

# National Compensation Survey: Occupational Wages in the East North Central Census Division, 1998

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# Preface

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

The NCS replaced the Occupational Compensation Survey (OCS) with the release of the 1997 data. The major difference between these two surveys is that the OCS used the same preselected list of occupations for all localities. The NCS uses a probability-based sample of establishments and occupations that is intended to more fully represent the employment patterns and occupational mix of each locality.

This bulletin presents aggregate pay data from the metropolitan and nonmetropolitan local area surveys conducted in the East North Central census division. (See Technical Note). It provides estimates of occupational pay for the census division, as well as selected data on worker and establishment characteristics.

NCS bulletins are published for each of the nine census divisions: New England, Middle Atlantic, East North Cen-

tral, West North Central, South Atlantic, East South Central, West South Central, Mountain, and Pacific. (See Technical Note.) Data also are published for some individual localities, as well as for the entire United States. The census division publications may be useful to NCS data users in localities for which separate data were not published.

For additional information regarding the National Compensation Survey, contact the information staff in the BLS National Office at (202) 691-6199. You can also write to the Bureau of Labor Statistics, Division of Compensation Data Analysis and Planning, 2 Massachusetts Avenue, NE, Room 4175, Washington, DC 20212-0001, or send e-mail to [OCLTINFO@bls.gov](mailto:OCLTINFO@bls.gov).

The Bureau's 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 Bureau's regional offices, under the direction of the Assistant Regional Commissioners for Operations, collected the survey data. The Bureau thanks all survey respondents for their cooperation, without which this bulletin would not have been possible.

The data presented in this bulletin also are displayed in a Portable Document Format (PDF) on the BLS Internet site (<https://www.bls.gov/ocs/#data>). Material in the 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.

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# Occupational Wages in the East North Central Census Division, 1998

## Overview

This bulletin provides 1998 National Compensation Survey (NCS) estimates of occupational pay in the East North Central census division. The bulletin highlights average (mean) hourly pay for workers by seven characteristics:

- Private industry and State and local government
- Metropolitan and nonmetropolitan areas
- Selected occupations and major occupational groups
- Full-time and part-time status
- Bargaining status
- Size of establishment
- Work level

Wages in the East North Central census division averaged \$16.08 per hour during 1998. Workers in private industry in the East North Central region averaged \$15.44 per hour, while pay of workers in State and local government averaged \$19.32 per hour. The nationwide hourly average for all workers covered by the survey was \$15.72.

Table 1 provides an overview of average pay for workers in private industry and State and local government by selected worker and establishment characteristics. For example, white-collar workers in private industry averaged \$19.08 per hour; blue-collar workers averaged \$13.77; and service workers, \$7.87. Corresponding averages in State and local government were \$22.13, \$15.43, and \$14.08. Generally, average hourly earnings for private industry workers were lower than those for State and local government workers. Part of this difference can be explained by differences in the occupational and industrial mix of the two sectors. For example, professional specialty and technical occupations are proportionately more prevalent in State and local government than in private industry. With the exception of the construction industry, few State and local government workers are in goods-producing industries.

Full-time workers in the East North Central region averaged \$16.84 per hour while part-time workers averaged \$9.09. In private industry, full-time workers averaged \$16.22 an hour and part-time workers averaged \$8.71. For workers in State

and local government, average hourly pay was \$19.82 and \$12.16 respectively. Full-time or part-time designation is determined by the employer.

Workers in the largest establishments, those with 2,500 or more employees, earned \$21.01 per hour. Workers in the smallest establishments (50-99 employees) averaged \$13.36.

Table 2 provides an overview of average pay data by worker and establishment characteristics in metropolitan and nonmetropolitan areas. For example, white-collar workers in metropolitan areas averaged \$20.09 per hour, blue-collar workers averaged \$14.25, and service workers \$9.78. Corresponding averages in nonmetropolitan areas were \$17.14, \$12.35, and \$9.06. See the Technical Note for definitions of metropolitan and nonmetropolitan areas.

Among the nine census divisions, average earnings were generally highest in the New England, Middle Atlantic, and Pacific regions. Average earnings for all census divisions, and for other characteristics can be seen in tables 1 and 2.

Full-time, part-time, and combined average pay rates for occupations in private industry and in State and local governments are shown in tables 3, 4, and 5. These tables contain wage rates and mean weekly hours for individual occupations and for the major occupational groups. For example, all registered nurses averaged \$19.69 per hour (table 3). Registered nurses in private industry averaged \$19.58 (table 4), while their counterparts in State and local government averaged \$20.41 per hour (table 5). Laborers, except construction, averaged \$10.46 in private industry and \$11.97 in State and local government. Janitors and cleaners, a service occupation, averaged \$9.15 in private industry and \$11.35 in State and local government.

Earnings by occupational group and work level are shown in table 6. Earnings by occupational group and work level are shown in table 6. In determining the work level, the Bureau applies a "generic leveling" technique to all occupationally selected during the collection process, using 10 criteria to level occupations. Use of this technique tends to show higher pay at higher levels. For example, mean hourly earnings for white-collar workers ranged from \$6.93 at level 1 to \$70.39 at level 15. For blue-collar workers mean hourly earnings ranged from \$8.30 at level 1 to \$23.43 at level 9 (the highest for that occupational group). Mean hourly earnings for service workers ranged from \$6.74 at level 1 to \$24.98 at

level 10. The Technical Note has more information on generic leveling.

Table A in the Technical Note shows the number of establishments studied in the East North Central census division by employment size; more establishments were studied in the 100- to 499 worker group than in any other size cat-

egory. This table also shows the number of establishments represented. Table B in the Technical Note shows the number of workers represented by the surveys in the East North Central census division by major occupational groups, such as professional specialty and technical, sales, and transportation and material moving.

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

Worker and establishment characteristics, and geographic areas	Total			Private industry			State and local government		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error (percent)		Mean	Relative error (percent)		Mean	Relative error (percent)	
<b>Total</b> .....	\$16.08	0.8	36.2	\$15.44	0.9	36.3	\$19.32	1.5	35.7
<b>Worker characteristics:<sup>3</sup></b>									
White-collar occupations <sup>4</sup> .....	19.75	1.0	36.5	19.08	1.2	36.7	22.13	1.4	35.6
Professional specialty and technical ... Executive, administrative, and managerial .....	23.88	1.0	35.9	22.57	1.1	36.5	26.56	1.7	34.8
Sales .....	27.76	1.5	39.9	28.08	1.7	40.3	25.97	2.0	37.7
Administrative support .....	15.16	5.0	32.1	15.17	5.0	32.1	12.19	10.2	29.0
Blue-collar occupations <sup>4</sup> .....	12.02	.8	37.0	11.98	.9	37.1	12.18	1.5	36.3
Precision production, craft, and repair Machine operators, assemblers, and inspectors .....	13.86	.9	38.3	13.77	1.0	38.4	15.43	1.7	36.3
Transportation and material moving ... Handlers, equipment cleaners, helpers, and laborers .....	17.83	1.1	39.9	17.86	1.2	39.9	17.55	2.5	39.5
Service occupations <sup>4</sup> .....	12.81	1.5	39.8	12.81	1.5	39.8	12.61	11.1	39.8
Full time .....	14.42	1.4	36.5	14.42	1.7	37.5	14.40	2.6	31.7
Part time .....	10.65	1.4	34.6	10.49	1.4	34.4	13.07	4.0	37.7
Union .....	9.66	1.3	31.1	7.87	1.2	29.5	14.08	2.5	35.8
Nonunion .....	16.84	.9	39.6	16.22	1.0	39.8	19.82	1.5	38.4
Time .....	9.09	1.4	20.4	8.71	2.1	20.8	12.16	3.0	17.9
Incentive .....	17.38	1.0	37.4	15.91	1.3	37.7	20.17	1.5	36.8
	15.54	1.1	35.8	15.30	1.1	36.0	18.00	3.2	34.1
	15.95	.8	36.1	15.25	.9	36.2	19.32	1.5	35.7
	19.09	5.8	38.5	19.09	5.8	38.5	-	-	-
<b>Establishment characteristics:</b>									
Goods producing .....	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )	16.51	1.3	39.8	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )
Service producing .....	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )	14.58	1.4	34.0	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )
50-99 workers <sup>6</sup> .....	13.36	2.6	34.7	13.29	2.6	34.7	14.59	8.5	34.8
100-499 workers .....	14.34	1.2	36.2	13.73	1.4	36.4	19.08	2.7	34.6
500-999 workers .....	16.91	2.4	36.9	16.35	2.9	37.3	18.92	2.6	35.3
1000-2499 workers .....	17.69	2.9	36.0	17.17	3.4	36.4	20.05	3.2	34.3
2500 workers or more .....	21.01	.9	37.7	21.51	2.1	37.7	20.09	1.6	37.6
<b>Geographic areas:<sup>7</sup></b>									
Metropolitan .....	16.55	.8	36.2	15.92	1.0	36.3	19.98	1.1	35.6
Nonmetropolitan .....	13.55	1.3	36.5	12.66	.8	36.6	16.75	4.6	36.1
New England .....	17.38	1.4	35.1	16.50	1.7	35.0	21.35	1.3	35.5
Middle Atlantic .....	18.10	1.5	35.8	17.14	1.8	35.8	21.72	1.6	35.5
East North Central .....	16.08	.8	36.2	15.44	.9	36.3	19.32	1.5	35.7
West North Central .....	14.85	1.6	36.5	14.05	1.9	36.3	17.87	1.2	37.0
South Atlantic .....	14.40	1.0	37.1	13.82	1.1	36.9	16.22	1.4	38.0
East South Central .....	11.87	2.3	37.7	11.21	2.6	37.9	15.93	2.2	36.8
West South Central .....	14.62	1.8	37.2	14.27	2.3	36.9	15.63	1.2	38.0
Mountain .....	14.58	2.7	36.4	13.30	2.9	36.4	18.32	2.9	36.4
Pacific .....	17.86	1.3	36.2	16.82	1.7	36.4	21.26	1.0	35.5

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

<sup>2</sup> In this census division, collection was conducted between January 1998 and April 1999. The average reference period was September 1998.

<sup>3</sup> Employees are classified as working either a full-time or a part-time schedule based on the definition used by each establishment. Union workers are those whose wages are determined through collective bargaining. Wages of time workers are based solely on hourly rate or salary; incentive workers are those whose wages are at least partially based on productivity payments such as piece rates, commissions, and production bonuses.

<sup>4</sup> A classification system including about 480 individual occupations is used to cover all workers in the civilian economy. See Technical Note for more information.

<sup>5</sup> Classification of establishments into goods-producing and service-producing industries applies to private industry only.

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

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

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

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

Worker and establishment characteristics, and geographic areas	Total			Metropolitan areas			Nonmetropolitan areas		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error (percent)		Mean	Relative error (percent)		Mean	Relative error (percent)	
Total .....	\$16.08	0.8	36.2	\$16.55	0.8	36.2	\$13.55	1.3	36.5
Private Industry .....	15.44	.9	36.3	15.92	1.0	36.3	12.66	.8	36.6
State and local government .....	19.32	1.5	35.7	19.98	1.1	35.6	16.75	4.6	36.1
<b>Worker characteristics:<sup>4</sup></b>									
White-collar occupations <sup>5</sup> .....	19.75	1.0	36.5	20.09	1.0	36.6	17.14	3.3	35.7
Professional specialty and technical ...	23.88	1.0	35.9	23.98	.9	36.0	23.22	4.2	35.7
Executive, administrative, and managerial .....	27.76	1.5	39.9	28.33	1.6	40.0	21.44	5.6	38.7
Sales .....	15.16	5.0	32.1	15.81	5.1	32.7	8.95	6.0	27.3
Administrative support .....	12.02	.8	37.0	12.20	.8	36.9	10.84	2.4	37.4
Blue-collar occupations <sup>5</sup> .....	13.86	.9	38.3	14.25	1.0	38.2	12.35	1.2	38.9
Precision production, craft, and repair Machine operators, assemblers, and inspectors .....	17.83	1.1	39.9	18.53	1.3	39.8	14.34	2.7	40.0
Transportation and material moving ...	12.81	1.5	39.8	13.19	1.6	39.7	11.68	2.4	39.9
Handlers, equipment cleaners, helpers, and laborers .....	14.42	1.4	36.5	14.56	1.6	36.4	13.69	1.8	37.2
Service occupations <sup>5</sup> .....	10.65	1.4	34.6	10.51	1.5	34.4	11.31	3.4	35.5
.....	9.66	1.3	31.1	9.78	1.3	30.9	9.06	4.8	31.7
Full time .....	16.84	.9	39.6	17.38	.9	39.6	13.99	1.6	39.5
Part time .....	9.09	1.4	20.4	9.10	1.6	20.4	9.04	3.2	20.4
Union .....	17.38	1.0	37.4	17.66	1.0	37.2	16.09	3.1	38.3
Nonunion .....	15.54	1.1	35.8	16.11	1.1	35.8	12.32	2.3	35.7
Time .....	15.95	.8	36.1	16.41	.8	36.1	13.57	1.4	36.4
Incentive .....	19.09	5.8	38.5	19.57	6.0	38.5	-	-	-
<b>Establishment characteristics:</b>									
Goods producing <sup>6</sup> .....	16.51	1.3	39.8	17.41	1.4	39.8	13.27	1.5	40.0
Service producing <sup>6</sup> .....	14.58	1.4	34.0	14.89	1.4	34.2	11.50	2.3	31.4
50-99 workers <sup>7</sup> .....	13.36	2.6	34.7	13.78	2.8	34.6	11.39	5.3	35.4
100-499 workers .....	14.34	1.2	36.2	14.73	1.4	36.3	12.80	1.2	35.7
500-999 workers .....	16.91	2.4	36.9	17.17	2.1	36.7	15.73	7.9	37.7
1000-2499 workers .....	17.69	2.9	36.0	17.90	1.8	35.3	-	-	-
2500 workers or more .....	21.01	.9	37.7	21.01	.9	37.7	-	-	-
<b>Geographic areas:<sup>8</sup></b>									
New England .....	17.38	1.4	35.1	17.75	1.2	35.2	14.75	3.6	34.2
Middle Atlantic .....	18.10	1.5	35.8	18.39	1.6	35.7	13.58	1.6	36.2
East North Central .....	16.08	.8	36.2	16.55	.8	36.2	13.55	1.3	36.5
West North Central .....	14.85	1.6	36.5	15.83	2.4	36.5	12.10	2.3	36.4
South Atlantic .....	14.40	1.0	37.1	14.89	.7	37.0	12.00	4.4	37.7
East South Central .....	11.87	2.3	37.7	13.88	2.2	36.9	9.97	4.3	38.6
West South Central .....	14.62	1.8	37.2	14.86	2.1	37.2	13.08	5.6	37.1
Mountain .....	14.58	2.7	36.4	14.73	3.4	36.5	13.99	3.3	36.0
Pacific .....	17.86	1.3	36.2	18.04	1.3	36.2	14.96	2.8	35.6

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

<sup>2</sup> Metropolitan areas can be a Metropolitan Statistical Area or Consolidated Metropolitan Statistical Area 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 Technical Note.

<sup>3</sup> In this census division, collection was conducted between January 1998 and April 1999. The average reference period was September 1998.

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

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

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

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

<sup>7</sup> Establishments classified with 50-99 workers may contain establishments with fewer than 50 workers due to reduction in staff from the time of sampling to data collection.

<sup>8</sup> See Technical Note for a list of survey areas in each census area division and the States comprising the 9 census area divisions.

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

Table 3. Selected occupations, East North Central: Mean hourly earnings<sup>1</sup> and weekly hours for full-time and part-time workers,<sup>2</sup> National Compensation Survey,<sup>3</sup> 1998

Occupation <sup>4</sup>	Total			Full time			Part time		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)	
All .....	\$16.08	0.8	36.2	\$16.84	0.9	39.6	\$9.09	1.4	20.4
All excluding sales .....	16.13	.8	36.5	16.79	.8	39.5	9.44	1.6	20.5
<b>White collar</b> .....	19.75	1.0	36.5	20.50	1.0	39.4	11.94	2.7	20.7
White collar excluding sales .....	20.30	.9	37.1	20.73	.9	39.3	14.28	2.8	20.8
<b>Professional specialty and technical</b> .....	23.88	1.0	35.9	24.26	1.0	38.7	19.36	3.3	19.2
Professional specialty .....	25.56	1.0	35.7	25.95	1.0	38.5	20.89	3.4	18.9
Engineers, architects, and surveyors .....	28.25	1.2	40.3	28.26	1.2	40.3	-	-	-
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	-	-	-
Civil engineers .....	25.43	3.6	39.4	25.43	3.6	39.4	-	-	-
Electrical and electronic engineers .....	28.69	3.3	40.3	28.69	3.3	40.3	-	-	-
Industrial engineers .....	25.90	2.1	40.3	25.91	2.1	40.3	-	-	-
Mechanical engineers .....	25.92	2.3	40.3	25.92	2.3	40.3	-	-	-
Engineers, n.e.c. ....	29.58	1.8	40.3	29.58	1.8	40.3	-	-	-
Mathematical and computer scientists .....	27.37	2.3	39.8	27.36	2.3	39.9	-	-	-
Computer systems analysts and scientists .....	27.01	2.3	39.9	26.99	2.3	40.0	-	-	-
Operations and systems researchers and analysts .....	27.76	5.1	39.5	27.78	5.0	39.6	-	-	-
Actuaries .....	37.07	7.2	38.3	37.07	7.2	38.3	-	-	-
Natural scientists .....	23.28	5.8	39.1	23.15	5.9	40.0	-	-	-
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	24.24	7.8	40.0	-	-	-
Biological and life scientists .....	23.61	6.6	35.6	22.76	5.8	40.3	-	-	-
Medical scientists .....	14.67	14.3	39.1	14.67	14.3	39.1	-	-	-
Health related .....	22.24	1.4	33.2	22.31	1.8	39.5	21.97	3.9	21.0
Physicians .....	43.76	10.5	39.1	41.25	9.9	43.0	66.19	3.3	21.7
Registered nurses .....	19.69	1.2	32.5	19.68	1.6	39.1	19.72	1.6	21.5
Pharmacists .....	27.31	1.6	31.4	27.15	1.9	40.0	28.00	1.9	16.2
Dietitians .....	16.54	2.6	34.5	16.15	3.4	39.9	18.64	3.5	20.1
Respiratory therapists .....	16.66	1.7	33.5	16.53	2.1	39.4	17.06	3.2	22.6
Occupational therapists .....	25.30	5.5	31.6	26.06	5.2	39.6	21.30	7.6	15.4
Physical therapists .....	24.08	5.5	34.4	23.46	6.2	39.6	28.27	4.3	18.3
Speech therapists .....	25.96	7.0	32.8	27.08	8.3	38.4	21.96	2.6	21.6
Therapists, n.e.c. ....	16.28	5.6	36.9	16.44	6.0	38.7	13.47	3.3	20.1
Physicians' assistants .....	26.25	15.4	36.3	-	-	-	-	-	-
Teachers, college and university .....	35.35	4.1	34.6	36.02	4.2	39.5	27.89	14.2	14.5
Biological science teachers .....	33.69	8.2	38.0	33.74	8.2	38.6	-	-	-
Chemistry teachers .....	34.70	7.9	31.8	36.93	3.4	38.8	-	-	-
Psychology teachers .....	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	30.13	3.9	40.2	-	-	-
Engineering teachers .....	51.64	19.9	38.7	51.73	19.8	40.0	-	-	-
Mathematical science teachers .....	39.39	1.8	35.9	39.76	1.8	39.2	-	-	-
Medical science teachers .....	42.94	11.9	47.2	40.53	14.3	46.4	-	-	-
Health specialties teachers .....	35.56	8.7	40.4	35.66	8.8	41.9	23.25	15.8	7.7
Business, commerce, and marketing teachers ..	33.69	12.2	22.8	36.93	11.3	38.7	19.88	17.2	8.3
Art, drama, and music teachers .....	29.44	9.1	34.0	28.78	11.7	39.4	-	-	-
Physical education teachers .....	26.59	2.0	34.5	-	-	-	-	-	-
Education teachers .....	35.35	8.3	37.0	35.38	8.2	37.9	-	-	-
English teachers .....	32.93	9.3	38.3	33.16	9.2	39.4	-	-	-
Foreign language teachers .....	25.17	10.5	40.4	25.21	10.6	40.7	-	-	-
Theology teachers .....	27.58	12.8	39.9	27.59	12.8	40.3	-	-	-
Teachers, post secondary, subject not specified	26.79	14.8	16.8	31.54	14.9	36.0	18.50	13.7	8.7
Teachers, post secondary, n.e.c. ....	32.54	10.3	27.1	35.47	11.1	36.3	23.21	4.5	15.0
Teachers, except college and university .....	28.02	1.9	33.6	28.69	2.0	35.9	16.54	7.3	16.0
Prekindergarten and kindergarten .....	17.44	9.5	34.3	18.33	9.0	37.9	11.21	25.4	20.5
Elementary school teachers .....	29.64	2.6	35.0	29.73	2.6	35.5	25.76	14.7	21.3
Secondary school teachers .....	30.33	3.2	35.8	30.36	3.2	36.2	26.69	12.4	17.4
Teachers, special education .....	27.64	4.2	35.4	27.76	4.3	36.0	-	-	-
Teachers, n.e.c. ....	27.40	3.2	30.6	28.67	3.4	35.3	16.58	8.1	14.4
Substitute teachers .....	11.33	7.9	14.9	-	-	-	10.41	4.5	13.5
Vocational and educational counselors .....	22.33	6.4	36.4	22.58	6.8	38.2	19.01	2.7	22.3
Librarians, archivists, and curators .....	21.18	5.2	34.7	21.27	5.7	38.6	20.33	7.4	17.0

See footnotes at end of table.



Table 3. Selected occupations, East North Central: Mean hourly earnings<sup>1</sup> and weekly hours for full-time and part-time workers,<sup>2</sup> National Compensation Survey,<sup>3</sup> 1998—Continued

Occupation <sup>4</sup>	Total			Full time			Part time		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)	
<b>White collar</b> —Continued									
<b>Professional specialty and technical</b> —Continued									
Professional specialty—Continued									
Librarians, archivists, and curators—Continued									
Librarians .....	\$21.05	4.8	35.1	\$21.08	5.2	38.9	\$20.81	8.0	17.7
Archivists and curators .....	21.81	20.2	32.9	22.17	21.8	37.3	—	—	—
Social scientists and urban planners .....	21.47	8.2	35.8	21.41	8.4	39.4	23.48	11.8	8.7
Economists .....	22.55	6.9	40.0	22.55	6.9	40.0	—	—	—
Psychologists .....	23.61	10.7	35.6	23.56	11.4	38.6	—	—	—
Social scientists, n.e.c. ....	14.96	22.3	36.2	14.92	22.3	39.8	—	—	—
Urban planners .....	20.00	5.5	23.0	20.23	5.4	39.8	—	—	—
Social, recreation, and religious workers .....	15.75	3.0	37.6	15.81	3.0	38.9	13.97	15.4	19.5
Social workers .....	15.97	3.1	38.0	15.96	3.2	38.8	16.22	15.2	20.7
Recreation workers .....	11.56	12.6	31.5	12.27	11.8	38.7	8.05	22.0	16.5
Clergy .....	17.46	13.3	37.8	18.13	12.7	39.7	—	—	—
Religious workers, n.e.c. ....	11.95	31.7	37.2	—	—	—	—	—	—
Lawyers and judges .....	35.26	8.2	38.4	35.61	8.4	40.3	—	—	—
Lawyers .....	35.60	8.6	39.3	35.95	8.7	40.4	—	—	—
Judges .....	28.70	13.7	26.6	—	—	—	—	—	—
Writers, authors, entertainers, athletes, and professionals, n.e.c. ....	22.24	3.9	36.9	22.44	3.8	39.4	17.85	15.3	15.6
Technical writers .....	19.09	5.5	38.7	19.42	5.2	39.8	—	—	—
Designers .....	24.11	8.0	39.5	24.22	8.0	39.8	—	—	—
Actors and directors .....	22.39	19.8	39.3	23.23	19.6	40.0	—	—	—
Painters, sculptors, craft artists, and artist printmakers .....	15.09	5.5	38.8	15.35	5.4	39.5	—	—	—
Photographers .....	19.96	8.3	36.2	18.52	3.6	39.8	—	—	—
Artists, performers, and related workers, n.e.c. ....	12.71	5.3	27.0	—	—	—	—	—	—
Editors and reporters .....	20.47	12.3	38.4	20.52	12.1	39.2	—	—	—
Public relations specialists .....	22.23	10.2	32.6	21.84	10.8	40.0	—	—	—
Athletes .....	26.32	16.6	32.7	27.39	15.0	39.8	9.54	12.6	8.6
Professional, n.e.c. ....	22.81	6.0	38.5	22.94	6.2	39.8	—	—	—
Technical .....	18.17	2.0	36.7	18.51	2.1	39.3	14.23	3.4	20.4
Clinical laboratory technologists and technicians .....	14.65	5.4	35.4	14.54	5.7	39.7	15.47	6.5	19.2
Health record technologists and technicians .....	12.71	5.9	34.4	12.51	6.7	38.9	—	—	—
Radiological technicians .....	16.49	2.7	32.7	16.54	3.1	39.7	16.35	4.4	21.4
Licensed practical nurses .....	12.86	2.4	33.7	12.67	2.7	39.4	13.74	1.9	19.8
Health technologists and technicians, n.e.c. ....	12.97	3.1	34.2	13.37	3.3	39.8	10.93	6.2	19.8
Electrical and electronic technicians .....	19.70	2.2	39.6	19.77	2.3	40.0	—	—	—
Industrial engineering technicians .....	17.12	4.1	40.6	17.12	4.1	40.6	—	—	—
Mechanical engineering technicians .....	20.34	4.4	40.2	20.34	4.4	40.4	—	—	—
Engineering technicians, n.e.c. ....	20.70	4.0	39.8	20.74	3.9	39.9	—	—	—
Drafters .....	18.10	5.1	38.6	18.68	4.3	40.0	—	—	—
Surveying and mapping technicians .....	14.51	12.3	39.0	14.51	12.3	39.0	—	—	—
Biological technicians .....	16.32	17.1	39.9	16.32	17.1	39.9	—	—	—
Chemical technicians .....	16.37	4.6	39.0	16.43	4.6	39.8	—	—	—
Science technicians, n.e.c. ....	17.43	5.4	34.6	16.35	4.7	40.0	—	—	—
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	11.51	12.0	39.8	—	—	—
Computer programmers .....	22.00	2.2	39.4	21.89	2.2	39.6	—	—	—
Legal assistants .....	18.62	4.2	38.4	18.67	4.2	38.8	—	—	—
Technical and related, n.e.c. ....	20.25	2.2	39.0	20.33	2.3	39.4	16.53	14.1	25.2
<b>Executive, administrative, and managerial</b> .....	27.76	1.5	39.9	27.80	1.5	40.3	20.52	7.5	16.2
Executives, administrators, and managers .....	31.54	2.0	40.1	31.60	2.0	40.7	21.67	11.9	12.7
Legislators .....	18.16	24.0	4.9	—	—	—	17.57	26.5	4.4
Administrators and officials, public administration .....	26.87	3.9	39.2	26.87	3.9	39.4	—	—	—
Financial managers .....	29.87	3.4	40.2	29.96	3.4	40.3	—	—	—
Personnel and labor relations managers .....	34.07	4.3	42.3	34.07	4.3	42.3	—	—	—
Purchasing managers .....	29.41	7.7	40.6	29.41	7.7	40.6	—	—	—

See footnotes at end of table.

Table 3. Selected occupations, East North Central: Mean hourly earnings<sup>1</sup> and weekly hours for full-time and part-time workers,<sup>2</sup> National Compensation Survey,<sup>3</sup> 1998—Continued

Occupation <sup>4</sup>	Total			Full time			Part time		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)	
<b>White collar</b> —Continued									
<b>Executive, administrative, and managerial</b> —Continued									
Executives, administrators, and managers—Continued									
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	32.38	3.1	40.1	\$31.45	19.9	21.9
Managers, medicine and health .....	28.30	3.0	40.1	28.27	3.0	40.4	—	—	—
Managers, food servicing and lodging establishments .....	16.54	6.9	43.6	16.56	7.1	44.7	—	—	—
Managers, properties and real estate .....	18.79	12.2	39.6	18.92	12.3	40.0	—	—	—
Managers, service organizations, n.e.c. ....	22.97	9.1	38.1	23.20	9.2	39.7	—	—	—
Managers and administrators, n.e.c. ....	34.37	3.4	40.7	34.37	3.4	40.8	—	—	—
Management related .....	23.04	1.2	39.6	23.06	1.2	39.8	19.15	6.0	24.3
Accountants and auditors .....	18.99	6.4	39.9	18.99	6.4	39.9	—	—	—
Underwriters .....	28.50	7.3	38.8	28.50	7.3	38.8	—	—	—
Other financial officers .....	24.65	5.0	39.9	24.65	5.0	39.9	—	—	—
Management analysts .....	22.16	6.6	39.4	22.08	6.6	39.6	—	—	—
Personnel, training, and labor relations specialists .....	22.90	2.8	39.1	23.03	2.8	39.7	16.99	3.0	22.5
Buyers, wholesale and retail trade, except farm products .....	19.73	7.4	41.1	19.74	7.5	41.7	—	—	—
Purchasing agents and buyers, n.e.c. ....	26.41	2.5	39.9	26.54	2.4	39.9	—	—	—
Construction inspectors .....	20.01	7.8	39.2	20.02	7.9	39.5	—	—	—
Inspectors and compliance officers, except construction .....	18.95	4.5	39.6	18.95	4.5	39.6	—	—	—
Management related, n.e.c. ....	25.20	2.5	39.5	25.24	2.6	39.7	20.16	11.6	27.9
<b>Sales</b> .....	15.16	5.0	32.1	18.01	5.4	40.1	6.82	1.3	20.3
Supervisors, sales .....	22.46	16.5	39.7	22.69	16.5	40.4	—	—	—
Insurance sales .....	16.19	18.3	31.8	17.69	15.9	37.9	—	—	—
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	16.75	12.0	40.2	—	—	—
Sales, other business services .....	22.94	9.8	39.8	23.02	9.8	39.9	—	—	—
Sales engineers .....	29.28	7.8	41.9	29.28	7.8	41.9	—	—	—
Sales representatives, mining, manufacturing, and wholesale .....	27.38	8.0	40.5	27.38	8.0	40.6	—	—	—
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	7.49	6.6	37.9	6.30	3.4	20.5
Sales workers, furniture and home furnishings ..	11.40	18.4	29.9	15.31	16.6	40.7	8.02	8.1	24.3
Sales workers, radio, tv, hi-fi, and appliances ...	12.78	12.5	34.0	14.89	12.4	39.7	—	—	—
Sales workers, hardware and building supplies ..	9.96	8.4	35.5	10.52	8.7	39.4	6.73	5.1	22.6
Sales workers, parts .....	14.28	6.0	39.8	14.48	6.0	40.5	—	—	—
Sales workers, other commodities .....	9.40	5.2	28.7	11.12	7.2	39.4	7.13	1.9	21.1
Sales counter clerks .....	8.30	8.4	27.5	9.95	7.4	39.9	6.23	3.9	19.7
Cashiers .....	7.19	1.2	25.5	7.88	1.7	38.9	6.63	1.6	19.9
Demonstrators, promoters, and models, sales ..	9.99	9.3	28.8	11.69	10.9	40.0	—	—	—
Sales support, n.e.c. ....	12.69	4.6	38.3	13.09	4.6	40.0	7.05	5.0	23.9
<b>Administrative support, including clerical</b> .....	12.02	.8	37.0	12.31	.9	39.3	9.12	2.1	22.9
Supervisors, general office .....	16.42	2.5	39.6	16.43	2.5	39.7	—	—	—
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	17.17	4.4	39.7	—	—	—
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	16.90	6.0	40.3	—	—	—
Computer operators .....	15.06	3.5	39.4	15.09	3.5	39.5	—	—	—
Secretaries .....	13.12	1.4	38.0	13.25	1.4	39.2	10.82	4.7	23.9
Stenographers .....	12.71	3.7	35.3	13.06	3.9	38.8	10.86	3.3	24.2
Typists .....	11.13	3.3	37.5	11.35	3.5	39.1	9.21	3.7	27.7
Interviewers .....	9.63	2.1	32.6	10.44	1.5	39.7	7.97	5.9	23.9
Hotel clerks .....	8.06	3.9	32.9	8.37	3.3	39.8	—	—	—

See footnotes at end of table.

Table 3. Selected occupations, East North Central: Mean hourly earnings<sup>1</sup> and weekly hours for full-time and part-time workers,<sup>2</sup> National Compensation Survey,<sup>3</sup> 1998—Continued

Occupation <sup>4</sup>	Total			Full time			Part time		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)	
<b>White collar</b> —Continued									
<b>Administrative support, including clerical</b> —Continued									
Transportation ticket and reservation agents .....	\$14.17	7.6	34.2	\$14.78	7.9	40.0	\$11.60	8.0	21.2
Receptionists .....	9.46	2.2	35.4	9.58	2.5	39.7	8.69	5.2	20.9
Information clerks, n.e.c. ....	12.44	3.9	37.7	12.63	3.8	39.4	9.00	6.6	21.2
Correspondence clerks .....	12.70	9.3	39.1	12.71	9.4	39.7	—	—	—
Order clerks .....	12.20	2.9	38.2	12.36	3.0	39.8	9.71	2.0	24.1
Personnel clerks, except payroll and timekeeping .....	13.49	4.5	38.8	13.54	4.6	39.5	—	—	—
Library clerks .....	10.04	4.9	28.0	10.67	7.3	38.0	8.34	5.6	16.3
File clerks .....	9.02	2.9	33.8	9.19	3.3	38.8	8.18	5.0	20.9
Records clerks, n.e.c. ....	11.44	3.6	37.4	11.54	3.7	39.1	9.68	3.8	20.8
Bookkeepers, accounting and auditing clerks ...	11.49	2.2	37.7	11.75	1.7	39.2	8.42	9.5	26.2
Payroll and timekeeping clerks .....	13.33	3.5	37.9	13.46	3.6	39.8	10.85	16.3	19.5
Billing clerks .....	11.12	2.4	37.8	11.32	2.4	39.5	9.29	3.0	26.8
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	9.88	11.8	39.6	—	—	—
Duplicating machine operators .....	10.64	5.0	36.8	10.77	5.1	38.9	—	—	—
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	9.26	5.2	39.1	—	—	—
Telephone operators .....	11.23	4.6	34.4	11.62	7.0	38.9	8.50	3.5	18.9
Mail clerks, except postal service .....	9.02	4.7	34.8	9.57	4.7	38.8	7.09	2.4	25.6
Messengers .....	9.24	7.0	38.1	9.64	7.1	39.9	—	—	—
Dispatchers .....	11.63	5.6	38.4	11.82	5.9	40.4	8.78	11.3	22.4
Production coordinators .....	15.28	2.7	40.2	15.28	2.7	40.2	—	—	—
Traffic, shipping and receiving clerks .....	11.47	6.8	39.3	11.50	6.9	40.0	—	—	—
Stock and inventory clerks .....	11.20	5.1	33.6	12.10	2.7	39.9	7.02	2.0	19.3
Meter readers .....	14.24	5.3	38.6	14.38	5.1	40.0	—	—	—
Weighers, measurers, checkers, and samplers .....	17.49	4.9	39.8	17.54	4.9	40.0	—	—	—
Expeditors .....	13.00	2.8	38.2	13.35	6.0	40.0	—	—	—
Material recording, scheduling, and distribution clerks, n.e.c. ....	14.96	7.6	39.7	15.06	7.4	40.1	—	—	—
Insurance adjusters, examiners, and investigators .....	13.99	7.0	38.8	14.01	7.0	38.9	—	—	—
Investigators and adjusters, except insurance ...	12.46	4.5	38.0	12.56	4.6	39.6	10.66	5.0	22.5
Eligibility clerks, social welfare .....	13.17	3.9	37.4	13.51	3.9	39.9	—	—	—
Bill and account collectors .....	11.17	2.6	38.1	11.29	2.5	40.0	9.19	8.2	21.1
General office clerks .....	11.00	1.6	36.7	11.28	1.6	39.4	8.73	3.5	23.5
Bank tellers .....	8.41	1.9	33.2	8.65	2.3	39.6	7.61	1.2	21.6
Data entry keyers .....	9.50	4.1	37.6	9.63	4.5	39.5	7.66	4.0	22.4
Statistical clerks .....	11.45	4.3	37.0	11.51	4.5	39.2	—	—	—
Teachers' aides .....	9.56	3.2	31.4	9.77	4.0	34.8	8.83	4.1	23.4
Administrative support, n.e.c. ....	12.68	3.3	36.4	12.93	3.6	39.2	10.57	3.6	22.2
<b>Blue collar</b> .....	13.86	.9	38.3	14.17	.9	40.0	8.05	2.6	21.4
<b>Precision production, craft, and repair</b> .....	17.83	1.1	39.9	17.86	1.1	40.0	9.47	9.5	19.9
Supervisors, mechanics and repairers .....	22.56	3.8	40.8	22.56	3.8	40.8	—	—	—
Automobile mechanics .....	17.95	7.6	40.9	17.95	7.6	40.9	—	—	—
Bus, truck, and stationary engine mechanics ....	16.55	4.1	40.1	16.55	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	16.75	6.9	40.0	—	—	—
Industrial machinery repairers .....	17.56	2.9	40.0	17.57	2.9	40.0	—	—	—
Machinery maintenance .....	14.15	2.3	39.7	14.16	2.3	39.8	—	—	—
Electronic repairers, communications and industrial equipment .....	14.26	4.7	40.0	14.26	4.7	40.0	—	—	—
Data processing equipment repairers .....	16.30	5.5	39.3	16.45	5.1	39.8	—	—	—
Telephone line installers and repairers .....	21.42	9.5	40.0	21.42	9.5	40.0	—	—	—

See footnotes at end of table.

Table 3. Selected occupations, East North Central: Mean hourly earnings<sup>1</sup> and weekly hours for full-time and part-time workers,<sup>2</sup> National Compensation Survey,<sup>3</sup> 1998—Continued

Occupation <sup>4</sup>	Total			Full time			Part time		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)	
<b>Blue collar—Continued</b>									
<b>Precision production, craft, and repair—Continued</b>									
Telephone installers and repairers .....	\$15.90	4.3	39.7	\$15.90	4.3	39.7	—	—	—
Heating, air conditioning, and refrigeration mechanics .....	15.90	5.0	39.1	15.88	5.1	40.0	—	—	—
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	17.97	8.8	40.0	—	—	—
Millwrights .....	19.00	7.6	40.2	19.00	7.6	40.2	—	—	—
Mechanics and repairers, n.e.c. ....	16.94	2.6	39.9	16.99	2.6	40.0	—	—	—
Supervisors, carpenters and related workers ....	23.03	7.3	40.0	23.03	7.3	40.0	—	—	—
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	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	19.90	3.9	40.0	—	—	—
Drywall installers .....	17.58	8.9	40.0	17.58	8.9	40.0	—	—	—
Electricians .....	20.57	2.9	40.1	20.57	2.9	40.1	—	—	—
Electrician apprentices .....	14.20	10.3	40.0	14.20	10.3	40.0	—	—	—
Electrical power installers and repairers .....	22.38	4.8	40.0	22.38	4.8	40.0	—	—	—
Painters, construction and maintenance .....	20.18	4.5	40.0	20.18	4.5	40.0	—	—	—
Plumbers, pipefitters and steamfitters .....	21.98	2.6	39.9	21.98	2.6	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	19.43	3.1	39.2	—	—	—
Supervisors, production .....	18.56	7.7	40.6	18.56	7.7	40.6	—	—	—
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	13.28	8.9	39.5	—	—	—
Electrical and electronic equipment assemblers	9.17	14.5	39.8	9.19	14.8	40.0	—	—	—
Miscellaneous precision workers, n.e.c. ....	16.12	4.1	40.0	16.12	4.1	40.0	—	—	—
Butchers and meat cutters .....	10.33	12.4	39.4	10.34	12.5	40.0	—	—	—
Bakers .....	8.67	8.1	33.2	8.99	9.1	39.7	—	—	—
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	16.13	3.9	40.0	—	—	—
Power plant operators .....	21.67	4.6	40.0	21.67	4.6	40.0	—	—	—
Stationary engineers .....	21.86	4.4	39.6	21.87	4.4	39.7	—	—	—
Miscellaneous plant and system operators, n.e.c. ....	17.67	5.8	40.0	17.67	5.8	40.0	—	—	—
<b>Machine operators, assemblers, and inspectors .....</b>	<b>12.81</b>	<b>1.5</b>	<b>39.8</b>	<b>12.88</b>	<b>1.5</b>	<b>40.0</b>	<b>\$7.28</b>	<b>3.2</b>	<b>27.2</b>
Lathe and turning machine set-up operators .....	14.50	2.6	40.0	14.50	2.6	40.0	—	—	—
Lathe and turning machine operators .....	12.74	9.5	40.0	12.74	9.5	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	13.60	3.4	40.0	—	—	—
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	10.21	16.7	40.0	—	—	—
Grinding, abrading, buffing, and polishing machine operators .....	12.44	3.9	39.6	12.50	3.9	39.9	—	—	—

See footnotes at end of table.

Table 3. Selected occupations, East North Central: Mean hourly earnings<sup>1</sup> and weekly hours for full-time and part-time workers,<sup>2</sup> National Compensation Survey,<sup>3</sup> 1998—Continued

Occupation <sup>4</sup>	Total			Full time			Part time		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)	
<b>Blue collar—Continued</b>									
<b>Machine operators, assemblers, and inspectors—Continued</b>									
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	13.15	2.5	40.0	—	—	—
Fabricating machine operators, n.e.c. ....	15.06	3.1	40.1	15.06	3.1	40.1	—	—	—
Molding and casting machine operators .....	10.74	3.2	39.9	10.78	3.2	40.0	—	—	—
Metal plating machine operators .....	11.86	7.2	41.3	11.86	7.2	41.3	—	—	—
Wood lathe, routing, and planing machine operators .....	12.99	16.7	38.7	13.35	17.7	38.7	—	—	—
Sawing machine operators .....	10.56	4.5	38.4	10.65	4.8	40.0	—	—	—
Shaping and jointing machine operators .....	11.34	7.9	40.0	11.34	7.9	40.0	—	—	—
Printing press operators .....	13.82	6.3	39.6	13.84	6.3	39.7	—	—	—
Photoengravers and lithographers .....	16.68	5.0	38.6	16.81	5.0	39.1	—	—	—
Typesetters and compositors .....	13.08	5.6	39.9	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	10.94	13.8	40.0	—	—	—
Laundering and dry cleaning machine operators .....	7.21	3.8	37.9	7.23	4.2	39.8	\$7.09	5.7	27.1
Packaging and filling machine operators .....	12.79	3.7	39.6	12.86	3.7	40.2	—	—	—
Extruding and forming machine operators .....	11.49	3.0	40.0	11.49	3.0	40.0	—	—	—
Mixing and blending machine operators .....	14.66	4.5	39.9	14.66	4.5	40.0	—	—	—
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	12.31	4.9	40.4	—	—	—
Roasting and baking machine operators, food ..	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	13.58	4.7	40.0	—	—	—
Photographic process machine operators .....	11.19	6.1	38.4	11.49	5.0	40.0	—	—	—
Miscellaneous machine operators, n.e.c. ....	11.97	5.3	39.8	12.00	5.3	39.9	7.78	5.2	30.3
Welders and cutters .....	14.86	3.4	39.9	14.89	3.4	40.0	—	—	—
Solders and braziers .....	11.48	11.7	39.8	11.48	11.7	39.8	—	—	—
Assemblers .....	13.31	3.7	39.6	13.44	3.7	39.9	6.83	4.1	28.7
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	13.34	11.8	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	11.44	5.6	40.0	—	—	—
Production inspectors, checkers and examiners ..	11.45	6.0	40.0	11.45	6.0	40.0	—	—	—
Production testers .....	13.44	6.8	38.5	13.61	7.0	40.0	—	—	—
Graders and sorters, except agricultural .....	9.12	2.4	40.0	9.12	2.4	40.0	—	—	—
<b>Transportation and material moving .....</b>	14.42	1.4	36.5	14.92	1.4	40.3	10.38	4.1	20.9
Supervisors, motor vehicle operators .....	17.24	7.5	40.9	17.24	7.5	40.9	—	—	—
Truck drivers .....	15.51	2.2	40.2	15.62	2.3	41.6	11.30	5.7	18.5
Driver-sales workers .....	14.64	11.1	34.5	16.09	10.2	40.0	—	—	—
Bus drivers .....	12.66	3.0	26.9	13.70	3.0	35.9	11.76	4.7	22.0
Taxicab drivers and chauffeurs .....	8.70	14.3	28.0	—	—	—	6.10	3.2	22.9
Parking lot attendants .....	7.46	5.2	22.1	—	—	—	5.99	8.9	14.2
Motor transportation, n.e.c. ....	8.10	10.1	25.1	10.40	10.9	39.1	6.01	2.0	18.9
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	20.84	4.8	40.0	—	—	—
Crane and tower operators .....	14.45	5.0	40.3	14.45	5.0	40.3	—	—	—
Excavating and loading machine operators .....	16.56	5.9	40.0	16.56	5.9	40.0	—	—	—
Grader, dozer, and scraper operators .....	16.75	20.0	40.5	16.75	20.0	40.5	—	—	—
Industrial truck and tractor equipment operators ..	13.07	2.1	39.8	13.09	2.1	39.9	—	—	—

See footnotes at end of table.

Table 3. Selected occupations, East North Central: Mean hourly earnings<sup>1</sup> and weekly hours for full-time and part-time workers,<sup>2</sup> National Compensation Survey,<sup>3</sup> 1998—Continued

Occupation <sup>4</sup>	Total			Full time			Part time		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)	
<b>Blue collar—Continued</b>									
<b>Transportation and material moving—Continued</b>									
Miscellaneous material moving equipment operators, n.e.c. ....	\$14.56	4.1	36.8	\$15.00	4.8	40.1	—	—	—
<b>Handlers, equipment cleaners, helpers, and laborers</b>									
Supervisors, agriculture-related workers .....	10.65	1.4	34.6	11.34	1.3	39.8	\$7.21	2.4	20.9
Groundskeepers and gardeners, except farm ...	17.13	6.0	40.0	17.13	6.0	40.0	—	—	—
Animal caretakers, except farm .....	11.26	4.9	34.5	12.26	4.8	39.6	6.74	3.3	21.9
Supervisors, handlers, equipment cleaners, and laborers, n.e.c. ....	13.48	5.1	38.2	13.61	4.4	38.6	—	—	—
Helpers, mechanics and repairers .....	14.84	5.8	39.5	14.92	5.9	40.0	—	—	—
Helpers, construction trades .....	14.17	5.2	39.6	14.27	5.2	40.3	—	—	—
Construction laborers .....	15.72	11.8	40.0	15.74	11.8	40.0	—	—	—
Production helpers .....	16.13	2.8	39.4	16.14	2.8	39.7	—	—	—
Stock handlers and baggers .....	10.27	4.7	38.6	10.38	4.9	39.9	—	—	—
Machine feeders and offbearers .....	9.21	1.8	29.4	10.60	1.7	39.5	6.69	1.2	20.1
Freight, stock, and material handlers, n.e.c. ....	9.65	4.1	39.7	9.72	4.2	39.9	—	—	—
Garage and service station related .....	12.09	3.2	32.4	12.70	3.3	39.4	10.05	4.5	20.2
Vehicle washers and equipment cleaners .....	8.49	6.3	34.1	9.14	5.4	39.9	—	—	—
Hand packers and packagers .....	10.02	6.4	37.2	10.14	6.8	39.6	8.53	9.9	20.7
Laborers, except construction, n.e.c. ....	9.01	4.0	38.8	9.10	4.2	40.1	7.08	4.6	22.9
	10.65	3.6	36.5	11.31	2.3	40.0	6.40	7.7	23.5
<b>Service</b>									
Protective service .....	9.66	1.3	31.1	10.80	1.5	39.0	6.46	1.2	19.8
Supervisors, firefighters and fire prevention .....	15.24	2.7	36.7	15.93	2.6	41.2	8.35	2.8	17.6
Supervisors, police and detectives .....	17.86	5.0	50.0	17.86	5.0	50.2	—	—	—
Supervisors, guards .....	24.61	7.7	40.1	24.61	7.7	40.1	—	—	—
Fire inspection and fire prevention .....	13.83	15.7	37.6	13.94	15.9	38.6	—	—	—
Firefighting .....	20.72	6.2	36.7	—	—	—	—	—	—
Police and detectives, public service .....	16.88	4.6	44.5	17.09	4.4	50.0	9.99	7.2	9.7
Sheriffs, bailiffs, and other law enforcement officers .....	19.93	2.1	38.7	20.02	2.1	39.9	12.43	11.5	11.1
Correctional institution officers .....	15.10	4.2	39.7	15.12	4.2	39.9	—	—	—
Crossing guards .....	14.50	4.3	38.5	14.62	4.2	39.3	—	—	—
Guards and police, except public service .....	7.19	9.6	13.5	—	—	—	7.19	9.6	13.5
Protective service, n.e.c. ....	8.89	4.3	32.0	9.00	5.1	39.5	8.50	3.5	19.1
Food service .....	10.56	12.8	27.5	13.16	12.9	39.3	6.92	4.1	19.3
Supervisors, food preparation and service .....	6.81	2.7	27.5	7.87	3.2	38.1	5.46	1.7	20.3
Bartenders .....	11.20	3.2	37.2	11.48	3.3	39.5	8.64	5.8	24.0
Waiters and waitresses .....	6.66	7.2	26.3	7.51	11.4	37.4	5.98	4.8	21.3
Cooks .....	3.50	5.4	25.2	3.65	10.5	36.9	3.39	5.0	20.7
Food counter, fountain, and related .....	8.66	2.7	32.1	9.12	2.6	37.9	6.98	3.0	20.5
Kitchen workers, food preparation .....	5.94	4.4	22.5	5.92	11.8	36.1	5.95	2.7	19.1
Waiters/Waitresses' assistants .....	7.28	3.2	28.8	7.91	3.3	38.6	6.43	1.9	21.3
Food preparation, n.e.c. ....	4.86	4.4	20.8	5.44	9.2	36.9	4.65	4.5	18.0
Health service .....	6.98	2.7	27.3	7.58	3.6	38.8	6.28	1.5	20.3
Health aides, except nursing .....	8.81	1.8	33.4	8.90	2.1	38.4	8.38	1.6	20.4
Nursing aides, orderlies and attendants .....	9.70	2.9	33.5	9.83	3.2	37.5	8.69	5.6	18.5
Cleaning and building service .....	8.47	1.9	33.4	8.51	2.3	38.8	8.31	1.4	20.9
Supervisors, cleaning and building service workers .....	9.70	1.8	33.8	10.33	1.7	39.4	6.89	3.0	20.8
Maids and housemen .....	12.91	5.4	39.6	13.06	5.3	40.2	—	—	—
Janitors and cleaners .....	6.90	2.2	31.3	6.90	2.7	38.0	6.88	3.6	21.7
	9.93	1.7	33.9	10.59	1.6	39.6	6.89	3.4	20.6

See footnotes at end of table.

Table 3. Selected occupations, East North Central: Mean hourly earnings<sup>1</sup> and weekly hours for full-time and part-time workers,<sup>2</sup> National Compensation Survey,<sup>3</sup> 1998—Continued

Occupation <sup>4</sup>	Total			Full time			Part time		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)	
<b>Service —Continued</b>									
Personal service .....	\$9.22	3.6	26.9	\$10.31	5.2	36.5	\$7.20	2.4	18.1
Supervisors, personal service .....	15.20	21.4	39.0	15.86	22.0	39.4	—	—	—
Attendants, amusement, and recreation facilities .....	6.43	2.3	23.2	—	—	—	6.57	2.8	20.8
Guides .....	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	33.54	6.8	18.6	—	—	—
Baggage porters and bellhops .....	9.90	18.3	34.7	10.08	22.1	40.0	—	—	—
Welfare service aides .....	7.36	4.8	29.1	7.64	6.0	39.0	6.79	7.5	19.2
Early childhood teachers' assistants .....	7.61	2.8	27.4	7.76	4.4	37.2	7.34	6.6	18.6
Child care workers, n.e.c. ....	8.81	4.6	24.7	9.84	6.9	39.0	7.18	2.9	15.5
Service, n.e.c. ....	9.03	5.3	28.6	9.83	6.5	38.6	7.15	4.4	17.8

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

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

<sup>3</sup> In this census division, collection was conducted between January 1998 and April

1999. The average reference period was September 1998.

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

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

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. Selected occupations, East North Central, private industry: Mean hourly earnings<sup>1</sup> for full-time and part-time workers,<sup>2</sup> National Compensation Survey,<sup>3</sup> 1998

Occupation <sup>4</sup>	Total			Full time			Part time		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)	
All .....	\$15.44	0.9	36.3	\$16.22	1.0	39.8	\$8.71	2.1	20.8
All excluding sales .....	15.45	.9	36.6	16.13	.9	39.8	9.04	2.4	20.9
<b>White collar</b> .....	19.08	1.2	36.7	19.89	1.2	39.9	11.53	3.1	21.2
White collar excluding sales .....	19.70	1.1	37.6	20.13	1.1	39.8	14.16	3.4	21.8
<b>Professional specialty and technical</b> .....	22.57	1.1	36.5	22.85	1.1	39.7	19.64	3.9	20.3
Professional specialty .....	24.33	1.1	36.5	24.60	1.1	39.8	21.65	4.0	20.2
Engineers, architects, and surveyors .....	28.38	1.3	40.3	28.38	1.3	40.3	-	-	-
Metallurgical and materials engineers .....	29.95	8.3	40.5	29.95	8.3	40.5	-	-	-
Civil engineers .....	24.23	3.6	40.0	24.23	3.6	40.0	-	-	-
Electrical and electronic engineers .....	29.40	3.6	40.3	29.40	3.6	40.3	-	-	-
Industrial engineers .....	25.90	2.1	40.3	25.91	2.1	40.3	-	-	-
Mechanical engineers .....	25.91	2.3	40.3	25.91	2.3	40.3	-	-	-
Engineers, n.e.c. ....	29.69	1.8	40.3	29.69	1.8	40.3	-	-	-
Mathematical and computer scientists .....	27.62	2.3	39.8	27.62	2.3	39.9	-	-	-
Computer systems analysts and scientists .....	27.38	2.3	40.0	27.36	2.3	40.1	-	-	-
Operations and systems researchers and analysts .....	27.70	5.1	39.5	27.72	5.1	39.6	-	-	-
Actuaries .....	37.07	7.2	38.3	37.07	7.2	38.3	-	-	-
Natural scientists .....	25.86	6.5	39.2	25.67	6.6	40.3	-	-	-
Chemists, except biochemists .....	28.67	5.8	40.2	28.67	5.8	40.2	-	-	-
Physical scientists, n.e.c. ....	29.00	8.2	40.1	29.00	8.2	40.1	-	-	-
Biological and life scientists .....	-	-	-	22.66	6.1	40.3	-	-	-
Health related .....	22.01	1.2	32.7	21.97	1.5	39.6	22.11	4.1	21.2
Physicians .....	46.10	12.6	38.1	42.82	13.0	43.5	66.19	3.3	21.7
Registered nurses .....	19.58	.8	32.1	19.54	1.0	39.2	19.68	1.7	21.6
Pharmacists .....	27.62	1.4	30.7	27.52	1.7	40.0	28.00	1.9	16.2
Dietitians .....	16.17	3.8	33.5	15.53	5.2	39.9	18.83	3.8	20.1
Respiratory therapists .....	16.63	1.8	33.3	16.48	2.2	39.4	17.06	3.2	22.6
Occupational therapists .....	25.22	5.7	33.2	25.64	5.9	40.0	22.84	5.0	16.9
Physical therapists .....	23.52	5.7	34.9	22.88	6.4	39.6	28.43	5.4	18.4
Speech therapists .....	21.96	3.9	32.4	21.78	5.4	40.0	-	-	-
Therapists, n.e.c. ....	16.90	5.1	36.4	17.11	5.3	38.3	13.64	6.0	20.2
Physicians' assistants .....	26.25	15.4	36.3	-	-	-	-	-	-
Teachers, college and university .....	35.71	7.6	36.9	35.59	7.6	42.3	37.19	22.1	14.3
Biological science teachers .....	30.26	6.9	37.7	30.26	6.9	37.7	-	-	-
Engineering teachers .....	34.88	5.5	37.9	34.88	5.5	37.9	-	-	-
Mathematical science teachers .....	30.11	13.8	36.1	30.40	13.8	39.2	-	-	-
Medical science teachers .....	43.19	12.0	47.6	40.71	14.7	46.7	-	-	-
Business, commerce, and marketing teachers ..	36.15	17.7	20.1	39.18	15.6	39.9	22.64	20.7	6.3
Art, drama, and music teachers .....	32.02	13.0	31.5	31.48	18.0	39.5	-	-	-
Education teachers .....	27.88	5.7	36.8	27.89	5.7	38.2	-	-	-
English teachers .....	29.90	17.8	34.4	31.68	15.2	40.3	-	-	-
Foreign language teachers .....	25.23	10.7	40.4	25.26	10.8	40.7	-	-	-
Theology teachers .....	25.59	9.9	40.0	25.60	9.9	40.4	-	-	-
Teachers, post secondary, subject not specified	33.62	15.0	23.6	36.32	14.8	34.3	21.75	38.8	9.9
Teachers, post secondary, n.e.c. ....	35.58	26.0	28.6	37.56	25.6	39.0	17.55	9.8	8.4
Teachers, except college and university .....	16.04	3.4	32.4	16.74	3.1	38.2	11.09	5.1	15.6
Prekindergarten and kindergarten .....	9.39	8.3	34.6	9.82	6.8	39.2	7.43	10.3	22.6
Elementary school teachers .....	19.01	5.1	35.6	18.99	5.2	36.9	19.55	10.5	16.0
Secondary school teachers .....	21.45	4.2	37.1	21.45	4.3	37.7	21.48	9.8	23.0
Teachers, n.e.c. ....	15.49	9.6	23.0	17.52	9.5	39.2	12.26	9.0	13.9
Substitute teachers .....	9.65	2.6	7.7	-	-	-	9.65	2.6	7.7
Vocational and educational counselors .....	15.59	6.1	39.5	15.63	6.1	39.8	-	-	-
Librarians, archivists, and curators .....	20.82	9.8	32.3	20.73	10.6	38.8	-	-	-
Librarians .....	17.92	4.2	32.4	17.42	4.0	39.1	-	-	-
Archivists and curators .....	31.31	18.1	31.8	32.00	17.8	37.7	-	-	-
Social scientists and urban planners .....	21.26	6.3	36.3	21.11	6.5	39.7	-	-	-
Economists .....	22.96	6.9	40.0	22.96	6.9	40.0	-	-	-
Psychologists .....	17.86	9.8	34.1	17.15	9.8	39.3	-	-	-
Social, recreation, and religious workers .....	13.63	2.3	37.7	13.56	2.1	39.0	15.19	21.7	21.5
Social workers .....	13.70	2.3	37.6	13.56	2.1	39.0	17.23	18.1	20.1
Recreation workers .....	9.26	11.6	39.1	10.25	5.3	39.7	-	-	-
Clergy .....	17.94	14.3	39.6	18.37	13.7	39.6	-	-	-

See footnotes at end of table.



Table 4. Selected occupations, East North Central, private industry: Mean hourly earnings<sup>1</sup> for full-time and part-time workers,<sup>2</sup> National Compensation Survey,<sup>3</sup> 1998—Continued

Occupation <sup>4</sup>	Total			Full time			Part time		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)	
<b>White collar</b> —Continued									
<b>Professional specialty and technical</b> —Continued									
Professional specialty—Continued									
Social, recreation, and religious workers									
—Continued									
Religious workers, n.e.c. ....	\$11.95	31.7	37.2	—	—	—	—	—	—
Lawyers and judges .....	45.52	9.7	41.9	\$45.52	9.7	41.9	—	—	—
Lawyers .....	45.52	9.7	41.9	45.52	9.7	41.9	—	—	—
Writers, authors, entertainers, athletes, and professionals, n.e.c. ....									
Technical writers .....	21.53	4.5	37.4	21.65	4.4	39.4	\$18.92	15.6	17.9
Designers .....	19.09	5.5	38.7	19.42	5.2	39.8	—	—	—
Actors and directors .....	24.27	8.1	39.8	24.27	8.1	39.8	—	—	—
Painters, sculptors, craft artists, and artist printmakers .....	22.39	19.8	39.3	23.23	19.6	40.0	—	—	—
Photographers .....	15.09	5.5	38.8	15.35	5.4	39.5	—	—	—
Artists, performers, and related workers, n.e.c. ....	19.96	8.3	36.2	18.52	3.6	39.8	—	—	—
Editors and reporters .....	12.31	5.4	25.3	—	—	—	—	—	—
Public relations specialists .....	20.52	12.3	38.4	20.56	12.1	39.2	—	—	—
Athletes .....	22.00	14.1	34.5	21.29	15.3	40.1	—	—	—
Professional, n.e.c. ....	18.16	11.7	29.2	18.86	12.9	39.6	10.11	15.0	7.3
Technical .....	21.58	3.7	38.3	21.68	3.9	39.7	—	—	—
Clinical laboratory technologists and technicians .....	18.46	2.1	36.5	18.84	2.3	39.4	14.30	3.6	20.3
Health record technologists and technicians .....	15.10	5.7	35.1	15.02	5.8	39.7	15.63	6.7	19.0
Radiological technicians .....	12.25	6.3	34.4	12.10	7.0	38.8	—	—	—
Licensed practical nurses .....	16.54	2.8	32.5	16.60	3.2	39.7	16.35	4.4	21.3
Health technologists and technicians, n.e.c. ....	12.84	2.6	33.4	12.65	2.9	39.4	13.77	2.0	19.4
Electrical and electronic technicians .....	12.77	3.1	33.9	13.15	3.3	39.7	10.93	6.3	20.0
Industrial engineering technicians .....	19.82	2.3	39.6	19.90	2.3	40.0	—	—	—
Mechanical engineering technicians .....	17.12	4.1	40.6	17.12	4.1	40.6	—	—	—
Engineering technicians, n.e.c. ....	20.34	4.4	40.2	20.34	4.4	40.4	—	—	—
Drafters .....	21.00	4.4	40.1	21.05	4.3	40.2	—	—	—
Biological technicians .....	18.11	5.1	38.6	18.69	4.3	40.0	—	—	—
Chemical technicians .....	17.22	19.0	39.9	17.22	19.0	39.9	—	—	—
Science technicians, n.e.c. ....	16.39	4.9	39.0	16.45	5.0	39.8	—	—	—
Airplane pilots and navigators .....	—	—	—	16.81	3.6	40.0	—	—	—
Broadcast equipment operators .....	84.84	28.9	24.5	84.84	28.9	24.5	—	—	—
Computer programmers .....	11.83	12.5	39.2	12.00	12.4	40.0	—	—	—
Legal assistants .....	22.10	2.3	39.5	21.97	2.2	39.6	—	—	—
Technical and related, n.e.c. ....	19.86	3.8	38.5	19.86	3.8	38.5	—	—	—
	21.57	3.0	39.4	21.64	3.0	39.7	18.31	11.8	29.0
<b>Executive, administrative, and managerial</b> .....									
Executives, administrators, and managers .....	28.08	1.7	40.3	28.12	1.7	40.5	19.55	10.1	24.1
Financial managers .....	31.88	2.3	40.8	31.93	2.3	41.0	21.27	18.1	23.2
Personnel and labor relations managers .....	29.92	3.4	40.2	30.01	3.4	40.3	—	—	—
Purchasing managers .....	34.21	4.4	42.3	34.21	4.4	42.3	—	—	—
Managers, marketing, advertising, and public relations .....	29.45	7.7	40.6	29.45	7.7	40.6	—	—	—
Administrators, education and related fields .....	36.49	4.3	41.0	36.49	4.3	41.0	—	—	—
Managers, medicine and health .....	25.06	6.6	42.4	25.18	6.6	42.9	—	—	—
Managers, food servicing and lodging establishments .....	27.57	3.3	40.3	27.53	3.3	40.7	—	—	—
Managers, properties and real estate .....	16.58	7.3	44.0	16.66	7.4	45.1	—	—	—
Managers, service organizations, n.e.c. ....	18.50	13.9	39.5	18.64	14.0	40.0	—	—	—
Managers and administrators, n.e.c. ....	23.55	11.0	39.5	23.65	11.1	39.8	—	—	—
Management related .....	34.72	3.5	40.8	34.72	3.6	40.8	—	—	—
Accountants and auditors .....	23.49	1.3	39.7	23.52	1.4	39.9	17.97	5.0	25.0
Underwriters .....	18.77	7.1	40.0	18.76	7.1	40.1	—	—	—
Other financial officers .....	28.50	7.3	38.8	28.50	7.3	38.8	—	—	—
Management analysts .....	24.88	5.2	39.9	24.88	5.2	39.9	—	—	—
Personnel, training, and labor relations specialists .....	21.90	6.9	39.6	21.90	6.9	39.6	—	—	—
	23.55	3.0	39.1	23.71	3.0	39.8	17.08	3.1	23.0

See footnotes at end of table.

Table 4. Selected occupations, East North Central, private industry: Mean hourly earnings<sup>1</sup> for full-time and part-time workers,<sup>2</sup> National Compensation Survey,<sup>3</sup> 1998—Continued

Occupation <sup>4</sup>	Total			Full time			Part time		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)	
<b>White collar</b> —Continued									
<b>Executive, administrative, and managerial</b>									
—Continued									
Management related—Continued									
Buyers, wholesale and retail trade, except farm products .....	\$19.76	7.5	41.1	\$19.77	7.5	41.8	—	—	—
Purchasing agents and buyers, n.e.c. ....	26.52	2.5	39.9	26.65	2.5	39.9	—	—	—
Construction inspectors .....	19.02	15.2	40.7	19.02	15.2	40.7	—	—	—
Inspectors and compliance officers, except construction .....	23.16	8.0	41.1	23.16	8.0	41.1	—	—	—
Management related, n.e.c. ....	25.80	2.9	39.6	25.83	2.9	39.7	—	—	—
<b>Sales</b> .....	15.17	5.0	32.1	18.03	5.4	40.1	\$6.81	1.3	20.3
Supervisors, sales .....	22.50	16.5	39.7	22.73	16.6	40.4	—	—	—
Insurance sales .....	16.19	18.3	31.8	17.69	15.9	37.9	—	—	—
Securities and financial services sales .....	52.23	21.4	39.9	52.23	21.4	39.9	—	—	—
Advertising and related sales .....	16.68	11.7	39.6	16.75	12.0	40.2	—	—	—
Sales, other business services .....	22.94	9.8	39.8	23.03	9.9	39.9	—	—	—
Sales engineers .....	29.28	7.8	41.9	29.28	7.8	41.9	—	—	—
Sales representatives, mining, manufacturing, and wholesale .....	27.38	8.0	40.5	27.38	8.0	40.6	—	—	—
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	7.49	6.6	37.9	6.30	3.4	20.5
Sales workers, furniture and home furnishings ..	11.40	18.4	29.9	15.31	16.6	40.7	8.02	8.1	24.3
Sales workers, radio, tv, hi-fi, and appliances ...	12.78	12.5	34.0	14.89	12.4	39.7	—	—	—
Sales workers, hardware and building supplies ..	9.96	8.4	35.5	10.52	8.7	39.4	6.73	5.1	22.6
Sales workers, parts .....	14.28	6.0	39.8	14.48	6.0	40.5	—	—	—
Sales workers, other commodities .....	9.40	5.2	28.7	11.12	7.2	39.4	7.13	1.9	21.1
Sales counter clerks .....	8.30	8.4	27.5	9.95	7.4	39.9	6.23	3.9	19.7
Cashiers .....	7.14	1.2	25.5	7.80	1.6	38.8	6.61	1.6	19.9
Demonstrators, promoters, and models, sales ..	10.03	9.3	29.3	11.69	10.9	40.0	—	—	—
Sales support, n.e.c. ....	12.66	4.6	38.3	13.05	4.6	40.0	7.05	5.0	23.9
<b>Administrative support, including clerical</b> .....	11.98	.9	37.1	12.29	.9	39.6	9.05	2.6	23.3
Supervisors, general office .....	16.62	3.4	39.8	16.63	3.4	39.9	—	—	—
Supervisors, computer equipment operators .....	17.88	8.9	40.5	17.88	8.9	40.5	—	—	—
Supervisors, financial records processing .....	17.15	4.5	39.7	17.15	4.5	39.7	—	—	—
Supervisors, distribution, scheduling, and adjusting clerks .....	16.64	6.4	40.4	16.66	6.5	40.6	—	—	—
Computer operators .....	14.96	4.0	39.5	14.99	3.9	39.6	—	—	—
Secretaries .....	13.50	1.7	38.1	13.66	1.7	39.4	10.82	6.0	24.8
Stenographers .....	12.19	5.1	34.7	12.57	5.7	39.5	10.86	3.3	24.2
Typists .....	11.12	4.0	36.8	11.40	4.3	38.8	9.36	4.2	28.0
Interviewers .....	9.40	2.2	32.6	10.20	2.2	39.7	7.88	5.8	24.4
Hotel clerks .....	8.06	3.9	32.9	8.37	3.3	39.8	—	—	—
Transportation ticket and reservation agents .....	14.17	7.6	34.2	14.78	7.9	40.0	11.60	8.0	21.2
Receptionists .....	9.27	2.0	35.7	9.35	2.1	39.8	8.76	5.6	21.3
Information clerks, n.e.c. ....	12.44	4.0	37.8	12.62	3.9	39.4	8.97	7.2	21.1
Correspondence clerks .....	12.70	9.3	39.1	12.71	9.4	39.7	—	—	—
Order clerks .....	12.20	2.9	38.3	12.36	3.0	39.8	9.71	2.0	24.2
Personnel clerks, except payroll and timekeeping .....	12.98	3.6	38.7	13.03	3.6	39.7	—	—	—
Library clerks .....	11.58	5.3	33.8	12.05	5.1	38.9	8.17	7.1	17.2
File clerks .....	8.93	2.8	33.8	9.10	3.2	38.9	8.18	5.0	20.9
Records clerks, n.e.c. ....	10.94	2.5	37.2	11.02	2.6	39.5	9.74	3.8	20.9
Bookkeepers, accounting and auditing clerks ...	11.27	2.6	37.6	11.57	2.0	39.3	8.23	9.6	26.2
Payroll and timekeeping clerks .....	13.12	3.7	37.8	13.24	3.7	39.9	10.85	16.3	19.5
Billing clerks .....	11.06	2.6	37.7	11.26	2.6	39.5	9.25	3.2	26.8
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	9.88	11.8	39.6	—	—	—
Duplicating machine operators .....	10.56	5.9	37.7	10.71	5.8	39.1	—	—	—

See footnotes at end of table.

Table 4. Selected occupations, East North Central, private industry: Mean hourly earnings<sup>1</sup> for full-time and part-time workers,<sup>2</sup> National Compensation Survey,<sup>3</sup> 1998—Continued

Occupation <sup>4</sup>	Total			Full time			Part time		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)	
<b>White collar</b> —Continued									
<b>Administrative support, including clerical</b> —Continued									
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. ....	8.54	2.8	34.9	8.74	3.9	38.9	—	—	—
Telephone operators .....	11.47	4.7	33.8	11.96	7.2	38.8	\$8.50	3.5	18.9
Mail clerks, except postal service .....	8.96	4.7	34.7	9.50	4.8	38.7	7.09	2.4	25.6
Messengers .....	9.14	7.9	38.6	—	—	—	—	—	—
Dispatchers .....	11.70	6.8	39.6	11.75	6.7	40.9	—	—	—
Production coordinators .....	15.28	2.7	40.2	15.28	2.7	40.2	—	—	—
Traffic, shipping and receiving clerks .....	11.47	6.8	39.3	11.50	6.9	40.0	—	—	—
Stock and inventory clerks .....	11.12	5.3	33.4	12.05	2.8	40.0	7.02	2.0	19.3
Meter readers .....	14.72	4.7	38.6	—	—	—	—	—	—
Weighers, measurers, checkers, and samplers	17.89	4.3	39.7	17.95	4.2	40.0	—	—	—
Expeditors .....	13.01	2.8	38.2	13.37	6.0	40.0	—	—	—
Material recording, scheduling, and distribution clerks, n.e.c. ....	14.96	7.6	39.7	15.06	7.4	40.1	—	—	—
Insurance adjusters, examiners, and investigators .....	13.99	7.0	38.8	14.01	7.0	38.9	—	—	—
Investigators and adjusters, except insurance ..	12.34	4.8	38.2	12.45	4.9	39.6	10.23	4.9	23.0
Eligibility clerks, social welfare .....	11.20	4.2	35.2	11.26	4.5	40.0	—	—	—
Bill and account collectors .....	11.13	2.6	38.1	11.24	2.5	40.0	9.19	8.2	21.1
General office clerks .....	10.49	1.9	36.4	10.82	1.9	39.7	8.49	3.9	24.1
Bank tellers .....	8.41	1.9	33.2	8.65	2.3	39.6	7.61	1.2	21.6
Data entry keyers .....	9.32	4.4	37.6	9.44	4.7	39.6	7.65	4.0	22.4
Statistical clerks .....	11.53	4.8	37.0	11.60	5.1	39.7	—	—	—
Teachers' aides .....	8.53	14.6	27.3	—	—	—	6.93	3.4	23.2
Administrative support, n.e.c. ....	12.77	3.9	36.4	13.01	4.3	39.4	10.87	3.5	22.6
<b>Blue collar</b> .....	13.77	1.0	38.4	14.08	1.0	40.0	7.68	2.8	21.3
<b>Precision production, craft, and repair</b> .....									
Supervisors, mechanics and repairers .....	23.39	3.4	41.0	23.39	3.4	41.0	—	—	—
Automobile mechanics .....	18.18	8.6	41.0	18.18	8.6	41.0	—	—	—
Bus, truck, and stationary engine mechanics ....	16.59	5.0	40.1	16.59	5.0	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 .....	17.08	8.2	40.0	17.08	8.2	40.0	—	—	—
Industrial machinery repairers .....	17.56	2.9	40.0	17.56	2.9	40.0	—	—	—
Machinery maintenance .....	14.19	2.4	39.9	14.20	2.4	40.0	—	—	—
Electronic repairers, communications and industrial equipment .....	14.26	4.7	40.0	14.26	4.7	40.0	—	—	—
Data processing equipment repairers .....	16.30	5.5	39.3	16.45	5.1	39.8	—	—	—
Telephone line installers and repairers .....	21.42	9.5	40.0	21.42	9.5	40.0	—	—	—
Telephone installers and repairers .....	15.90	4.3	39.7	15.90	4.3	39.7	—	—	—
Heating, air conditioning, and refrigeration mechanics .....	16.39	10.1	40.0	16.39	10.1	40.0	—	—	—
Office machine repairers .....	14.13	10.2	40.0	14.13	10.2	40.0	—	—	—
Millwrights .....	19.00	7.6	40.2	19.00	7.6	40.2	—	—	—
Mechanics and repairers, n.e.c. ....	17.13	3.0	39.8	17.19	3.0	40.0	—	—	—
Supervisors, carpenters and related workers ....	23.14	7.3	40.0	23.14	7.3	40.0	—	—	—
Supervisors, electricians and power transmission installers .....	24.68	6.7	40.0	24.68	6.7	40.0	—	—	—
Supervisors, plumbers, pipefitters, and steamfitters .....	29.97	3.8	40.0	29.97	3.8	40.0	—	—	—
Supervisors, construction trades, n.e.c. ....	24.07	2.9	39.9	24.07	2.9	39.9	—	—	—
Brickmasons and stonemasons .....	19.38	7.9	40.0	19.38	7.9	40.0	—	—	—
Carpenters .....	20.05	3.1	39.9	20.05	3.1	40.0	—	—	—
Drywall installers .....	17.58	8.9	40.0	17.58	8.9	40.0	—	—	—
Electricians .....	20.20	2.9	40.1	20.20	2.9	40.1	—	—	—
Electrician apprentices .....	14.20	10.3	40.0	14.20	10.3	40.0	—	—	—

See footnotes at end of table.

Table 4. Selected occupations, East North Central, private industry: Mean hourly earnings<sup>1</sup> for full-time and part-time workers,<sup>2</sup> National Compensation Survey,<sup>3</sup> 1998—Continued

Occupation <sup>4</sup>	Total			Full time			Part time		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)	
<b>Blue collar—Continued</b>									
<b>Precision production, craft, and repair—Continued</b>									
Electrical power installers and repairers .....	\$23.01	5.0	40.0	\$23.01	5.0	40.0	—	—	—
Painters, construction and maintenance .....	20.39	5.1	40.0	20.39	5.1	40.0	—	—	—
Plumbers, pipefitters and steamfitters .....	22.50	2.6	40.0	22.50	2.6	40.0	—	—	—
Plumber, pipefitter, and steamfitter apprentices .....	16.16	7.0	40.0	16.16	7.0	40.0	—	—	—
Concrete and terrazzo finishers .....	22.00	8.6	40.0	22.00	8.6	40.0	—	—	—
Paving, surfacing, and tamping equipment operators .....	21.41	9.8	40.5	21.41	9.8	40.5	—	—	—
Construction trades, n.e.c. ....	23.52	3.3	39.1	23.52	3.3	39.1	—	—	—
Supervisors, production .....	18.57	7.7	40.6	18.57	7.7	40.6	—	—	—
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 .....	16.65	1.9	40.1	16.65	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 .....	12.91	6.0	39.2	12.91	6.0	39.2	—	—	—
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	13.28	8.9	39.5	—	—	—
Electrical and electronic equipment assemblers .....	9.17	14.5	39.8	9.19	14.8	40.0	—	—	—
Miscellaneous precision workers, n.e.c. ....	16.12	4.1	40.0	16.12	4.1	40.0	—	—	—
Butchers and meat cutters .....	10.33	12.4	39.4	10.34	12.5	40.0	—	—	—
Bakers .....	8.67	8.1	33.2	8.99	9.1	39.7	—	—	—
Food batchmakers .....	13.80	4.8	40.0	13.80	4.8	40.0	—	—	—
Inspectors, testers, and graders .....	17.71	3.3	40.2	17.71	3.3	40.2	—	—	—
Precision inspectors, testers, and related workers, n.e.c. ....	17.10	10.2	40.0	17.10	10.2	40.0	—	—	—
Power plant operators .....	21.03	3.7	40.0	21.03	3.7	40.0	—	—	—
Stationary engineers .....	21.17	4.7	39.8	21.18	4.7	40.0	—	—	—
Miscellaneous plant and system operators, n.e.c. ....	17.83	6.2	40.0	17.83	6.2	40.0	—	—	—
<b>Machine operators, assemblers, and inspectors .....</b>	<b>12.81</b>	<b>1.5</b>	<b>39.8</b>	<b>12.88</b>	<b>1.5</b>	<b>40.0</b>	<b>\$7.28</b>	<b>3.2</b>	<b>27.2</b>
Lathe and turning machine set-up operators .....	14.50	2.6	40.0	14.50	2.6	40.0	—	—	—
Lathe and turning machine operators .....	12.74	9.5	40.0	12.74	9.5	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	13.60	3.4	40.0	—	—	—
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	10.21	16.7	40.0	—	—	—
Grinding, abrading, buffing, and polishing machine operators .....	12.44	3.9	39.6	12.50	3.9	39.9	—	—	—
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	13.15	2.5	40.0	—	—	—
Fabricating machine operators, n.e.c. ....	15.06	3.1	40.1	15.06	3.1	40.1	—	—	—
Molding and casting machine operators .....	10.74	3.2	39.9	10.78	3.2	40.0	—	—	—
Metal plating machine operators .....	11.86	7.2	41.3	11.86	7.2	41.3	—	—	—
Wood lathe, routing, and planing machine operators .....	12.99	16.7	38.7	13.35	17.7	38.7	—	—	—
Sawing machine operators .....	10.56	4.5	38.4	10.65	4.8	40.0	—	—	—
Shaping and jointing machine operators .....	11.34	7.9	40.0	11.34	7.9	40.0	—	—	—
Printing press operators .....	13.82	6.3	39.6	13.84	6.3	39.7	—	—	—
Photoengravers and lithographers .....	16.68	5.0	38.6	16.81	5.0	39.1	—	—	—
Typesetters and compositors .....	13.08	5.6	39.9	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	10.94	13.8	40.0	—	—	—
Laundering and dry cleaning machine operators .....	7.08	3.5	37.8	7.08	4.0	39.8	7.09	5.7	27.1
Packaging and filling machine operators .....	12.79	3.7	39.6	12.86	3.7	40.2	—	—	—
Extruding and forming machine operators .....	11.49	3.0	40.0	11.49	3.0	40.0	—	—	—
Mixing and blending machine operators .....	14.66	4.5	39.9	14.66	4.5	40.0	—	—	—

See footnotes at end of table.

Table 4. Selected occupations, East North Central, private industry: Mean hourly earnings<sup>1</sup> for full-time and part-time workers,<sup>2</sup> National Compensation Survey,<sup>3</sup> 1998—Continued

Occupation <sup>4</sup>	Total			Full time			Part time		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)	
<b>Blue collar—Continued</b>									
<b>Machine operators, assemblers, and inspectors—Continued</b>									
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	12.31	4.9	40.4	—	—	—
Roasting and baking machine operators, food ..	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 .....	16.79	7.0	39.9	16.79	7.0	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	13.58	4.7	40.0	—	—	—
Photographic process machine operators .....	11.19	6.1	38.4	11.49	5.0	40.0	—	—	—
Miscellaneous machine operators, n.e.c. ....	11.96	5.3	39.8	11.99	5.3	39.9	\$7.78	5.2	30.3
Welders and cutters .....	14.86	3.4	39.9	14.89	3.4	40.0	—	—	—
Solders and braziers .....	11.48	11.7	39.8	11.48	11.7	39.8	—	—	—
Assemblers .....	13.31	3.7	39.6	13.44	3.7	39.9	6.83	4.1	28.7
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	13.34	11.8	40.0	—	—	—
Hand painting, coating, and decorating .....	9.89	8.1	40.0	9.89	8.1	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	11.44	5.6	40.0	—	—	—
Production inspectors, checkers and examiners .....	11.45	6.0	40.0	11.45	6.1	40.0	—	—	—
Production testers .....	13.44	6.8	38.5	13.61	7.0	40.0	—	—	—
Graders and sorters, except agricultural .....	9.12	2.4	40.0	9.12	2.4	40.0	—	—	—
<b>Transportation and material moving .....</b>	14.42	1.7	37.5	14.89	1.6	40.7	9.49	6.8	20.6
Supervisors, motor vehicle operators .....	15.50	9.4	41.2	15.50	9.4	41.2	—	—	—
Truck drivers .....	15.48	2.4	40.4	15.59	2.4	41.8	11.54	5.8	18.4
Driver-sales workers .....	14.64	11.1	34.5	16.09	10.2	40.0	—	—	—
Bus drivers .....	11.18	9.2	25.6	11.16	17.8	39.6	11.19	10.5	22.7
Taxicab drivers and chauffeurs .....	8.70	14.3	28.0	—	—	—	6.10	3.2	22.9
Parking lot attendants .....	7.28	5.1	20.6	—	—	—	5.99	8.9	14.2
Motor transportation, n.e.c. ....	7.25	7.4	24.2	8.95	8.7	39.1	6.01	2.0	18.9
Railroad conductors and yardmasters .....	18.89	2.5	40.0	18.89	2.5	40.0	—	—	—
Locomotive operating .....	15.47	8.0	43.2	15.47	8.0	43.2	—	—	—
Supervisors, material moving equipment .....	17.46	6.1	40.1	17.46	6.1	40.1	—	—	—
Operating engineers .....	22.22	4.4	40.0	22.22	4.4	40.0	—	—	—
Crane and tower operators .....	14.45	5.0	40.3	14.45	5.0	40.3	—	—	—
Excavating and loading machine operators .....	16.67	7.2	40.0	16.67	7.2	40.0	—	—	—
Grader, dozer, and scraper operators .....	21.99	12.9	41.0	21.99	12.9	41.0	—	—	—
Industrial truck and tractor equipment operators .....	13.07	2.1	39.8	13.09	2.1	39.9	—	—	—
Miscellaneous material moving equipment operators, n.e.c. ....	14.59	4.5	36.6	15.08	5.3	40.1	—	—	—
<b>Handlers, equipment cleaners, helpers, and laborers .....</b>	10.49	1.4	34.4	11.17	1.4	39.8	7.22	2.4	20.8
Groundskeepers and gardeners, except farm ...	9.67	11.4	33.5	10.33	12.2	40.0	7.03	1.7	20.2
Supervisors, handlers, equipment cleaners, and laborers, n.e.c. ....	14.21	5.0	39.5	14.28	5.2	40.0	—	—	—
Helpers, mechanics and repairers .....	14.21	5.7	40.0	14.27	5.6	40.3	—	—	—
Helpers, construction trades .....	15.74	11.8	40.0	15.74	11.8	40.0	—	—	—
Construction laborers .....	16.38	3.0	39.5	16.38	3.0	39.7	—	—	—
Production helpers .....	10.25	4.7	38.6	10.37	4.9	39.9	—	—	—
Stock handlers and baggers .....	9.19	1.8	29.4	10.59	1.7	39.5	6.69	1.2	20.1
Machine feeders and offbearers .....	9.65	4.1	39.7	9.72	4.2	39.9	—	—	—
Freight, stock, and material handlers, n.e.c. ....	12.06	3.3	32.3	12.66	3.4	39.4	10.05	4.5	20.2
Garage and service station related .....	7.96	4.4	33.0	8.60	3.4	39.9	—	—	—
Vehicle washers and equipment cleaners .....	10.03	6.4	37.2	10.14	6.8	39.6	8.55	12.2	20.7
Hand packers and packagers .....	9.01	4.0	38.8	9.10	4.2	40.1	7.08	4.6	22.9

See footnotes at end of table.

Table 4. Selected occupations, East North Central, private industry: Mean hourly earnings<sup>1</sup> for full-time and part-time workers,<sup>2</sup> National Compensation Survey,<sup>3</sup> 1998—Continued

Occupation <sup>4</sup>	Total			Full time			Part time		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)	
<b>Blue collar—Continued</b>									
<b>Handlers, equipment cleaners, helpers, and laborers—Continued</b>									
Laborers, except construction, n.e.c. ....	\$10.46	3.8	36.2	\$11.16	2.2	40.0	\$6.37	8.0	23.4
<b>Service</b> .....	7.87	1.2	29.5	8.70	1.4	38.5	6.23	1.3	20.2
Protective service .....	8.75	3.9	31.9	9.01	4.8	39.7	7.91	3.4	19.6
Supervisors, guards .....	13.13	9.0	38.0	13.31	8.8	39.9	—	—	—
Guards and police, except public service .....	8.36	3.9	32.1	8.42	4.6	39.6	8.16	3.7	19.4
Protective service, n.e.c. ....	7.70	14.3	22.7	—	—	—	6.58	4.8	20.6
Food service .....	6.61	3.1	27.3	7.69	3.7	38.5	5.34	2.0	20.3
Supervisors, food preparation and service .....	11.34	3.1	37.7	11.67	3.1	40.3	8.52	6.2	24.1
Bartenders .....	6.66	7.2	26.3	7.51	11.4	37.4	5.98	4.8	21.3
Waiters and waitresses .....	3.50	5.4	25.2	3.65	10.5	36.9	3.39	5.0	20.7
Cooks .....	8.42	3.3	32.0	8.94	3.4	38.8	6.75	2.6	20.4
Food counter, fountain, and related .....	5.94	4.4	22.5	5.92	11.8	36.1	5.94	2.7	19.0
Kitchen workers, food preparation .....	7.30	3.4	28.5	8.03	2.9	38.8	6.40	1.9	21.5
Waiters/waitresses' assistants .....	4.86	4.4	20.8	5.44	9.2	36.9	4.65	4.5	18.0
Food preparation, n.e.c. ....	6.75	3.2	27.5	7.36	4.2	39.1	6.05	1.2	20.5
Health service .....	8.45	.7	32.9	8.49	.8	38.5	8.26	1.7	20.4
Health aides, except nursing .....	8.99	2.3	33.1	9.13	2.5	37.4	8.06	4.3	18.3
Nursing aides, orderlies and attendants .....	8.25	.9	32.8	8.24	1.0	38.9	8.29	1.7	20.9
Cleaning and building service .....	8.87	2.2	32.2	9.59	2.1	39.2	6.65	2.4	20.7
Supervisors, cleaning and building service workers .....	12.08	7.6	39.4	12.30	7.5	40.2	—	—	—
Maids and housemen .....	6.87	2.2	31.3	6.87	2.7	38.0	6.87	3.7	21.8
Janitors and cleaners .....	9.15	2.5	32.0	10.00	2.3	39.4	6.58	2.4	20.3
Personal service .....	8.93	4.3	26.9	10.11	5.9	36.0	6.96	2.7	18.9
Supervisors, personal service .....	10.10	11.6	39.6	—	—	—	—	—	—
Attendants, amusement, and recreation facilities .....	6.08	2.3	25.0	—	—	—	5.96	1.9	23.8
Ushers .....	6.21	4.7	17.9	—	—	—	6.21	4.7	17.9
Public transportation attendants .....	34.87	5.6	17.5	—	—	—	—	—	—
Baggage porters and bellhops .....	9.90	18.3	34.7	10.08	22.1	40.0	—	—	—
Welfare service aides .....	7.25	4.6	28.7	7.53	5.3	39.3	6.78	7.6	19.7
Early childhood teachers' assistants .....	6.59	2.3	26.2	6.71	4.6	38.4	6.42	3.5	18.1
Child care workers, n.e.c. ....	7.89	4.8	26.7	8.45	8.1	39.0	6.92	3.3	17.4
Service, n.e.c. ....	8.07	3.0	27.8	8.67	4.0	39.0	7.03	4.6	18.5

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

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

<sup>3</sup> In this census division, collection was conducted between January 1998 and April

1999. The average reference period was September 1998.

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

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

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

Table 5. Selected occupations, East North Central, State and local government: Mean hourly earnings<sup>1</sup> and weekly hours for full-time and part-time workers,<sup>2</sup> National Compensation Survey,<sup>3</sup> 1998

Occupation <sup>4</sup>	Total			Full time			Part time		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)	
All .....	\$19.32	1.5	35.7	\$19.82	1.5	38.4	\$12.16	3.0	17.9
All excluding sales .....	19.33	1.5	35.7	19.83	1.5	38.4	12.20	3.0	17.9
<b>White collar</b> .....	22.13	1.4	35.6	22.54	1.5	37.7	14.67	4.0	17.5
White collar excluding sales .....	22.16	1.4	35.6	22.56	1.5	37.7	14.81	4.0	17.4
<b>Professional specialty and technical</b> .....	26.56	1.7	34.8	26.99	1.7	37.0	18.35	4.4	16.2
Professional specialty .....	27.47	1.8	34.5	27.93	1.9	36.8	18.72	4.6	15.9
Engineers, architects, and surveyors .....	25.27	2.9	39.5	25.27	2.9	39.5	-	-	-
Civil engineers .....	26.76	5.8	38.8	26.76	5.8	38.8	-	-	-
Mathematical and computer scientists .....	20.28	6.9	38.5	20.28	6.9	38.5	-	-	-
Computer systems analysts and scientists .....	19.30	5.3	38.4	19.30	5.3	38.4	-	-	-
Natural scientists .....	16.79	10.8	38.9	16.86	10.9	39.4	-	-	-
Biological and life scientists .....	19.92	6.8	29.9	-	-	-	-	-	-
Health related .....	23.43	4.9	35.9	23.74	5.3	38.9	19.81	4.6	19.0
Physicians .....	37.84	13.8	41.9	37.84	13.8	41.9	-	-	-
Registered nurses .....	20.41	5.4	35.0	20.43	6.0	38.2	20.31	3.6	19.8
Dietitians .....	17.46	2.4	37.3	17.47	2.6	39.8	-	-	-
Speech therapists .....	33.49	7.8	33.6	35.10	7.8	36.2	-	-	-
Therapists, n.e.c. ....	15.60	9.3	37.5	15.71	9.9	39.2	-	-	-
Teachers, college and university .....	35.15	4.5	33.4	36.28	4.7	38.0	23.17	4.8	14.6
Engineering teachers .....	54.43	19.0	38.8	-	-	-	-	-	-
Mathematical science teachers .....	40.91	.7	35.8	-	-	-	-	-	-
Health specialties teachers .....	30.81	10.3	36.1	30.86	10.4	37.8	-	-	-
Business, commerce, and marketing teachers ..	31.65	13.7	25.7	35.03	13.1	37.7	-	-	-
English teachers .....	33.29	9.9	38.8	33.32	9.9	39.3	-	-	-
Teachers, post secondary, subject not specified	19.50	10.2	12.8	-	-	-	-	-	-
Teachers, post secondary, n.e.c. ....	31.08	6.4	26.4	34.16	6.2	34.8	24.09	5.4	17.1
Teachers, except college and university .....	29.34	2.1	33.7	29.90	2.2	35.6	18.12	7.8	16.1
Prekindergarten and kindergarten .....	27.66	6.1	33.8	27.66	6.4	36.5	-	-	-
Elementary school teachers .....	30.21	2.7	35.0	30.30	2.7	35.5	26.18	15.5	21.8
Secondary school teachers .....	31.25	3.4	35.7	31.27	3.4	36.0	28.66	15.1	15.9
Teachers, special education .....	28.88	4.8	35.1	29.02	4.9	35.7	-	-	-
Teachers, n.e.c. ....	28.56	3.4	31.7	29.38	3.5	35.1	18.67	6.1	14.6
Substitute teachers .....	11.41	8.2	15.6	-	-	-	10.45	4.7	14.1
Vocational and educational counselors .....	23.93	7.9	35.7	24.36	8.5	37.8	-	-	-
Librarians, archivists, and curators .....	21.35	6.1	35.9	21.52	6.6	38.5	19.75	9.6	21.9
Librarians .....	22.39	5.3	36.4	22.65	5.6	38.8	19.82	11.6	22.4
Archivists and curators .....	15.65	12.7	33.7	-	-	-	-	-	-
Social scientists and urban planners .....	21.75	16.9	35.1	21.79	17.2	39.0	-	-	-
Psychologists .....	30.80	8.4	37.8	30.98	8.4	37.8	-	-	-
Urban planners .....	20.00	5.5	23.0	20.23	5.4	39.8	-	-	-
Social, recreation, and religious workers .....	17.99	4.5	37.4	18.16	4.5	38.7	12.01	8.7	17.0
Social workers .....	18.37	4.7	38.3	18.44	4.7	38.7	-	-	-
Recreation workers .....	12.86	12.5	28.4	-	-	-	10.13	11.7	13.1
Lawyers and judges .....	27.74	6.1	36.2	28.00	6.5	39.2	-	-	-
Lawyers .....	27.65	6.5	37.5	27.98	6.9	39.2	-	-	-
Judges .....	28.70	13.7	26.6	-	-	-	-	-	-
Writers, authors, entertainers, athletes, and professionals, n.e.c. ....	27.31	7.7	34.1	28.07	6.7	39.8	9.82	10.4	7.9
Public relations specialists .....	22.76	11.1	29.0	23.00	11.3	39.9	-	-	-
Athletes .....	30.84	8.6	35.0	-	-	-	-	-	-
Professional, n.e.c. ....	28.47	13.6	39.8	28.52	13.5	40.0	-	-	-
Technical .....	15.92	5.1	37.8	16.04	5.2	39.2	13.31	4.0	21.1
Clinical laboratory technologists and technicians .....	10.35	7.2	38.3	10.18	6.9	40.0	-	-	-
Radiological technicians .....	15.17	4.6	38.1	-	-	-	-	-	-
Licensed practical nurses .....	12.97	5.0	36.7	12.90	5.9	40.0	13.36	3.2	25.0
Health technologists and technicians, n.e.c. ....	15.10	10.1	37.2	15.30	10.4	40.4	-	-	-
Electrical and electronic technicians .....	15.53	11.0	38.8	-	-	-	-	-	-
Engineering technicians, n.e.c. ....	19.06	6.9	38.1	19.06	6.9	38.1	-	-	-
Surveying and mapping technicians .....	15.57	13.6	38.3	15.57	13.6	38.3	-	-	-
Computer programmers .....	20.48	8.3	38.4	20.53	8.9	39.7	-	-	-
Technical and related, n.e.c. ....	17.27	10.2	38.0	17.36	10.3	38.8	12.66	15.9	19.6

See footnotes at end of table.

Table 5. Selected occupations, East North Central, State and local government: Mean hourly earnings<sup>1</sup> and weekly hours for full-time and part-time workers,<sup>2</sup> National Compensation Survey,<sup>3</sup> 1998–Continued

Occupation <sup>4</sup>	Total			Full time			Part time		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)	
<b>White collar –Continued</b>									
<b>Executive, administrative, and managerial</b> .....	\$25.97	2.0	37.7	\$26.01	2.0	39.3	\$22.81	12.1	9.1
Executives, administrators, and managers .....	29.79	2.2	36.9	29.90	2.2	39.3	22.34	16.1	7.2
Legislators .....	18.16	24.0	4.9	–	–	–	17.57	26.5	4.4
Administrators and officials, public administration .....	26.75	4.0	39.2	26.75	4.0	39.4	–	–	–
Financial managers .....	25.54	6.0	39.7	25.54	6.0	39.7	–	–	–
Administrators, education and related fields .....	35.76	2.5	38.7	35.69	2.5	39.0	–	–	–
Managers, medicine and health .....	32.21	18.9	39.2	32.21	18.9	39.2	–	–	–
Managers, service organizations, n.e.c. ....	20.94	8.6	33.9	21.55	9.1	39.1	–	–	–
Managers and administrators, n.e.c. ....	27.49	6.7	39.7	27.52	6.7	39.7	–	–	–
Management related .....	20.19	2.6	39.0	20.15	2.6	39.3	23.84	13.7	21.8
Accountants and auditors .....	20.63	5.2	38.8	20.63	5.2	38.8	–	–	–
Other financial officers .....	21.18	6.2	39.9	21.18	6.2	39.9	–	–	–
Personnel, training, and labor relations specialists .....	19.39	4.9	39.1	19.42	4.9	39.4	–	–	–
Construction inspectors .....	20.18	8.6	39.0	20.18	8.7	39.3	–	–	–
Inspectors and compliance officers, except construction .....	17.93	2.6	39.2	17.93	2.6	39.2	–	–	–
Management related, n.e.c. ....	21.11	5.9	39.1	21.11	6.1	39.6	–	–	–
<b>Sales</b> .....	12.19	10.2	29.0	15.15	7.6	40.0	8.01	13.8	20.9
Cashiers .....	10.61	13.7	26.6	13.43	15.0	40.0	8.19	15.3	20.6
<b>Administrative support, including clerical</b> .....	12.18	1.5	36.3	12.39	1.6	38.4	9.52	2.9	21.0
Supervisors, general office .....	15.99	2.2	39.3	16.00	2.2	39.3	–	–	–
Supervisors, distribution, scheduling, and adjusting clerks .....	19.12	11.0	37.9	19.12	11.0	37.9	–	–	–
Computer operators .....	15.44	7.2	39.0	15.45	7.2	39.1	–	–	–
Secretaries .....	12.32	1.8	37.7	12.38	1.9	39.0	10.80	8.6	21.2
Stenographers .....	14.13	4.3	37.3	14.13	4.3	37.3	–	–	–
Typists .....	11.14	5.9	38.8	11.26	6.1	39.7	–	–	–
Interviewers .....	12.18	4.9	33.3	12.43	5.2	40.0	–	–	–
Receptionists .....	12.58	7.7	30.7	–	–	–	7.93	5.2	17.3
Information clerks, n.e.c. ....	12.51	8.3	36.0	–	–	–	–	–	–
Personnel clerks, except payroll and timekeeping .....	14.60	12.8	39.0	14.60	12.8	39.0	–	–	–
Library clerks .....	9.60	5.3	26.7	10.16	8.5	37.7	8.36	6.4	16.2
Records clerks, n.e.c. ....	12.86	10.5	37.7	12.91	10.6	38.1	–	–	–
Bookkeepers, accounting and auditing clerks ..	12.58	2.4	38.6	12.62	2.4	39.1	–	–	–
Payroll and timekeeping clerks .....	16.28	8.7	38.4	16.28	8.7	38.4	–	–	–
Billing clerks .....	12.12	5.6	39.2	12.14	5.8	39.8	–	–	–
Dispatchers .....	11.58	8.4	37.6	11.89	9.5	40.0	8.91	11.9	24.9
Stock and inventory clerks .....	12.72	4.0	37.9	12.74	4.0	38.0	–	–	–
Investigators and adjusters, except insurance ...	14.56	4.6	34.7	14.79	5.0	39.9	–	–	–
Eligibility clerks, social welfare .....	14.02	4.3	38.4	14.47	3.3	39.9	–	–	–
General office clerks .....	12.08	2.6	37.3	12.18	2.6	38.9	10.14	4.7	20.8
Data entry keyers .....	11.54	4.0	38.3	11.55	4.1	38.5	–	–	–
Teachers' aides .....	9.66	3.2	31.8	9.71	4.0	34.7	9.42	4.4	23.4
Administrative support, n.e.c. ....	12.29	3.5	36.3	12.56	3.6	38.3	8.10	12.7	19.9
<b>Blue collar</b> .....	15.43	1.7	36.3	15.90	1.8	39.2	11.21	3.3	21.8
<b>Precision production, craft, and repair</b> .....	17.55	2.5	39.5	17.57	2.5	39.8	–	–	–
Supervisors, mechanics and repairers .....	18.24	9.1	39.9	18.24	9.1	39.9	–	–	–
Automobile mechanics .....	16.57	3.3	40.0	16.57	3.3	40.0	–	–	–
Bus, truck, and stationary engine mechanics ....	16.40	3.8	40.1	16.40	3.8	40.1	–	–	–
Heavy equipment mechanics .....	15.24	10.4	39.8	15.24	10.4	39.8	–	–	–
Industrial machinery repairers .....	18.28	.3	40.0	18.28	.3	40.0	–	–	–
Heating, air conditioning, and refrigeration mechanics .....	15.49	2.7	38.3	15.43	2.8	40.0	–	–	–
Mechanical controls and valve repairers .....	15.74	6.0	36.5	16.33	4.9	40.0	–	–	–
Mechanics and repairers, n.e.c. ....	16.02	4.4	40.0	16.02	4.4	40.0	–	–	–

See footnotes at end of table.



Table 5. Selected occupations, East North Central, State and local government: Mean hourly earnings<sup>1</sup> and weekly hours for full-time and part-time workers,<sup>2</sup> National Compensation Survey,<sup>3</sup> 1998–Continued

Occupation <sup>4</sup>	Total			Full time			Part time		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)	
<b>Blue collar –Continued</b>									
<b>Precision production, craft, and repair –Continued</b>									
Supervisors, construction trades, n.e.c. ....	\$17.97	5.8	39.9	\$17.97	5.8	39.9	–	–	–
Carpenters .....	19.26	14.8	39.9	19.26	14.8	39.9	–	–	–
Electricians .....	24.52	6.9	39.9	24.52	6.9	39.9	–	–	–
Electrical power installers and repairers .....	18.48	3.6	40.0	18.48	3.6	40.0	–	–	–
Painters, construction and maintenance .....	18.77	7.1	39.9	18.77	7.1	39.9	–	–	–
Plumbers, pipefitters and steamfitters .....	18.31	7.2	39.5	18.31	7.2	39.5	–	–	–
Construction trades, n.e.c. ....	15.05	6.3	39.4	15.05	6.3	39.4	–	–	–
Water and sewer treatment plant operators .....	16.38	3.8	40.0	16.38	3.8	40.0	–	–	–
Stationary engineers .....	22.86	8.1	39.3	22.86	8.1	39.3	–	–	–
<b>Machine operators, assemblers, and inspectors .....</b>									
Laundrying and dry cleaning machine operators	12.61	11.1	39.8	12.63	11.2	40.0	–	–	–
	9.10	5.7	40.0	9.10	5.7	40.0	–	–	–
<b>Transportation and material moving .....</b>									
Supervisors, motor vehicle operators .....	14.40	2.6	31.7	15.14	2.7	37.7	\$12.17	2.8	21.4
Truck drivers .....	21.67	3.6	40.0	21.67	3.6	40.0	–	–	–
Bus drivers .....	15.73	6.7	38.9	15.92	6.6	40.0	–	–	–
Operating engineers .....	13.41	2.3	27.5	14.30	2.2	35.2	12.25	2.9	21.4
Miscellaneous material moving equipment operators, n.e.c. ....	17.16	9.0	39.9	17.16	9.0	39.9	–	–	–
	14.15	8.6	40.0	14.15	8.6	40.0	–	–	–
<b>Handlers, equipment cleaners, helpers, and laborers .....</b>									
Supervisors, agriculture-related workers .....	13.07	4.0	37.7	13.61	4.4	39.7	7.03	4.3	24.3
Groundskeepers and gardeners, except farm ...	17.27	6.8	40.0	17.27	6.8	40.0	–	–	–
Helpers, mechanics and repairers .....	12.21	5.3	35.1	13.39	4.6	39.3	6.54	5.0	23.3
Construction laborers .....	13.85	7.1	35.8	14.30	6.1	40.0	–	–	–
Laborers, except construction, n.e.c. ....	14.08	6.7	38.9	14.11	6.8	40.0	–	–	–
	11.97	8.8	38.7	12.28	9.0	40.0	6.92	5.7	25.1
<b>Service .....</b>									
Protective service .....	14.08	2.5	35.8	14.57	2.8	40.0	8.76	2.5	16.8
Supervisors, firefighters and fire prevention .....	17.72	1.8	39.0	18.01	1.8	41.6	9.49	4.1	14.0
Supervisors, police and detectives .....	17.86	5.0	50.0	17.86	5.0	50.2	–	–	–
Firefighting .....	24.61	7.7	40.1	24.61	7.7	40.1	–	–	–
Police and detectives, public service .....	16.88	4.6	44.5	17.09	4.4	50.0	9.99	7.2	9.7
Sheriffs, bailiffs, and other law enforcement officers .....	19.96	2.1	38.7	20.05	2.1	39.9	12.43	11.5	11.1
Correctional institution officers .....	15.10	4.2	39.7	15.12	4.2	39.9	–	–	–
Crossing guards .....	14.50	4.3	38.5	14.62	4.2	39.3	–	–	–
Guards and police, except public service .....	7.22	9.8	13.6	–	–	–	7.22	9.8	13.6
Protective service, n.e.c. ....	13.87	6.3	30.5	14.22	7.0	38.4	12.38	7.3	16.4
Food service .....	11.94	13.7	30.5	13.24	14.9	39.2	7.51	5.2	17.4
Supervisors, food preparation and service .....	9.27	3.1	29.4	9.47	4.1	35.2	8.54	3.8	18.5
Cooks .....	10.24	9.5	34.0	10.22	9.9	35.0	–	–	–
Food counter, fountain, and related .....	9.91	2.1	32.5	9.91	2.1	34.2	9.92	7.1	21.6
Kitchen workers, food preparation .....	6.46	10.5	20.4	–	–	–	6.46	10.5	20.4
Food preparation, n.e.c. ....	7.06	5.2	31.4	–	–	–	–	–	–
Health service .....	9.06	3.3	25.0	9.46	3.9	36.1	8.53	4.1	17.9
Health aides, except nursing .....	10.64	6.7	36.5	10.65	7.0	38.3	10.56	4.8	20.3
Nursing aides, orderlies and attendants .....	12.21	2.0	35.1	12.25	2.2	38.0	11.87	2.5	19.5
Cleaning and building service .....	9.75	9.9	37.4	9.79	10.5	38.5	8.87	3.5	21.5
Supervisors, cleaning and building service workers .....	11.54	2.2	38.3	11.64	2.3	39.7	9.51	9.0	22.8
Maids and housemen .....	14.33	7.9	40.1	14.33	7.9	40.1	–	–	–
Janitors and cleaners .....	8.26	3.4	30.3	–	–	–	–	–	–
Personal service .....	11.35	2.2	38.3	11.45	2.3	39.7	9.53	9.1	23.2
Attendants, amusement, and recreation facilities .....	9.94	6.7	27.0	10.73	8.1	37.6	7.97	3.5	15.9
Welfare service aides .....	6.70	3.1	22.0	–	–	–	7.16	2.9	18.6
Early childhood teachers' assistants .....	8.18	23.6	32.9	8.18	24.3	37.7	–	–	–
	8.88	2.2	29.1	8.83	2.6	36.0	9.02	4.8	19.4

See footnotes at end of table.

Table 5. Selected occupations, East North Central, State and local government: Mean hourly earnings<sup>1</sup> and weekly hours for full-time and part-time workers,<sup>2</sup> National Compensation Survey,<sup>3</sup> 1998—Continued

Occupation <sup>4</sup>	Total			Full time			Part time		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)	
<b>Service</b> —Continued									
Personal service—Continued									
Child care workers, n.e.c. ....	\$10.02	5.8	22.5	\$11.76	6.6	39.2	\$7.47	4.4	13.9
Service, n.e.c. ....	11.79	7.2	31.2	12.24	7.2	37.6	8.21	10.3	13.4

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

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

<sup>3</sup> In this census division, collection was conducted between January 1998 and April

1999. The average reference period was September 1998.

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

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

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

Table 6. Occupations<sup>1</sup> and levels,<sup>2</sup> East North Central: Mean hourly earnings<sup>3</sup> and weekly hours, private industry and State and local government, National Compensation Survey,<sup>4</sup> 1998

Occupations and levels	Total			Private industry			State and local government		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)	
All .....	\$16.08	0.8	36.2	\$15.44	0.9	36.3	\$19.32	1.5	35.7
All excluding sales .....	16.13	.8	36.5	15.45	.9	36.6	19.33	1.5	35.7
<b>White collar</b> .....	19.75	1.0	36.5	19.08	1.2	36.7	22.13	1.4	35.6
1 .....	6.93	1.5	26.8	6.89	1.6	27.1	7.47	2.9	24.2
2 .....	8.59	1.5	30.2	8.48	1.6	30.1	9.37	3.4	31.3
3 .....	9.70	.9	34.2	9.56	1.0	34.2	10.73	1.4	34.9
4 .....	11.67	1.2	37.3	11.63	1.3	37.2	11.83	3.2	37.3
5 .....	13.83	2.2	36.9	13.97	2.6	37.5	13.25	3.2	34.4
6 .....	15.58	1.7	38.0	15.20	1.3	38.4	16.93	5.7	36.6
7 .....	18.45	1.0	37.7	17.90	1.0	38.2	20.04	2.7	36.2
8 .....	20.80	1.5	37.0	19.30	1.0	37.6	25.67	3.6	34.9
9 .....	25.18	1.2	36.9	23.14	1.5	37.9	28.41	1.8	35.3
10 .....	27.40	2.1	39.1	27.81	2.3	39.6	24.77	3.7	36.2
11 .....	31.45	1.4	38.7	31.63	1.5	38.8	30.44	2.4	37.9
12 .....	36.20	1.1	40.1	36.39	1.2	40.3	35.01	2.7	39.0
13 .....	48.52	5.8	39.9	51.75	7.3	40.2	40.26	5.6	39.1
14 .....	54.77	3.7	42.6	54.99	3.9	43.0	51.77	10.9	37.1
15 .....	70.39	6.4	41.9	73.92	7.2	43.0	-	-	-
Not able to be leveled .....	27.29	5.1	35.8	27.21	6.3	37.1	27.61	6.6	31.4
White collar excluding sales .....	20.30	.9	37.1	19.70	1.1	37.6	22.16	1.4	35.6
1 .....	7.76	1.9	29.7	7.80	2.1	31.0	7.57	2.9	24.7
2 .....	8.98	1.7	32.9	8.90	1.8	33.2	9.38	3.4	31.3
3 .....	10.04	.8	36.1	9.93	1.0	36.3	10.68	1.5	35.0
4 .....	11.67	1.1	37.7	11.62	1.1	37.8	11.83	3.2	37.3
5 .....	13.43	1.2	36.6	13.48	1.3	37.3	13.24	3.3	34.4
6 .....	15.55	1.7	37.8	15.11	1.1	38.2	16.93	5.7	36.6
7 .....	18.22	1.0	37.4	17.54	.8	37.8	20.04	2.7	36.2
8 .....	20.81	1.6	36.7	19.16	.9	37.3	25.72	3.6	34.9
9 .....	24.94	1.0	36.8	22.64	.8	37.8	28.41	1.8	35.3
10 .....	26.62	1.7	39.0	26.95	1.9	39.6	24.77	3.7	36.2
11 .....	31.20	1.3	38.6	31.35	1.5	38.7	30.44	2.4	37.9
12 .....	35.89	1.1	40.1	36.03	1.1	40.3	35.01	2.7	39.0
13 .....	46.06	3.4	39.8	48.38	4.0	40.1	40.26	5.6	39.1
14 .....	54.80	3.7	42.6	55.03	3.9	43.1	51.77	10.9	37.1
15 .....	70.39	6.4	41.9	73.92	7.2	43.0	-	-	-
Not able to be leveled .....	27.48	5.3	35.8	27.44	6.5	37.2	27.61	6.6	31.4
<b>Professional specialty and technical</b> .....	23.88	1.0	35.9	22.57	1.1	36.5	26.56	1.7	34.8
Professional specialty .....	25.56	1.0	35.7	24.33	1.1	36.5	27.47	1.8	34.5
4 .....	10.67	6.0	24.1	12.56	8.7	26.1	8.11	5.8	21.8
5 .....	12.54	5.5	31.6	11.95	4.3	34.9	13.06	9.1	29.2
6 .....	17.67	6.0	34.8	14.29	2.9	35.6	22.68	10.3	33.5
7 .....	19.81	2.0	35.3	18.03	1.7	35.7	22.15	4.1	34.7
8 .....	22.68	2.4	33.8	19.46	1.3	33.9	27.55	4.1	33.7
9 .....	25.84	1.3	35.4	22.14	.9	36.2	29.39	1.9	34.8
10 .....	25.53	2.3	38.3	25.87	2.4	38.9	23.84	6.8	35.3
11 .....	29.94	1.5	37.9	30.15	1.5	38.2	28.93	4.1	36.8
12 .....	35.18	1.5	40.0	35.39	1.6	40.2	33.88	4.7	39.0
13 .....	41.70	4.4	39.0	45.09	3.7	38.7	39.11	6.8	39.2
14 .....	53.36	8.3	41.8	52.51	9.3	42.6	63.81	8.2	33.8
15 .....	63.63	7.3	43.1	69.25	9.8	50.1	-	-	-
Not able to be leveled .....	26.02	4.8	36.1	24.70	6.4	35.7	29.49	6.6	37.3
Engineers, architects, and surveyors .....	28.25	1.2	40.3	28.38	1.3	40.3	25.27	2.9	39.5
6 .....	19.16	1.9	40.0	19.16	1.9	40.0	-	-	-
7 .....	19.86	2.5	39.9	19.90	2.6	39.9	-	-	-
8 .....	21.66	1.7	40.2	21.48	1.4	40.2	-	-	-
9 .....	24.71	1.5	40.2	24.73	1.6	40.2	23.93	8.1	39.7
10 .....	27.77	2.0	40.2	27.66	2.0	40.3	-	-	-
11 .....	30.05	1.7	40.3	30.44	1.7	40.4	26.02	3.6	39.5
12 .....	32.92	1.6	40.5	32.98	1.6	40.6	-	-	-
13 .....	38.85	2.7	40.0	38.85	2.7	40.0	-	-	-
Not able to be leveled .....	33.00	13.7	41.1	33.00	13.7	41.1	-	-	-
Architects .....	23.42	8.0	40.0	-	-	-	-	-	-

See footnotes at end of table.

Table 6. Occupations<sup>1</sup> and levels,<sup>2</sup> East North Central: Mean hourly earnings<sup>3</sup> and weekly hours, private industry and State and local government, National Compensation Survey,<sup>4</sup> 1998–Continued

Occupations and levels	Total			Private industry			State and local government		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)	
<b>White collar –Continued</b>									
<b>Professional specialty and technical –Continued</b>									
Professional specialty –Continued									
Engineers, architects, and surveyors –Continued									
Metallurgical and materials engineers .....	\$29.95	8.3	40.5	\$29.95	8.3	40.5	–	–	–
Civil engineers .....	25.43	3.6	39.4	24.23	3.6	40.0	\$26.76	5.8	38.8
9 .....	25.45	4.3	40.0	24.48	4.7	40.0	–	–	–
Electrical and electronic engineers .....	28.69	3.3	40.3	29.40	3.6	40.3	–	–	–
8 .....	21.35	1.9	40.3	21.35	1.9	40.3	–	–	–
9 .....	24.64	2.7	40.4	24.70	2.8	40.4	–	–	–
10 .....	26.49	3.4	40.3	26.49	3.4	40.3	–	–	–
11 .....	29.11	3.1	40.1	31.54	4.5	40.2	–	–	–
12 .....	36.16	4.7	40.5	36.16	4.7	40.5	–	–	–
Industrial engineers .....	25.90	2.1	40.3	25.90	2.1	40.3	–	–	–
7 .....	19.81	2.5	39.7	19.81	2.5	39.7	–	–	–
8 .....	21.15	2.1	38.8	21.15	2.1	38.8	–	–	–
9 .....	24.67	3.8	40.1	24.67	3.8	40.1	–	–	–
10 .....	29.09	5.8	41.4	29.09	5.8	41.4	–	–	–
11 .....	26.88	3.2	39.8	26.90	3.2	39.8	–	–	–
12 .....	28.54	3.0	41.0	28.54	3.0	41.0	–	–	–
Mechanical engineers .....	25.92	2.3	40.3	25.91	2.3	40.3	–	–	–
7 .....	20.42	5.5	40.0	20.42	5.5	40.0	–	–	–
8 .....	21.74	1.0	40.8	21.74	1.0	40.8	–	–	–
9 .....	23.43	2.2	40.2	23.44	2.2	40.2	–	–	–
10 .....	25.92	5.4	39.8	25.55	5.6	40.0	–	–	–
11 .....	29.86	3.3	40.8	29.86	3.3	40.8	–	–	–
12 .....	32.60	4.9	40.0	32.60	4.9	40.0	–	–	–
Engineers, n.e.c. ....	29.58	1.8	40.3	29.69	1.8	40.3	–	–	–
7 .....	19.58	4.1	40.0	19.44	4.3	40.0	–	–	–
8 .....	22.28	5.8	40.0	22.28	5.8	40.0	–	–	–
9 .....	25.01	2.0	40.2	25.21	1.9	40.3	–	–	–
11 .....	30.83	1.7	40.8	30.83	1.7	40.8	–	–	–
12 .....	33.51	1.5	40.4	33.51	1.5	40.4	–	–	–
Mathematical and computer scientists .....	27.37	2.3	39.8	27.62	2.3	39.8	20.28	6.9	38.5
6 .....	17.03	5.1	38.8	17.72	5.1	39.9	–	–	–
7 .....	18.76	5.1	39.3	18.00	4.2	39.4	–	–	–
8 .....	18.93	2.5	39.9	19.05	2.8	40.2	–	–	–
9 .....	25.33	1.4	39.8	25.36	1.4	39.8	22.77	4.3	39.7
10 .....	28.56	2.1	40.3	28.59	2.1	40.3	–	–	–
11 .....	31.52	2.4	39.7	31.52	2.4	39.7	–	–	–
12 .....	34.77	2.3	39.9	34.76	2.4	39.9	–	–	–
Not able to be leveled .....	27.75	5.5	39.2	27.75	5.5	39.2	–	–	–
Computer systems analysts and scientists .....	27.01	2.3	39.9	27.38	2.3	40.0	19.30	5.3	38.4
7 .....	18.46	7.5	39.5	16.90	2.8	39.7	–	–	–
8 .....	18.75	2.8	40.0	18.85	3.4	40.3	–	–	–
9 .....	24.95	1.7	40.1	24.99	1.8	40.1	22.77	4.3	39.7
10 .....	28.40	2.3	40.5	28.44	2.3	40.5	–	–	–
11 .....	31.29	2.2	39.7	31.29	2.2	39.7	–	–	–
12 .....	33.95	3.2	40.2	34.03	3.2	40.2	–	–	–
Not able to be leveled .....	27.55	6.6	39.1	27.55	6.6	39.1	–	–	–
Operations and systems researchers and analysts .....	27.76	5.1	39.5	27.70	5.1	39.5	–	–	–
6 .....	17.36	5.3	39.9	17.36	5.3	39.9	–	–	–
7 .....	19.24	7.3	39.2	19.25	7.4	39.2	–	–	–
8 .....	19.83	4.0	39.7	19.83	4.0	39.7	–	–	–
9 .....	26.14	3.7	39.2	26.14	3.7	39.2	–	–	–
11 .....	32.28	5.3	39.8	32.28	5.3	39.8	–	–	–
Actuaries .....	37.07	7.2	38.3	37.07	7.2	38.3	–	–	–
Natural scientists .....	23.28	5.8	39.1	25.86	6.5	39.2	16.79	10.8	38.9
6 .....	14.68	4.0	40.0	14.40	4.8	40.0	–	–	–
8 .....	19.56	15.7	39.1	–	–	–	–	–	–
9 .....	22.60	3.2	40.0	23.57	3.5	40.0	21.42	2.7	39.9

See footnotes at end of table.

Table 6. Occupations<sup>1</sup> and levels,<sup>2</sup> East North Central: Mean hourly earnings<sup>3</sup> and weekly hours, private industry and State and local government, National Compensation Survey,<sup>4</sup> 1998—Continued

Occupations and levels	Total			Private industry			State and local government		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)	
<b>White collar—Continued</b>									
<b>Professional specialty and technical—Continued</b>									
Professional specialty—Continued									
Natural scientists—Continued									
11 .....	\$29.33	6.1	40.6	\$29.47	6.2	40.6	—	—	—
12 .....	36.09	7.2	40.9	36.09	7.2	40.9	—	—	—
13 .....	23.02	24.7	38.4	—	—	—	—	—	—
Chemists, except biochemists .....	28.65	5.8	40.2	28.67	5.8	40.2	—	—	—
9 .....	24.21	5.0	40.0	24.20	5.1	40.0	—	—	—
11 .....	30.60	5.0	40.0	30.60	5.0	40.0	—	—	—
Physical scientists, n.e.c. ....	24.24	7.8	40.0	29.00	8.2	40.1	—	—	—
Biological and life scientists .....	23.61	6.6	35.6	—	—	—	\$19.92	6.8	29.9
9 .....	24.29	3.1	40.0	—	—	—	—	—	—
Medical scientists .....	14.67	14.3	39.1	—	—	—	—	—	—
Health related .....	22.24	1.4	33.2	22.01	1.2	32.7	23.43	4.9	35.9
5 .....	12.82	3.9	30.6	13.46	7.6	28.1	—	—	—
6 .....	17.33	3.8	33.3	17.79	3.4	32.3	15.42	5.4	37.8
7 .....	18.34	3.5	33.7	18.60	2.5	32.9	17.16	8.8	37.7
8 .....	19.87	1.7	31.7	19.56	1.1	31.4	22.19	9.0	33.4
9 .....	20.50	1.8	33.0	19.91	1.5	32.7	23.76	5.4	34.8
10 .....	23.69	4.6	37.4	25.18	2.9	36.2	19.32	14.6	41.6
11 .....	26.12	3.6	32.7	26.17	3.8	32.7	25.48	9.6	31.8
12 .....	54.39	8.4	36.3	55.05	8.3	36.2	—	—	—
13 .....	53.45	9.5	34.8	64.48	7.1	27.2	—	—	—
Not able to be leveled .....	25.25	12.5	39.6	23.93	14.0	39.3	32.08	23.1	41.2
Physicians .....	43.76	10.5	39.1	46.10	12.6	38.1	37.84	13.8	41.9
12 .....	59.20	7.5	35.9	59.20	7.5	35.9	—	—	—
13 .....	53.45	9.5	34.8	64.48	7.1	27.2	—	—	—
Not able to be leveled .....	26.95	13.7	40.2	25.65	15.8	40.0	32.08	23.1	41.2
Registered nurses .....	19.69	1.2	32.5	19.58	.8	32.1	20.41	5.4	35.0
6 .....	18.60	3.5	32.8	18.63	3.6	32.6	—	—	—
7 .....	18.33	4.1	33.9	18.64	2.8	33.3	16.85	10.4	37.4
8 .....	19.66	1.9	31.4	19.33	1.0	31.3	22.38	10.6	32.8
9 .....	19.41	1.4	32.4	19.15	1.4	32.0	21.00	3.1	35.1
10 .....	24.04	3.5	35.2	24.10	3.9	34.6	—	—	—
11 .....	28.41	5.9	34.3	28.47	6.2	34.8	27.56	12.2	28.6
Pharmacists .....	27.31	1.6	31.4	27.62	1.4	30.7	—	—	—
8 .....	28.69	3.1	26.5	28.69	3.1	26.5	—	—	—
9 .....	25.90	3.0	36.9	26.50	2.7	35.9	—	—	—
10 .....	28.87	2.2	40.0	28.87	2.2	40.0	—	—	—
11 .....	27.63	2.7	27.4	27.63	2.7	27.4	—	—	—
Dietitians .....	16.54	2.6	34.5	16.17	3.8	33.5	17.46	2.4	37.3
7 .....	16.50	4.3	32.1	16.13	9.1	25.7	—	—	—
8 .....	18.00	2.1	35.8	—	—	—	—	—	—
9 .....	18.43	4.4	36.6	18.55	4.8	36.5	—	—	—
Respiratory therapists .....	16.66	1.7	33.5	16.63	1.8	33.3	—	—	—
6 .....	16.39	2.1	31.2	16.27	2.3	30.4	—	—	—
7 .....	17.55	2.5	37.7	17.55	2.5	37.7	—	—	—
8 .....	16.11	3.7	38.9	16.11	3.7	38.9	—	—	—
Occupational therapists .....	25.30	5.5	31.6	25.22	5.7	33.2	—	—	—
7 .....	22.70	11.4	27.5	22.70	11.4	27.5	—	—	—
9 .....	23.96	6.5	28.4	23.39	5.1	31.1	—	—	—
Physical therapists .....	24.08	5.5	34.4	23.52	5.7	34.9	—	—	—
7 .....	21.18	4.8	40.0	21.18	4.8	40.0	—	—	—
9 .....	25.84	3.9	35.1	25.32	3.3	34.8	—	—	—
11 .....	30.30	6.7	24.3	—	—	—	—	—	—
Speech therapists .....	25.96	7.0	32.8	21.96	3.9	32.4	33.49	7.8	33.6
9 .....	27.27	9.4	35.3	21.05	6.2	35.3	35.68	8.0	35.5
Therapists, n.e.c. ....	16.28	5.6	36.9	16.90	5.1	36.4	15.60	9.3	37.5
7 .....	16.65	6.4	34.3	14.42	6.4	31.8	—	—	—
8 .....	18.25	8.8	37.1	18.31	10.1	36.9	—	—	—
9 .....	18.38	8.3	39.3	17.27	8.3	39.2	—	—	—

See footnotes at end of table.

Table 6. Occupations<sup>1</sup> and levels,<sup>2</sup> East North Central: Mean hourly earnings<sup>3</sup> and weekly hours, private industry and State and local government, National Compensation Survey,<sup>4</sup> 1998–Continued

Occupations and levels	Total			Private industry			State and local government		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)	
<b>White collar –Continued</b>									
<b>Professional specialty and technical –Continued</b>									
Professional specialty –Continued									
Health related –Continued									
Physicians' assistants .....	\$26.25	15.4	36.3	\$26.25	15.4	36.3	–	–	–
Teachers, college and university .....	35.35	4.1	34.6	35.71	7.6	36.9	\$35.15	4.5	33.4
5 .....	15.09	6.4	22.7	–	–	–	–	–	–
7 .....	23.04	20.6	25.3	–	–	–	24.50	23.2	27.5
8 .....	37.89	6.9	23.4	–	–	–	37.35	4.6	23.7
9 .....	26.89	10.0	22.9	22.43	10.0	18.5	27.59	11.7	23.8
10 .....	22.70	7.1	33.1	21.47	4.8	34.4	32.32	4.0	25.4
11 .....	32.03	9.1	35.9	30.93	18.1	35.4	33.11	5.0	36.4
12 .....	34.29	5.4	39.4	33.05	5.3	40.7	35.11	6.7	38.5
13 .....	40.04	1.5	41.2	45.73	3.2	47.2	37.98	.9	39.4
14 .....	55.23	6.5	43.5	50.78	4.5	50.6	–	–	–
15 .....	63.57	8.5	43.5	–	–	–	–	–	–
Biological science teachers .....	33.69	8.2	38.0	30.26	6.9	37.7	–	–	–
Chemistry teachers .....	34.70	7.9	31.8	–	–	–	–	–	–
Psychology teachers .....	34.52	13.8	30.2	–	–	–	–	–	–
History teachers .....	26.47	11.3	43.6	–	–	–	–	–	–
Social science teachers, n.e.c. ....	30.13	3.9	40.2	–	–	–	–	–	–
Engineering teachers .....	51.64	19.9	38.7	34.88	5.5	37.9	54.43	19.0	38.8
9 .....	22.65	11.4	33.9	–	–	–	–	–	–
11 .....	29.44	8.1	40.3	34.32	8.6	40.6	–	–	–
Mathematical science teachers .....	39.39	1.8	35.9	30.11	13.8	36.1	40.91	.7	35.8
13 .....	42.57	.8	39.0	–	–	–	–	–	–
Medical science teachers .....	42.94	11.9	47.2	43.19	12.0	47.6	–	–	–
13 .....	46.80	5.1	58.8	–	–	–	–	–	–
Health specialties teachers .....	35.56	8.7	40.4	–	–	–	30.81	10.3	36.1
11 .....	36.44	3.1	36.8	–	–	–	–	–	–
Business, commerce, and marketing teachers ..	33.69	12.2	22.8	36.15	17.7	20.1	31.65	13.7	25.7
9 .....	24.10	14.0	21.4	–	–	–	–	–	–
Art, drama, and music teachers .....	29.44	9.1	34.0	32.02	13.0	31.5	–	–	–
12 .....	35.38	11.6	39.8	–	–	–	–	–	–
Physical education teachers .....	26.59	2.0	34.5	–	–	–	–	–	–
Education teachers .....	35.35	8.3	37.0	27.88	5.7	36.8	–	–	–
English teachers .....	32.93	9.3	38.3	29.90	17.8	34.4	33.29	9.9	38.8
11 .....	29.41	5.6	39.2	–	–	–	–	–	–
12 .....	28.45	1.5	39.9	–	–	–	–	–	–
Foreign language teachers .....	25.17	10.5	40.4	25.23	10.7	40.4	–	–	–
Theology teachers .....	27.58	12.8	39.9	25.59	9.9	40.0	–	–	–
Teachers, post secondary, subject not specified	26.79	14.8	16.8	33.62	15.0	23.6	19.50	10.2	12.8
9 .....	19.98	12.2	13.4	26.91	16.4	20.4	–	–	–
Teachers, post secondary, n.e.c. ....	32.54	10.3	27.1	35.58	26.0	28.6	31.08	6.4	26.4
8 .....	40.24	15.4	17.2	–	–	–	–	–	–
9 .....	32.72	5.8	18.8	–	–	–	35.08	3.5	20.0
11 .....	38.60	23.3	31.2	50.43	32.2	30.1	30.11	14.0	31.9
12 .....	41.14	9.9	37.3	–	–	–	–	–	–
13 .....	41.62	3.0	34.5	–	–	–	–	–	–
Teachers, except college and university .....	28.02	1.9	33.6	16.04	3.4	32.4	29.34	2.1	33.7
4 .....	9.47	6.6	25.8	–	–	–	–	–	–
5 .....	12.08	13.3	27.4	9.41	9.7	33.5	14.47	17.9	23.6
6 .....	25.63	11.4	29.0	12.99	5.0	27.3	30.30	11.1	29.7
7 .....	23.80	6.0	34.0	18.00	5.4	37.1	24.51	6.7	33.7
8 .....	30.48	4.2	32.8	16.85	3.9	31.7	32.06	4.2	32.9
9 .....	30.24	2.0	34.9	21.65	4.4	34.3	30.63	2.1	35.0
10 .....	35.84	7.3	38.6	–	–	–	–	–	–
11 .....	30.67	8.8	35.6	–	–	–	32.67	8.0	34.4
Prekindergarten and kindergarten .....	17.44	9.5	34.3	9.39	8.3	34.6	27.66	6.1	33.8
5 .....	8.40	7.0	32.9	8.37	7.1	33.7	–	–	–
6 .....	12.50	19.2	36.7	10.41	14.7	38.3	–	–	–
7 .....	23.46	1.7	37.3	–	–	–	–	–	–

See footnotes at end of table.

Table 6. Occupations<sup>1</sup> and levels,<sup>2</sup> East North Central: Mean hourly earnings<sup>3</sup> and weekly hours, private industry and State and local government, National Compensation Survey,<sup>4</sup> 1998—Continued

Occupations and levels	Total			Private industry			State and local government		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)	
<b>White collar</b> —Continued									
<b>Professional specialty and technical</b> —Continued									
Professional specialty—Continued									
Teachers, except college and university—Continued									
Prekindergarten and kindergarten—Continued									
8 .....	\$31.87	10.0	33.7	—	—	—	\$31.98	9.9	33.9
9 .....	29.18	3.3	33.0	\$19.18	10.1	33.3	30.02	3.5	33.0
Elementary school teachers .....	29.64	2.6	35.0	19.01	5.1	35.6	30.21	2.7	35.0
5 .....	25.20	29.7	35.6	—	—	—	—	—	—
6 .....	31.11	11.3	33.7	—	—	—	32.00	11.8	33.6
7 .....	25.64	8.2	36.0	21.18	2.9	36.8	25.80	8.5	36.0
8 .....	31.36	3.1	33.8	—	—	—	33.78	2.6	33.4
9 .....	30.40	3.0	35.1	20.81	9.4	34.1	30.76	3.1	35.1
Secondary school teachers .....	30.33	3.2	35.8	21.45	4.2	37.1	31.25	3.4	35.7
6 .....	31.35	14.5	36.0	—	—	—	36.72	11.0	35.6
7 .....	24.06	7.9	37.0	21.42	5.4	37.0	24.53	9.2	37.0
8 .....	36.15	6.1	34.5	—	—	—	37.36	6.1	34.3
9 .....	30.18	2.5	36.1	23.71	5.4	37.4	30.66	2.6	36.0
Teachers, special education .....	27.64	4.2	35.4	—	—	—	28.88	4.8	35.1
7 .....	25.11	6.0	36.1	—	—	—	27.53	5.6	35.8
8 .....	24.90	9.5	34.7	—	—	—	24.90	9.5	34.7
9 .....	29.42	4.1	35.4	—	—	—	30.46	4.0	35.1
Teachers, n.e.c. ....	27.40	3.2	30.6	15.49	9.6	23.0	28.56	3.4	31.7
4 .....	9.08	8.7	27.9	—	—	—	—	—	—
5 .....	10.68	12.4	27.3	14.55	20.2	31.9	8.56	2.5	25.3
6 .....	15.21	6.2	14.8	—	—	—	16.36	5.1	16.6
7 .....	20.40	16.1	22.7	15.05	8.9	36.9	24.21	15.3	17.8
8 .....	26.29	16.1	26.9	15.84	23.9	14.9	27.29	16.3	29.2
9 .....	30.62	3.7	33.7	—	—	—	30.80	3.8	33.9
Substitute teachers .....	11.33	7.9	14.9	9.65	2.6	7.7	11.41	8.2	15.6
5 .....	9.91	3.8	17.3	—	—	—	9.89	3.9	17.3
6 .....	9.42	2.1	9.2	—	—	—	9.37	2.9	10.6
7 .....	10.96	14.6	10.7	8.00	6.7	12.2	11.04	14.9	10.7
Vocational and educational counselors .....	22.33	6.4	36.4	15.59	6.1	39.5	23.93	7.9	35.7
5 .....	15.08	16.4	30.8	—	—	—	—	—	—
7 .....	14.32	1.9	39.8	14.28	5.0	39.7	14.33	1.5	39.9
8 .....	20.53	12.7	35.6	—	—	—	21.56	16.4	34.6
9 .....	30.51	3.7	36.1	—	—	—	30.70	3.8	36.0
Librarians, archivists, and curators .....	21.18	5.2	34.7	20.82	9.8	32.3	21.35	6.1	35.9
5 .....	15.29	19.8	35.4	11.26	1.3	36.3	—	—	—
6 .....	12.78	6.3	35.3	—	—	—	13.58	4.3	35.0
7 .....	15.09	6.1	33.1	—	—	—	15.06	6.9	32.6
8 .....	19.36	12.2	36.7	—	—	—	20.49	14.6	36.0
9 .....	22.32	5.2	31.5	20.41	4.7	24.2	23.17	7.2	36.3
10 .....	18.42	6.0	38.3	—	—	—	19.23	8.9	35.8
11 .....	28.15	7.4	37.2	—	—	—	25.46	5.1	36.8
Librarians .....	21.05	4.8	35.1	17.92	4.2	32.4	22.39	5.3	36.4
5 .....	20.79	15.2	35.2	—	—	—	—	—	—
6 .....	12.58	6.7	35.0	—	—	—	13.58	4.3	35.0
7 .....	15.09	6.1	33.1	—	—	—	15.06	6.9	32.6
8 .....	19.71	15.7	35.8	—	—	—	21.92	17.6	34.4
9 .....	22.35	5.2	32.4	20.38	4.6	25.9	23.17	7.2	36.3
10 .....	17.91	5.1	38.6	—	—	—	17.80	6.0	35.8
11 .....	25.20	5.9	39.5	—	—	—	25.93	3.8	39.6
Archivists and curators .....	21.81	20.2	32.9	31.31	18.1	31.8	15.65	12.7	33.7
Social scientists and urban planners .....	21.47	8.2	35.8	21.26	6.3	36.3	21.75	16.9	35.1
7 .....	19.66	5.4	39.8	—	—	—	—	—	—
8 .....	19.49	4.3	28.6	—	—	—	—	—	—
9 .....	24.01	12.6	38.7	16.58	10.2	39.6	30.19	9.1	38.0
10 .....	23.68	6.8	38.6	—	—	—	—	—	—
11 .....	27.94	11.2	31.8	26.28	9.7	30.8	—	—	—

See footnotes at end of table.

Table 6. Occupations<sup>1</sup> and levels,<sup>2</sup> East North Central: Mean hourly earnings<sup>3</sup> and weekly hours, private industry and State and local government, National Compensation Survey,<sup>4</sup> 1998–Continued

Occupations and levels	Total			Private industry			State and local government		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)	
<b>White collar –Continued</b>									
<b>Professional specialty and technical –Continued</b>									
Professional specialty –Continued									
Social scientists and urban planners –Continued									
Economists .....	\$22.55	6.9	40.0	\$22.96	6.9	40.0	–	–	–
Psychologists .....	23.61	10.7	35.6	17.86	9.8	34.1	\$30.80	8.4	37.8
9 .....	25.35	18.3	38.0	13.74	3.8	39.4	–	–	–
11 .....	26.80	17.4	33.3	–	–	–	–	–	–
Social scientists, n.e.c. ....	14.96	22.3	36.2	–	–	–	–	–	–
Urban planners .....	20.00	5.5	23.0	–	–	–	20.00	5.5	23.0
9 .....	21.17	5.0	40.3	–	–	–	21.17	5.0	40.3
Social, recreation, and religious workers .....	15.75	3.0	37.6	13.63	2.3	37.7	17.99	4.5	37.4
4 .....	7.97	3.5	19.4	–	–	–	–	–	–
5 .....	11.80	3.2	38.3	10.54	4.0	38.1	12.53	3.8	38.3
6 .....	13.65	5.4	38.5	10.82	3.5	38.9	16.59	3.9	38.1
7 .....	14.17	2.1	37.9	13.74	3.1	37.9	14.93	2.6	37.8
8 .....	16.40	5.1	38.0	13.14	5.3	37.8	18.00	4.3	38.1
9 .....	16.80	2.6	38.1	15.49	3.2	37.3	19.02	3.8	39.7
10 .....	18.00	8.6	36.9	15.64	9.1	36.7	21.64	9.3	37.1
11 .....	26.70	14.6	34.7	19.21	10.9	34.8	34.95	10.5	34.6
Social workers .....	15.97	3.1	38.0	13.70	2.3	37.6	18.37	4.7	38.3
5 .....	12.12	3.0	38.4	10.79	5.9	38.4	12.79	3.7	38.4
6 .....	13.56	6.0	38.6	10.82	4.3	38.9	16.68	4.5	38.3
7 .....	14.19	2.1	38.1	13.76	3.1	37.9	14.97	2.7	38.3
8 .....	16.69	5.0	38.0	13.72	4.6	37.7	18.01	4.3	38.1
9 .....	16.55	2.5	38.1	14.94	2.1	37.1	19.02	3.8	39.7
10 .....	17.97	8.7	36.8	15.64	9.1	36.7	21.66	9.5	37.1
11 .....	27.08	14.6	34.6	19.59	11.3	34.6	34.95	10.5	34.6
Recreation workers .....	11.56	12.6	31.5	9.26	11.6	39.1	12.86	12.5	28.4
6 .....	14.16	10.4	38.1	–	–	–	–	–	–
Clergy .....	17.46	13.3	37.8	17.94	14.3	39.6	–	–	–
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	45.52	9.7	41.9	27.74	6.1	36.2
10 .....	31.30	12.6	28.9	–	–	–	–	–	–
11 .....	26.18	9.3	38.7	–	–	–	23.15	5.6	38.0
12 .....	37.27	10.1	42.4	39.07	13.3	43.8	32.52	5.2	39.2
Lawyers .....	35.60	8.6	39.3	45.52	9.7	41.9	27.65	6.5	37.5
11 .....	26.18	9.3	38.7	–	–	–	23.15	5.6	38.0
12 .....	37.27	10.1	42.4	39.07	13.3	43.8	32.52	5.2	39.2
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	21.53	4.5	37.4	27.31	7.7	34.1
5 .....	15.06	5.0	32.1	15.15	5.1	38.0	–	–	–
6 .....	13.68	5.0	39.2	13.59	5.3	39.8	–	–	–
7 .....	18.91	4.8	39.0	18.39	3.9	38.9	22.64	21.1	40.0
8 .....	21.08	4.9	37.2	21.19	4.9	37.2	–	–	–
9 .....	21.91	3.3	38.6	21.92	3.4	38.6	–	–	–
10 .....	22.61	9.6	40.3	23.57	12.6	40.4	–	–	–
11 .....	34.46	12.6	34.2	34.85	13.3	33.8	–	–	–
12 .....	33.17	6.1	39.6	33.17	6.1	39.6	–	–	–
Not able to be leveled .....	23.60	7.2	35.1	20.62	10.3	34.6	30.34	7.1	36.2
Technical writers .....	19.09	5.5	38.7	19.09	5.5	38.7	–	–	–
Designers .....	24.11	8.0	39.5	24.27	8.1	39.8	–	–	–
6 .....	17.19	4.2	37.3	17.38	2.8	39.4	–	–	–
7 .....	19.71	6.5	39.7	19.71	6.5	39.7	–	–	–
8 .....	21.36	4.0	40.0	21.36	4.0	40.0	–	–	–
9 .....	21.58	4.6	41.0	21.58	4.6	41.0	–	–	–
Actors and directors .....	22.39	19.8	39.3	22.39	19.8	39.3	–	–	–
Not able to be leveled .....	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	–	–	–
Not able to be leveled .....	15.09	5.5	38.8	15.09	5.5	38.8	–	–	–

See footnotes at end of table.



Table 6. Occupations <sup>1</sup> and levels,<sup>2</sup> East North Central: Mean hourly earnings<sup>3</sup> and weekly hours, private industry and State and local government, National Compensation Survey,<sup>4</sup> 1998–Continued

Occupations and levels	Total			Private industry			State and local government		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)	
<b>White collar –Continued</b>									
<b>Professional specialty and technical –Continued</b>									
Professional specialty –Continued									
Writers, authors, entertainers, athletes, and professionals, n.e.c. –Continued									
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	12.31	5.4	25.3	–	–	–
Not able to be leveled .....	12.71	5.3	27.0	12.31	5.4	25.3	–	–	–
Editors and reporters .....	20.47	12.3	38.4	20.52	12.3	38.4	–	–	–
6 .....	12.31	9.0	40.3	12.31	9.0	40.3	–	–	–
7 .....	16.30	5.1	38.8	16.30	5.1	38.8	–	–	–
9 .....	20.51	3.3	38.6	20.53	3.4	38.8	–	–	–
Public relations specialists .....	22.23	10.2	32.6	22.00	14.1	34.5	\$22.76	11.1	29.0
7 .....	21.99	21.9	37.8	–	–	–	–	–	–
8 .....	15.09	4.0	20.3	–	–	–	–	–	–
9 .....	21.91	10.6	35.5	21.91	10.7	35.5	–	–	–
Athletes .....	26.32	16.6	32.7	18.16	11.7	29.2	30.84	8.6	35.0
Not able to be leveled .....	26.32	16.6	32.7	18.16	11.7	29.2	30.84	8.6	35.0
Professional, n.e.c. ....	22.81	6.0	38.5	21.58	3.7	38.3	28.47	13.6	39.8
7 .....	17.57	3.4	38.8	–	–	–	–	–	–
8 .....	19.63	3.3	40.2	19.63	3.3	40.2	–	–	–
9 .....	23.97	5.4	39.6	24.01	5.5	39.6	–	–	–
11 .....	28.30	9.4	30.1	28.30	9.4	30.1	–	–	–
Not able to be leveled .....	25.74	10.6	39.5	22.31	8.4	39.2	–	–	–
Technical .....	18.17	2.0	36.7	18.46	2.1	36.5	15.92	5.1	37.8
2 .....	6.90	4.6	34.2	6.92	4.9	35.1	–	–	–
3 .....	9.59	2.5	30.5	9.61	2.8	30.4	9.45	3.6	30.8
4 .....	12.33	3.8	36.2	12.24	4.2	36.0	13.22	4.1	38.4
5 .....	13.00	2.4	34.7	13.22	2.7	34.2	11.77	4.0	37.4
6 .....	14.97	1.5	36.9	15.20	1.5	36.9	12.88	9.5	37.1
7 .....	17.97	1.6	37.5	18.07	1.8	37.4	17.11	3.0	38.2
8 .....	20.50	2.2	38.8	20.58	2.3	38.9	19.42	4.6	38.1
9 .....	22.91	2.2	39.2	23.47	2.1	39.2	21.09	1.4	39.2
10 .....	28.34	5.3	39.4	28.82	5.6	39.7	–	–	–
11 .....	52.33	14.4	32.9	52.33	14.4	32.9	–	–	–
Not able to be leveled .....	16.28	10.4	33.9	16.05	11.4	33.4	–	–	–
Clinical laboratory technologists and technicians .....	14.65	5.4	35.4	15.10	5.7	35.1	10.35	7.2	38.3
3 .....	9.56	1.8	31.7	9.49	2.1	29.9	–	–	–
4 .....	9.06	7.8	34.1	8.90	8.0	34.3	–	–	–
5 .....	11.53	10.1	37.7	13.53	4.5	35.7	–	–	–
6 .....	14.28	2.5	34.6	14.27	2.6	34.5	–	–	–
7 .....	15.69	4.6	37.6	15.70	4.7	37.8	–	–	–
8 .....	17.40	6.0	32.7	17.40	6.0	32.7	–	–	–
9 .....	19.77	4.7	38.1	19.80	4.8	38.1	–	–	–
Health record technologists and technicians .....	12.71	5.9	34.4	12.25	6.3	34.4	–	–	–
5 .....	12.03	7.1	29.8	12.03	7.1	29.8	–	–	–
Radiological technicians .....	16.49	2.7	32.7	16.54	2.8	32.5	15.17	4.6	38.1
5 .....	14.14	1.4	32.2	14.18	1.4	32.0	–	–	–
6 .....	15.19	3.8	35.1	15.19	4.1	35.0	–	–	–
7 .....	17.73	3.9	28.8	17.73	4.0	28.7	–	–	–
8 .....	19.06	3.0	38.5	19.06	3.0	38.5	–	–	–
Licensed practical nurses .....	12.86	2.4	33.7	12.84	2.6	33.4	12.97	5.0	36.7
4 .....	13.30	4.1	31.9	13.32	4.9	30.6	–	–	–
5 .....	12.15	4.8	31.7	12.11	5.0	31.6	12.80	2.7	33.7
6 .....	12.79	3.7	34.3	13.20	2.2	33.7	10.57	8.9	37.8
7 .....	13.71	1.9	36.4	13.42	1.3	36.4	16.23	6.9	36.6
Health technologists and technicians, n.e.c. ....	12.97	3.1	34.2	12.77	3.1	33.9	15.10	10.1	37.2
3 .....	9.30	4.1	28.2	9.27	4.3	27.6	–	–	–
4 .....	10.80	5.7	36.0	10.67	5.8	35.8	–	–	–
5 .....	11.99	3.4	31.3	11.99	3.6	31.4	–	–	–
6 .....	13.35	3.4	36.0	13.59	3.1	35.9	–	–	–

See footnotes at end of table.

Table 6. Occupations<sup>1</sup> and levels,<sup>2</sup> East North Central: Mean hourly earnings<sup>3</sup> and weekly hours, private industry and State and local government, National Compensation Survey,<sup>4</sup> 1998—Continued

Occupations and levels	Total			Private industry			State and local government		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)	
<b>White collar—Continued</b>									
<b>Professional specialty and technical—Continued</b>									
<b>Technical—Continued</b>									
Health technologists and technicians, n.e.c.—Continued									
7 .....	\$17.34	2.8	36.7	\$17.64	2.5	36.1	—	—	—
9 .....	21.66	9.5	39.9	—	—	—	—	—	—
Electrical and electronic technicians .....	19.70	2.2	39.6	19.82	2.3	39.6	\$15.53	11.0	38.8
5 .....	16.77	4.1	39.7	16.77	4.1	39.7	—	—	—
6 .....	16.25	6.9	39.9	16.21	7.3	40.1	—	—	—
7 .....	20.87	3.0	39.9	21.26	2.8	39.9	—	—	—
8 .....	19.26	2.2	40.0	19.27	2.2	40.0	—	—	—
9 .....	22.29	4.3	40.0	22.29	4.3	40.0	—	—	—
Industrial engineering technicians .....	17.12	4.1	40.6	17.12	4.1	40.6	—	—	—
Mechanical engineering technicians .....	20.34	4.4	40.2	20.34	4.4	40.2	—	—	—
7 .....	20.71	6.4	40.0	20.71	6.4	40.0	—	—	—
8 .....	23.13	6.6	40.0	23.13	6.6	40.0	—	—	—
Engineering technicians, n.e.c. ....	20.70	4.0	39.8	21.00	4.4	40.1	19.06	6.9	38.1
4 .....	12.52	7.9	40.0	11.88	8.6	40.0	—	—	—
5 .....	15.96	4.5	39.1	15.80	5.6	39.5	—	—	—
6 .....	16.78	6.0	39.4	17.67	4.2	39.2	—	—	—
7 .....	18.13	5.5	40.0	17.78	6.2	40.0	—	—	—
8 .....	23.59	4.1	40.4	23.76	4.2	40.5	—	—	—
9 .....	25.29	5.9	39.0	27.62	2.4	40.0	—	—	—
Drafters .....	18.10	5.1	38.6	18.11	5.1	38.6	—	—	—
4 .....	13.33	13.5	34.0	13.33	13.5	34.0	—	—	—
5 .....	13.94	4.2	39.8	13.94	4.2	39.8	—	—	—
6 .....	18.48	6.4	40.0	18.52	6.4	40.0	—	—	—
7 .....	19.08	1.9	40.1	19.08	1.9	40.1	—	—	—
8 .....	19.80	2.9	40.0	19.80	2.9	40.0	—	—	—
Surveying and mapping technicians .....	14.51	12.3	39.0	—	—	—	15.57	13.6	38.3
Biological technicians .....	16.32	17.1	39.9	17.22	19.0	39.9	—	—	—
Chemical technicians .....	16.37	4.6	39.0	16.39	4.9	39.0	—	—	—
6 .....	17.11	8.1	40.0	17.11	8.1	40.0	—	—	—
7 .....	18.03	4.8	37.0	18.09	5.1	36.7	—	—	—
Science technicians, n.e.c. ....	17.43	5.4	34.6	—	—	—	—	—	—
5 .....	15.40	6.7	39.9	14.93	7.2	39.9	—	—	—
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	11.83	12.5	39.2	—	—	—
Computer programmers .....	22.00	2.2	39.4	22.10	2.3	39.5	20.48	8.3	38.4
6 .....	18.18	7.1	40.0	18.04	7.8	40.0	—	—	—
8 .....	22.14	2.6	38.9	—	—	—	—	—	—
9 .....	23.98	4.1	39.7	24.03	4.3	39.7	—	—	—
10 .....	30.19	6.0	40.0	30.19	6.0	40.0	—	—	—
Legal assistants .....	18.62	4.2	38.4	19.86	3.8	38.5	—	—	—
7 .....	17.98	4.9	38.7	17.98	4.9	38.7	—	—	—
Technical and related, n.e.c. ....	20.25	2.2	39.0	21.57	3.0	39.4	17.27	10.2	38.0
4 .....	14.42	8.3	39.1	14.48	8.4	39.1	—	—	—
5 .....	12.83	5.8	38.6	14.05	6.3	39.6	11.72	.3	37.8
6 .....	15.31	5.8	36.9	14.71	5.9	38.2	17.67	4.7	32.8
7 .....	18.18	2.1	39.6	18.40	2.7	40.2	17.68	2.9	38.3
8 .....	20.75	6.4	39.4	20.98	8.1	40.0	20.04	6.5	37.9
9 .....	22.48	4.1	40.0	24.33	3.0	39.9	—	—	—
10 .....	25.25	3.7	40.0	25.25	3.7	40.0	—	—	—
<b>Executive, administrative, and managerial .....</b>	27.76	1.5	39.9	28.08	1.7	40.3	25.97	2.0	37.7
5 .....	14.06	2.6	38.6	14.13	2.7	38.8	13.68	9.2	37.6
6 .....	15.84	2.4	39.7	15.61	2.6	39.9	17.21	6.2	38.3
7 .....	17.15	1.9	39.9	17.21	2.2	40.0	16.85	3.3	39.5
8 .....	18.37	1.4	40.3	18.06	1.4	40.4	20.17	3.7	39.8
9 .....	23.35	1.2	39.9	23.44	1.4	40.2	22.92	2.6	38.7
10 .....	27.68	2.8	39.8	27.94	3.2	40.3	26.13	3.3	37.3

See footnotes at end of table.

Table 6. Occupations<sup>1</sup> and levels,<sup>2</sup> East North Central: Mean hourly earnings<sup>3</sup> and weekly hours, private industry and State and local government, National Compensation Survey,<sup>4</sup> 1998—Continued

Occupations and levels	Total			Private industry			State and local government		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)	
<b>White collar—Continued</b>									
<b>Executive, administrative, and managerial—Continued</b>									
11 .....	\$30.71	1.1	40.0	\$30.42	1.3	40.1	\$32.20	2.3	39.4
12 .....	36.23	1.3	40.2	36.31	1.5	40.4	35.76	3.6	39.1
13 .....	47.89	4.7	40.9	48.16	5.1	41.1	45.20	7.7	38.8
14 .....	55.66	3.5	43.1	56.51	3.5	43.3	43.64	6.1	39.7
15 .....	75.50	8.7	40.9	75.50	8.9	41.0	—	—	—
Not able to be leveled .....	37.87	8.7	34.7	40.95	9.5	39.4	26.62	12.5	24.2
Executives, administrators, and managers .....	31.54	2.0	40.1	31.88	2.3	40.8	29.79	2.2	36.9
5 .....	13.07	5.4	36.2	13.37	7.4	35.4	—	—	—
6 .....	15.11	4.4	40.9	15.07	4.9	41.0	—	—	—
7 .....	16.16	3.5	41.1	15.98	4.3	41.6	16.67	4.6	39.8
8 .....	20.02	2.7	40.6	19.98	2.8	40.6	20.38	7.2	40.1
9 .....	23.17	2.0	40.1	22.96	2.3	40.5	24.18	3.7	38.2
10 .....	28.29	3.0	40.2	28.42	3.3	40.5	27.16	5.0	38.1
11 .....	30.31	1.4	40.3	29.60	1.7	40.5	33.11	2.0	39.3
12 .....	36.93	1.5	40.4	37.17	1.6	40.7	35.76	3.6	39.1
13 .....	46.57	6.0	41.4	46.75	6.7	41.8	45.20	7.7	38.8
14 .....	57.24	3.5	43.5	58.38	3.4	43.8	43.64	6.1	39.7
15 .....	80.40	7.6	41.1	80.53	7.8	41.1	—	—	—
Not able to be leveled .....	45.23	14.1	30.3	53.10	16.8	39.6	30.22	7.5	20.9
Legislators .....	18.16	24.0	4.9	—	—	—	18.16	24.0	4.9
Not able to be leveled .....	18.16	24.0	4.9	—	—	—	18.16	24.0	4.9
Administrators and officials, public administration .....	26.87	3.9	39.2	—	—	—	26.75	4.0	39.2
7 .....	17.34	5.4	39.9	—	—	—	17.34	5.4	39.9
9 .....	24.56	4.7	38.7	—	—	—	24.56	4.7	38.7
10 .....	24.63	4.8	40.2	—	—	—	24.63	4.8	40.2
11 .....	29.42	5.6	40.2	—	—	—	29.54	5.6	40.2
12 .....	30.91	4.2	40.2	—	—	—	31.27	4.4	40.2
13 .....	38.04	5.6	39.0	—	—	—	38.04	5.6	39.0
Not able to be leveled .....	32.91	6.7	36.9	—	—	—	32.05	6.5	36.8
Financial managers .....	29.87	3.4	40.2	29.92	3.4	40.2	25.54	6.0	39.7
7 .....	18.48	2.9	40.0	18.48	2.9	40.0	—	—	—
8 .....	18.97	5.7	39.1	18.97	5.7	39.1	—	—	—
9 .....	21.54	3.3	40.2	21.54	3.3	40.2	—	—	—
10 .....	27.85	3.3	40.1	27.86	3.4	40.2	—	—	—
11 .....	29.01	3.3	40.5	29.05	3.3	40.5	—	—	—
12 .....	38.90	3.7	40.8	39.07	3.7	40.8	—	—	—
13 .....	39.63	3.1	39.9	39.63	3.1	39.9	—	—	—
Personnel and labor relations managers .....	34.07	4.3	42.3	34.21	4.4	42.3	—	—	—
9 .....	24.56	6.6	39.1	24.22	6.9	38.9	—	—	—
11 .....	30.03	4.9	40.8	30.07	4.9	40.8	—	—	—
12 .....	38.11	5.2	39.9	38.26	5.4	39.9	—	—	—
Purchasing managers .....	29.41	7.7	40.6	29.45	7.7	40.6	—	—	—
9 .....	23.74	4.8	40.0	—	—	—	—	—	—
11 .....	27.51	4.6	39.8	27.51	4.6	39.8	—	—	—
12 .....	36.80	5.6	40.0	36.80	5.6	40.0	—	—	—
Managers, marketing, advertising, and public relations .....	36.34	4.2	40.9	36.49	4.3	41.0	—	—	—
9 .....	22.86	5.9	40.2	22.86	5.9	40.2	—	—	—
10 .....	29.58	8.9	40.0	29.58	8.9	40.0	—	—	—
11 .....	31.18	4.8	42.0	31.18	4.8	42.0	—	—	—
12 .....	40.36	4.8	40.6	40.37	4.8	40.6	—	—	—
13 .....	46.60	4.1	44.2	46.60	4.1	44.2	—	—	—
14 .....	55.23	9.1	41.8	55.23	9.1	41.8	—	—	—
Administrators, education and related fields .....	32.37	3.1	39.8	25.06	6.6	42.4	35.76	2.5	38.7
7 .....	13.76	3.8	39.0	—	—	—	—	—	—
8 .....	15.17	4.0	40.0	14.96	4.1	40.0	—	—	—
9 .....	25.11	7.0	38.4	18.81	5.1	36.5	27.89	9.0	39.3
10 .....	28.78	6.7	39.2	—	—	—	30.24	6.4	38.8

See footnotes at end of table.

Table 6. Occupations<sup>1</sup> and levels,<sup>2</sup> East North Central: Mean hourly earnings<sup>3</sup> and weekly hours, private industry and State and local government, National Compensation Survey,<sup>4</sup> 1998—Continued

Occupations and levels	Total			Private industry			State and local government		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)	
<b>White collar—Continued</b>									
<b>Executive, administrative, and managerial</b>									
—Continued									
Executives, administrators, and managers									
—Continued									
Administrators, education and related fields									
—Continued									
11 .....	\$34.22	1.9	39.0	\$22.57	7.1	38.9	\$36.25	1.3	39.0
12 .....	37.95	3.4	39.2	29.20	9.3	44.5	39.86	4.0	38.2
13 .....	38.58	4.9	40.7	37.14	3.8	41.8	40.99	7.1	38.9
14 .....	43.80	6.4	49.9	—	—	—	—	—	—
Managers, medicine and health .....	28.30	3.0	40.1	27.57	3.3	40.3	32.21	18.9	39.2
8 .....	18.79	4.7	40.0	17.97	2.9	40.0	—	—	—
9 .....	21.15	5.2	38.7	21.23	5.3	38.7	—	—	—
10 .....	23.10	4.2	41.7	23.10	4.2	41.7	—	—	—
11 .....	26.73	2.8	40.4	26.75	3.2	40.5	—	—	—
12 .....	32.16	2.1	40.0	33.24	4.2	40.0	—	—	—
13 .....	46.18	6.0	40.1	41.64	6.9	41.7	—	—	—
Managers, food servicing and lodging establishments .....	16.54	6.9	43.6	16.58	7.3	44.0	—	—	—
5 .....	12.35	6.7	30.6	—	—	—	—	—	—
6 .....	14.40	5.1	45.0	14.40	5.1	45.0	—	—	—
7 .....	14.64	4.8	45.2	14.64	4.8	45.2	—	—	—
8 .....	11.85	9.9	46.6	11.10	7.8	47.9	—	—	—
9 .....	16.60	4.8	48.3	16.60	4.8	48.3	—	—	—
Managers, properties and real estate .....	18.79	12.2	39.6	18.50	13.9	39.5	—	—	—
Managers, service organizations, n.e.c. ....	22.97	9.1	38.1	23.55	11.0	39.5	20.94	8.6	33.9
7 .....	11.60	5.1	40.0	—	—	—	—	—	—
8 .....	18.43	3.1	39.9	15.39	3.2	39.8	—	—	—
9 .....	20.89	5.0	35.5	21.27	5.8	40.4	19.86	6.5	26.7
11 .....	34.40	25.0	39.1	36.90	28.7	38.8	—	—	—
12 .....	36.81	6.7	40.6	37.64	6.7	40.7	—	—	—
Managers and administrators, n.e.c. ....	34.37	3.4	40.7	34.72	3.5	40.8	27.49	6.7	39.7
6 .....	16.67	15.4	40.3	16.87	16.3	40.3	—	—	—
7 .....	16.80	6.9	41.5	16.78	7.6	41.7	—	—	—
8 .....	22.73	2.5	40.2	22.94	2.7	40.1	19.78	3.1	41.5
9 .....	24.24	3.1	40.6	24.52	3.3	40.6	20.74	7.0	39.6
10 .....	30.40	4.3	40.2	30.53	4.3	40.4	—	—	—
11 .....	30.67	2.3	40.4	30.55	2.3	40.5	34.09	11.2	37.9
12 .....	36.64	2.1	40.7	36.72	2.2	40.8	—	—	—
13 .....	50.74	11.2	40.6	51.18	11.5	40.6	—	—	—
14 .....	59.63	3.6	43.2	59.85	3.6	43.3	—	—	—
15 .....	82.83	9.3	41.5	83.09	9.7	41.6	—	—	—
Not able to be leveled .....	56.90	29.3	40.0	56.90	29.3	40.0	—	—	—
Management related .....	23.04	1.2	39.6	23.49	1.3	39.7	20.19	2.6	39.0
5 .....	14.31	2.9	39.3	14.28	2.8	39.6	14.54	11.3	37.3
6 .....	16.01	2.8	39.4	15.74	3.0	39.7	17.43	6.8	38.1
7 .....	17.62	1.8	39.4	17.71	2.0	39.4	17.01	4.7	39.3
8 .....	17.51	5.5	40.2	16.98	6.0	40.3	20.10	6.3	39.7
9 .....	23.56	1.2	39.7	23.98	1.3	39.8	21.48	2.3	39.4
10 .....	26.60	5.7	39.2	26.97	7.0	39.9	25.19	3.8	36.6
11 .....	31.62	3.7	39.4	32.02	3.7	39.4	—	—	—
12 .....	31.87	3.1	39.3	31.87	3.1	39.3	—	—	—
14 .....	46.27	8.0	40.8	46.27	8.0	40.8	—	—	—
Not able to be leveled .....	32.03	6.7	39.3	33.83	5.7	39.3	—	—	—
Accountants and auditors .....	18.99	6.4	39.9	18.77	7.1	40.0	20.63	5.2	38.8
5 .....	15.95	4.8	39.7	15.94	4.9	39.7	—	—	—
6 .....	17.29	4.9	39.4	17.33	5.9	39.8	—	—	—
7 .....	17.63	3.8	39.4	17.77	4.0	39.4	—	—	—
8 .....	15.72	10.9	40.2	15.54	10.9	40.2	19.45	2.8	40.0
9 .....	21.49	2.4	39.9	21.66	2.7	40.1	20.94	5.1	39.0
10 .....	25.57	2.9	39.3	25.07	3.8	40.2	—	—	—

See footnotes at end of table.

Table 6. Occupations<sup>1</sup> and levels,<sup>2</sup> East North Central: Mean hourly earnings<sup>3</sup> and weekly hours, private industry and State and local government, National Compensation Survey,<sup>4</sup> 1998–Continued

Occupations and levels	Total			Private industry			State and local government		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)	
<b>White collar –Continued</b>									
<b>Executive, administrative, and managerial –Continued</b>									
Management related –Continued									
Accountants and auditors –Continued									
11 .....	\$26.38	5.2	40.0	\$26.38	5.2	40.0	–	–	–
Underwriters .....	28.50	7.3	38.8	28.50	7.3	38.8	–	–	–
7 .....	16.02	3.7	39.3	16.02	3.7	39.3	–	–	–
8 .....	18.16	2.3	38.6	18.16	2.3	38.6	–	–	–
Other financial officers .....	24.65	5.0	39.9	24.88	5.2	39.9	\$21.18	6.2	39.9
6 .....	16.18	7.2	39.5	16.18	7.2	39.5	–	–	–
7 .....	16.73	3.5	39.8	16.56	3.7	39.8	–	–	–
8 .....	18.19	4.3	40.5	18.03	4.5	40.5	–	–	–
9 .....	22.12	4.9	39.8	22.27	5.3	39.7	–	–	–
11 .....	27.56	6.6	40.2	28.17	7.1	40.2	–	–	–
12 .....	33.12	11.9	40.0	33.12	11.9	40.0	–	–	–
Management analysts .....	22.16	6.6	39.4	21.90	6.9	39.6	–	–	–
9 .....	26.38	4.4	39.9	26.68	5.5	39.8	–	–	–
Personnel, training, and labor relations specialists .....	22.90	2.8	39.1	23.55	3.0	39.1	19.39	4.9	39.1
5 .....	13.74	6.8	37.5	13.74	6.8	37.5	–	–	–
6 .....	14.68	3.1	39.8	14.54	1.2	40.0	–	–	–
7 .....	17.29	4.1	38.0	17.28	4.3	38.1	–	–	–
8 .....	17.90	3.7	39.8	17.91	4.7	39.7	–	–	–
9 .....	26.32	3.1	39.0	27.27	2.4	38.9	–	–	–
10 .....	24.23	2.4	38.9	24.71	2.7	39.7	–	–	–
11 .....	31.35	5.3	39.9	31.35	5.3	39.9	–	–	–
Buyers, wholesale and retail trade, except farm products .....	19.73	7.4	41.1	19.76	7.5	41.1	–	–	–
8 .....	20.72	12.2	40.9	20.72	12.2	40.9	–	–	–
9 .....	24.31	6.7	42.0	24.31	6.7	42.0	–	–	–
Purchasing agents and buyers, n.e.c. ....	26.41	2.5	39.9	26.52	2.5	39.9	–	–	–
5 .....	16.72	6.2	40.0	16.72	6.2	40.0	–	–	–
6 .....	17.70	4.5	39.8	–	–	–	–	–	–
7 .....	18.12	4.7	40.0	18.12	4.7	40.0	–	–	–
8 .....	19.46	6.0	40.2	18.06	1.8	40.3	–	–	–
9 .....	23.90	2.4	40.4	23.90	2.4	40.4	–	–	–
Construction inspectors .....	20.01	7.8	39.2	19.02	15.2	40.7	20.18	8.6	39.0
6 .....	16.72	5.4	39.5	–	–	–	–	–	–
7 .....	18.50	8.5	39.6	–	–	–	18.61	8.8	39.6
8 .....	23.44	7.1	39.5	–	–	–	23.66	6.7	39.2
Inspectors and compliance officers, except construction .....	18.95	4.5	39.6	23.16	8.0	41.1	17.93	2.6	39.2
7 .....	20.70	15.7	39.8	–	–	–	–	–	–
8 .....	18.52	3.8	40.4	–	–	–	18.43	3.8	40.0
9 .....	21.15	2.9	37.8	–	–	–	–	–	–
Management related, n.e.c. ....	25.20	2.5	39.5	25.80	2.9	39.6	21.11	5.9	39.1
5 .....	13.68	4.0	39.8	13.78	4.1	39.8	–	–	–
6 .....	16.38	4.8	38.9	15.80	3.5	39.4	20.28	19.3	36.0
7 .....	17.58	4.4	39.8	17.65	5.0	39.8	17.07	6.6	39.4
8 .....	18.63	3.6	40.7	18.64	3.9	40.9	18.52	7.4	39.1
9 .....	23.22	2.5	39.4	23.61	3.1	39.4	21.56	1.8	39.4
10 .....	25.94	3.0	39.8	25.97	3.0	39.8	–	–	–
11 .....	33.81	5.0	39.0	–	–	–	–	–	–
12 .....	31.57	4.1	39.1	31.57	4.1	39.1	–	–	–
Not able to be leveled .....	23.33	12.4	39.3	26.16	14.6	39.4	–	–	–
<b>Sales .....</b>	15.16	5.0	32.1	15.17	5.0	32.1	12.19	10.2	29.0
1 .....	6.37	1.5	25.2	6.37	1.5	25.3	6.37	6.9	20.3
2 .....	7.45	3.3	24.5	7.46	3.3	24.5	–	–	–
3 .....	8.24	2.3	28.1	8.18	2.4	28.1	13.36	11.3	30.6
4 .....	11.68	5.7	34.9	11.68	5.7	34.9	–	–	–

See footnotes at end of table.

Table 6. Occupations<sup>1</sup> and levels,<sup>2</sup> East North Central: Mean hourly earnings<sup>3</sup> and weekly hours, private industry and State and local government, National Compensation Survey,<sup>4</sup> 1998—Continued

Occupations and levels	Total			Private industry			State and local government		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)	
<b>White collar—Continued</b>									
<b>Sales—Continued</b>									
5 .....	\$16.47	12.4	38.7	\$16.46	12.4	38.7	—	—	—
6 .....	16.01	9.0	40.2	16.01	9.0	40.2	—	—	—
7 .....	21.62	5.5	42.3	21.62	5.5	42.3	—	—	—
8 .....	20.60	3.8	40.9	20.66	3.9	40.9	—	—	—
9 .....	32.33	16.9	40.0	32.33	16.9	40.0	—	—	—
10 .....	34.39	9.8	39.8	34.39	9.8	39.8	—	—	—
11 .....	35.63	8.3	40.7	35.63	8.3	40.7	—	—	—
12 .....	48.57	7.3	40.5	48.57	7.3	40.5	—	—	—
Not able to be leveled .....	22.61	23.7	35.5	22.61	23.7	35.5	—	—	—
Supervisors, sales .....	22.46	16.5	39.7	22.50	16.5	39.7	—	—	—
4 .....	9.18	4.7	33.3	9.18	4.7	33.3	—	—	—
5 .....	11.04	6.6	41.2	11.04	6.6	41.2	—	—	—
6 .....	13.26	3.5	41.3	13.26	3.5	41.3	—	—	—
7 .....	21.15	9.2	43.8	21.15	9.2	43.8	—	—	—
8 .....	20.05	7.5	40.4	20.21	7.8	40.4	—	—	—
9 .....	24.11	5.7	40.4	24.11	5.7	40.4	—	—	—
10 .....	36.45	17.2	40.5	36.45	17.2	40.5	—	—	—
11 .....	32.06	9.4	41.3	32.06	9.4	41.3	—	—	—
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	16.68	11.7	39.6	—	—	—
4 .....	9.95	6.0	34.2	9.95	6.0	34.2	—	—	—
6 .....	15.50	6.1	40.0	15.51	6.2	40.0	—	—	—
7 .....	17.76	4.8	39.8	17.76	4.8	39.8	—	—	—
8 .....	17.89	6.4	42.1	17.89	6.4	42.1	—	—	—
Sales, other business services .....	22.94	9.8	39.8	22.94	9.8	39.8	—	—	—
4 .....	18.30	19.4	40.0	18.30	19.4	40.0	—	—	—
5 .....	13.81	3.1	40.6	13.81	3.1	40.6	—	—	—
6 .....	23.16	29.8	39.5	23.16	29.8	39.5	—	—	—
7 .....	20.68	7.3	40.4	20.68	7.3	40.4	—	—	—
8 .....	22.93	9.5	40.0	22.98	9.6	40.0	—	—	—
9 .....	28.29	6.0	39.9	28.29	6.0	39.9	—	—	—
Sales engineers .....	29.28	7.8	41.9	29.28	7.8	41.9	—	—	—
11 .....	28.80	13.2	42.4	28.80	13.2	42.4	—	—	—
Sales representatives, mining, manufacturing, and wholesale .....	27.38	8.0	40.5	27.38	8.0	40.5	—	—	—
5 .....	30.64	28.4	41.6	30.64	28.4	41.6	—	—	—
6 .....	16.49	5.7	40.0	16.49	5.7	40.0	—	—	—
7 .....	29.77	15.8	40.9	29.77	15.8	40.9	—	—	—
8 .....	23.00	7.2	42.2	23.00	7.2	42.2	—	—	—
9 .....	29.93	10.3	40.6	29.93	10.3	40.6	—	—	—
10 .....	28.03	7.7	38.5	28.03	7.7	38.5	—	—	—
11 .....	38.58	7.1	40.2	38.58	7.1	40.2	—	—	—
Sales workers, motor vehicles and boats .....	19.96	6.0	44.4	19.96	6.0	44.4	—	—	—
4 .....	19.48	12.0	44.0	19.48	12.0	44.0	—	—	—
5 .....	19.56	18.9	45.2	19.56	18.9	45.2	—	—	—
7 .....	21.67	4.8	45.4	21.67	4.8	45.4	—	—	—
Sales workers, apparel .....	7.00	4.4	28.0	7.00	4.4	28.0	—	—	—
2 .....	6.95	3.7	26.0	6.95	3.7	26.0	—	—	—
3 .....	7.58	2.2	25.9	7.58	2.2	25.9	—	—	—
4 .....	9.26	3.6	37.3	9.26	3.6	37.3	—	—	—
Sales workers, furniture and home furnishings ..	11.40	18.4	29.9	11.40	18.4	29.9	—	—	—
4 .....	14.34	30.2	31.1	14.34	30.2	31.1	—	—	—
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	9.96	8.4	35.5	—	—	—
3 .....	7.40	1.0	36.5	7.40	1.0	36.5	—	—	—
4 .....	8.93	5.7	36.6	8.93	5.7	36.6	—	—	—
Sales workers, parts .....	14.28	6.0	39.8	14.28	6.0	39.8	—	—	—
4 .....	14.54	4.5	40.5	14.54	4.5	40.5	—	—	—
Sales workers, other commodities .....	9.40	5.2	28.7	9.40	5.2	28.7	—	—	—

See footnotes at end of table.

Table 6. Occupations<sup>1</sup> and levels,<sup>2</sup> East North Central: Mean hourly earnings<sup>3</sup> and weekly hours, private industry and State and local government, National Compensation Survey,<sup>4</sup> 1998—Continued

Occupations and levels	Total			Private industry			State and local government		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)	
<b>White collar—Continued</b>									
<b>Sales—Continued</b>									
<b>Sales workers, other commodities—Continued</b>									
1 .....	\$6.72	3.1	25.5	\$6.71	3.2	25.4	—	—	—
2 .....	6.06	3.6	24.9	6.06	3.6	24.9	—	—	—
3 .....	8.38	3.6	27.7	8.38	3.6	27.7	—	—	—
4 .....	7.84	3.7	29.8	7.84	3.7	29.8	—	—	—
Sales counter clerks .....	8.30	8.4	27.5	8.30	8.4	27.5	—	—	—
1 .....	6.17	2.0	24.0	6.17	2.0	24.0	—	—	—
3 .....	10.63	10.2	34.4	10.63	10.2	34.4	—	—	—
4 .....	9.49	16.4	37.0	9.49	16.4	37.0	—	—	—
Cashiers .....	7.19	1.2	25.5	7.14	1.2	25.5	\$10.61	13.7	26.6
1 .....	6.25	2.1	24.3	6.25	2.1	24.4	6.22	8.4	19.8
2 .....	7.51	2.8	24.4	7.52	2.8	24.4	—	—	—
3 .....	7.54	2.6	26.9	7.41	2.3	26.9	13.36	11.3	30.6
4 .....	9.84	4.8	32.9	9.83	5.0	32.6	—	—	—
Demonstrators, promoters, and models, sales ..	9.99	9.3	28.8	10.03	9.3	29.3	—	—	—
Sales support, n.e.c. ....	12.69	4.6	38.3	12.66	4.6	38.3	—	—	—
1 .....	7.10	3.2	33.3	7.10	3.2	33.3	—	—	—
5 .....	13.31	7.2	39.9	13.16	7.4	39.9	—	—	—
7 .....	14.15	8.7	42.8	14.15	8.7	42.8	—	—	—
8 .....	19.28	6.2	41.9	19.28	6.2	41.9	—	—	—
Not able to be leveled .....	10.40	20.7	21.6	10.40	20.7	21.6	—	—	—
<b>Administrative support, including clerical .....</b>	12.02	.8	37.0	11.98	.9	37.1	12.18	1.5	36.3
1 .....	7.76	1.9	29.7	7.80	2.1	31.0	7.57	2.9	24.7
2 .....	9.01	1.6	32.9	8.93	1.8	33.2	9.39	3.4	31.3
3 .....	10.06	.9	36.2	9.94	1.0	36.4	10.72	1.5	35.2
4 .....	11.64	1.2	38.1	11.56	1.1	38.1	11.87	3.4	37.8
5 .....	13.66	1.3	38.3	13.66	1.5	38.6	13.69	3.0	37.1
6 .....	14.73	1.3	39.3	15.19	1.8	39.5	13.42	1.6	38.8
7 .....	16.65	1.1	39.3	16.71	1.2	39.4	16.44	2.6	38.8
8 .....	19.17	3.6	40.0	19.29	3.8	40.0	17.74	3.3	39.9
9 .....	20.09	7.4	39.9	20.12	7.6	39.9	—	—	—
Not able to be leveled .....	13.84	8.8	37.8	13.84	9.2	38.2	—	—	—
Supervisors, general office .....	16.42	2.5	39.6	16.62	3.4	39.8	15.99	2.2	39.3
5 .....	13.54	3.7	39.5	13.00	4.1	39.4	—	—	—
6 .....	13.43	2.4	39.5	13.34	3.1	40.0	—	—	—
7 .....	16.48	2.3	39.6	16.31	4.1	39.9	16.59	3.3	39.4
8 .....	19.13	2.9	39.9	19.55	3.0	39.8	—	—	—
9 .....	20.83	5.8	39.8	20.83	5.8	39.8	—	—	—
Supervisors, computer equipment operators .....	17.69	8.6	40.4	17.88	8.9	40.5	—	—	—
Supervisors, financial records processing .....	17.17	4.4	39.7	17.15	4.5	39.7	—	—	—
5 .....	14.43	8.1	40.1	—	—	—	—	—	—
6 .....	14.98	5.3	39.7	14.95	5.5	39.7	—	—	—
7 .....	15.47	4.5	39.6	15.47	4.5	39.6	—	—	—
8 .....	18.04	4.9	39.7	17.89	5.3	39.6	—	—	—
9 .....	23.06	3.2	39.9	23.06	3.2	39.9	—	—	—
Chief communications operators .....	13.55	7.2	40.0	—	—	—	—	—	—
Supervisors, distribution, scheduling, and adjusting clerks .....	16.88	6.0	40.1	16.64	6.4	40.4	19.12	11.0	37.9
5 .....	15.58	13.8	40.4	13.17	13.0	41.6	—	—	—
7 .....	17.54	1.6	40.8	17.64	1.6	40.8	—	—	—
8 .....	19.55	10.0	40.5	19.55	10.0	40.5	—	—	—
9 .....	23.11	5.9	40.6	23.11	5.9	40.6	—	—	—
Computer operators .....	15.06	3.5	39.4	14.96	4.0	39.5	15.44	7.2	39.0
4 .....	13.14	3.4	39.6	13.58	3.7	39.7	—	—	—
5 .....	14.30	5.9	39.3	13.31	4.3	39.5	—	—	—
6 .....	16.47	10.5	39.9	19.37	5.6	39.7	—	—	—
7 .....	19.51	6.2	38.9	19.38	7.0	39.4	—	—	—
Secretaries .....	13.12	1.4	38.0	13.50	1.7	38.1	12.32	1.8	37.7
2 .....	10.23	3.9	28.8	10.69	5.7	29.1	9.62	5.5	28.5

See footnotes at end of table.

Table 6. Occupations<sup>1</sup> and levels,<sup>2</sup> East North Central: Mean hourly earnings<sup>3</sup> and weekly hours, private industry and State and local government, National Compensation Survey,<sup>4</sup> 1998—Continued

Occupations and levels	Total			Private industry			State and local government		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)	
<b>White collar—Continued</b>									
<b>Administrative support, including clerical—Continued</b>									
Secretaries—Continued									
3 .....	\$11.00	1.8	37.6	\$10.96	2.6	38.1	\$11.06	2.4	36.8
4 .....	12.04	1.8	38.1	12.10	2.6	37.8	11.94	2.1	38.6
5 .....	14.14	2.7	38.0	14.53	2.8	38.6	12.61	2.8	36.0
6 .....	14.79	1.3	39.1	15.75	1.4	39.0	12.58	2.2	39.3
7 .....	17.07	2.9	39.2	17.05	4.0	39.1	17.12	2.8	39.2
Stenographers .....									
4 .....	12.71	3.7	35.3	12.19	5.1	34.7	14.13	4.3	37.3
4 .....	12.30	5.2	34.9	12.15	5.6	34.5	—	—	—
5 .....	12.13	4.1	36.0	—	—	—	—	—	—
Typists .....									
2 .....	11.13	3.3	37.5	11.12	4.0	36.8	11.14	5.9	38.8
2 .....	10.35	9.7	35.9	9.71	4.4	31.0	10.68	12.9	39.1
3 .....	11.78	6.0	37.8	11.96	9.2	37.8	11.56	7.3	37.9
4 .....	10.38	4.1	38.1	—	—	—	—	—	—
5 .....	13.78	12.8	37.2	13.93	15.0	36.7	—	—	—
Interviewers .....									
2 .....	9.63	2.1	32.6	9.40	2.2	32.6	12.18	4.9	33.3
2 .....	8.93	4.0	27.9	8.93	4.0	27.9	—	—	—
3 .....	9.50	4.6	35.0	9.39	4.7	34.7	—	—	—
4 .....	11.37	2.0	32.6	11.03	2.2	33.1	—	—	—
Hotel clerks .....									
3 .....	8.06	3.9	32.9	8.06	3.9	32.9	—	—	—
3 .....	7.80	4.9	30.6	7.80	4.9	30.6	—	—	—
Transportation ticket and reservation agents .....									
3 .....	14.17	7.6	34.2	14.17	7.6	34.2	—	—	—
3 .....	9.72	6.6	34.4	9.72	6.6	34.4	—	—	—
4 .....	13.78	10.7	27.9	13.78	10.7	27.9	—	—	—
5 .....	13.99	10.5	33.5	13.99	10.5	33.5	—	—	—
Receptionists .....									
3 .....	9.46	2.2	35.4	9.27	2.0	35.7	12.58	7.7	30.7
1 .....	7.74	4.9	27.4	7.76	5.2	28.2	—	—	—
2 .....	9.24	3.1	35.0	9.25	3.1	35.6	—	—	—
3 .....	9.35	2.8	37.4	9.13	2.2	37.6	—	—	—
4 .....	11.14	5.1	37.9	10.66	4.0	38.0	—	—	—
Information clerks, n.e.c. ....									
2 .....	12.44	3.9	37.7	12.44	4.0	37.8	12.51	8.3	36.0
2 .....	8.13	5.5	35.1	7.91	4.2	34.9	—	—	—
3 .....	10.00	2.6	35.6	9.98	2.6	36.0	—	—	—
4 .....	11.10	1.9	36.8	11.12	2.0	36.7	—	—	—
Correspondence clerks .....									
3 .....	12.70	9.3	39.1	12.70	9.3	39.1	—	—	—
3 .....	11.28	12.1	40.0	11.28	12.1	40.0	—	—	—
Order clerks .....									
2 .....	12.20	2.9	38.2	12.20	2.9	38.3	—	—	—
2 .....	9.15	4.4	37.1	9.15	4.4	37.1	—	—	—
3 .....	10.86	2.8	36.3	10.86	2.8	36.3	—	—	—
4 .....	12.06	2.6	39.6	12.06	2.6	39.6	—	—	—
5 .....	15.77	9.7	39.0	15.80	9.7	39.0	—	—	—
6 .....	15.36	10.4	40.0	15.36	10.4	40.0	—	—	—
7 .....	19.52	4.3	38.6	19.52	4.3	38.6	—	—	—
Personnel clerks, except payroll and timekeeping .....									
4 .....	13.49	4.5	38.8	12.98	3.6	38.7	14.60	12.8	39.0
4 .....	11.18	3.4	38.5	11.10	2.3	38.8	—	—	—
5 .....	13.51	3.4	38.0	13.58	3.9	37.6	—	—	—
6 .....	15.56	6.1	39.2	15.77	7.3	39.5	—	—	—
7 .....	18.11	2.9	40.0	19.01	10.7	40.0	—	—	—
Library clerks .....									
1 .....	10.04	4.9	28.0	11.58	5.3	33.8	9.60	5.3	26.7
1 .....	6.72	4.3	14.7	—	—	—	6.58	4.4	14.1
2 .....	8.24	4.8	23.8	—	—	—	8.38	5.6	24.7
3 .....	10.55	5.9	28.0	9.63	5.4	20.3	10.63	6.1	28.9
4 .....	9.25	7.4	33.5	10.69	6.1	38.6	8.93	7.1	32.6
5 .....	11.86	6.8	30.4	—	—	—	12.22	7.5	29.3
6 .....	13.97	3.9	39.4	—	—	—	—	—	—
File clerks .....									
1 .....	9.02	2.9	33.8	8.93	2.8	33.8	—	—	—
1 .....	7.44	3.5	28.4	7.44	3.5	28.4	—	—	—
2 .....	8.10	3.5	33.9	8.10	3.5	33.9	—	—	—
3 .....	9.42	3.6	33.7	9.23	3.2	33.6	—	—	—

See footnotes at end of table.



Table 6. Occupations<sup>1</sup> and levels,<sup>2</sup> East North Central: Mean hourly earnings<sup>3</sup> and weekly hours, private industry and State and local government, National Compensation Survey,<sup>4</sup> 1998—Continued

Occupations and levels	Total			Private industry			State and local government		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)	
<b>White collar—Continued</b>									
<b>Administrative support, including clerical—Continued</b>									
Records clerks, n.e.c. ....	\$11.44	3.6	37.4	\$10.94	2.5	37.2	\$12.86	10.5	37.7
1 .....	6.68	1.4	38.0	—	—	—	—	—	—
2 .....	8.57	4.0	31.6	8.51	4.1	32.1	—	—	—
3 .....	9.92	2.6	37.1	9.88	2.9	37.0	10.32	5.5	37.8
4 .....	12.53	8.5	38.4	11.35	4.4	39.0	14.95	16.6	37.0
5 .....	12.71	3.0	39.0	12.62	3.1	38.7	12.88	6.0	39.5
6 .....	14.19	2.9	37.8	13.91	3.5	38.5	—	—	—
7 .....	15.05	5.4	39.5	—	—	—	—	—	—
Bookkeepers, accounting and auditing clerks ...	11.49	2.2	37.7	11.27	2.6	37.6	12.58	2.4	38.6
2 .....	9.19	2.4	32.3	9.08	2.3	32.3	—	—	—
3 .....	9.65	5.3	36.4	9.55	5.3	36.3	—	—	—
4 .....	10.89	1.6	38.9	10.66	1.9	39.0	11.59	2.8	38.6
5 .....	12.67	3.0	38.7	12.48	3.7	39.0	13.33	4.2	37.7
6 .....	14.29	1.6	39.5	14.36	2.7	39.6	13.96	5.9	39.0
7 .....	17.16	3.2	39.9	17.58	3.5	40.0	15.22	5.2	39.3
Payroll and timekeeping clerks .....	13.33	3.5	37.9	13.12	3.7	37.8	16.28	8.7	38.4
3 .....	10.42	4.3	37.7	10.42	4.3	37.7	—	—	—
4 .....	12.53	4.6	38.9	12.17	4.8	38.7	—	—	—
5 .....	13.88	5.1	39.7	—	—	—	—	—	—
7 .....	21.71	9.7	37.9	—	—	—	—	—	—
Billing clerks .....	11.12	2.4	37.8	11.06	2.6	37.7	12.12	5.6	39.2
2 .....	8.91	1.7	39.9	8.96	1.7	39.8	—	—	—
3 .....	10.27	4.1	37.5	10.24	4.2	37.5	—	—	—
4 .....	10.79	2.8	38.0	10.75	3.0	37.9	11.15	4.2	40.0
5 .....	13.21	7.5	34.7	13.01	8.3	34.4	—	—	—
6 .....	14.17	3.2	39.8	—	—	—	—	—	—
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	10.56	5.9	37.7	—	—	—
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	8.54	2.8	34.9	—	—	—
2 .....	9.02	3.5	34.7	9.02	3.5	34.7	—	—	—
Telephone operators .....	11.23	4.6	34.4	11.47	4.7	33.8	—	—	—
2 .....	11.99	5.0	34.9	12.29	4.6	34.6	—	—	—
3 .....	9.75	1.9	32.7	9.57	2.7	31.5	—	—	—
Mail clerks, except postal service .....	9.02	4.7	34.8	8.96	4.7	34.7	—	—	—
1 .....	7.33	2.7	33.8	7.33	2.7	33.8	—	—	—
2 .....	8.34	4.6	31.6	8.34	4.6	31.6	—	—	—
3 .....	9.63	6.9	38.1	9.63	6.9	38.1	—	—	—
Messengers .....	9.24	7.0	38.1	9.14	7.9	38.6	—	—	—
Dispatchers .....	11.63	5.6	38.4	11.70	6.8	39.6	11.58	8.4	37.6
3 .....	10.42	5.4	33.3	—	—	—	10.84	8.6	32.7
4 .....	9.87	10.1	39.5	9.67	7.2	39.4	10.02	17.4	39.6
5 .....	12.77	4.5	41.7	12.28	6.5	44.2	13.28	6.3	39.5
6 .....	13.40	3.9	40.0	—	—	—	13.22	3.4	40.0
7 .....	16.05	2.4	40.0	—	—	—	—	—	—
Production coordinators .....	15.28	2.7	40.2	15.28	2.7	40.2	—	—	—
3 .....	12.75	5.1	40.0	12.75	5.1	40.0	—	—	—
4 .....	12.51	4.7	40.6	12.51	4.7	40.6	—	—	—
5 .....	14.51	2.5	40.0	14.50	2.5	40.0	—	—	—
6 .....	15.42	4.5	40.0	15.42	4.5	40.0	—	—	—
7 .....	17.45	5.5	40.2	17.45	5.5	40.2	—	—	—
Traffic, shipping and receiving clerks .....	11.47	6.8	39.3	11.47	6.8	39.3	—	—	—
1 .....	8.93	10.0	40.0	8.93	10.0	40.0	—	—	—
2 .....	8.78	3.4	34.4	8.78	3.4	34.4	—	—	—
3 .....	9.89	5.0	40.0	9.89	5.0	40.0	—	—	—
4 .....	13.20	5.3	40.0	13.20	5.3	40.0	—	—	—

See footnotes at end of table.

Table 6. Occupations<sup>1</sup> and levels,<sup>2</sup> East North Central: Mean hourly earnings<sup>3</sup> and weekly hours, private industry and State and local government, National Compensation Survey,<sup>4</sup> 1998—Continued

Occupations and levels	Total			Private industry			State and local government		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)	
<b>White collar—Continued</b>									
<b>Administrative support, including clerical—Continued</b>									
Traffic, shipping and receiving clerks—Continued									
5 .....	\$14.11	8.2	40.0	\$14.11	8.2	40.0	—	—	—
Stock and inventory clerks .....	11.20	5.1	33.6	11.12	5.3	33.4	\$12.72	4.0	37.9
1 .....	8.48	6.9	30.2	8.48	6.9	30.2	—	—	—
3 .....	10.00	2.4	34.1	9.98	2.4	34.1	—	—	—
4 .....	12.14	3.6	38.1	12.14	4.0	38.2	—	—	—
5 .....	14.15	3.0	40.0	14.33	3.4	40.2	—	—	—
Meter readers .....	14.24	5.3	38.6	14.72	4.7	38.6	—	—	—
Weighers, measurers, checkers, and samplers	17.49	4.9	39.8	17.89	4.3	39.7	—	—	—
Expeditors .....	13.00	2.8	38.2	13.01	2.8	38.2	—	—	—
4 .....	11.92	1.5	34.6	11.93	1.5	34.5	—	—	—
5 .....	11.48	1.9	40.0	11.48	1.9	40.0	—	—	—
Material recording, scheduling, and distribution									
clerks, n.e.c. ....	14.96	7.6	39.7	14.96	7.6	39.7	—	—	—
3 .....	15.04	13.6	40.0	15.04	13.6	40.0	—	—	—
4 .....	10.65	12.6	37.1	10.65	12.6	37.1	—	—	—
5 .....	15.33	4.8	40.6	15.33	4.8	40.6	—	—	—
6 .....	15.50	7.1	40.0	15.50	7.1	40.0	—	—	—
Insurance adjusters, examiners, and									
investigators .....	13.99	7.0	38.8	13.99	7.0	38.8	—	—	—
3 .....	9.60	5.5	39.4	9.60	5.5	39.4	—	—	—
4 .....	11.26	2.4	38.8	11.26	2.4	38.8	—	—	—
5 .....	11.31	1.6	39.4	11.31	1.6	39.4	—	—	—
6 .....	13.89	1.4	38.9	13.89	1.4	38.9	—	—	—
7 .....	16.11	4.9	38.4	16.11	4.9	38.4	—	—	—
Investigators and adjusters, except insurance ...	12.46	4.5	38.0	12.34	4.8	38.2	14.56	4.6	34.7
3 .....	9.61	2.9	38.2	9.52	2.9	39.0	—	—	—
4 .....	11.20	3.2	36.1	11.17	3.3	36.3	—	—	—
5 .....	13.26	11.7	38.7	13.25	11.8	38.7	—	—	—
6 .....	15.79	6.2	39.9	16.17	6.2	39.9	—	—	—
7 .....	16.25	3.7	39.4	16.23	4.7	39.2	—	—	—
Eligibility clerks, social welfare .....	13.17	3.9	37.4	11.20	4.2	35.2	14.02	4.3	38.4
4 .....	10.44	4.3	36.6	—	—	—	—	—	—
6 .....	14.32	5.2	38.0	—	—	—	14.32	5.2	38.0
Bill and account collectors .....	11.17	2.6	38.1	11.13	2.6	38.1	—	—	—
3 .....	10.27	3.9	37.0	10.27	3.9	37.0	—	—	—
4 .....	11.07	3.3	40.0	11.07	3.3	40.0	—	—	—
5 .....	11.86	5.9	38.4	11.74	5.9	38.5	—	—	—
General office clerks .....	11.00	1.6	36.7	10.49	1.9	36.4	12.08	2.6	37.3
1 .....	7.82	2.0	27.9	7.83	2.1	28.9	7.78	6.8	18.3
2 .....	8.64	2.3	33.0	8.43	2.5	33.3	9.35	3.3	32.0
3 .....	9.82	1.4	36.5	9.58	1.7	36.2	10.65	2.4	37.5
4 .....	11.72	2.2	38.9	11.01	2.3	38.9	12.55	3.4	38.8
5 .....	13.85	4.8	38.4	13.30	4.9	38.7	15.32	8.7	37.6
6 .....	14.46	10.2	39.8	16.40	8.6	39.8	—	—	—
7 .....	14.97	6.2	39.1	—	—	—	—	—	—
Not able to be leveled .....	10.96	6.6	31.4	—	—	—	—	—	—
Bank tellers .....	8.41	1.9	33.2	8.41	1.9	33.2	—	—	—
2 .....	7.70	2.5	32.9	7.70	2.5	32.9	—	—	—
3 .....	8.31	2.8	32.3	8.31	2.8	32.3	—	—	—
4 .....	9.93	5.4	38.1	9.93	5.4	38.1	—	—	—
5 .....	10.24	4.1	38.3	10.24	4.1	38.3	—	—	—
Data entry keyers .....	9.50	4.1	37.6	9.32	4.4	37.6	11.54	4.0	38.3
1 .....	7.57	2.5	37.9	7.57	2.5	37.9	—	—	—
2 .....	8.76	8.0	36.2	8.66	8.3	36.2	—	—	—
3 .....	9.83	5.0	38.8	9.68	5.3	38.7	11.10	3.7	39.2
4 .....	10.85	2.5	39.0	10.56	2.5	39.0	—	—	—
Statistical clerks .....	11.45	4.3	37.0	11.53	4.8	37.0	—	—	—

See footnotes at end of table.

Table 6. Occupations<sup>1</sup> and levels,<sup>2</sup> East North Central: Mean hourly earnings<sup>3</sup> and weekly hours, private industry and State and local government, National Compensation Survey,<sup>4</sup> 1998—Continued

Occupations and levels	Total			Private industry			State and local government		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)	
<b>White collar</b> —Continued									
<b>Administrative support, including clerical</b> —Continued									
Statistical clerks—Continued									
4 .....	\$12.59	5.5	40.0	\$12.61	5.6	40.0	—	—	—
Teachers' aides .....	9.56	3.2	31.4	8.53	14.6	27.3	\$9.66	3.2	31.8
1 .....	7.99	4.0	28.9	6.35	6.2	21.5	8.37	3.2	31.4
2 .....	8.45	3.1	28.9	—	—	—	8.59	3.0	29.6
3 .....	9.55	3.1	32.4	—	—	—	9.58	3.1	32.5
4 .....	9.42	10.7	33.1	—	—	—	9.65	12.0	32.7
5 .....	13.98	12.6	33.0	—	—	—	13.98	12.6	33.0
Administrative support, n.e.c. ....	12.68	3.3	36.4	12.77	3.9	36.4	12.29	3.5	36.3
1 .....	7.10	5.7	30.1	7.32	6.9	35.6	—	—	—
2 .....	9.25	3.9	34.7	9.21	4.4	35.9	9.42	7.8	30.5
3 .....	10.82	2.4	33.7	10.88	2.5	33.5	10.53	6.6	35.2
4 .....	12.18	5.1	37.0	12.21	6.2	36.6	12.04	5.0	38.6
5 .....	13.67	3.8	36.8	14.18	4.1	36.7	12.23	2.7	37.1
6 .....	16.51	9.0	39.4	16.49	10.0	39.4	—	—	—
7 .....	15.46	2.9	39.6	15.20	3.6	39.5	—	—	—
Not able to be leveled .....	11.32	7.9	34.3	11.32	7.9	34.3	—	—	—
<b>Blue collar</b> .....	13.86	.9	38.3	13.77	1.0	38.4	15.43	1.7	36.3
1 .....	8.30	1.9	33.6	8.24	1.8	33.6	11.29	15.5	34.0
2 .....	10.09	2.9	37.6	9.97	3.0	37.7	12.54	4.1	35.8
3 .....	13.28	2.1	38.8	13.29	2.1	39.2	13.05	5.5	31.4
4 .....	13.98	1.4	39.6	13.98	1.5	39.9	13.94	2.3	33.8
5 .....	14.48	1.5	39.4	14.44	1.7	39.6	14.93	2.2	37.1
6 .....	16.52	1.8	40.3	16.54	1.9	40.3	16.12	2.5	39.7
7 .....	20.12	.9	39.9	20.26	.9	40.0	19.03	2.8	39.7
8 .....	22.65	2.1	40.6	22.68	2.2	40.6	21.73	6.9	40.0
9 .....	23.43	3.4	40.0	23.44	3.4	40.0	22.61	2.0	40.5
Not able to be leveled .....	17.21	7.8	39.2	17.21	7.8	39.2	—	—	—
<b>Precision production, craft, and repair</b> .....	17.83	1.1	39.9	17.86	1.2	39.9	17.55	2.5	39.5
1 .....	7.89	9.3	38.7	7.89	9.3	38.7	—	—	—
2 .....	8.43	11.5	38.6	8.42	11.5	38.6	—	—	—
3 .....	11.66	4.2	39.2	11.49	4.5	39.2	13.46	4.4	40.1
4 .....	13.67	5.4	40.0	13.71	5.7	40.0	12.75	6.6	39.5
5 .....	14.64	1.9	39.8	14.53	1.9	40.0	15.25	4.6	39.0
6 .....	16.96	2.8	40.0	16.98	3.1	40.1	16.69	3.5	39.8
7 .....	20.38	.9	39.9	20.56	1.0	40.0	19.03	3.3	39.7
8 .....	22.65	2.2	40.6	22.70	2.3	40.7	21.37	7.2	40.1
9 .....	23.59	3.6	40.0	23.60	3.6	40.0	—	—	—
Not able to be leveled .....	18.62	10.6	40.0	18.62	10.6	40.0	—	—	—
Supervisors, mechanics and repairers .....	22.56	3.8	40.8	23.39	3.4	41.0	18.24	9.1	39.9
7 .....	19.14	7.4	40.8	20.23	7.9	41.5	17.77	10.5	39.9
8 .....	21.26	5.7	42.2	21.22	5.8	42.1	—	—	—
9 .....	26.64	5.7	40.0	26.71	5.8	40.0	—	—	—
Automobile mechanics .....	17.95	7.6	40.9	18.18	8.6	41.0	16.57	3.3	40.0
5 .....	14.71	7.6	41.8	14.74	7.7	41.8	—	—	—
6 .....	22.76	15.6	41.8	24.03	15.6	42.1	—	—	—
7 .....	17.21	5.6	40.1	17.32	6.8	40.2	16.73	4.7	40.0
Bus, truck, and stationary engine mechanics .....	16.55	4.1	40.1	16.59	5.0	40.1	16.40	3.8	40.1
5 .....	13.58	7.5	40.0	12.25	4.2	40.0	—	—	—
7 .....	18.43	3.3	40.1	18.92	3.6	40.2	15.70	3.1	40.0
Aircraft engine mechanics .....	22.40	4.4	40.0	22.40	4.4	40.0	—	—	—
7 .....	23.19	1.9	40.0	23.19	1.9	40.0	—	—	—
Automobile body and related repairers .....	21.89	5.9	41.0	21.89	5.9	41.0	—	—	—
7 .....	22.61	7.3	40.3	22.61	7.3	40.3	—	—	—
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	17.08	8.2	40.0	15.24	10.4	39.8
6 .....	15.25	10.0	39.8	—	—	—	—	—	—

See footnotes at end of table.

Table 6. Occupations<sup>1</sup> and levels,<sup>2</sup> East North Central: Mean hourly earnings<sup>3</sup> and weekly hours, private industry and State and local government, National Compensation Survey,<sup>4</sup> 1998—Continued

Occupations and levels	Total			Private industry			State and local government		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)	
<b>Blue collar—Continued</b>									
<b>Precision production, craft, and repair—Continued</b>									
Heavy equipment mechanics—Continued									
7 .....	\$19.07	2.8	40.0	\$19.12	2.9	40.0	—	—	—
Industrial machinery repairers .....	17.56	2.9	40.0	17.56	2.9	40.0	\$18.28	0.3	40.0
4 .....	14.34	3.4	40.0	14.34	3.4	40.0	—	—	—
5 .....	12.65	4.4	40.0	12.65	4.4	40.0	—	—	—
6 .....	15.61	2.1	40.0	15.61	2.1	40.0	—	—	—
7 .....	19.93	1.9	40.0	19.96	1.9	40.0	18.28	.3	40.0
8 .....	19.42	5.3	39.8	19.42	5.3	39.8	—	—	—
Machinery maintenance .....	14.15	2.3	39.7	14.19	2.4	39.9	—	—	—
3 .....	14.62	13.7	38.7	14.62	13.7	38.7	—	—	—
5 .....	13.04	4.4	38.4	13.28	5.0	40.0	—	—	—
7 .....	17.10	6.9	40.2	17.10	6.9	40.2	—	—	—
Electronic repairers, communications and industrial equipment .....	14.26	4.7	40.0	14.26	4.7	40.0	—	—	—
5 .....	15.73	7.3	39.8	15.73	7.3	39.8	—	—	—
7 .....	16.11	7.4	40.0	16.11	7.4	40.0	—	—	—
Data processing equipment repairers .....	16.30	5.5	39.3	16.30	5.5	39.3	—	—	—
7 .....	18.06	5.4	40.0	18.06	5.4	40.0	—	—	—
Telephone line installers and repairers .....	21.42	9.5	40.0	21.42	9.5	40.0	—	—	—
Telephone installers and repairers .....	15.90	4.3	39.7	15.90	4.3	39.7	—	—	—
4 .....	12.89	1.9	40.0	12.89	1.9	40.0	—	—	—
7 .....	20.44	5.6	40.0	20.44	5.6	40.0	—	—	—
Heating, air conditioning, and refrigeration mechanics .....	15.90	5.0	39.1	16.39	10.1	40.0	15.49	2.7	38.3
7 .....	17.19	4.7	38.6	21.92	5.7	39.9	15.59	2.8	38.2
Office machine repairers .....	14.68	9.7	40.0	14.13	10.2	40.0	—	—	—
Mechanical controls and valve repairers .....	17.46	9.3	37.6	—	—	—	15.74	6.0	36.5
5 .....	15.47	7.1	36.0	—	—	—	15.47	7.1	36.0
Millwrights .....	19.00	7.6	40.2	19.00	7.6	40.2	—	—	—
7 .....	21.55	2.3	40.3	21.57	2.3	40.3	—	—	—
Mechanics and repairers, n.e.c. ....	16.94	2.6	39.9	17.13	3.0	39.8	16.02	4.4	40.0
4 .....	13.05	10.2	40.0	13.09	10.3	40.0	—	—	—
5 .....	14.51	5.7	40.0	14.73	6.0	40.0	13.61	15.3	40.0
6 .....	17.40	2.5	40.0	17.38	2.6	40.0	—	—	—
7 .....	19.11	1.9	39.9	19.90	2.1	39.9	16.82	2.9	40.0
Supervisors, carpenters and related workers .....	23.03	7.3	40.0	23.14	7.3	40.0	—	—	—
7 .....	23.07	12.1	40.0	—	—	—	—	—	—
Supervisors, electricians and power transmission installers .....	24.68	6.7	40.0	24.68	6.7	40.0	—	—	—
7 .....	17.71	14.5	40.0	17.71	14.5	40.0	—	—	—
9 .....	26.56	4.4	40.0	26.56	4.4	40.0	—	—	—
Supervisors, plumbers, pipefitters, and steamfitters .....	29.58	4.3	40.0	29.97	3.8	40.0	—	—	—
9 .....	27.64	2.2	40.1	—	—	—	—	—	—
Supervisors, construction trades, n.e.c. ....	22.80	2.9	39.9	24.07	2.9	39.9	17.97	5.8	39.9
7 .....	19.51	4.1	40.3	20.65	4.7	40.5	16.89	7.9	39.9
8 .....	24.35	4.6	41.7	—	—	—	—	—	—
9 .....	28.17	2.1	37.7	28.23	2.2	37.7	—	—	—
Brickmasons and stonemasons .....	17.40	4.5	40.0	19.38	7.9	40.0	—	—	—
7 .....	17.75	4.1	40.0	—	—	—	—	—	—
Carpenters .....	19.90	3.8	39.9	20.05	3.1	39.9	19.26	14.8	39.9
5 .....	11.51	6.2	39.3	13.22	4.8	38.0	—	—	—
7 .....	21.41	2.5	40.0	21.21	2.2	40.0	22.53	10.2	39.9
Drywall installers .....	17.58	8.9	40.0	17.58	8.9	40.0	—	—	—
Electricians .....	20.57	2.9	40.1	20.20	2.9	40.1	24.52	6.9	39.9
7 .....	22.12	3.6	40.1	21.72	3.8	40.1	25.12	6.4	39.9
8 .....	22.32	3.9	40.0	22.32	3.9	40.0	—	—	—
Electrician apprentices .....	14.20	10.3	40.0	14.20	10.3	40.0	—	—	—
5 .....	16.25	12.6	40.0	16.25	12.6	40.0	—	—	—
Electrical power installers and repairers .....	22.38	4.8	40.0	23.01	5.0	40.0	18.48	3.6	40.0

See footnotes at end of table.

Table 6. Occupations<sup>1</sup> and levels,<sup>2</sup> East North Central: Mean hourly earnings<sup>3</sup> and weekly hours, private industry and State and local government, National Compensation Survey,<sup>4</sup> 1998—Continued

Occupations and levels	Total			Private industry			State and local government		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)	
<b>Blue collar—Continued</b>									
<b>Precision production, craft, and repair—Continued</b>									
Electrical power installers and repairers—Continued									
7 .....	\$23.78	1.0	40.0	\$23.86	0.9	40.0	—	—	—
Painters, construction and maintenance .....	20.18	4.5	40.0	20.39	5.1	40.0	\$18.77	7.1	39.9
7 .....	20.45	3.0	40.0	20.89	3.7	40.0	—	—	—
Plumbers, pipefitters and steamfitters .....	21.98	2.6	39.9	22.50	2.6	40.0	18.31	7.2	39.5
5 .....	15.02	4.1	40.0	—	—	—	—	—	—
6 .....	18.88	4.9	39.1	—	—	—	—	—	—
7 .....	22.87	2.7	40.0	23.33	2.3	40.0	18.39	12.7	39.6
Plumber, pipefitter, and steamfitter apprentices	15.96	6.5	40.0	16.16	7.0	40.0	—	—	—
Concrete and terrazzo finishers .....	21.90	8.5	40.0	22.00	8.6	40.0	—	—	—
7 .....	23.39	5.9	40.0	23.55	5.9	40.0	—	—	—
Paving, surfacing, and tamping equipment operators .....	19.81	11.6	40.4	21.41	9.8	40.5	—	—	—
Construction trades, n.e.c. ....	19.43	3.1	39.2	23.52	3.3	39.1	15.05	6.3	39.4
3 .....	14.96	8.8	40.0	—	—	—	—	—	—
4 .....	14.01	9.5	39.6	—	—	—	12.24	6.2	39.4
5 .....	17.04	7.2	39.2	—	—	—	16.63	8.9	39.1
6 .....	15.79	4.3	39.8	—	—	—	16.04	7.1	39.6
7 .....	—	—	—	—	—	—	15.57	4.6	40.0
Supervisors, production .....	18.56	7.7	40.6	18.57	7.7	40.6	—	—	—
5 .....	13.49	2.2	41.4	13.49	2.2	41.4	—	—	—
6 .....	21.35	13.3	40.0	21.47	13.3	40.0	—	—	—
7 .....	19.14	3.2	41.0	19.14	3.2	41.0	—	—	—
8 .....	22.09	2.9	40.4	22.09	2.9	40.4	—	—	—
9 .....	21.51	8.6	40.9	21.51	8.6	40.9	—	—	—
Tool and die makers .....	21.03	1.6	40.0	21.03	1.6	40.0	—	—	—
6 .....	18.83	3.9	40.0	18.83	3.9	40.0	—	—	—
7 .....	21.51	1.5	40.0	21.51	1.5	40.0	—	—	—
9 .....	18.71	1.0	40.0	18.71	1.0	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	—	—	—
5 .....	15.87	4.4	40.0	15.87	4.4	40.0	—	—	—
7 .....	19.43	6.2	40.0	19.43	6.2	40.0	—	—	—
Machinists .....	16.74	1.9	40.1	16.65	1.9	40.1	—	—	—
5 .....	14.98	3.0	40.0	14.98	3.0	40.0	—	—	—
6 .....	16.00	1.9	40.0	16.00	1.9	40.0	—	—	—
7 .....	17.51	2.6	40.3	17.35	2.6	40.3	—	—	—
8 .....	18.69	4.8	40.0	18.69	4.8	40.0	—	—	—
Precision grinders, filers, and tool sharpeners ...	16.14	8.3	40.0	16.14	8.3	40.0	—	—	—
5 .....	14.44	4.3	40.0	14.44	4.3	40.0	—	—	—
7 .....	20.51	4.8	40.0	20.51	4.8	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	—	—	—
7 .....	24.31	7.0	40.0	24.31	7.0	40.0	—	—	—
Cabinet makers and bench carpenters .....	13.62	6.2	39.3	12.91	6.0	39.2	—	—	—
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	13.28	8.9	39.5	—	—	—
Electrical and electronic equipment assemblers	9.17	14.5	39.8	9.17	14.5	39.8	—	—	—
4 .....	12.27	5.0	40.0	12.27	5.0	40.0	—	—	—
5 .....	13.57	6.0	40.0	13.57	6.0	40.0	—	—	—
Miscellaneous precision workers, n.e.c. ....	16.12	4.1	40.0	16.12	4.1	40.0	—	—	—
7 .....	17.25	5.7	40.0	17.25	5.7	40.0	—	—	—
Butchers and meat cutters .....	10.33	12.4	39.4	10.33	12.4	39.4	—	—	—
5 .....	12.83	2.6	40.0	12.83	2.6	40.0	—	—	—
7 .....	16.56	4.0	39.2	16.56	4.0	39.2	—	—	—
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	17.71	3.3	40.2	—	—	—

See footnotes at end of table.

Table 6. Occupations<sup>1</sup> and levels,<sup>2</sup> East North Central: Mean hourly earnings<sup>3</sup> and weekly hours, private industry and State and local government, National Compensation Survey,<sup>4</sup> 1998—Continued

Occupations and levels	Total			Private industry			State and local government		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)	
<b>Blue collar—Continued</b>									
<b>Precision production, craft, and repair—Continued</b>									
Inspectors, testers, and graders—Continued									
4 .....	\$17.78	5.8	40.0	\$17.78	5.8	40.0	—	—	—
5 .....	14.88	4.9	40.2	14.88	4.9	40.2	—	—	—
6 .....	15.81	4.6	40.0	15.51	4.8	40.0	—	—	—
7 .....	19.82	5.0	40.5	19.86	5.1	40.5	—	—	—
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 .....									
5 .....	16.13	3.9	40.0	—	—	—	\$16.38	3.8	40.0
7 .....	14.97	3.9	40.0	—	—	—	14.97	3.9	40.0
	18.25	2.8	40.0	—	—	—	18.33	3.2	40.0
Power plant operators .....									
7 .....	21.67	4.6	40.0	21.03	3.7	40.0	—	—	—
	22.47	4.6	40.0	—	—	—	—	—	—
Stationary engineers .....									
5 .....	21.86	4.4	39.6	21.17	4.7	39.8	22.86	8.1	39.3
7 .....	16.86	4.9	38.0	—	—	—	—	—	—
	22.74	4.2	39.7	22.23	3.6	40.0	—	—	—
Miscellaneous plant and system operators, n.e.c. ....									
	17.67	5.8	40.0	17.83	6.2	40.0	—	—	—
<b>Machine operators, assemblers, and inspectors .....</b>									
1 .....	12.81	1.5	39.8	12.81	1.5	39.8	12.61	11.1	39.8
2 .....	8.11	3.5	38.7	8.10	3.6	38.7	—	—	—
3 .....	9.93	2.6	39.7	9.93	2.6	39.7	—	—	—
4 .....	13.61	2.5	39.9	13.62	2.5	39.9	—	—	—
5 .....	13.89	1.7	39.9	13.89	1.7	39.9	—	—	—
6 .....	13.78	2.0	40.1	13.78	2.0	40.1	—	—	—
7 .....	15.80	3.3	39.9	15.80	3.3	39.9	—	—	—
8 .....	18.13	2.7	39.8	18.13	2.7	39.8	—	—	—
	19.26	7.1	40.0	19.26	7.1	40.0	—	—	—
Not able to be leveled .....	12.85	16.7	36.5	12.85	16.7	36.5	—	—	—
Lathe and turning machine set-up operators .....									
5 .....	14.50	2.6	40.0	14.50	2.6	40.0	—	—	—
	13.77	.9	40.0	13.77	.9	40.0	—	—	—
Lathe and turning machine operators .....									
2 .....	12.74	9.5	40.0	12.74	9.5	40.0	—	—	—
5 .....	10.05	3.3	40.0	10.05	3.3	40.0	—	—	—
6 .....	14.27	9.3	40.0	14.27	9.3	40.0	—	—	—
	17.38	3.9	40.0	17.38	3.9	40.0	—	—	—
Milling and planing machine operators .....									
5 .....	14.79	9.1	40.0	14.79	9.1	40.0	—	—	—
	13.87	4.2	40.0	13.87	4.2	40.0	—	—	—
Punching and stamping press operators .....									
1 .....	13.55	3.4	39.7	13.55	3.4	39.7	—	—	—
2 .....	9.01	12.4	38.0	9.01	12.4	38.0	—	—	—
3 .....	9.02	4.4	38.3	9.02	4.4	38.3	—	—	—
4 .....	16.05	4.4	40.0	16.05	4.4	40.0	—	—	—
5 .....	14.20	5.8	40.0	14.20	5.8	40.0	—	—	—
6 .....	12.29	2.1	40.0	12.29	2.1	40.0	—	—	—
	14.70	9.0	40.0	14.70	9.0	40.0	—	—	—
Rolling machine operators .....									
	13.41	7.5	41.2	13.41	7.5	41.2	—	—	—
Drilling and boring machine operators .....									
3 .....	10.21	16.7	40.0	10.21	16.7	40.0	—	—	—
4 .....	11.89	2.5	40.0	11.89	2.5	40.0	—	—	—
5 .....	15.64	7.7	40.0	15.64	7.7	40.0	—	—	—
	14.58	6.6	40.0	14.58	6.6	40.0	—	—	—
Grinding, abrading, buffing, and polishing machine operators .....									
1 .....	12.44	3.9	39.6	12.44	3.9	39.6	—	—	—
2 .....	8.48	2.4	39.7	8.48	2.4	39.7	—	—	—
3 .....	9.75	2.0	38.0	9.75	2.0	38.0	—	—	—
4 .....	13.81	2.9	39.8	13.81	2.9	39.8	—	—	—
	13.04	3.8	40.0	13.04	3.8	40.0	—	—	—
Forging machine operators .....									
	13.50	7.4	40.0	13.50	7.4	40.0	—	—	—
Numerical control machine operators .....									
2 .....	13.15	2.5	40.0	13.15	2.5	40.0	—	—	—
3 .....	9.95	4.7	40.0	9.95	4.7	40.0	—	—	—
4 .....	12.06	9.3	40.0	12.06	9.3	40.0	—	—	—
6 .....	14.74	4.0	40.0	14.74	4.0	40.0	—	—	—
	15.28	3.7	40.0	15.28	3.7	40.0	—	—	—

See footnotes at end of table.

Table 6. Occupations<sup>1</sup> and levels,<sup>2</sup> East North Central: Mean hourly earnings<sup>3</sup> and weekly hours, private industry and State and local government, National Compensation Survey,<sup>4</sup> 1998—Continued

Occupations and levels	Total			Private industry			State and local government		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)	
<b>Blue collar</b> —Continued									
<b>Machine operators, assemblers, and inspectors</b> —Continued									
Numerical control machine operators —Continued									
7 .....	\$15.48	9.6	40.0	\$15.48	9.6	40.0	—	—	—
Fabricating machine operators, n.e.c. ....	15.06	3.1	40.1	15.06	3.1	40.1	—	—	—
1 .....	7.14	6.2	40.0	7.14	6.2	40.0	—	—	—
2 .....	9.49	5.8	40.1	9.49	5.8	40.1	—	—	—
3 .....	16.16	3.8	39.9	16.16	3.8	39.9	—	—	—
4 .....	16.62	3.8	40.2	16.62	3.8	40.2	—	—	—
5 .....	12.26	4.5	40.4	12.26	4.5	40.4	—	—	—
6 .....	16.13	8.1	40.0	16.13	8.1	40.0	—	—	—
7 .....	14.83	5.5	40.0	14.83	5.5	40.0	—	—	—
Molding and casting machine operators .....	10.74	3.2	39.9	10.74	3.2	39.9	—	—	—
1 .....	8.70	7.9	39.7	8.70	7.9	39.7	—	—	—
2 .....	9.55	5.4	39.7	9.55	5.4	39.7	—	—	—
3 .....	10.70	2.3	40.1	10.70	2.3	40.1	—	—	—
4 .....	12.00	5.6	40.0	12.00	5.6	40.0	—	—	—
5 .....	15.66	10.4	41.0	15.66	10.4	41.0	—	—	—
6 .....	13.49	7.2	40.0	13.49	7.2	40.0	—	—	—
Metal plating machine operators .....	11.86	7.2	41.3	11.86	7.2	41.3	—	—	—
4 .....	13.52	7.3	42.6	13.52	7.3	42.6	—	—	—
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	—	—	—
Printing press operators .....	13.82	6.3	39.6	13.82	6.3	39.6	—	—	—
4 .....	12.65	10.8	39.8	12.63	11.0	39.8	—	—	—
6 .....	16.35	9.1	39.3	16.35	9.1	39.3	—	—	—
7 .....	19.11	5.9	39.3	19.11	5.9	39.3	—	—	—
Photoengravers and lithographers .....	16.68	5.0	38.6	16.68	5.0	38.6	—	—	—
5 .....	14.38	1.5	40.0	14.38	1.5	40.0	—	—	—
7 .....	18.88	7.5	38.7	18.88	7.5	38.7	—	—	—
Typesetters and compositors .....	13.08	5.6	39.9	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	—	—	—
2 .....	8.69	3.4	40.0	8.69	3.4	40.0	—	—	—
3 .....	13.25	18.0	39.0	13.25	18.0	39.0	—	—	—
Laundering and dry cleaning machine operators .....	7.21	3.8	37.9	7.08	3.5	37.8	\$9.10	5.7	40.0
1 .....	7.36	2.6	35.9	7.16	1.7	35.6	—	—	—
3 .....	7.63	1.3	38.6	7.56	1.3	38.5	—	—	—
Packaging and filling machine operators .....	12.79	3.7	39.6	12.79	3.7	39.6	—	—	—
1 .....	9.77	5.2	38.8	9.77	5.2	38.8	—	—	—
2 .....	11.31	2.1	38.5	11.31	2.1	38.5	—	—	—
3 .....	12.30	3.4	40.1	12.30	3.4	40.1	—	—	—
4 .....	13.83	2.3	39.9	13.83	2.3	39.9	—	—	—
5 .....	14.08	3.6	41.0	14.08	3.6	41.0	—	—	—
Extruding and forming machine operators .....	11.49	3.0	40.0	11.49	3.0	40.0	—	—	—
2 .....	9.60	7.9	39.8	9.60	7.9	39.8	—	—	—
3 .....	13.41	15.0	39.9	13.41	15.0	39.9	—	—	—
5 .....	14.86	4.3	40.0	14.86	4.3	40.0	—	—	—
Mixing and blending machine operators .....	14.66	4.5	39.9	14.66	4.5	39.9	—	—	—
2 .....	11.31	7.4	40.3	11.31	7.4	40.3	—	—	—
4 .....	16.78	7.8	39.9	16.78	7.8	39.9	—	—	—
5 .....	16.55	6.1	40.0	16.55	6.1	40.0	—	—	—
Separating, filtering, and clarifying machine operators .....	16.49	4.0	40.1	16.49	4.0	40.1	—	—	—
5 .....	14.81	7.9	40.3	14.81	7.9	40.3	—	—	—
Compressing and compacting machine operators .....	10.47	3.5	40.0	10.47	3.5	40.0	—	—	—
3 .....	12.19	5.6	40.0	12.19	5.6	40.0	—	—	—

See footnotes at end of table.

Table 6. Occupations <sup>1</sup> and levels,<sup>2</sup> East North Central: Mean hourly earnings<sup>3</sup> and weekly hours, private industry and State and local government, National Compensation Survey,<sup>4</sup> 1998—Continued

Occupations and levels	Total			Private industry			State and local government		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)	
<b>Blue collar—Continued</b>									
<b>Machine operators, assemblers, and inspectors—Continued</b>									
Painting and paint spraying machine operators	\$12.31	4.9	40.4	\$12.31	4.9	40.4	—	—	—
2 .....	9.62	5.7	40.0	9.62	5.7	40.0	—	—	—
3 .....	12.72	4.1	40.0	12.72	4.1	40.0	—	—	—
4 .....	14.17	5.3	41.3	14.17	5.3	41.3	—	—	—
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	16.79	7.0	39.9	—	—	—
5 .....	18.45	9.2	40.0	18.46	9.4	40.0	—	—	—
Crushing and grinding machine operators .....	12.68	10.8	40.0	12.68	10.8	40.0	—	—	—
3 .....	12.32	9.7	40.0	12.32	9.7	40.0	—	—	—
Slicing and cutting machine operators .....	13.58	4.7	40.0	13.58	4.7	40.0	—	—	—
2 .....	12.02	7.3	40.0	12.02	7.3	40.0	—	—	—
3 .....	11.16	3.3	39.8	11.16	3.3	39.8	—	—	—
4 .....	14.19	10.8	40.0	14.19	10.8	40.0	—	—	—
Photographic process machine operators .....	11.19	6.1	38.4	11.19	6.1	38.4	—	—	—
Miscellaneous machine operators, n.e.c. ....	11.97	5.3	39.8	11.96	5.3	39.8	—	—	—
1 .....	9.08	6.3	38.8	9.08	6.3	38.8	—	—	—
2 .....	9.70	4.6	39.8	9.70	4.6	39.8	—	—	—
3 .....	10.22	9.1	40.0	10.21	9.1	40.0	—	—	—
4 .....	15.03	4.8	39.9	15.03	4.8	39.9	—	—	—
5 .....	14.25	3.4	40.0	14.25	3.4	40.0	—	—	—
6 .....	17.26	3.0	40.0	17.26	3.0	40.0	—	—	—
7 .....	20.09	6.3	39.9	20.38	6.4	39.9	—	—	—
Welders and cutters .....	14.86	3.4	39.9	14.86	3.4	39.9	—	—	—
2 .....	11.68	11.1	40.0	11.68	11.1	40.0	—	—	—
3 .....	14.71	9.5	40.0	14.71	9.5	40.0	—	—	—
4 .....	14.53	7.3	40.0	14.53	7.3	40.0	—	—	—
5 .....	14.87	5.0	40.1	14.86	5.0	40.1	—	—	—
7 .....	18.39	3.9	40.0	18.39	3.9	40.0	—	—	—
Solders and braziers .....	11.48	11.7	39.8	11.48	11.7	39.8	—	—	—
Assemblers .....	13.31	3.7	39.6	13.31	3.7	39.6	—	—	—
1 .....	7.53	4.0	38.8	7.53	4.0	38.8	—	—	—
2 .....	10.92	3.7	39.9	10.92	3.7	39.9	—	—	—
3 .....	16.22	2.5	40.0	16.22	2.5	40.0	—	—	—
4 .....	14.72	6.2	39.7	14.72	6.2	39.7	—	—	—
5 .....	14.40	8.3	39.3	14.40	8.3	39.3	—	—	—
6 .....	15.48	2.5	39.7	15.48	2.5	39.7	—	—	—
7 .....	15.66	4.4	40.0	15.66	4.4	40.0	—	—	—
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	13.34	11.8	40.0	—	—	—
Hand painting, coating, and decorating .....	10.41	8.7	40.0	9.89	8.1	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	11.27	5.2	39.6	—	—	—
1 .....	7.59	5.1	35.9	7.59	5.1	35.9	—	—	—
2 .....	8.90	8.4	40.0	8.90	8.4	40.0	—	—	—
3 .....	15.36	7.2	40.0	15.36	7.2	40.0	—	—	—
Production inspectors, checkers and examiners	11.45	6.0	40.0	11.45	6.0	40.0	—	—	—
1 .....	8.82	4.7	38.5	8.82	4.7	38.5	—	—	—
2 .....	10.42	7.8	40.0	10.42	7.8	40.0	—	—	—
3 .....	10.36	9.0	40.0	10.36	9.0	40.0	—	—	—
4 .....	11.48	3.7	39.9	11.48	3.7	39.9	—	—	—
5 .....	11.90	2.9	40.4	11.90	2.9	40.4	—	—	—
6 .....	18.12	4.0	39.9	18.15	3.9	39.9	—	—	—
7 .....	18.03	4.8	40.0	18.03	4.8	40.0	—	—	—
Production testers .....	13.44	6.8	38.5	13.44	6.8	38.5	—	—	—
4 .....	12.11	2.1	34.8	12.11	2.1	34.8	—	—	—
5 .....	15.08	4.8	40.0	15.08	4.8	40.0	—	—	—
Graders and sorters, except agricultural .....	9.12	2.4	40.0	9.12	2.4	40.0	—	—	—

See footnotes at end of table.



Table 6. Occupations<sup>1</sup> and levels,<sup>2</sup> East North Central: Mean hourly earnings<sup>3</sup> and weekly hours, private industry and State and local government, National Compensation Survey,<sup>4</sup> 1998—Continued

Occupations and levels	Total			Private industry			State and local government		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)	
<b>Blue collar—Continued</b>									
<b>Transportation and material moving</b> .....	\$14.42	1.4	36.5	\$14.42	1.7	37.5	\$14.40	2.6	31.7
1 .....	7.98	3.5	28.2	7.98	3.6	28.0	—	—	—
2 .....	11.79	3.2	34.6	11.19	4.6	34.7	14.58	4.3	33.9
3 .....	13.66	2.0	36.0	13.70	2.1	38.4	13.47	6.8	28.9
4 .....	14.95	2.4	38.6	15.04	2.5	40.0	14.25	3.9	30.1
5 .....	16.25	3.0	36.3	16.69	3.4	37.1	14.56	5.4	33.8
6 .....	18.08	3.9	43.7	18.33	4.0	44.2	14.86	3.2	38.8
7 .....	19.83	4.3	40.3	19.70	4.9	40.4	20.95	3.0	40.0
9 .....	21.66	3.9	40.0	21.66	3.9	40.0	—	—	—
Supervisors, motor vehicle operators .....	17.24	7.5	40.9	15.50	9.4	41.2	21.67	3.6	40.0
7 .....	19.61	2.5	41.5	17.78	2.8	42.9	21.67	3.6	40.0
Truck drivers .....	15.51	2.2	40.2	15.48	2.4	40.4	15.73	6.7	38.9
1 .....	7.72	6.5	36.4	7.72	6.6	36.4	—	—	—
2 .....	11.07	3.9	38.4	10.92	4.0	39.0	—	—	—
3 .....	14.96	5.2	38.4	14.42	5.0	38.1	17.30	11.0	39.7
4 .....	15.77	2.8	40.9	15.81	2.9	41.0	15.11	7.4	39.9
5 .....	17.32	4.5	39.8	17.59	4.7	39.9	14.33	8.8	38.3
6 .....	17.79	6.1	50.6	17.99	6.2	51.5	—	—	—
Driver-sales workers .....	14.64	11.1	34.5	14.64	11.1	34.5	—	—	—
4 .....	18.13	12.8	40.0	18.13	12.8	40.0	—	—	—
Bus drivers .....	12.66	3.0	26.9	11.18	9.2	25.6	13.41	2.3	27.5
2 .....	13.48	7.0	29.4	10.50	17.0	25.6	15.62	2.8	33.0
3 .....	11.45	3.0	25.8	—	—	—	12.03	2.2	25.9
4 .....	12.26	4.4	26.7	9.26	3.1	30.7	13.43	3.7	25.4
5 .....	13.77	6.0	24.9	—	—	—	12.78	8.3	26.5
Taxicab drivers and chauffeurs .....	8.70	14.3	28.0	8.70	14.3	28.0	—	—	—
1 .....	7.84	15.9	25.0	7.84	15.9	25.0	—	—	—
Parking lot attendants .....	7.46	5.2	22.1	7.28	5.1	20.6	—	—	—
1 .....	6.86	6.4	20.7	6.52	6.2	19.0	—	—	—
Motor transportation, n.e.c. ....	8.10	10.1	25.1	7.25	7.4	24.2	—	—	—
1 .....	6.05	2.2	21.9	6.05	2.2	21.9	—	—	—
2 .....	7.36	9.3	25.1	7.30	9.4	24.9	—	—	—
Railroad conductors and yardmasters .....	18.89	2.5	40.0	18.89	2.5	40.0	—	—	—
Locomotive operating .....	15.50	7.8	43.1	15.47	8.0	43.2	—	—	—
Supervisors, material moving equipment .....	17.46	6.1	40.1	17.46	6.1	40.1	—	—	—
6 .....	13.29	2.5	40.3	13.29	2.5	40.3	—	—	—
7 .....	15.16	2.5	40.0	15.16	2.5	40.0	—	—	—
Operating engineers .....	20.84	4.8	40.0	22.22	4.4	40.0	17.16	9.0	39.9
4 .....	18.72	9.3	40.0	—	—	—	—	—	—
5 .....	17.46	7.1	40.0	—	—	—	16.52	12.8	40.0
6 .....	23.72	7.4	40.0	—	—	—	—	—	—
Crane and tower operators .....	14.45	5.0	40.3	14.45	5.0	40.3	—	—	—
3 .....	13.22	9.8	40.0	13.22	9.8	40.0	—	—	—
4 .....	14.69	7.8	40.0	14.69	7.8	40.0	—	—	—
5 .....	15.26	7.3	41.2	15.26	7.3	41.2	—	—	—
Excavating and loading machine operators .....	16.56	5.9	40.0	16.67	7.2	40.0	—	—	—
Grader, dozer, and scraper operators .....	16.75	20.0	40.5	21.99	12.9	41.0	—	—	—
Industrial truck and tractor equipment operators .....	13.07	2.1	39.8	13.07	2.1	39.8	—	—	—
1 .....	9.27	11.0	40.0	9.27	11.0	40.0	—	—	—
2 .....	11.13	3.3	39.5	11.13	3.3	39.5	—	—	—
3 .....	13.34	2.6	39.6	13.34	2.6	39.6	—	—	—
4 .....	14.23	4.1	40.1	14.23	4.1	40.1	—	—	—
5 .....	14.19	3.8	40.0	14.50	3.6	40.0	—	—	—
Miscellaneous material moving equipment operators, n.e.c. ....	14.56	4.1	36.8	14.59	4.5	36.6	14.15	8.6	40.0
4 .....	13.54	7.1	39.1	13.89	9.1	38.8	—	—	—
5 .....	17.38	2.6	36.4	17.27	3.1	35.9	—	—	—
<b>Handlers, equipment cleaners, helpers, and laborers</b> .....	10.65	1.4	34.6	10.49	1.4	34.4	13.07	4.0	37.7
1 .....	8.46	2.2	31.4	8.36	2.1	31.3	11.52	16.6	33.4

See footnotes at end of table.

Table 6. Occupations <sup>1</sup> and levels,<sup>2</sup> East North Central: Mean hourly earnings<sup>3</sup> and weekly hours, private industry and State and local government, National Compensation Survey,<sup>4</sup> 1998—Continued

Occupations and levels	Total			Private industry			State and local government		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)	
<b>Blue collar—Continued</b>									
<b>Handlers, equipment cleaners, helpers, and laborers—Continued</b>									
2 .....	\$10.03	2.0	35.5	\$10.05	2.1	35.3	\$9.73	7.4	38.6
3 .....	12.04	3.1	37.1	12.03	3.2	37.1	12.24	5.5	38.4
4 .....	13.14	3.0	39.0	13.03	3.4	39.0	14.03	2.1	39.4
5 .....	15.03	3.4	39.4	15.09	3.9	39.5	14.72	5.4	38.9
6 .....	14.90	7.8	40.0	14.92	9.0	40.0	14.75	2.4	40.0
7 .....	18.31	3.0	40.0	18.40	4.9	39.9	18.19	2.9	40.0
Supervisors, agriculture-related workers .....	17.13	6.0	40.0	—	—	—	17.27	6.8	40.0
7 .....	16.32	6.2	40.0	—	—	—	15.74	6.3	40.0
Groundskeepers and gardeners, except farm ...	11.26	4.9	34.5	9.67	11.4	33.5	12.21	5.3	35.1
1 .....	6.92	3.5	27.3	7.24	3.6	30.1	6.42	6.0	23.9
2 .....	10.97	5.4	38.9	9.37	8.8	40.0	11.46	6.1	38.5
3 .....	11.08	4.7	35.4	10.80	9.9	32.7	11.23	5.0	37.1
4 .....	10.61	3.6	36.7	—	—	—	12.46	1.8	39.5
5 .....	15.15	5.8	38.9	—	—	—	15.52	8.4	38.3
Animal caretakers, except farm .....	13.48	5.1	38.2	—	—	—	—	—	—
Supervisors, handlers, equipment cleaners, and laborers, n.e.c. ....	14.84	5.8	39.5	14.21	5.0	39.5	—	—	—
4 .....	9.93	9.9	39.9	9.93	9.9	39.9	—	—	—
5 .....	13.73	6.2	37.5	13.38	6.4	37.4	—	—	—
7 .....	17.66	3.6	40.0	16.36	5.3	40.0	—	—	—
Helpers, mechanics and repairers .....	14.17	5.2	39.6	14.21	5.7	40.0	13.85	7.1	35.8
4 .....	12.36	8.8	40.0	10.27	7.4	40.0	—	—	—
Helpers, construction trades .....	15.72	11.8	40.0	15.74	11.8	40.0	—	—	—
Construction laborers .....	16.13	2.8	39.4	16.38	3.0	39.5	14.08	6.7	38.9
1 .....	14.51	11.1	40.0	—	—	—	—	—	—
2 .....	16.07	14.3	40.0	—	—	—	—	—	—
3 .....	13.80	9.6	38.4	13.74	11.3	38.7	—	—	—
4 .....	15.18	5.4	39.3	15.18	5.4	39.3	—	—	—
Production helpers .....	10.27	4.7	38.6	10.25	4.7	38.6	—	—	—
1 .....	7.96	10.0	39.9	7.96	10.0	39.9	—	—	—
2 .....	9.35	8.9	35.0	9.35	8.9	35.0	—	—	—
3 .....	10.78	6.5	38.9	10.77	6.5	38.9	—	—	—
4 .....	9.95	5.6	40.0	9.95	5.6	40.0	—	—	—
5 .....	14.67	3.8	39.2	—	—	—	—	—	—
Stock handlers and baggers .....	9.21	1.8	29.4	9.19	1.8	29.4	—	—	—
1 .....	7.37	1.5	24.7	7.37	1.5	24.7	—	—	—
2 .....	9.64	3.5	33.9	9.64	3.5	33.9	—	—	—
3 .....	10.80	4.0	35.6	10.79	4.0	35.5	—	—	—
4 .....	12.56	6.6	39.7	12.50	6.7	39.7	—	—	—
5 .....	12.49	1.6	39.5	12.49	1.6	39.5	—	—	—
Machine feeders and offbearers .....	9.65	4.1	39.7	9.65	4.1	39.7	—	—	—
1 .....	8.21	3.0	39.5	8.21	3.0	39.5	—	—	—
2 .....	9.31	3.4	39.9	9.31	3.4	39.9	—	—	—
3 .....	12.99	10.2	40.0	12.99	10.2	40.0	—	—	—
4 .....	13.27	9.1	40.0	13.27	9.1	40.0	—	—	—
Freight, stock, and material handlers, n.e.c. ....	12.09	3.2	32.4	12.06	3.3	32.3	—	—	—
1 .....	9.88	4.0	29.8	9.70	3.9	29.6	—	—	—
2 .....	9.65	5.8	29.7	9.65	5.8	29.7	—	—	—
3 .....	14.16	4.2	34.8	14.16	4.2	34.8	—	—	—
4 .....	13.92	6.2	35.2	13.92	6.2	35.2	—	—	—
5 .....	14.26	3.2	39.0	14.26	3.2	39.0	—	—	—
Garage and service station related .....	8.49	6.3	34.1	7.96	4.4	33.0	—	—	—
1 .....	7.30	9.4	34.0	7.30	9.4	34.0	—	—	—
Vehicle washers and equipment cleaners .....	10.02	6.4	37.2	10.03	6.4	37.2	—	—	—
1 .....	8.90	11.1	37.2	8.91	11.1	37.2	—	—	—
2 .....	13.20	9.3	38.4	13.20	9.3	38.4	—	—	—
3 .....	12.14	2.9	33.2	12.14	2.9	33.2	—	—	—
Hand packers and packagers .....	9.01	4.0	38.8	9.01	4.0	38.8	—	—	—

See footnotes at end of table.

Table 6. Occupations<sup>1</sup> and levels,<sup>2</sup> East North Central: Mean hourly earnings<sup>3</sup> and weekly hours, private industry and State and local government, National Compensation Survey,<sup>4</sup> 1998—Continued

Occupations and levels	Total			Private industry			State and local government		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)	
<b>Blue collar—Continued</b>									
<b>Handlers, equipment cleaners, helpers, and laborers—Continued</b>									
Hand packers and packagers—Continued									
1 .....	\$8.43	6.3	39.1	\$8.43	6.3	39.1	—	—	—
2 .....	8.58	2.4	38.9	8.58	2.4	38.9	—	—	—
3 .....	9.59	4.7	36.0	9.59	4.7	36.0	—	—	—
4 .....	13.86	9.5	39.5	13.86	9.5	39.5	—	—	—
Laborers, except construction, n.e.c. ....	10.65	3.6	36.5	10.46	3.8	36.2	\$11.97	8.8	38.7
1 .....	9.32	6.3	34.7	9.00	5.8	34.5	12.95	18.7	36.3
2 .....	10.92	7.8	37.5	11.29	7.6	37.1	8.86	13.5	40.0
3 .....	12.04	7.1	39.6	11.94	7.5	39.6	13.27	16.3	40.0
4 .....	13.85	3.7	40.0	14.22	4.7	40.0	12.93	2.3	40.0
5 .....	14.69	5.9	40.0	15.87	5.5	40.0	13.64	5.8	39.9
<b>Service</b> .....	9.66	1.3	31.1	7.87	1.2	29.5	14.08	2.5	35.8
1 .....	6.74	1.5	25.9	6.44	1.4	25.9	9.05	4.6	26.1
2 .....	7.43	1.7	29.9	7.03	1.8	29.3	9.56	6.0	33.2
3 .....	8.48	1.4	32.2	7.91	1.4	31.6	10.68	2.8	34.3
4 .....	10.17	1.9	34.7	9.69	2.6	34.0	11.31	2.5	36.3
5 .....	12.82	3.1	33.9	12.31	5.6	33.3	13.44	2.1	34.7
6 .....	15.01	2.9	40.2	12.89	3.9	39.5	15.77	3.4	40.4
7 .....	16.75	3.2	39.0	15.09	4.4	31.6	17.13	3.6	41.2
8 .....	20.16	2.4	40.4	16.24	12.5	41.0	20.51	2.3	40.4
9 .....	22.28	2.7	41.9	22.09	12.2	39.7	22.30	2.8	42.0
10 .....	24.98	11.0	42.1	—	—	—	24.98	11.0	42.1
Not able to be leveled .....	10.60	8.4	23.5	9.46	8.0	22.4	—	—	—
Protective service .....	15.24	2.7	36.7	8.75	3.9	31.9	17.72	1.8	39.0
1 .....	7.90	12.0	24.7	8.28	14.8	31.4	6.37	3.4	13.3
2 .....	7.25	3.5	32.3	7.05	3.4	33.1	9.71	7.2	25.0
3 .....	8.69	8.1	32.1	7.16	3.9	31.4	13.26	6.6	34.6
4 .....	10.31	6.4	34.6	9.84	9.8	34.5	11.00	4.6	34.7
5 .....	13.25	3.4	33.0	11.12	6.5	30.2	13.90	3.4	34.0
6 .....	16.33	3.5	40.2	16.12	9.2	35.9	16.34	3.6	40.5
7 .....	17.17	3.7	39.5	16.17	6.7	20.2	17.22	3.8	41.3
8 .....	20.54	2.3	40.6	—	—	—	20.57	2.3	40.6
9 .....	22.25	2.8	42.0	—	—	—	22.23	2.8	42.0
10 .....	24.98	11.0	42.1	—	—	—	24.98	11.0	42.1
Supervisors, firefighters and fire prevention .....	17.86	5.0	50.0	—	—	—	17.86	5.0	50.0
7 .....	16.73	9.5	50.2	—	—	—	16.73	9.5	50.2
9 .....	20.28	6.1	48.4	—	—	—	20.28	6.1	48.4
Supervisors, police and detectives .....	24.61	7.7	40.1	—	—	—	24.61	7.7	40.1
7 .....	22.30	7.5	40.2	—	—	—	22.30	7.5	40.2
8 .....	21.41	4.2	40.6	—	—	—	21.41	4.2	40.6
9 .....	25.21	3.8	39.9	—	—	—	25.21	3.8	39.9
10 .....	29.12	9.3	40.0	—	—	—	29.12	9.3	40.0
Supervisors, guards .....	13.83	15.7	37.6	13.13	9.0	38.0	—	—	—
5 .....	8.98	8.5	35.2	8.98	8.5	35.2	—	—	—
7 .....	15.24	24.7	37.7	—	—	—	—	—	—
Fire inspection and fire prevention .....	20.72	6.2	36.7	—	—	—	—	—	—
Firefighting .....	16.88	4.6	44.5	—	—	—	16.88	4.6	44.5
5 .....	14.10	4.9	31.4	—	—	—	14.10	4.9	31.4
6 .....	15.97	6.7	44.1	—	—	—	15.97	6.7	44.1
7 .....	17.78	7.5	47.0	—	—	—	17.78	7.5	47.0
8 .....	17.81	4.4	53.0	—	—	—	17.81	4.4	53.0
Police and detectives, public service .....	19.93	2.1	38.7	—	—	—	19.96	2.1	38.7
5 .....	17.05	9.6	17.9	—	—	—	17.05	9.6	17.9
6 .....	18.09	4.3	37.9	—	—	—	18.09	4.3	37.9
7 .....	18.23	3.4	39.1	—	—	—	18.30	3.4	39.1
8 .....	21.09	2.6	39.7	—	—	—	21.09	2.6	39.7
9 .....	22.54	5.4	40.4	—	—	—	22.54	5.4	40.4

See footnotes at end of table.

Table 6. Occupations<sup>1</sup> and levels,<sup>2</sup> East North Central: Mean hourly earnings<sup>3</sup> and weekly hours, private industry and State and local government, National Compensation Survey,<sup>4</sup> 1998—Continued

Occupations and levels	Total			Private industry			State and local government		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)	
<b>Service—Continued</b>									
Protective service—Continued									
Sheriffs, bailiffs, and other law enforcement officers									
4	\$15.10	4.2	39.7	—	—	—	\$15.10	4.2	39.7
7	12.46	7.4	38.9	—	—	—	12.46	7.4	38.9
8	14.08	7.5	40.0	—	—	—	14.08	7.5	40.0
8	18.11	5.9	40.4	—	—	—	18.11	5.9	40.4
Correctional institution officers									
4	14.50	4.3	38.5	—	—	—	14.50	4.3	38.5
4	10.86	4.9	34.7	—	—	—	10.86	4.9	34.7
5	13.79	6.1	39.5	—	—	—	13.79	6.1	39.5
6	17.00	1.0	38.2	—	—	—	17.00	1.0	38.2
7	15.35	4.8	40.0	—	—	—	15.35	4.8	40.0
Crossing guards									
1	7.19	9.6	13.5	—	—	—	7.22	9.8	13.6
1	6.36	3.5	13.4	—	—	—	6.38	3.6	13.5
Guards and police, except public service									
1	8.89	4.3	32.0	\$8.36	3.9	32.1	13.87	6.3	30.5
1	8.48	16.2	31.8	8.49	16.3	32.4	—	—	—
2	7.12	3.7	34.5	7.06	3.7	34.4	—	—	—
3	7.92	8.4	32.2	7.18	4.0	31.8	13.78	12.5	35.5
4	10.14	10.5	35.0	10.13	10.8	35.4	—	—	—
5	12.64	4.9	26.9	12.21	6.2	28.1	13.71	5.9	24.3
6	11.79	2.0	34.8	—	—	—	—	—	—
7	16.96	6.0	16.4	15.97	7.1	12.7	—	—	—
Protective service, n.e.c.									
2	10.56	12.8	27.5	7.70	14.3	22.7	11.94	13.7	30.5
2	7.54	6.4	22.2	—	—	—	8.26	10.3	25.1
3	8.48	11.9	21.0	—	—	—	9.95	13.7	21.8
4	8.12	8.7	29.7	—	—	—	9.14	3.5	32.6
5	11.97	6.1	35.6	—	—	—	11.97	6.1	35.6
Food service									
1	6.81	2.7	27.5	6.61	3.1	27.3	9.27	3.1	29.4
1	5.77	1.5	24.0	5.59	1.4	24.0	8.86	3.9	25.2
2	5.76	3.5	27.2	5.63	3.9	27.0	7.97	8.4	31.4
3	7.10	3.9	29.9	6.78	4.8	30.1	9.45	2.1	28.1
4	9.49	4.4	35.7	9.46	5.1	35.7	9.70	6.1	35.6
5	10.48	3.4	36.6	10.43	3.7	37.0	10.83	5.6	33.9
6	12.16	4.7	41.3	12.03	5.3	41.7	—	—	—
7	13.18	2.5	40.3	13.12	2.6	40.3	—	—	—
8	14.65	2.6	35.5	—	—	—	—	—	—
Supervisors, food preparation and service									
3	11.20	3.2	37.2	11.34	3.1	37.7	10.24	9.5	34.0
3	7.50	3.7	26.2	7.50	3.7	26.2	—	—	—
4	9.70	5.2	37.2	9.86	5.3	38.5	9.18	10.1	33.7
5	10.51	4.5	35.7	10.59	4.8	35.8	—	—	—
6	12.09	5.2	41.5	12.00	5.5	41.8	—	—	—
7	13.11	2.6	40.3	13.05	2.7	40.3	—	—	—
Bartenders									
2	6.66	7.2	26.3	6.66	7.2	26.3	—	—	—
2	6.44	9.0	27.1	6.44	9.0	27.1	—	—	—
3	6.98	13.3	27.5	6.98	13.3	27.5	—	—	—
Waiters and waitresses									
1	3.50	5.4	25.2	3.50	5.4	25.2	—	—	—
1	3.64	5.9	23.1	3.64	5.9	23.1	—	—	—
2	3.10	5.3	26.5	3.10	5.3	26.5	—	—	—
3	4.15	20.7	27.9	4.15	20.7	27.9	—	—	—
Cooks									
1	8.66	2.7	32.1	8.42	3.3	32.0	9.91	2.1	32.5
1	7.83	9.4	28.1	6.71	4.1	26.2	10.16	1.2	33.2
2	7.59	2.9	28.8	7.51	3.1	28.9	9.57	4.9	27.2
3	8.37	2.1	33.3	8.08	2.4	34.1	9.37	2.5	30.8
4	9.77	6.0	36.9	9.70	7.1	36.7	10.20	6.1	38.0
5	10.42	5.0	38.2	10.16	5.5	39.3	—	—	—
Food counter, fountain, and related									
1	5.94	4.4	22.5	5.94	4.4	22.5	6.46	10.5	20.4
1	6.05	2.7	22.2	6.04	2.7	22.3	—	—	—
2	6.00	5.5	22.1	6.00	5.6	22.1	—	—	—
3	5.47	25.3	24.7	5.47	25.3	24.7	—	—	—
Kitchen workers, food preparation									
1	7.28	3.2	28.8	7.30	3.4	28.5	7.06	5.2	31.4
1	6.68	2.9	24.2	6.68	3.0	24.5	—	—	—
2	7.37	6.1	32.6	7.52	6.7	31.7	—	—	—
3	7.73	3.4	31.9	7.69	3.7	31.8	—	—	—

See footnotes at end of table.

Table 6. Occupations<sup>1</sup> and levels,<sup>2</sup> East North Central: Mean hourly earnings<sup>3</sup> and weekly hours, private industry and State and local government, National Compensation Survey,<sup>4</sup> 1998—Continued

Occupations and levels	Total			Private industry			State and local government		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)	
<b>Service—Continued</b>									
Food service—Continued									
Kitchen workers, food preparation—Continued									
4 .....	\$9.26	2.5	37.5	\$9.26	2.5	37.5	—	—	—
Waiters'/Waitresses' assistants .....	4.86	4.4	20.8	4.86	4.4	20.8	—	—	—
1 .....	5.08	3.1	20.0	5.08	3.1	20.0	—	—	—
Food preparation, n.e.c. ....	6.98	2.7	27.3	6.75	3.2	27.5	\$9.06	3.3	25.0
1 .....	6.39	1.8	25.3	6.23	1.4	25.4	8.42	7.0	23.8
2 .....	7.42	3.9	32.6	7.19	4.1	33.0	9.25	4.2	29.3
3 .....	8.81	2.5	26.7	8.07	3.5	31.5	9.79	3.0	22.2
Health service .....	8.81	1.8	33.4	8.45	.7	32.9	10.64	6.7	36.5
1 .....	7.49	2.8	32.9	7.47	2.6	32.1	—	—	—
2 .....	7.88	2.5	33.8	7.97	1.6	33.6	7.27	12.9	35.5
3 .....	8.55	1.3	32.6	8.38	1.2	32.3	10.16	7.0	35.7
4 .....	9.77	3.6	33.9	9.20	1.6	33.2	12.04	4.8	37.1
5 .....	12.55	2.5	35.2	11.01	3.8	34.2	13.32	1.9	35.8
6 .....	12.05	2.7	39.6	13.10	4.9	38.4	—	—	—
Health aides, except nursing .....	9.70	2.9	33.5	8.99	2.3	33.1	12.21	2.0	35.1
1 .....	7.53	4.6	34.9	7.53	4.6	35.0	—	—	—
2 .....	8.22	3.9	30.6	7.95	4.2	30.2	10.19	1.0	33.9
3 .....	8.93	4.7	30.7	8.48	2.9	30.8	12.64	3.6	29.9
4 .....	10.10	2.9	37.4	10.02	3.0	37.6	10.99	4.7	34.7
5 .....	12.43	2.3	35.7	11.22	4.9	36.4	13.02	.8	35.4
6 .....	11.99	2.4	39.9	13.23	5.8	39.5	—	—	—
Nursing aides, orderlies and attendants .....	8.47	1.9	33.4	8.25	.9	32.8	9.75	9.9	37.4
1 .....	7.47	3.8	32.1	7.43	3.9	30.8	—	—	—
2 .....	7.81	2.8	34.6	7.98	1.6	34.4	6.73	10.3	35.8
3 .....	8.44	1.3	33.2	8.36	1.4	32.8	9.33	2.9	38.2
4 .....	9.59	5.8	32.2	8.63	2.4	30.7	12.21	4.9	37.5
5 .....	12.88	6.2	34.0	10.45	3.6	29.4	14.15	2.4	36.9
Cleaning and building service .....	9.70	1.8	33.8	8.87	2.2	32.2	11.54	2.2	38.3
1 .....	7.85	2.1	30.8	7.48	2.4	30.2	10.92	5.0	37.7
2 .....	10.14	3.7	33.7	9.68	5.1	32.1	11.08	2.3	37.3
3 .....	10.50	2.9	37.8	9.90	2.9	36.7	10.93	4.8	38.6
4 .....	11.55	2.1	39.0	10.47	2.1	38.7	12.16	2.8	39.2
5 .....	12.99	3.2	39.7	12.60	4.7	39.3	13.67	2.8	40.5
6 .....	13.27	5.0	40.0	12.80	6.1	40.0	14.82	3.7	40.0
7 .....	16.37	10.3	40.0	—	—	—	15.68	11.6	40.0
Supervisors, cleaning and building service workers .....	12.91	5.4	39.6	12.08	7.6	39.4	14.33	7.9	40.1
3 .....	9.79	8.9	39.3	8.10	7.0	38.5	—	—	—
4 .....	10.57	8.2	40.0	9.72	5.0	40.0	—	—	—
5 .....	12.41	4.3	39.9	12.21	4.8	39.8	—	—	—
6 .....	12.89	9.8	40.0	—	—	—	—	—	—
7 .....	16.13	12.7	40.0	—	—	—	16.26	14.2	40.0
Maids and housemen .....	6.90	2.2	31.3	6.87	2.2	31.3	8.26	3.4	30.3
1 .....	6.72	3.0	34.5	6.71	3.1	34.5	—	—	—
2 .....	7.27	4.1	25.5	7.21	4.0	25.4	—	—	—
3 .....	6.93	5.5	33.4	6.93	5.5	33.4	—	—	—
Janitors and cleaners .....	9.93	1.7	33.9	9.15	2.5	32.0	11.35	2.2	38.3
1 .....	8.17	2.4	29.9	7.73	2.9	29.0	10.98	5.0	37.7
2 .....	10.68	3.3	35.8	10.39	5.1	34.8	11.14	2.3	37.6
3 .....	10.62	3.2	37.8	10.19	3.3	36.8	10.92	5.0	38.5
4 .....	11.68	2.1	38.9	10.74	2.4	38.3	12.11	2.7	39.2
5 .....	13.41	4.4	39.6	13.06	8.3	38.6	13.78	3.0	40.7
Personal service .....	9.22	3.6	26.9	8.93	4.3	26.9	9.94	6.7	27.0
1 .....	6.91	7.4	20.3	6.23	2.6	19.8	7.91	13.4	21.1
2 .....	7.21	3.7	26.0	6.60	3.2	25.7	8.70	3.4	26.9
3 .....	8.07	2.8	29.7	7.89	3.4	30.3	9.10	3.0	27.0
4 .....	10.80	7.6	32.2	10.73	9.6	31.1	10.95	11.2	34.5
5 .....	14.78	13.2	29.3	15.52	17.2	28.6	12.34	4.0	31.9
6 .....	11.32	4.8	39.9	10.54	2.5	39.8	—	—	—
7 .....	19.58	8.7	27.8	—	—	—	—	—	—

See footnotes at end of table.

Table 6. Occupations<sup>1</sup> and levels,<sup>2</sup> East North Central: Mean hourly earnings<sup>3</sup> and weekly hours, private industry and State and local government, National Compensation Survey,<sup>4</sup> 1998—Continued

Occupations and levels	Total			Private industry			State and local government		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)	
<b>Service—Continued</b>									
Personal service—Continued									
8 .....	\$17.06	16.3	39.5	—	—	—	—	—	—
Supervisors, personal service .....	15.20	21.4	39.0	\$10.10	11.6	39.6	—	—	—
5 .....	9.19	4.3	38.9	—	—	—	—	—	—
Attendants, amusement, and recreation facilities .....	6.43	2.3	23.2	6.08	2.3	25.0	\$6.70	3.1	22.0
1 .....	6.06	2.4	23.3	6.02	3.6	28.8	6.10	3.2	19.9
2 .....	6.89	4.7	21.4	—	—	—	7.38	3.1	28.5
3 .....	7.22	7.0	24.8	—	—	—	7.68	9.9	21.4
Guides .....	8.37	7.3	29.3	—	—	—	—	—	—
Ushers .....	6.21	4.5	17.5	6.21	4.7	17.9	—	—	—
1 .....	5.79	.9	15.0	5.79	1.2	15.2	—	—	—
Public transportation attendants .....	32.03	6.7	18.5	34.87	5.6	17.5	—	—	—
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	7.25	4.6	28.7	8.18	23.6	32.9
1 .....	5.59	1.6	26.4	5.66	1.8	22.7	—	—	—
2 .....	6.40	5.0	24.5	6.39	5.0	25.2	—	—	—
3 .....	7.80	4.1	32.6	7.80	4.2	32.7	—	—	—
4 .....	8.77	2.3	35.2	—	—	—	—	—	—
5 .....	12.34	5.2	36.0	—	—	—	—	—	—
Early childhood teachers' assistants .....	7.61	2.8	27.4	6.59	2.3	26.2	8.88	2.2	29.1
1 .....	6.42	1.6	10.6	6.19	1.5	11.7	6.78	2.2	9.3
2 .....	7.03	7.1	31.5	6.17	6.2	31.9	8.51	6.1	30.9
3 .....	7.71	3.3	27.8	6.84	3.8	26.0	9.29	3.4	31.7
4 .....	8.70	3.8	31.7	—	—	—	8.76	4.6	34.1
Child care workers, n.e.c. ....	8.81	4.6	24.7	7.89	4.8	26.7	10.02	5.8	22.5
1 .....	6.60	5.9	13.8	5.27	.0	14.1	7.05	5.8	13.7
2 .....	8.21	5.9	22.6	6.59	3.4	20.2	9.29	2.9	24.7
3 .....	8.16	9.4	30.4	7.85	11.4	30.6	9.40	6.7	29.3
4 .....	9.70	14.0	29.7	7.50	5.9	27.5	13.71	13.9	35.0
5 .....	9.69	10.1	32.3	8.73	11.5	31.2	11.59	6.7	34.7
Service, n.e.c. ....	9.03	5.3	28.6	8.07	3.0	27.8	11.79	7.2	31.2
1 .....	8.41	11.9	23.9	6.94	4.4	20.6	11.14	6.2	33.8
2 .....	8.19	9.7	23.6	8.08	10.6	24.1	—	—	—
3 .....	8.47	3.5	28.0	8.50	3.7	29.8	7.98	9.1	13.9
4 .....	9.97	8.8	36.5	8.61	6.4	37.7	11.93	9.6	34.8
5 .....	8.21	6.3	33.9	—	—	—	—	—	—

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

<sup>2</sup> Each occupation for which data are collected in an establishment is evaluated based on 10 factors, including knowledge, complexity, work environment, etc. Points are assigned based on the occupation's rank within each factor. The points are summed to determine the overall level of the occupation. See the Technical Note for more information.

<sup>3</sup> Earnings are the straight-time hourly wages or salaries paid to employees. They include incentive pay, cost-of-living adjustments, and hazard pay. Excluded are premium pay for overtime, vacations, and holidays; nonproduction bonuses; and tips. The mean is computed by totaling the pay of all workers and dividing by the number of workers,

weighted by hours.

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

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

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.

## Technical Note

The data in this bulletin are based on the National Compensation Survey (NCS) conducted by the Bureau of Labor Statistics throughout the year. The surveys are locality-based and cover establishments in private industry and State and local governments. Bulletins are issued for individual localities, when sufficient data meet publication standards. Agriculture, private households, and the Federal Government are excluded from the scope of the survey.

**Survey scope.** In the East North Central census division, the NCS studied 3,537 establishments with 50 or more workers,<sup>1</sup> representing 59,800 establishments within the scope of the survey. (See table A.) The number of workers represented by the survey is shown in table B. For purposes of this survey, an establishment is an economic unit that produces goods or services, a central administrative office, or an auxiliary unit providing support services to a company. For private industry, an establishment is usually at a single physical location. For State and local government, an establishment is defined as all locations of a government entity.

**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 and data collection.** The sample for this survey was selected using a three stage design. The first stage consisted of the selection of areas. The nationwide NCS sample consists of 154 metropolitan and nonmetropolitan areas that represent the Nation's 326 metropolitan statistical areas and the remaining portions of the 50 States. Metropolitan areas are designated Metropolitan Statistical Areas (MSA) or Consolidated Metropolitan Statistical Areas (CMSA), as defined in 1994 by the Office of Management and Budget. Nonmetropolitan areas are counties that do not fit the metropolitan area definition.

The NCS locality areas that contribute to the East North Central census division are:

Bloomington-Normal, IL MSA  
Bloomington, IN MSA  
Chicago-Gary-Kenosha, IL-IN-WI CMSA  
Cincinnati-Hamilton, OH-KY-IN CMSA  
Cleveland-Akron, OH CMSA  
Columbus, OH MSA  
Dayton-Springfield, OH MSA  
Delta County, MI  
Detroit-Ann Arbor-Flint, MI CMSA  
Elkhart-Goshen, IN MSA  
Fond du Lac County, WI  
Grand Rapids-Muskegon-Holland, MI MSA  
Green Lake County, WI  
Henderson County, IL  
Indianapolis, IN MSA  
Jefferson County, IN  
Juneau County, WI  
Kalamazoo-Battle Creek, MI MSA  
Marshall County, IN  
Milwaukee-Racine, WI CMSA  
Monroe County, OH  
Morgan County, IL  
Rockford, IL MSA  
Sauk County, WI  
Seneca County, OH  
Wayne County, OH  
Youngstown-Warren, OH MSA

In the second stage, the sample of establishments was drawn by first stratifying the sampling frame by ownership and industry. 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 the establishment represents similar units (by industry and employment size) in the economy which were not selected for collection.

The third stage of sample selection was a probability sample of occupations within a sampled establishment. In the East North Central census division, collection was conducted between January 1998 and April 1999 with an average reference period of September 1998. Additional information about the area sample and method of estimation is available in the *National Compensation Survey: Occupational Wages in the United States, 1998, Bulletin 2529*.

<sup>1</sup> Establishments classified as employing between 50 and 99 workers may include establishments with fewer than 50 workers because staff reductions may have taken place between the time of sampling and the time of data collection.

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

In step three, certain other job characteristics of the chosen workers 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 workers, rather than solely on hours worked. Finally, the worker was identified as being in a union or a nonunion job.

The fourth step in the job classification procedure was to determine the work level of each of the establishment's selected jobs, using a *generic leveling* process. This process, involving discussions between the Bureau's field economist and the respondent, ranks and compares all selected establishment occupations using 10 leveling factors. For more information on generic leveling and an example of how to use the criteria for leveling a job, see appendix C and appendix D at <http://www.bls.gov/compub.htm> or any of our published NCS locality bulletins. This website also has a link to the NCS job descriptions.

**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. Tables in this bulletin provide RSE data for indicated series.

The relative standard error can be used to calculate a "confidence interval" around a sample estimate. As an example, suppose the mean hourly earnings for all workers was \$15.09 per hour with a relative standard error of 0.6 percent for this estimate. At the 90-percent level, the confidence interval for this estimate is \$15.24 to \$14.94 ( $\$15.09 \times 1.645 \times 0.006 = \$0.149$ , rounded to \$0.15); ( $\$15.09 + .15 = \$15.24$ ;  $\$15.09 - .15 = \$14.94$ ). 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 also were not specifically measured, efforts were made to minimize nonsampling errors by the extensive training of field economists who gathered survey data by personal visit, computer editing of the data, and detailed data review.

**Census area divisions.** Data are tabulated by census divisions defined as follows: **New England** — Connecticut, Massachusetts, New Hampshire, Maine, Vermont, and Rhode Island; **Middle Atlantic** — New Jersey, New York, and Pennsylvania; **East North Central** — Illinois, Indiana, Michigan, Ohio, and Wisconsin; **West North Central** — Iowa, Kansas, Minnesota, Missouri, North Dakota, South Dakota, and Nebraska; **South Atlantic** — Delaware, District of Columbia, Florida, Georgia, Maryland, North Carolina, South Carolina, Virginia, and West Virginia; **East South Central** — Alabama, Kentucky, Mississippi, and Tennessee; **West South Central** — Arkansas, Louisiana, Oklahoma, and Texas; **Mountain** — Montana, Idaho, Wyoming, Colorado, New Mexico, Arizona,



Utah, and Nevada; and **Pacific**— Washington, Oregon, California, Hawaii, and Alaska. Some census divisions include

Consolidated Metropolitan Statistical Areas (CMSAs) and Metropolitan Statistical Areas (MSAs) that cross State lines.

Table A. Number of establishments represented by the survey and number studied by industry group and establishment employment size, East North Central, National Compensation Survey, 1998

Industry division	Number of establishments represented <sup>1</sup>	Number of establishments studied						
		Total	50 - 99 workers	100 - 499 workers	500 - 999 workers	1000 - 2,499 workers	2,500 - 4,999 workers	5,000 or more workers
<b>All</b> .....	59,800	3,537	917	1,628	445	334	138	75
<b>Private Industry</b> .....	54,300	2,989	866	1,384	325	259	112	43
Goods-producing industries .....	17,400	1,096	249	541	136	98	57	15
Mining .....	100	18	11	7	-	-	-	-
Construction .....	2,000	89	45	41	3	-	-	-
Manufacturing .....	15,300	989	193	493	133	98	57	15
Durable goods .....	10,900	722	149	334	97	80	50	12
Fabricated metal products, except machinery and transportation equipment .....	1,900	133	33	67	15	13	5	-
Industrial and commercial machinery and computer equipment .....	2,500	164	45	82	23	7	7	-
Electronic and electrical equipment .....	1,800	63	9	33	12	7	2	-
Transportation equipment .....	900	140	14	34	21	33	29	9
Measuring, analyzing, and controlling instruments .....	400	37	6	19	5	7	-	-
Nondurable goods .....	4,500	267	44	159	36	18	7	3
Food and kindred products .....	700	62	10	36	11	5	-	-
Printing, publishing, and allied industries .....	1,100	65	13	36	8	5	3	-
Chemicals and allied products .....	1,300	42	8	20	7	3	2	2
Service-producing industries .....	36,900	1,893	617	843	189	161	55	28
Transportation and utilities .....	3,700	171	55	74	20	13	5	4
Wholesale trade .....	2,900	107	36	57	10	4	-	-
Retail trade .....	13,500	462	223	191	28	16	3	1
Finance, insurance and real estate .....	2,700	153	38	51	26	23	7	8
Depository institutions .....	1,200	58	18	16	11	5	3	5
Insurance carriers .....	600	51	6	17	12	10	3	3
Services .....	14,200	1,000	265	470	105	105	40	15
Business services .....	3,600	207	55	101	27	21	2	1
Educational services .....	900	163	65	71	19	5	2	1
Health services .....	4,200	390	54	177	45	71	30	13
Hospitals .....	600	189	2	35	38	71	30	13
Engineering, accounting, research, management, and related services .....	900	51	19	21	3	4	4	-
<b>State and local government</b> .....	5,500	548	51	244	120	75	26	32
Health services .....	200	42	6	13	13	2	3	5
Hospitals .....	100	25	1	5	9	2	3	5

<sup>1</sup> Number of establishments represented by the survey rounded to the nearest 100.

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

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

Occupational group	All industries	Private industry	State and local government
<b>All</b> .....	11,683,700	9,494,100	2,189,600
All excluding sales .....	11,023,500	8,839,400	2,184,200
<b>White collar</b> .....	5,633,800	4,210,100	1,423,700
White collar excluding sales .....	4,973,700	3,555,300	1,418,300
Professional specialty and technical .....	2,255,600	1,377,100	878,500
Professional specialty occupations .....	1,797,000	970,200	826,800
Technical occupations .....	458,600	406,900	51,700
Executive, administrative, and managerial .....	926,000	771,600	154,300
Sales .....	660,200	654,800	5,400
Administrative support, including clerical .....	1,792,100	1,406,600	385,500
<b>Blue collar</b> .....	4,092,300	3,844,400	247,900
Precision production, craft, and repair .....	993,400	902,300	91,100
Machine operators, assemblers, and inspectors .....	1,721,400	1,717,500	3,900
Transportation and material moving .....	508,000	409,600	98,400
Handlers, equipment cleaners, helpers, and laborers .....	869,600	815,000	54,500
<b>Service</b> .....	1,957,600	1,439,700	517,900

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

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

<sup>3</sup> In this census division, collection was conducted between January 1998 and April 1999. The average reference period was September 1998.