

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



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

Bureau of Labor Statistics
Katharine G. Abraham, Commissioner

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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.

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 (<http://stats.bls.gov/comhome.htm>). 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 earnings¹ and weekly hours by selected characteristics, private industry and State and local government, National Compensation Survey,² 1998

Worker and establishment characteristics, and geographic areas	Total			Private industry			State and local government		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error (percent)		Mean	Relative error (percent)		Mean	Relative error (percent)	
Total	\$16.08	0.8	36.2	\$15.44	0.9	36.3	\$19.32	1.5	35.7
Worker characteristics:³									
White-collar occupations ⁴	19.75	1.0	36.5	19.08	1.2	36.7	22.13	1.4	35.6
Professional specialty and technical ...	23.88	1.0	35.9	22.57	1.1	36.5	26.56	1.7	34.8
Executive, administrative, and managerial	27.76	1.5	39.9	28.08	1.7	40.3	25.97	2.0	37.7
Sales	15.16	5.0	32.1	15.17	5.0	32.1	12.19	10.2	29.0
Administrative support	12.02	.8	37.0	11.98	.9	37.1	12.18	1.5	36.3
Blue-collar occupations ⁴	13.86	.9	38.3	13.77	1.0	38.4	15.43	1.7	36.3
Precision production, craft, and repair Machine operators, assemblers, and inspectors	17.83	1.1	39.9	17.86	1.2	39.9	17.55	2.5	39.5
Transportation and material moving ...	12.81	1.5	39.8	12.81	1.5	39.8	12.61	11.1	39.8
Handlers, equipment cleaners, helpers, and laborers	14.42	1.4	36.5	14.42	1.7	37.5	14.40	2.6	31.7
Service occupations ⁴	10.65	1.4	34.6	10.49	1.4	34.4	13.07	4.0	37.7
.....	9.66	1.3	31.1	7.87	1.2	29.5	14.08	2.5	35.8
Full time	16.84	.9	39.6	16.22	1.0	39.8	19.82	1.5	38.4
Part time	9.09	1.4	20.4	8.71	2.1	20.8	12.16	3.0	17.9
Union	17.38	1.0	37.4	15.91	1.3	37.7	20.17	1.5	36.8
Nonunion	15.54	1.1	35.8	15.30	1.1	36.0	18.00	3.2	34.1
Time	15.95	.8	36.1	15.25	.9	36.2	19.32	1.5	35.7
Incentive	19.09	5.8	38.5	19.09	5.8	38.5	-	-	-
Establishment characteristics:									
Goods producing	(⁵)	(⁵)	(⁵)	16.51	1.3	39.8	(⁵)	(⁵)	(⁵)
Service producing	(⁵)	(⁵)	(⁵)	14.58	1.4	34.0	(⁵)	(⁵)	(⁵)
50-99 workers ⁶	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
Geographic areas:⁷									
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

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

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

³ 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.

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

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

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

⁷ Data are presented for metropolitan and nonmetropolitan area divisions as well as 9 census area divisions. See 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 earnings¹ and weekly hours by selected characteristics, metropolitan and nonmetropolitan areas,² National Compensation Survey,³ 1998**

Worker and establishment characteristics, and geographic areas	Total			Metropolitan areas			Nonmetropolitan areas		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error (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
Worker characteristics:⁴									
White-collar occupations ⁵	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 ⁵	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 ⁵	10.65	1.4	34.6	10.51	1.5	34.4	11.31	3.4	35.5
Full time	9.66	1.3	31.1	9.78	1.3	30.9	9.06	4.8	31.7
Part time	16.84	.9	39.6	17.38	.9	39.6	13.99	1.6	39.5
Union	9.09	1.4	20.4	9.10	1.6	20.4	9.04	3.2	20.4
Nonunion	17.38	1.0	37.4	17.66	1.0	37.2	16.09	3.1	38.3
Time	15.54	1.1	35.8	16.11	1.1	35.8	12.32	2.3	35.7
Incentive	15.95	.8	36.1	16.41	.8	36.1	13.57	1.4	36.4
	19.09	5.8	38.5	19.57	6.0	38.5	-	-	-
Establishment characteristics:									
Goods producing ⁶	16.51	1.3	39.8	17.41	1.4	39.8	13.27	1.5	40.0
Service producing ⁶	14.58	1.4	34.0	14.89	1.4	34.2	11.50	2.3	31.4
50-99 workers ⁷	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	-	-	-
Geographic areas:⁸									
New England	17.38	1.4	35.1	17.75	1.2	35.2	14.75	3.6	34.2
Middle Atlantic	18.10	1.5	35.8	18.39	1.6	35.7	13.58	1.6	36.2
East North Central	16.08	.8	36.2	16.55	.8	36.2	13.55	1.3	36.5
West North Central	14.85	1.6	36.5	15.83	2.4	36.5	12.10	2.3	36.4
South Atlantic	14.40	1.0	37.1	14.89	.7	37.0	12.00	4.4	37.7
East South Central	11.87	2.3	37.7	13.88	2.2	36.9	9.97	4.3	38.6
West South Central	14.62	1.8	37.2	14.86	2.1	37.2	13.08	5.6	37.1
Mountain	14.58	2.7	36.4	14.73	3.4	36.5	13.99	3.3	36.0
Pacific	17.86	1.3	36.2	18.04	1.3	36.2	14.96	2.8	35.6

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

² Metropolitan areas can be a Metropolitan Statistical Area 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.

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

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

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

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

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

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

⁸ 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 earnings¹ and weekly hours for full-time and part-time workers,² National Compensation Survey,³ 1998

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

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

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

Occupation ⁴	Total			Full time			Part time		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error ⁵ (percent)		Mean	Relative error ⁵ (percent)		Mean	Relative error ⁵ (percent)	
White collar —Continued									
Administrative support, including clerical —Continued									
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
Blue collar	13.86	.9	38.3	14.17	.9	40.0	8.05	2.6	21.4
Precision production, craft, and repair	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 earnings¹ and weekly hours for full-time and part-time workers,² National Compensation Survey,³ 1998—Continued

Occupation ⁴	Total			Full time			Part time		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error ⁵ (percent)		Mean	Relative error ⁵ (percent)		Mean	Relative error ⁵ (percent)	
Blue collar—Continued									
Precision production, craft, and repair—Continued									
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	—	—	—
Machine operators, assemblers, and inspectors	12.81	1.5	39.8	12.88	1.5	40.0	\$7.28	3.2	27.2
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 earnings¹ and weekly hours for full-time and part-time workers,² National Compensation Survey,³ 1998—Continued

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

Occupation ⁴	Total			Full time			Part time		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error ⁵ (percent)		Mean	Relative error ⁵ (percent)		Mean	Relative error ⁵ (percent)	
Blue collar—Continued									
Transportation and material moving—Continued									
Miscellaneous material moving equipment operators, n.e.c.	\$14.56	4.1	36.8	\$15.00	4.8	40.1	—	—	—
Handlers, equipment cleaners, helpers, and laborers									
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
Service									
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 earnings¹ and weekly hours for full-time and part-time workers,² National Compensation Survey,³ 1998—Continued

Occupation ⁴	Total			Full time			Part time		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error ⁵ (percent)		Mean	Relative error ⁵ (percent)		Mean	Relative error ⁵ (percent)	
Service —Continued									
Personal service	\$9.22	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

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

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

³ In this census division, collection was conducted between January 1998 and April

1999. The average reference period was September 1998.

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

⁵ The relative standard error (RSE) is the standard error expressed as a percent of the estimate. It can be used to calculate a "confidence interval" around a sample estimate. For more information about RSEs, see 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 earnings¹ for full-time and part-time workers,² National Compensation Survey,³ 1998

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

Occupation ⁴	Total			Full time			Part time		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error ⁵ (percent)		Mean	Relative error ⁵ (percent)		Mean	Relative error ⁵ (percent)	
White collar —Continued									
Professional specialty and technical —Continued									
Professional specialty—Continued									
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.	21.53	4.5	37.4	21.65	4.4	39.4	\$18.92	15.6	17.9
Technical writers	19.09	5.5	38.7	19.42	5.2	39.8	—	—	—
Designers	24.27	8.1	39.8	24.27	8.1	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.	12.31	5.4	25.3	—	—	—	—	—	—
Editors and reporters	20.52	12.3	38.4	20.56	12.1	39.2	—	—	—
Public relations specialists	22.00	14.1	34.5	21.29	15.3	40.1	—	—	—
Athletes	18.16	11.7	29.2	18.86	12.9	39.6	10.11	15.0	7.3
Professional, n.e.c.	21.58	3.7	38.3	21.68	3.9	39.7	—	—	—
Technical	18.46	2.1	36.5	18.84	2.3	39.4	14.30	3.6	20.3
Clinical laboratory technologists and technicians	15.10	5.7	35.1	15.02	5.8	39.7	15.63	6.7	19.0
Health record technologists and technicians	12.25	6.3	34.4	12.10	7.0	38.8	—	—	—
Radiological technicians	16.54	2.8	32.5	16.60	3.2	39.7	16.35	4.4	21.3
Licensed practical nurses	12.84	2.6	33.4	12.65	2.9	39.4	13.77	2.0	19.4
Health technologists and technicians, n.e.c.	12.77	3.1	33.9	13.15	3.3	39.7	10.93	6.3	20.0
Electrical and electronic technicians	19.82	2.3	39.6	19.90	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.	21.00	4.4	40.1	21.05	4.3	40.2	—	—	—
Drafters	18.11	5.1	38.6	18.69	4.3	40.0	—	—	—
Biological technicians	17.22	19.0	39.9	17.22	19.0	39.9	—	—	—
Chemical technicians	16.39	4.9	39.0	16.45	5.0	39.8	—	—	—
Science technicians, n.e.c.	—	—	—	16.81	3.6	40.0	—	—	—
Airplane pilots and navigators	84.84	28.9	24.5	84.84	28.9	24.5	—	—	—
Broadcast equipment operators	11.83	12.5	39.2	12.00	12.4	40.0	—	—	—
Computer programmers	22.10	2.3	39.5	21.97	2.2	39.6	—	—	—
Legal assistants	19.86	3.8	38.5	19.86	3.8	38.5	—	—	—
Technical and related, n.e.c.	21.57	3.0	39.4	21.64	3.0	39.7	18.31	11.8	29.0
Executive, administrative, and managerial									
Executives, administrators, and managers	31.88	2.3	40.8	31.93	2.3	41.0	21.27	18.1	23.2
Financial managers	29.92	3.4	40.2	30.01	3.4	40.3	—	—	—
Personnel and labor relations managers	34.21	4.4	42.3	34.21	4.4	42.3	—	—	—
Purchasing managers	29.45	7.7	40.6	29.45	7.7	40.6	—	—	—
Managers, marketing, advertising, and public relations	36.49	4.3	41.0	36.49	4.3	41.0	—	—	—
Administrators, education and related fields	25.06	6.6	42.4	25.18	6.6	42.9	—	—	—
Managers, medicine and health	27.57	3.3	40.3	27.53	3.3	40.7	—	—	—
Managers, food servicing and lodging establishments	16.58	7.3	44.0	16.66	7.4	45.1	—	—	—
Managers, properties and real estate	18.50	13.9	39.5	18.64	14.0	40.0	—	—	—
Managers, service organizations, n.e.c.	23.55	11.0	39.5	23.65	11.1	39.8	—	—	—
Managers and administrators, n.e.c.	34.72	3.5	40.8	34.72	3.6	40.8	—	—	—
Management related	23.49	1.3	39.7	23.52	1.4	39.9	17.97	5.0	25.0
Accountants and auditors	18.77	7.1	40.0	18.76	7.1	40.1	—	—	—
Underwriters	28.50	7.3	38.8	28.50	7.3	38.8	—	—	—
Other financial officers	24.88	5.2	39.9	24.88	5.2	39.9	—	—	—
Management analysts	21.90	6.9	39.6	21.90	6.9	39.6	—	—	—
Personnel, training, and labor relations specialists	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 earnings¹ for full-time and part-time workers,² National Compensation Survey,³ 1998—Continued

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

Occupation ⁴	Total			Full time			Part time		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error ⁵ (percent)		Mean	Relative error ⁵ (percent)		Mean	Relative error ⁵ (percent)	
White collar —Continued									
Administrative support, including clerical —Continued									
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 Expeditors	17.89	4.3	39.7	17.95	4.2	40.0	—	—	—
Material recording, scheduling, and distribution clerks, n.e.c.	13.01	2.8	38.2	13.37	6.0	40.0	—	—	—
Insurance adjusters, examiners, and investigators	14.96	7.6	39.7	15.06	7.4	40.1	—	—	—
Investigators and adjusters, except insurance ...	13.99	7.0	38.8	14.01	7.0	38.9	—	—	—
Eligibility clerks, social welfare	12.34	4.8	38.2	12.45	4.9	39.6	10.23	4.9	23.0
Bill and account collectors	11.20	4.2	35.2	11.26	4.5	40.0	—	—	—
General office clerks	11.13	2.6	38.1	11.24	2.5	40.0	9.19	8.2	21.1
Bank tellers	10.49	1.9	36.4	10.82	1.9	39.7	8.49	3.9	24.1
Data entry keyers	8.41	1.9	33.2	8.65	2.3	39.6	7.61	1.2	21.6
Statistical clerks	9.32	4.4	37.6	9.44	4.7	39.6	7.65	4.0	22.4
Teachers' aides	11.53	4.8	37.0	11.60	5.1	39.7	—	—	—
Administrative support, n.e.c.	8.53	14.6	27.3	—	—	—	6.93	3.4	23.2
	12.77	3.9	36.4	13.01	4.3	39.4	10.87	3.5	22.6
Blue collar	13.77	1.0	38.4	14.08	1.0	40.0	7.68	2.8	21.3
Precision production, craft, and repair	17.86	1.2	39.9	17.88	1.2	40.0	8.89	9.7	20.1
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 earnings¹ for full-time and part-time workers,² National Compensation Survey,³ 1998—Continued

Occupation ⁴	Total			Full time			Part time		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error ⁵ (percent)		Mean	Relative error ⁵ (percent)		Mean	Relative error ⁵ (percent)	
Blue collar —Continued									
Precision production, craft, and repair —Continued									
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	—	—	—
Machine operators, assemblers, and inspectors	12.81	1.5	39.8	12.88	1.5	40.0	\$7.28	3.2	27.2
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 earnings¹ for full-time and part-time workers,² National Compensation Survey,³ 1998—Continued

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

Occupation ⁴	Total			Full time			Part time		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error ⁵ (percent)		Mean	Relative error ⁵ (percent)		Mean	Relative error ⁵ (percent)	
Blue collar—Continued									
Handlers, equipment cleaners, helpers, and laborers—Continued									
Laborers, except construction, n.e.c.	\$10.46	3.8	36.2	\$11.16	2.2	40.0	\$6.37	8.0	23.4
Service	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

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

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

³ In this census division, collection was conducted between January 1998 and April

1999. The average reference period was September 1998.

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

⁵ The relative standard error (RSE) is the standard error expressed as a percent of the estimate. It can be used to calculate a "confidence interval" around a sample estimate. For more information about RSEs, see 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 earnings¹ and weekly hours for full-time and part-time workers,² National Compensation Survey,³ 1998

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

Occupation ⁴	Total			Full time			Part time		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error ⁵ (percent)		Mean	Relative error ⁵ (percent)		Mean	Relative error ⁵ (percent)	
White collar –Continued									
Executive, administrative, and managerial	\$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	–	–	–
Sales	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
Administrative support, including clerical	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
Blue collar	15.43	1.7	36.3	15.90	1.8	39.2	11.21	3.3	21.8
Precision production, craft, and repair	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 earnings¹ and weekly hours for full-time and part-time workers,² National Compensation Survey,³ 1998–Continued

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

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

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

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

³ In this census division, collection was conducted between January 1998 and April

1999. The average reference period was September 1998.

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

⁵ The relative standard error (RSE) is the standard error expressed as a percent of the estimate. It can be used to calculate a "confidence interval" around a sample estimate. For more information about RSEs, see 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. Occupations¹ and levels,² East North Central: Mean hourly earnings³ and weekly hours, private industry and State and local government, National Compensation Survey,⁴ 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 ⁵ (percent)		Mean	Relative error ⁵ (percent)		Mean	Relative error ⁵ (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
White collar	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
Professional specialty and technical	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. Occupations¹ and levels,² East North Central: Mean hourly earnings³ and weekly hours, private industry and State and local government, National Compensation Survey,⁴ 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 ⁵ (percent)		Mean	Relative error ⁵ (percent)		Mean	Relative error ⁵ (percent)	
White collar –Continued									
Professional specialty and technical –Continued									
Professional specialty –Continued									
Engineers, architects, and surveyors –Continued									
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. Occupations¹ and levels,² East North Central: Mean hourly earnings³ and weekly hours, private industry and State and local government, National Compensation Survey,⁴ 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 ⁵ (percent)		Mean	Relative error ⁵ (percent)		Mean	Relative error ⁵ (percent)	
White collar—Continued									
Professional specialty and technical—Continued									
Professional specialty—Continued									
Natural scientists—Continued									
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. Occupations¹ and levels,² East North Central: Mean hourly earnings³ and weekly hours, private industry and State and local government, National Compensation Survey,⁴ 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 ⁵ (percent)		Mean	Relative error ⁵ (percent)		Mean	Relative error ⁵ (percent)	
White collar –Continued									
Professional specialty and technical –Continued									
Professional specialty –Continued									
Health related –Continued									
Physicians' assistants	\$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. Occupations¹ and levels,² East North Central: Mean hourly earnings³ and weekly hours, private industry and State and local government, National Compensation Survey,⁴ 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 ⁵ (percent)		Mean	Relative error ⁵ (percent)		Mean	Relative error ⁵ (percent)	
White collar—Continued									
Professional specialty and technical—Continued									
Professional specialty—Continued									
Teachers, except college and university—Continued									
Prekindergarten and kindergarten—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. Occupations¹ and levels,² East North Central: Mean hourly earnings³ and weekly hours, private industry and State and local government, National Compensation Survey,⁴ 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 ⁵ (percent)		Mean	Relative error ⁵ (percent)		Mean	Relative error ⁵ (percent)	
White collar –Continued									
Professional specialty and technical –Continued									
Professional specialty –Continued									
Social scientists and urban planners –Continued									
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 ¹ and levels,² East North Central: Mean hourly earnings³ and weekly hours, private industry and State and local government, National Compensation Survey,⁴ 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 ⁵ (percent)		Mean	Relative error ⁵ (percent)		Mean	Relative error ⁵ (percent)	
White collar –Continued									
Professional specialty and technical –Continued									
Professional specialty –Continued									
Writers, authors, entertainers, athletes, and professionals, n.e.c. –Continued									
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. Occupations¹ and levels,² East North Central: Mean hourly earnings³ and weekly hours, private industry and State and local government, National Compensation Survey,⁴ 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 ⁵ (percent)		Mean	Relative error ⁵ (percent)		Mean	Relative error ⁵ (percent)	
White collar—Continued									
Professional specialty and technical—Continued									
Technical—Continued									
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	—	—	—
Executive, administrative, and managerial	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. Occupations¹ and levels,² East North Central: Mean hourly earnings³ and weekly hours, private industry and State and local government, National Compensation Survey,⁴ 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 ⁵ (percent)		Mean	Relative error ⁵ (percent)		Mean	Relative error ⁵ (percent)	
White collar—Continued									
Executive, administrative, and managerial—Continued									
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. Occupations¹ and levels,² East North Central: Mean hourly earnings³ and weekly hours, private industry and State and local government, National Compensation Survey,⁴ 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 ⁵ (percent)		Mean	Relative error ⁵ (percent)		Mean	Relative error ⁵ (percent)	
White collar—Continued									
Executive, administrative, and managerial—Continued									
Executives, administrators, and managers—Continued									
Administrators, 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. Occupations¹ and levels,² East North Central: Mean hourly earnings³ and weekly hours, private industry and State and local government, National Compensation Survey,⁴ 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 ⁵ (percent)		Mean	Relative error ⁵ (percent)		Mean	Relative error ⁵ (percent)	
White collar —Continued									
Executive, administrative, and managerial —Continued									
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	—	—	—
Sales	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. Occupations¹ and levels,² East North Central: Mean hourly earnings³ and weekly hours, private industry and State and local government, National Compensation Survey,⁴ 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 ⁵ (percent)		Mean	Relative error ⁵ (percent)		Mean	Relative error ⁵ (percent)	
White collar—Continued									
Sales—Continued									
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. Occupations¹ and levels,² East North Central: Mean hourly earnings³ and weekly hours, private industry and State and local government, National Compensation Survey,⁴ 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 ⁵ (percent)		Mean	Relative error ⁵ (percent)		Mean	Relative error ⁵ (percent)	
White collar—Continued									
Sales—Continued									
Sales workers, other commodities—Continued									
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	—	—	—
Administrative support, including clerical	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. Occupations¹ and levels,² East North Central: Mean hourly earnings³ and weekly hours, private industry and State and local government, National Compensation Survey,⁴ 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 ⁵ (percent)		Mean	Relative error ⁵ (percent)		Mean	Relative error ⁵ (percent)	
White collar—Continued									
Administrative support, including clerical—Continued									
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
5	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									
1	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. Occupations¹ and levels,² East North Central: Mean hourly earnings³ and weekly hours, private industry and State and local government, National Compensation Survey,⁴ 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 ⁵ (percent)		Mean	Relative error ⁵ (percent)		Mean	Relative error ⁵ (percent)	
White collar—Continued									
Administrative support, including clerical—Continued									
Records clerks, n.e.c.	\$11.44	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. Occupations¹ and levels,² East North Central: Mean hourly earnings³ and weekly hours, private industry and State and local government, National Compensation Survey,⁴ 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 ⁵ (percent)		Mean	Relative error ⁵ (percent)		Mean	Relative error ⁵ (percent)	
White collar—Continued									
Administrative support, including clerical—Continued									
Traffic, shipping and receiving clerks—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. Occupations¹ and levels,² East North Central: Mean hourly earnings³ and weekly hours, private industry and State and local government, National Compensation Survey,⁴ 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 ⁵ (percent)		Mean	Relative error ⁵ (percent)		Mean	Relative error ⁵ (percent)	
White collar —Continued									
Administrative support, including clerical —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	—	—	—
Blue collar	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	—	—	—
Precision production, craft, and repair	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. Occupations¹ and levels,² East North Central: Mean hourly earnings³ and weekly hours, private industry and State and local government, National Compensation Survey,⁴ 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 ⁵ (percent)		Mean	Relative error ⁵ (percent)		Mean	Relative error ⁵ (percent)	
Blue collar—Continued									
Precision production, craft, and repair—Continued									
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. Occupations¹ and levels,² East North Central: Mean hourly earnings³ and weekly hours, private industry and State and local government, National Compensation Survey,⁴ 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 ⁵ (percent)		Mean	Relative error ⁵ (percent)		Mean	Relative error ⁵ (percent)	
Blue collar—Continued									
Precision production, craft, and repair—Continued									
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. Occupations¹ and levels,² East North Central: Mean hourly earnings³ and weekly hours, private industry and State and local government, National Compensation Survey,⁴ 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 ⁵ (percent)		Mean	Relative error ⁵ (percent)		Mean	Relative error ⁵ (percent)	
Blue collar—Continued									
Precision production, craft, and repair—Continued									
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	—	—	—
Machine operators, assemblers, and inspectors									
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	—	—	—
	12.85	16.7	36.5	12.85	16.7	36.5	—	—	—
Not able to be leveled									
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 set-up operators									
5	12.74	9.5	40.0	12.74	9.5	40.0	—	—	—
	10.05	3.3	40.0	10.05	3.3	40.0	—	—	—
	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. Occupations¹ and levels,² East North Central: Mean hourly earnings³ and weekly hours, private industry and State and local government, National Compensation Survey,⁴ 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 ⁵ (percent)		Mean	Relative error ⁵ (percent)		Mean	Relative error ⁵ (percent)	
Blue collar—Continued									
Machine operators, assemblers, and inspectors—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. Occupations¹ and levels,² East North Central: Mean hourly earnings³ and weekly hours, private industry and State and local government, National Compensation Survey,⁴ 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 ⁵ (percent)		Mean	Relative error ⁵ (percent)		Mean	Relative error ⁵ (percent)	
Blue collar—Continued									
Machine operators, assemblers, and inspectors—Continued									
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. Occupations¹ and levels,² East North Central: Mean hourly earnings³ and weekly hours, private industry and State and local government, National Compensation Survey,⁴ 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 ⁵ (percent)		Mean	Relative error ⁵ (percent)		Mean	Relative error ⁵ (percent)	
Blue collar—Continued									
Transportation and material moving	\$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 scrapper 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	—	—	—
Handlers, equipment cleaners, helpers, and laborers	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 ¹ and levels,² East North Central: Mean hourly earnings³ and weekly hours, private industry and State and local government, National Compensation Survey,⁴ 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 ⁵ (percent)		Mean	Relative error ⁵ (percent)		Mean	Relative error ⁵ (percent)	
Blue collar—Continued									
Handlers, equipment cleaners, helpers, and laborers—Continued									
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. Occupations¹ and levels,² East North Central: Mean hourly earnings³ and weekly hours, private industry and State and local government, National Compensation Survey,⁴ 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 ⁵ (percent)		Mean	Relative error ⁵ (percent)		Mean	Relative error ⁵ (percent)	
Blue collar—Continued									
Handlers, equipment cleaners, helpers, and laborers—Continued									
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
Service	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. Occupations¹ and levels,² East North Central: Mean hourly earnings³ and weekly hours, private industry and State and local government, National Compensation Survey,⁴ 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 ⁵ (percent)		Mean	Relative error ⁵ (percent)		Mean	Relative error ⁵ (percent)	
Service—Continued									
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. Occupations¹ and levels,² East North Central: Mean hourly earnings³ and weekly hours, private industry and State and local government, National Compensation Survey,⁴ 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 ⁵ (percent)		Mean	Relative error ⁵ (percent)		Mean	Relative error ⁵ (percent)	
Service—Continued									
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. Occupations¹ and levels,² East North Central: Mean hourly earnings³ and weekly hours, private industry and State and local government, National Compensation Survey,⁴ 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 ⁵ (percent)		Mean	Relative error ⁵ (percent)		Mean	Relative error ⁵ (percent)	
Service—Continued									
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	—	—	—	—	—	—

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

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

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

weighted by hours.

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

⁵ The relative standard error (RSE) is the standard error expressed as a percent of the estimate. It can be used to calculate a "confidence interval" around a sample estimate. For more information about RSEs, see 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,¹ 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*.

¹ 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 ¹	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
All	59,800	3,537	917	1,628	445	334	138	75
Private Industry	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	-
State and local government	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

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

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

Table B. **Number of workers¹ represented by the survey, by occupational group,² East North Central, National Compensation Survey,³ 1998**

Occupational group	All industries	Private industry	State and local government
All	11,683,700	9,494,100	2,189,600
All excluding sales	11,023,500	8,839,400	2,184,200
White collar	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
Blue collar	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
Service	1,957,600	1,439,700	517,900

¹ 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.

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

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