35.0	15.05	.8	34.9	10.12	1.1	35.2
50-99 workers ⁸	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
Geographic areas:⁹									
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

¹ 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.

² 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.

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

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

⁵ 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.

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

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

⁸ 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.

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

Table 4-2. **United States: Mean hourly earnings¹ and weekly hours by metropolitan and nonmetropolitan areas² for selected occupations, National Compensation Survey,³ 1998**

Occupation ⁴	Total			Metropolitan			Nonmetropolitan		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error ⁵ (percent)		Mean	Relative error ⁵ (percent)		Mean	Relative error ⁵ (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
White collar	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
Professional specialty and technical	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 earnings¹ and weekly hours by metropolitan and nonmetropolitan areas² for selected occupations, National Compensation Survey,³ 1998—Continued**

Occupation ⁴	Total			Metropolitan			Nonmetropolitan		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error ⁵ (percent)		Mean	Relative error ⁵ (percent)		Mean	Relative error ⁵ (percent)	
White collar —Continued									
Professional specialty and technical —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 earnings¹ and weekly hours by metropolitan and nonmetropolitan areas² for selected occupations, National Compensation Survey,³ 1998–Continued**

Occupation ⁴	Total			Metropolitan			Nonmetropolitan		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error ⁵ (percent)		Mean	Relative error ⁵ (percent)		Mean	Relative error ⁵ (percent)	
White collar –Continued									
Professional specialty and technical –Continued									
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
Executive, administrative, and managerial	27.78	.7	40.0	28.35	.7	40.1	22.56	2.6	39.7
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
Sales	13.28	3.6	33.0	14.12	1.9	32.6	9.10	5.4	35.3
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 earnings¹ and weekly hours by metropolitan and nonmetropolitan areas² for selected occupations, National Compensation Survey,³ 1998—Continued**

Occupation ⁴	Total			Metropolitan			Nonmetropolitan		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error ⁵ (percent)		Mean	Relative error ⁵ (percent)		Mean	Relative error ⁵ (percent)	
White collar —Continued									
Sales —Continued									
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
Administrative support, including clerical									
Supervisors, general office	12.00	.5	37.0	12.23	.5	37.0	10.41	2.1	37.5
Supervisors, computer equipment operators	16.78	1.4	39.6	16.85	1.4	39.5	15.80	6.0	40.0
Supervisors, financial records processing	20.72	3.5	39.9	19.74	3.6	39.4	—	—	—
Supervisors, computer equipment operators	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 earnings¹ and weekly hours by metropolitan and nonmetropolitan areas² for selected occupations, National Compensation Survey,³ 1998—Continued**

Occupation ⁴	Total			Metropolitan			Nonmetropolitan		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error ⁵ (percent)		Mean	Relative error ⁵ (percent)		Mean	Relative error ⁵ (percent)	
White collar —Continued									
Administrative support, including clerical —Continued									
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
Blue collar	12.90	.6	38.5	13.31	.6	38.4	11.36	2.2	38.9
Precision production, craft, and repair									
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 earnings¹ and weekly hours by metropolitan and nonmetropolitan areas² for selected occupations, National Compensation Survey,³ 1998–Continued**

Occupation ⁴	Total			Metropolitan			Nonmetropolitan		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error ⁵ (percent)		Mean	Relative error ⁵ (percent)		Mean	Relative error ⁵ (percent)	
Blue collar –Continued									
Precision production, craft, and repair –Continued									
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 earnings¹ and weekly hours by metropolitan and nonmetropolitan areas² for selected occupations, National Compensation Survey,³ 1998—Continued**

Occupation ⁴	Total			Metropolitan			Nonmetropolitan		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error ⁵ (percent)		Mean	Relative error ⁵ (percent)		Mean	Relative error ⁵ (percent)	
Blue collar—Continued									
Precision production, craft, and repair—Continued									
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
Machine operators, assemblers, and inspectors									
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 earnings¹ and weekly hours by metropolitan and nonmetropolitan areas² for selected occupations, National Compensation Survey,³ 1998—Continued**

Occupation ⁴	Total			Metropolitan			Nonmetropolitan		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error ⁵ (percent)		Mean	Relative error ⁵ (percent)		Mean	Relative error ⁵ (percent)	
Blue collar—Continued									
Machine operators, assemblers, and inspectors—Continued									
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	—	—	—
Transportation and material moving	13.72	1.1	37.9	13.85	1.0	38.1	13.01	4.2	37.2
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
Handlers, equipment cleaners, helpers, and laborers ..	9.69	.7	35.9	9.84	.8	35.5	9.17	2.1	37.2
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
Service	9.52	.7	33.0	9.90	1.0	32.6	8.20	1.5	34.6
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 earnings¹ and weekly hours by metropolitan and nonmetropolitan areas² for selected occupations, National Compensation Survey,³ 1998—Continued**

Occupation ⁴	Total			Metropolitan			Nonmetropolitan		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error ⁵ (percent)		Mean	Relative error ⁵ (percent)		Mean	Relative error ⁵ (percent)	
Service—Continued									
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	—	—	—

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

² 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.

³ This survey covers all 50 States. Collection was conducted between July 1997 and

April 1999. The average reference period was August 1998.

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

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

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

Table 4-3. Largest 10 metropolitan areas¹ ranked by employment size: Mean hourly earnings² by occupational group, National Compensation Survey, 1998-1999

Occupational group ³	(1) New York- Northern New Jersey- Long Island (March 1998)	(2) Los Angeles- Riverside- Orange County (March 1998)	(3) Chicago- Gary- Kenosha (October 1998)	(4) Washington- Baltimore (March 1998)	(5) San Francisco- Oakland- San Jose (March 1998)
All	\$20.24	\$17.69	\$17.47	\$17.41	\$20.72
White collar	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
Blue collar	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
Service	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) Boston- Worcester- Lawrence (October 1998)	(7) Philadelphia- Wilmington- Atlantic City (February 1999)	(8) Detroit- Ann Arbor- Flint (March 1998)	(9) Dallas- Fort Worth (March 1998)	(10) Houston- Galveston- Brazoria (January 1999)
All	\$18.20	\$18.43	\$18.55	\$16.30	\$17.37
White collar	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
Blue collar	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
Service	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

¹ 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.

² 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.

³ 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 ¹				Blue collar ¹				Service
		Profession- ional	Execu- tive	Sales	Adminis- trative	Pre- cision	Machine oper- ators	Trans- por- tation	Hand- lers	
United States ²	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 ¹				Blue collar ¹				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

¹ 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.

² 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 earnings¹ and weekly hours by selected characteristics, National Compensation Survey,² 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 ³ (percent)		Mean	Relative error ³ (percent)		Mean	Relative error ³ (percent)	
Total	\$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
Worker characteristics:⁴									
White-collar occupations ⁵	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 ⁵	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 ⁵	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
Establishment characteristics:									
Goods producing ⁶	16.00	.8	39.8	17.04	3.3	39.5	17.43	2.8	39.7
Service producing ⁶	14.40	.7	35.0	16.22	1.8	33.0	17.01	1.9	34.5
50-99 workers ⁷	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 earnings¹ and weekly hours by selected characteristics, National Compensation Survey,² 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 ³ (percent)		Mean	Relative error ³ (percent)		Mean	Relative error ³ (percent)	
Total	\$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
Worker characteristics:⁴									
White-collar occupations ⁵	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 ⁵	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 ⁵	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
Establishment characteristics:									
Goods producing ⁶	16.51	1.3	39.8	15.00	2.2	39.7	14.11	1.7	39.8
Service producing ⁶	14.58	1.4	34.0	13.56	2.3	34.8	13.67	1.3	35.4
50-99 workers ⁷	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 earnings¹ and weekly hours by selected characteristics, National Compensation Survey,² 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 ³ (percent)		Mean	Relative error ³ (percent)	
Total	\$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
Worker characteristics:⁴						
White-collar occupations ⁵	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 ⁵	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 ⁵	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
Establishment characteristics:						
Goods producing ⁶	13.35	3.6	40.1	15.73	2.9	40.0
Service producing ⁶	10.19	2.1	36.9	13.56	2.2	35.5
50-99 workers ⁷	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 earnings¹ and weekly hours by selected characteristics, National Compensation Survey,² 1998—Continued**

Worker and establishment characteristics	Mountain			Pacific		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error ³ (percent)		Mean	Relative error ³ (percent)	
Total	\$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
Worker characteristics:⁴						
White-collar occupations ⁵	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 ⁵	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 ⁵	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 ⁶	14.55	2.6	36.4	17.83	1.3	36.2
Service producing ⁶	15.53	11.5	37.9	18.79	6.9	37.7
50-99 workers ⁷	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

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

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

³ 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.

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

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

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

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

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

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

Table 4-6. **New England census division:¹ Mean hourly earnings² and weekly hours by metropolitan and nonmetropolitan areas³ for selected occupations, National Compensation Survey,⁴ 1998**

Occupation ⁵	Total			Metropolitan			Nonmetropolitan		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error ⁶ (percent)		Mean	Relative error ⁶ (percent)		Mean	Relative error ⁶ (percent)	
All	\$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
White collar	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
Professional specialty and technical	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:¹ Mean hourly earnings² and weekly hours by metropolitan and nonmetropolitan areas³ for selected occupations, National Compensation Survey,⁴ 1998—Continued

Occupation ⁵	Total			Metropolitan			Nonmetropolitan		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error ⁶ (percent)		Mean	Relative error ⁶ (percent)		Mean	Relative error ⁶ (percent)	
White collar —Continued									
Professional specialty and technical —Continued									
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	—	—	—
Executive, administrative, and managerial									
Executives, administrators, and managers	33.54	2.1	39.7	28.71	2.3	39.5	27.02	3.0	41.2
Legislators	25.86	2.4	39.9	33.93	2.7	39.6	30.73	2.7	42.1
Administrators and officials, public administration ...	26.51	4.5	18.6	25.86	4.5	18.6	—	—	—
Financial managers	34.47	8.1	37.0	28.57	4.8	36.6	—	—	—
Personnel and labor relations managers	34.47	3.8	40.2	33.33	4.9	40.3	—	—	—
Purchasing managers	25.82	25.3	46.3	36.92	24.8	42.1	—	—	—
Managers, marketing, advertising, and public relations	32.04	8.8	41.6	32.04	8.8	41.6	—	—	—
Administrators, education and related fields	40.55	8.4	40.9	40.55	8.4	40.9	—	—	—
Managers, medicine and health	34.78	5.5	37.7	34.44	5.8	37.5	—	—	—
Managers, food servicing and lodging establishments	29.98	6.8	39.5	30.30	7.4	39.5	—	—	—
Managers, service organizations, n.e.c.	19.21	5.7	44.1	19.21	5.7	44.1	—	—	—
Managers and administrators, n.e.c.	21.83	10.8	39.7	21.92	10.8	39.7	—	—	—
Management related	37.36	3.4	40.5	37.16	3.7	40.5	—	—	—
Accountants and auditors	21.21	1.8	39.4	21.48	1.9	39.4	17.64	.0	39.3
Underwriters	20.01	3.3	39.2	20.21	3.6	39.1	—	—	—
Other financial officers	24.04	11.1	38.6	26.08	11.4	39.6	—	—	—
Management analysts	24.27	3.2	39.6	24.35	3.3	39.9	—	—	—
Personnel, training, and labor relations specialists ..	24.72	5.8	39.2	24.77	5.9	39.2	—	—	—
Buyers, wholesale and retail trade, except farm products	19.99	5.4	39.8	20.16	5.5	39.7	—	—	—
Purchasing agents and buyers, n.e.c.	23.55	7.4	41.3	23.55	7.4	41.3	—	—	—
Construction inspectors	20.84	5.2	40.0	20.84	5.2	40.0	—	—	—
Inspectors and compliance officers, except construction	23.58	2.7	39.7	23.58	2.7	39.7	—	—	—
Management related, n.e.c.	21.97	3.1	36.3	21.97	3.1	36.3	—	—	—
	20.98	4.3	39.6	21.35	4.6	39.5	—	—	—
Sales									
Supervisors, sales	14.56	7.1	30.3	14.49	7.6	30.0	15.61	5.0	34.4
Insurance sales	18.99	9.4	41.8	18.51	11.1	42.2	—	—	—
Securities and financial services sales	25.35	4.2	39.8	25.35	4.2	39.8	—	—	—
Advertising and related sales	29.47	24.5	41.4	29.47	24.5	41.4	—	—	—
Sales, other business services	20.42	6.7	39.9	20.42	6.7	39.9	—	—	—
Sales representatives, mining, manufacturing, and wholesale	26.68	25.8	39.8	26.68	25.8	39.8	—	—	—
Sales workers, motor vehicles and boats	29.61	16.1	40.5	29.61	16.1	40.5	—	—	—
Sales workers, apparel	20.63	17.2	42.9	20.63	17.2	42.9	—	—	—
	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:**¹ **Mean hourly earnings**² **and weekly hours by metropolitan and nonmetropolitan areas**³ **for selected occupations, National Compensation Survey,**⁴ **1998—Continued**

Occupation ⁵	Total			Metropolitan			Nonmetropolitan		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error ⁶ (percent)		Mean	Relative error ⁶ (percent)		Mean	Relative error ⁶ (percent)	
White collar —Continued									
Sales —Continued									
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	—	—	—
Administrative support, including clerical	12.93	1.7	35.9	13.12	1.6	35.9	\$11.29	5.5	36.3
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	—	—	—
Blue collar	13.24	2.6	37.7	13.80	1.4	37.6	10.00	9.6	38.7
Precision production, craft, and repair									
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:**¹ **Mean hourly earnings**² **and weekly hours by metropolitan and nonmetropolitan areas**³ **for selected occupations, National Compensation Survey,**⁴ **1998—Continued**

Occupation ⁵	Total			Metropolitan			Nonmetropolitan		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error ⁶ (percent)		Mean	Relative error ⁶ (percent)		Mean	Relative error ⁶ (percent)	
Blue collar—Continued									
Precision production, craft, and repair—Continued									
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	—	—	—
Machine operators, assemblers, and inspectors	11.04	3.1	38.6	11.57	1.6	38.5	\$9.12	7.9	38.8
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	—	—	—
Laundering 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	—	—	—
Transportation and material moving	14.91	2.7	37.7	14.93	2.7	37.7	—	—	—
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	—	—	—
Handlers, equipment cleaners, helpers, and laborers ..	10.46	4.5	33.6	10.93	3.9	33.0	7.98	6.5	37.3
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:¹ Mean hourly earnings² and weekly hours by metropolitan and nonmetropolitan areas³ for selected occupations, National Compensation Survey,⁴ 1998—Continued

Occupation ⁵	Total			Metropolitan			Nonmetropolitan		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error ⁶ (percent)		Mean	Relative error ⁶ (percent)		Mean	Relative error ⁶ (percent)	
Service	\$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	—	—	—

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

² 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.

³ 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.

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

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

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

NOTE: Dashes indicate that no data were reported or that data did not meet publication criteria, 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:¹ Mean hourly earnings² and weekly hours by metropolitan and nonmetropolitan areas³ for selected occupations, National Compensation Survey,⁴ 1998

Occupation ⁵	Total			Metropolitan			Nonmetropolitan		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error ⁶ (percent)		Mean	Relative error ⁶ (percent)		Mean	Relative error ⁶ (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
White collar	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
Professional specialty and technical	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:¹ Mean hourly earnings² and weekly hours by metropolitan and nonmetropolitan areas³ for selected occupations, National Compensation Survey,⁴ 1998–Continued

Occupation ⁵	Total			Metropolitan			Nonmetropolitan		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error ⁶ (percent)		Mean	Relative error ⁶ (percent)		Mean	Relative error ⁶ (percent)	
White collar –Continued									
Professional specialty and technical –Continued									
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	–	–	–
Executive, administrative, and managerial									
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:¹ Mean hourly earnings² and weekly hours by metropolitan and nonmetropolitan areas³ for selected occupations, National Compensation Survey,⁴ 1998–Continued

Occupation ⁵	Total			Metropolitan			Nonmetropolitan		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error ⁶ (percent)		Mean	Relative error ⁶ (percent)		Mean	Relative error ⁶ (percent)	
White collar –Continued									
Executive, administrative, and managerial –Continued									
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	–	–	–
Sales	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	–	–	–
Administrative support, including clerical	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:¹ Mean hourly earnings² and weekly hours by metropolitan and nonmetropolitan areas³ for selected occupations, National Compensation Survey,⁴ 1998–Continued

Occupation ⁵	Total			Metropolitan			Nonmetropolitan		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error ⁶ (percent)		Mean	Relative error ⁶ (percent)		Mean	Relative error ⁶ (percent)	
White collar –Continued									
Administrative support, including clerical –Continued									
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	–	–	–
Blue collar	13.85	1.6	38.3	14.12	1.7	38.3	10.97	2.7	38.2
Precision production, craft, and repair									
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:¹ Mean hourly earnings² and weekly hours by metropolitan and nonmetropolitan areas³ for selected occupations, National Compensation Survey,⁴ 1998–Continued

Occupation ⁵	Total			Metropolitan			Nonmetropolitan		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error ⁶ (percent)		Mean	Relative error ⁶ (percent)		Mean	Relative error ⁶ (percent)	
Blue collar –Continued									
Precision production, craft, and repair –Continued									
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	–	–	–
Machine operators, assemblers, and inspectors	11.84	1.7	39.6	12.11	1.9	39.6	\$9.42	5.8	39.9
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	–	–	–
Transportation and material moving	14.72	2.2	36.2	14.68	2.2	36.5	16.09	7.4	28.3
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:¹ Mean hourly earnings² and weekly hours by metropolitan and nonmetropolitan areas³ for selected occupations, National Compensation Survey,⁴ 1998–Continued

Occupation ⁵	Total			Metropolitan			Nonmetropolitan		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error ⁶ (percent)		Mean	Relative error ⁶ (percent)		Mean	Relative error ⁶ (percent)	
Blue collar –Continued									
Transportation and material moving –Continued									
Miscellaneous material moving equipment operators, n.e.c.	\$15.63	3.3	37.8	\$15.58	3.4	37.8	–	–	–
Handlers, equipment cleaners, helpers, and laborers ...									
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	–	–	–
Service									
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:¹ Mean hourly earnings² and weekly hours by metropolitan and nonmetropolitan areas³ for selected occupations, National Compensation Survey,⁴ 1998–Continued

Occupation ⁵	Total			Metropolitan			Nonmetropolitan		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error ⁶ (percent)		Mean	Relative error ⁶ (percent)		Mean	Relative error ⁶ (percent)	
Service –Continued									
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	–	–	–

¹ 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.

² 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.

³ 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.

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

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

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

NOTE: Dashes indicate that no data were reported or that data did not meet publication criteria, 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:¹ Mean hourly earnings² and weekly hours by metropolitan and nonmetropolitan areas³ for selected occupations, National Compensation Survey,⁴ 1998

Occupation ⁵	Total			Metropolitan			Nonmetropolitan		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error ⁶ (percent)		Mean	Relative error ⁶ (percent)		Mean	Relative error ⁶ (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
White collar	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
Professional specialty and technical	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:¹ Mean hourly earnings² and weekly hours by metropolitan and nonmetropolitan areas³ for selected occupations, National Compensation Survey,⁴ 1998–Continued

Occupation ⁵	Total			Metropolitan			Nonmetropolitan		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error ⁶ (percent)		Mean	Relative error ⁶ (percent)		Mean	Relative error ⁶ (percent)	
White collar –Continued									
Professional specialty and technical –Continued									
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	–	–	–
Executive, administrative, and managerial	27.76	1.5	39.9	28.33	1.6	40.0	21.44	5.6	38.7
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:¹ Mean hourly earnings² and weekly hours by metropolitan and nonmetropolitan areas³ for selected occupations, National Compensation Survey,⁴ 1998–Continued

Occupation ⁵	Total			Metropolitan			Nonmetropolitan		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error ⁶ (percent)		Mean	Relative error ⁶ (percent)		Mean	Relative error ⁶ (percent)	
White collar –Continued									
Executive, administrative, and managerial –Continued									
Executives, administrators, and managers –Continued									
Managers, medicine and health	\$28.30	3.0	40.1	\$29.87	3.3	40.1	\$24.20	5.4	40.0
Managers, food servicing and lodging establishments	16.54	6.9	43.6	17.35	7.3	42.4	–	–	–
Managers, properties and real estate	18.79	12.2	39.6	18.79	12.2	39.6	–	–	–
Managers, service organizations, n.e.c.	22.97	9.1	38.1	22.95	9.1	39.3	–	–	–
Managers and administrators, n.e.c.	34.37	3.4	40.7	34.69	3.5	40.7	23.09	16.6	42.0
Management related	23.04	1.2	39.6	23.65	1.3	39.6	15.07	5.1	39.9
Accountants and auditors	18.99	6.4	39.9	20.47	1.6	39.9	–	–	–
Underwriters	28.50	7.3	38.8	28.87	7.6	38.8	–	–	–
Other financial officers	24.65	5.0	39.9	25.05	5.0	39.9	–	–	–
Management analysts	22.16	6.6	39.4	21.99	6.7	39.4	–	–	–
Personnel, training, and labor relations specialists ..	22.90	2.8	39.1	22.99	2.7	39.1	–	–	–
Buyers, wholesale and retail trade, except farm products	19.73	7.4	41.1	19.73	7.4	41.1	–	–	–
Purchasing agents and buyers, n.e.c.	26.41	2.5	39.9	26.79	2.1	39.9	–	–	–
Construction inspectors	20.01	7.8	39.2	19.66	8.3	39.2	–	–	–
Inspectors and compliance officers, except construction	18.95	4.5	39.6	19.01	5.0	39.5	–	–	–
Management related, n.e.c.	25.20	2.5	39.5	25.45	2.6	39.5	–	–	–
Sales	15.16	5.0	32.1	15.81	5.1	32.7	8.95	6.0	27.3
Supervisors, sales	22.46	16.5	39.7	23.66	17.0	40.4	–	–	–
Insurance sales	16.19	18.3	31.8	16.19	18.3	31.8	–	–	–
Securities and financial services sales	52.23	21.4	39.9	52.23	21.4	39.9	–	–	–
Advertising and related sales	16.67	11.7	39.6	19.41	6.7	39.3	–	–	–
Sales, other business services	22.94	9.8	39.8	23.58	10.0	39.8	–	–	–
Sales engineers	29.28	7.8	41.9	29.06	8.2	41.5	–	–	–
Sales representatives, mining, manufacturing, and wholesale	27.38	8.0	40.5	27.64	8.0	40.5	–	–	–
Sales workers, motor vehicles and boats	19.96	6.0	44.4	19.96	6.0	44.4	–	–	–
Sales workers, apparel	7.00	4.4	28.0	7.00	4.4	28.0	–	–	–
Sales workers, furniture and home furnishings	11.40	18.4	29.9	11.40	18.4	29.9	–	–	–
Sales workers, radio, tv, hi-fi, and appliances	12.78	12.5	34.0	12.78	12.5	34.0	–	–	–
Sales workers, hardware and building supplies	9.96	8.4	35.5	10.25	9.3	34.8	–	–	–
Sales workers, parts	14.28	6.0	39.8	14.28	6.0	39.8	–	–	–
Sales workers, other commodities	9.40	5.2	28.7	9.40	5.2	28.7	–	–	–
Sales counter clerks	8.30	8.4	27.5	8.24	9.6	26.4	–	–	–
Cashiers	7.19	1.2	25.5	7.37	1.4	26.4	6.42	2.8	22.1
Demonstrators, promoters, and models, sales	9.99	9.3	28.8	9.99	9.3	28.8	–	–	–
Sales support, n.e.c.	12.69	4.6	38.3	12.69	4.6	38.3	–	–	–
Administrative support, including clerical	12.02	.8	37.0	12.20	.8	36.9	10.84	2.4	37.4
Supervisors, general office	16.42	2.5	39.6	16.47	2.5	39.6	–	–	–
Supervisors, computer equipment operators	17.69	8.6	40.4	17.69	8.6	40.4	–	–	–
Supervisors, financial records processing	17.17	4.4	39.7	17.64	4.1	39.9	–	–	–
Chief communications operators	13.55	7.2	40.0	13.55	7.2	40.0	–	–	–
Supervisors, distribution, scheduling, and adjusting clerks	16.88	6.0	40.1	17.41	5.6	40.2	–	–	–
Computer operators	15.06	3.5	39.4	15.12	3.5	39.4	–	–	–
Secretaries	13.12	1.4	38.0	13.32	1.4	37.9	12.12	6.7	38.0
Stenographers	12.71	3.7	35.3	12.70	3.6	35.2	–	–	–
Typists	11.13	3.3	37.5	11.22	3.5	37.3	–	–	–
Interviewers	9.63	2.1	32.6	9.82	1.3	33.1	–	–	–
Hotel clerks	8.06	3.9	32.9	8.06	3.4	37.6	–	–	–
Transportation ticket and reservation agents	14.17	7.6	34.2	14.17	7.6	34.2	–	–	–
Receptionists	9.46	2.2	35.4	9.57	2.2	34.3	9.07	5.6	39.5
Information clerks, n.e.c.	12.44	3.9	37.7	12.47	3.9	37.7	–	–	–
Correspondence clerks	12.70	9.3	39.1	12.70	9.3	39.1	–	–	–
Order clerks	12.20	2.9	38.2	12.20	2.9	38.2	–	–	–

See footnotes at end of table.

Table 4-8. East North Central census division:¹ Mean hourly earnings² and weekly hours by metropolitan and nonmetropolitan areas³ for selected occupations, National Compensation Survey,⁴ 1998–Continued

Occupation ⁵	Total			Metropolitan			Nonmetropolitan		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error ⁶ (percent)		Mean	Relative error ⁶ (percent)		Mean	Relative error ⁶ (percent)	
White collar –Continued									
Administrative support, including clerical –Continued									
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
Blue collar	13.86	.9	38.3	14.25	1.0	38.2	12.35	1.2	38.9
Precision production, craft, and repair									
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:¹ Mean hourly earnings² and weekly hours by metropolitan and nonmetropolitan areas³ for selected occupations, National Compensation Survey,⁴ 1998–Continued

Occupation ⁵	Total			Metropolitan			Nonmetropolitan		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error ⁶ (percent)		Mean	Relative error ⁶ (percent)		Mean	Relative error ⁶ (percent)	
Blue collar –Continued									
Precision production, craft, and repair –Continued									
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	–	–	–
Machine operators, assemblers, and inspectors	12.81	1.5	39.8	13.19	1.6	39.7	11.68	2.4	39.9
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:¹ Mean hourly earnings² and weekly hours by metropolitan and nonmetropolitan areas³ for selected occupations, National Compensation Survey,⁴ 1998—Continued

Occupation ⁵	Total			Metropolitan			Nonmetropolitan		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error ⁶ (percent)		Mean	Relative error ⁶ (percent)		Mean	Relative error ⁶ (percent)	
Blue collar—Continued									
Machine operators, assemblers, and inspectors—Continued									
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	—	—	—
Transportation and material moving	14.42	1.4	36.5	14.56	1.6	36.4	13.69	1.8	37.2
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	—	—	—
Handlers, equipment cleaners, helpers, and laborers	10.65	1.4	34.6	10.51	1.5	34.4	11.31	3.4	35.5
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:¹ Mean hourly earnings² and weekly hours by metropolitan and nonmetropolitan areas³ for selected occupations, National Compensation Survey,⁴ 1998–Continued

Occupation ⁵	Total			Metropolitan			Nonmetropolitan		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error ⁶ (percent)		Mean	Relative error ⁶ (percent)		Mean	Relative error ⁶ (percent)	
Blue collar –Continued									
Handlers, equipment cleaners, helpers, and laborers –Continued									
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
Service									
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

¹ 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.

² 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.

³ 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.

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

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

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

NOTE: Dashes indicate that no data were reported or that data did not meet publication criteria, 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:¹ Mean hourly earnings² and weekly hours by metropolitan and nonmetropolitan areas³ for selected occupations, National Compensation Survey,⁴ 1998

Occupation ⁵	Total			Metropolitan			Nonmetropolitan		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error ⁶ (percent)		Mean	Relative error ⁶ (percent)		Mean	Relative error ⁶ (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
White collar	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
Professional specialty and technical	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:¹ Mean hourly earnings² and weekly hours by metropolitan and nonmetropolitan areas³ for selected occupations, National Compensation Survey,⁴ 1998—Continued

Occupation ⁵	Total			Metropolitan			Nonmetropolitan		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error ⁶ (percent)		Mean	Relative error ⁶ (percent)		Mean	Relative error ⁶ (percent)	
White collar —Continued									
Professional specialty and technical —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	—	—	—
Executive, administrative, and managerial									
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	—	—	—
	18.15	4.7	40.4	18.36	5.0	40.5	—	—	—
Sales									
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
	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:¹ Mean hourly earnings² and weekly hours by metropolitan and nonmetropolitan areas³ for selected occupations, National Compensation Survey,⁴ 1998–Continued

Occupation ⁵	Total			Metropolitan			Nonmetropolitan		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error ⁶ (percent)		Mean	Relative error ⁶ (percent)		Mean	Relative error ⁶ (percent)	
White collar –Continued									
Sales –Continued									
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	–	–	–
Administrative support, including clerical									
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:¹ Mean hourly earnings² and weekly hours by metropolitan and nonmetropolitan areas³ for selected occupations, National Compensation Survey,⁴ 1998–Continued

Occupation ⁵	Total			Metropolitan			Nonmetropolitan		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error ⁶ (percent)		Mean	Relative error ⁶ (percent)		Mean	Relative error ⁶ (percent)	
White collar –Continued									
Administrative support, including clerical –Continued									
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
Blue collar	12.81	1.6	38.8	13.53	2.2	39.0	11.47	3.3	38.4
Precision production, craft, and repair									
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	–	–	–
Machine operators, assemblers, and inspectors									
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:¹ Mean hourly earnings² and weekly hours by metropolitan and nonmetropolitan areas³ for selected occupations, National Compensation Survey,⁴ 1998—Continued

Occupation ⁵	Total			Metropolitan			Nonmetropolitan		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error ⁶ (percent)		Mean	Relative error ⁶ (percent)		Mean	Relative error ⁶ (percent)	
Blue collar—Continued									
Machine operators, assemblers, and inspectors—Continued									
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	—	—	—
Transportation and material moving	14.23	3.1	41.2	14.23	2.7	42.4	14.22	9.1	38.1
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	—	—	—
Handlers, equipment cleaners, helpers, and laborers ..	9.92	1.8	35.3	10.36	2.3	35.2	9.16	3.4	35.6
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
Service	9.23	1.6	31.1	9.46	2.1	31.0	8.61	4.1	31.3
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	—	—	—
Food service	7.01	2.1	26.4	7.00	2.4	27.3	7.05	3.0	23.0
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
Health service	8.22	1.6	31.4	8.80	1.6	31.0	7.54	3.9	31.9
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:¹ Mean hourly earnings² and weekly hours by metropolitan and nonmetropolitan areas³ for selected occupations, National Compensation Survey,⁴ 1998–Continued

Occupation ⁵	Total			Metropolitan			Nonmetropolitan		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error ⁶ (percent)		Mean	Relative error ⁶ (percent)		Mean	Relative error ⁶ (percent)	
Service –Continued									
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

¹ 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.

² 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.

³ 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.

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

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

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

NOTE: Dashes indicate that no data were reported or that data did not meet publication criteria, 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:¹ Mean hourly earnings² and weekly hours by metropolitan and nonmetropolitan areas³ for selected occupations, National Compensation Survey,⁴ 1998

Occupation ⁵	Total			Metropolitan			Nonmetropolitan		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error ⁶ (percent)		Mean	Relative error ⁶ (percent)		Mean	Relative error ⁶ (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
White collar	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
Professional specialty and technical	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:¹ Mean hourly earnings² and weekly hours by metropolitan and nonmetropolitan areas³ for selected occupations, National Compensation Survey,⁴ 1998–Continued

Occupation ⁵	Total			Metropolitan			Nonmetropolitan		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error ⁶ (percent)		Mean	Relative error ⁶ (percent)		Mean	Relative error ⁶ (percent)	
White collar –Continued									
Professional specialty and technical –Continued									
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
Executive, administrative, and managerial	25.59	1.1	40.4	25.71	1.2	40.6	24.39	3.5	38.6
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:¹ Mean hourly earnings² and weekly hours by metropolitan and nonmetropolitan areas³ for selected occupations, National Compensation Survey,⁴ 1998–Continued

Occupation ⁵	Total			Metropolitan			Nonmetropolitan		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error ⁶ (percent)		Mean	Relative error ⁶ (percent)		Mean	Relative error ⁶ (percent)	
White collar –Continued									
Executive, administrative, and managerial –Continued									
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
Sales									
Supervisors, sales	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	–	–	–
Administrative support, including clerical									
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:¹ Mean hourly earnings² and weekly hours by metropolitan and nonmetropolitan areas³ for selected occupations, National Compensation Survey,⁴ 1998–Continued

Occupation ⁵	Total			Metropolitan			Nonmetropolitan		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error ⁶ (percent)		Mean	Relative error ⁶ (percent)		Mean	Relative error ⁶ (percent)	
White collar –Continued									
Administrative support, including clerical –Continued									
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
Blue collar	11.69	1.4	38.5	11.98	.7	38.4	10.67	6.0	39.1
Precision production, craft, and repair									
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:¹ Mean hourly earnings² and weekly hours by metropolitan and nonmetropolitan areas³ for selected occupations, National Compensation Survey,⁴ 1998–Continued

Occupation ⁵	Total			Metropolitan			Nonmetropolitan		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error ⁶ (percent)		Mean	Relative error ⁶ (percent)		Mean	Relative error ⁶ (percent)	
Blue collar –Continued									
Precision production, craft, and repair –Continued									
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	–	–	–
Machine operators, assemblers, and inspectors	10.55	1.8	39.6	11.04	.8	39.5	9.37	5.1	40.0
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:¹ Mean hourly earnings² and weekly hours by metropolitan and nonmetropolitan areas³ for selected occupations, National Compensation Survey,⁴ 1998–Continued

Occupation ⁵	Total			Metropolitan			Nonmetropolitan		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error ⁶ (percent)		Mean	Relative error ⁶ (percent)		Mean	Relative error ⁶ (percent)	
Blue collar –Continued									
Machine operators, assemblers, and inspectors –Continued									
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	–	–	–
Transportation and material moving	12.15	1.7	37.9	12.37	1.8	38.0	10.77	3.4	37.4
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	–	–	–
Handlers, equipment cleaners, helpers, and laborers ..	8.97	2.0	36.1	9.05	1.0	35.9	8.64	10.5	37.0
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:¹ Mean hourly earnings² and weekly hours by metropolitan and nonmetropolitan areas³ for selected occupations, National Compensation Survey,⁴ 1998–Continued

Occupation ⁵	Total			Metropolitan			Nonmetropolitan		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error ⁶ (percent)		Mean	Relative error ⁶ (percent)		Mean	Relative error ⁶ (percent)	
Blue collar –Continued									
Handlers, equipment cleaners, helpers, and laborers –Continued									
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
Service									
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

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

² 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.

³ 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.

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

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

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

NOTE: Dashes indicate that no data were reported or that data did not meet publication criteria, 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:¹ Mean hourly earnings² and weekly hours by metropolitan and nonmetropolitan areas³ for selected occupations, National Compensation Survey,⁴ 1998

Occupation ⁵	Total			Metropolitan			Nonmetropolitan		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error ⁶ (percent)		Mean	Relative error ⁶ (percent)		Mean	Relative error ⁶ (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
White collar	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
Professional specialty and technical	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:¹ Mean hourly earnings² and weekly hours by metropolitan and nonmetropolitan areas³ for selected occupations, National Compensation Survey,⁴ 1998—Continued

Occupation ⁵	Total			Metropolitan			Nonmetropolitan		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error ⁶ (percent)		Mean	Relative error ⁶ (percent)		Mean	Relative error ⁶ (percent)	
White collar —Continued									
Professional specialty and technical —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	—	—	—
Executive, administrative, and managerial	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	—	—	—
Sales	—	—	—	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	—	—	—
Administrative support, including clerical	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:¹ Mean hourly earnings² and weekly hours by metropolitan and nonmetropolitan areas³ for selected occupations, National Compensation Survey,⁴ 1998—Continued

Occupation ⁵	Total			Metropolitan			Nonmetropolitan		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error ⁶ (percent)		Mean	Relative error ⁶ (percent)		Mean	Relative error ⁶ (percent)	
White collar —Continued									
Administrative support, including clerical —Continued									
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	—	—	—
Blue collar	11.43	3.9	39.2	12.56	2.3	38.8	10.27	7.8	39.6
Precision production, craft, and repair									
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:¹ Mean hourly earnings² and weekly hours by metropolitan and nonmetropolitan areas³ for selected occupations, National Compensation Survey,⁴ 1998—Continued

Occupation ⁵	Total			Metropolitan			Nonmetropolitan		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error ⁶ (percent)		Mean	Relative error ⁶ (percent)		Mean	Relative error ⁶ (percent)	
Blue collar—Continued									
Precision production, craft, and repair—Continued									
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	—	—	—
Machine operators, assemblers, and inspectors	11.12	5.0	39.9	12.17	4.0	39.7	\$10.24	9.2	40.0
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	—	—	—
Transportation and material moving	12.68	6.1	39.9	12.24	1.7	40.7	13.56	16.4	38.3
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	—	—	—
Handlers, equipment cleaners, helpers, and laborers ...	8.55	1.5	37.5	9.13	1.2	35.5	8.09	2.8	39.2
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:¹ Mean hourly earnings² and weekly hours by metropolitan and nonmetropolitan areas³ for selected occupations, National Compensation Survey,⁴ 1998–Continued

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

¹ 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.

² 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.

³ 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.

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

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

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

Table 4-12. West South Central census division:¹ Mean hourly earnings² and weekly hours by metropolitan and nonmetropolitan areas³ for selected occupations, National Compensation Survey,⁴ 1998

Occupation ⁵	Total			Metropolitan			Nonmetropolitan		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error ⁶ (percent)		Mean	Relative error ⁶ (percent)		Mean	Relative error ⁶ (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
White collar	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
Professional specialty and technical	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:**¹ **Mean hourly earnings**² **and weekly hours by metropolitan and nonmetropolitan areas**³ **for selected occupations, National Compensation Survey,**⁴ **1998–Continued**

Occupation ⁵	Total			Metropolitan			Nonmetropolitan		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error ⁶ (percent)		Mean	Relative error ⁶ (percent)		Mean	Relative error ⁶ (percent)	
White collar –Continued									
Professional specialty and technical –Continued									
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	–	–	–
Executive, administrative, and managerial									
	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:¹ Mean hourly earnings² and weekly hours by metropolitan and nonmetropolitan areas³ for selected occupations, National Compensation Survey,⁴ 1998–Continued

Occupation ⁵	Total			Metropolitan			Nonmetropolitan		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error ⁶ (percent)		Mean	Relative error ⁶ (percent)		Mean	Relative error ⁶ (percent)	
White collar –Continued									
Executive, administrative, and managerial –Continued									
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	–	–	–
Sales	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	–	–	–
Administrative support, including clerical	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:¹ Mean hourly earnings² and weekly hours by metropolitan and nonmetropolitan areas³ for selected occupations, National Compensation Survey,⁴ 1998–Continued

Occupation ⁵	Total			Metropolitan			Nonmetropolitan		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error ⁶ (percent)		Mean	Relative error ⁶ (percent)		Mean	Relative error ⁶ (percent)	
White collar –Continued									
Administrative support, including clerical –Continued									
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
Blue collar	11.96	2.6	38.7	11.93	2.5	38.6	12.11	8.9	39.3
Precision production, craft, and repair									
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:¹ Mean hourly earnings² and weekly hours by metropolitan and nonmetropolitan areas³ for selected occupations, National Compensation Survey,⁴ 1998—Continued

Occupation ⁵	Total			Metropolitan			Nonmetropolitan		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error ⁶ (percent)		Mean	Relative error ⁶ (percent)		Mean	Relative error ⁶ (percent)	
Blue collar—Continued									
Precision production, craft, and repair—Continued									
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	—	—	—
Machine operators, assemblers, and inspectors	10.12	3.4	39.6	10.26	3.9	39.5	\$9.27	8.5	39.9
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	—	—	—
Transportation and material moving	12.57	2.8	39.6	12.88	3.0	39.7	9.97	1.1	38.7
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:¹ Mean hourly earnings² and weekly hours by metropolitan and nonmetropolitan areas³ for selected occupations, National Compensation Survey,⁴ 1998—Continued

Occupation ⁵	Total			Metropolitan			Nonmetropolitan		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error ⁶ (percent)		Mean	Relative error ⁶ (percent)		Mean	Relative error ⁶ (percent)	
Blue collar—Continued									
Handlers, equipment cleaners, helpers, and laborers ...	\$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	—	—	—
Service	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:¹ Mean hourly earnings² and weekly hours by metropolitan and nonmetropolitan areas³ for selected occupations, National Compensation Survey,⁴ 1998—Continued

Occupation ⁵	Total			Metropolitan			Nonmetropolitan		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error ⁶ (percent)		Mean	Relative error ⁶ (percent)		Mean	Relative error ⁶ (percent)	
Service —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	—	—	—

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

² 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.

³ 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.

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

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

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

NOTE: Dashes indicate that no data were reported or that data did not meet publication criteria, 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:¹ Mean hourly earnings² and weekly hours by metropolitan and nonmetropolitan areas³ for selected occupations, National Compensation Survey,⁴ 1998

Occupation ⁵	Total			Metropolitan			Nonmetropolitan		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error ⁶ (percent)		Mean	Relative error ⁶ (percent)		Mean	Relative error ⁶ (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
White collar	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
Professional specialty and technical	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:¹ Mean hourly earnings² and weekly hours by metropolitan and nonmetropolitan areas³ for selected occupations, National Compensation Survey,⁴ 1998—Continued

Occupation ⁵	Total			Metropolitan			Nonmetropolitan		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error ⁶ (percent)		Mean	Relative error ⁶ (percent)		Mean	Relative error ⁶ (percent)	
White collar —Continued									
Professional specialty and technical —Continued									
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	—	—	—
Executive, administrative, and managerial	24.18	3.3	41.1	24.86	3.9	41.3	21.79	4.6	40.5
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	—	—	—
Sales	12.35	6.2	33.8	13.25	6.5	34.0	7.78	10.2	32.7
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:¹ Mean hourly earnings² and weekly hours by metropolitan and nonmetropolitan areas³ for selected occupations, National Compensation Survey,⁴ 1998—Continued

Occupation ⁵	Total			Metropolitan			Nonmetropolitan		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error ⁶ (percent)		Mean	Relative error ⁶ (percent)		Mean	Relative error ⁶ (percent)	
White collar —Continued									
Administrative support, including clerical	\$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	—	—	—
Blue collar	12.90	3.3	38.2	12.92	2.9	38.2	12.80	12.4	38.4
Precision production, craft, and repair	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:¹ Mean hourly earnings² and weekly hours by metropolitan and nonmetropolitan areas³ for selected occupations, National Compensation Survey,⁴ 1998—Continued

Occupation ⁵	Total			Metropolitan			Nonmetropolitan		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error ⁶ (percent)		Mean	Relative error ⁶ (percent)		Mean	Relative error ⁶ (percent)	
Blue collar—Continued									
Precision production, craft, and repair—Continued									
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	—	—	—
Machine operators, assemblers, and inspectors	10.47	2.6	39.4	10.72	1.7	39.5	\$9.31	8.0	39.0
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	—	—	—
Transportation and material moving	13.92	7.3	37.3	13.90	7.6	37.4	13.97	18.2	37.0
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 scraper 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	—	—	—
Handlers, equipment cleaners, helpers, and laborers	9.08	1.6	35.9	9.15	1.8	35.7	8.76	.9	37.0
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:¹ Mean hourly earnings² and weekly hours by metropolitan and nonmetropolitan areas³ for selected occupations, National Compensation Survey,⁴ 1998—Continued

Occupation ⁵	Total			Metropolitan			Nonmetropolitan		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error ⁶ (percent)		Mean	Relative error ⁶ (percent)		Mean	Relative error ⁶ (percent)	
Blue collar—Continued									
Handlers, equipment cleaners, helpers, and laborers—Continued									
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
Service									
Protective service	13.52	1.8	33.5	8.70	2.4	33.5	8.32	1.8	33.4
Supervisors, firefighters and fire prevention	22.74	5.1	50.6	22.74	5.1	50.6	13.25	3.7	39.5
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	—	—	—

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

² 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.

³ 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.

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

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

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

NOTE: Dashes indicate that no data were reported or that data did not meet publication criteria, 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:¹ Mean hourly earnings² and weekly hours by metropolitan and nonmetropolitan areas³ for selected occupations, National Compensation Survey,⁴ 1998

Occupation ⁵	Total			Metropolitan			Nonmetropolitan		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error ⁶ (percent)		Mean	Relative error ⁶ (percent)		Mean	Relative error ⁶ (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
White collar	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
Professional specialty and technical	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:¹ Mean hourly earnings² and weekly hours by metropolitan and nonmetropolitan areas³ for selected occupations, National Compensation Survey,⁴ 1998—Continued

Occupation ⁵	Total			Metropolitan			Nonmetropolitan		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error ⁶ (percent)		Mean	Relative error ⁶ (percent)		Mean	Relative error ⁶ (percent)	
White collar —Continued									
Professional specialty and technical —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	—	—	—
Executive, administrative, and managerial	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:¹ Mean hourly earnings² and weekly hours by metropolitan and nonmetropolitan areas³ for selected occupations, National Compensation Survey,⁴ 1998—Continued

Occupation ⁵	Total			Metropolitan			Nonmetropolitan		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error ⁶ (percent)		Mean	Relative error ⁶ (percent)		Mean	Relative error ⁶ (percent)	
White collar —Continued									
Executive, administrative, and managerial —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	—	—	—
Sales									
	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	—	—	—
Administrative support, including clerical									
	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:¹ Mean hourly earnings² and weekly hours by metropolitan and nonmetropolitan areas³ for selected occupations, National Compensation Survey,⁴ 1998—Continued

Occupation ⁵	Total			Metropolitan			Nonmetropolitan		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error ⁶ (percent)		Mean	Relative error ⁶ (percent)		Mean	Relative error ⁶ (percent)	
White collar –Continued									
Administrative support, including clerical –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
Blue collar	13.78	1.9	38.3	13.87	1.9	38.4	12.70	7.8	37.7
Precision production, craft, and repair									
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:¹ Mean hourly earnings² and weekly hours by metropolitan and nonmetropolitan areas³ for selected occupations, National Compensation Survey,⁴ 1998—Continued

Occupation ⁵	Total			Metropolitan			Nonmetropolitan		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error ⁶ (percent)		Mean	Relative error ⁶ (percent)		Mean	Relative error ⁶ (percent)	
Blue collar—Continued									
Precision production, craft, and repair—Continued									
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	—	—	—
Machine operators, assemblers, and inspectors									
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:¹ Mean hourly earnings² and weekly hours by metropolitan and nonmetropolitan areas³ for selected occupations, National Compensation Survey,⁴ 1998—Continued

Occupation ⁵	Total			Metropolitan			Nonmetropolitan		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error ⁶ (percent)		Mean	Relative error ⁶ (percent)		Mean	Relative error ⁶ (percent)	
Blue collar—Continued									
Machine operators, assemblers, and inspectors—Continued									
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	—	—	—
Transportation and material moving	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	—	—	—
Handlers, equipment cleaners, helpers, and laborers ...	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	—	—	—
Service	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:¹ Mean hourly earnings² and weekly hours by metropolitan and nonmetropolitan areas³ for selected occupations, National Compensation Survey,⁴ 1998—Continued

Occupation ⁵	Total			Metropolitan			Nonmetropolitan		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error ⁶ (percent)		Mean	Relative error ⁶ (percent)		Mean	Relative error ⁶ (percent)	
Service—Continued									
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	—	—	—

¹ The Pacific census division consists of Washington, Oregon, California, Alaska, and Hawaii.

² 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.

³ 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.

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

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

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

NOTE: Dashes indicate that no data were reported or that data did not meet publication criteria, 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,¹ 1998

Industry division	Number of establishments represented ²	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
All	327,400	18,576	5,280	8,252	2,125	1,784	692	443
Private Industry	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
State and local government	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

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

² 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 workers¹ represented by the survey, by occupational group,² United States, National Compensation Survey,³ 1998**

Occupational group	All industries	Private industry	State and local government
All	63,368,100	48,783,200	14,584,900
All excluding sales	58,871,800	44,345,500	14,526,300
White collar	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
Blue collar	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
Service	12,154,200	8,939,100	3,215,100

¹ 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.

² A classification system including about 480 individual

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

³ 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.¹
- 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

¹ 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

Below 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
Total	5	1,020

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>NEW ENGLAND</p> <p>Connecticut Maine Massachusetts New Hampshire Rhode Island Vermont</p>	<p>MIDDLE ATLANTIC¹</p> <p>New Jersey New York Pennsylvania</p>	<p>EAST NORTH CENTRAL²</p> <p>Illinois Indiana Michigan Ohio Wisconsin</p>	<p>WEST NORTH CENTRAL³</p> <p>Iowa Kansas Minnesota Missouri Nebraska North Dakota South Dakota</p>
<p>SOUTH ATLANTIC</p> <p>Delaware District of Columbia Florida Georgia Maryland North Carolina South Carolina Virginia West Virginia</p>	<p>EAST SOUTH CENTRAL⁴</p> <p>Alabama Kentucky Mississippi Tennessee</p>	<p>WEST SOUTH CENTRAL</p> <p>Arkansas Louisiana Oklahoma Texas</p>	<p>MOUNTAIN</p> <p>Arizona Colorado Idaho Montana Nevada New Mexico Utah Wyoming</p>
<p>PACIFIC</p> <p>Alaska California Hawaii Oregon Washington</p>			

¹ 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).

² The East North Central census division also includes the Cincinnati, OH, Consolidated Metropolitan Statistical Area, which comprises parts of Ohio, Kentucky, and Indiana.

³ 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.

⁴ 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 coverage⁵**

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 coverage⁵**

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 coverage⁵**

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 coverage⁵**

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

⁵ 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>.