

# Occupational Wages in the East North Central Census Division, 1997

## Summary 00-1

This report provides estimates of occupational pay from the 1997 National Compensation Survey (NCS) in the East North Central census division. It highlights average (mean) hourly pay for workers in six areas:

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

Wages in the East North Central (ENC) census division averaged \$15.45 per hour during 1997. Workers in private industry in the ENC region averaged \$14.85 per hour, whereas hourly pay of workers in State and local government averaged \$18.51. Nationwide, pay of all workers covered by the survey averaged \$15.09 an hour.

NCS summary reports are published for each of the nine census regions: New England, Middle Atlantic, East North Central, West North Central, South Atlantic, East South Central, West South Central, Mountain, and Pacific. Data also are published for some individual localities. These summary reports are a new product of the National Compensation Survey and may be useful to NCS data users in localities where separate NCS studies are not published.

Table 1 in this summary provides an overview of average pay data for worker and establishment characteristics and geographic area by private industry and State and local government. For example, white-collar workers in private industry averaged \$18.28 per hour; blue-collar workers averaged \$13.28, and service workers averaged \$7.63. Corresponding averages in State and local government were \$21.26, \$14.46, and \$13.40. Generally, average hourly earnings for private industry workers were lower than 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. In State and local government, for example, professional specialty and technical occupations are proportionately more prevalent 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 ENC region averaged \$16.20 per

hour whereas part-time workers averaged \$8.65. In private industry, full-time workers averaged \$15.62 an hour, and part-time workers averaged \$8.28. For workers in State and local government, average hourly pay was \$19.02 and \$11.55, respectively, for full- and part-time workers. NCS classifies employees as full or part time based on the employer's classification.

Workers in large establishments in the East North Central region, that is, establishments with 2,500 or more employees, earned \$20.13 per hour. Workers in the smallest establishment-size category studied (50-99) averaged \$12.45.

Table 2 shows that workers in metropolitan areas averaged \$15.90 per hour, more than the average pay for workers in nonmetropolitan areas, \$12.98. Table 2 also shows that, most of the time, regardless of employee or establishment characteristics, pay tends to be higher in metropolitan areas than in nonmetropolitan areas. (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 major occupational groups. Following are examples of average hourly earnings for combined full- and part-time workers within the occupational groups of white collar, blue collar, and services. All registered nurses averaged \$19.00 per hour (table 3). Registered nurses in private industry averaged \$18.98 (table 4), whereas those in State and local government averaged \$19.10 per hour (table 5). Laborers, except construction, averaged \$9.80 in private industry and \$10.46 in State and local government. Janitors and cleaners, a service occupation, averaged \$9.02 in private industry and \$10.80 in State and local government.

Average pay for full-time workers is generally higher than pay for workers on a part-time schedule. Sometimes, average pay for part-time work is higher than for full-time work, mainly among workers in the health care field. For example, among all industries, full-time physicians averaged \$41.30 an hour while part-time physicians averaged \$67.82.

Earnings by occupational group and level are shown in table 6. Usually, the levels tend to show higher pay at higher work levels. The Bureau uses a generic leveling technique with 10 criteria to assign a level to an occupation. The Technical Note has more information on generic leveling and generic leveling criteria. Table A in the Technical Note shows the number of establishments studied in the ENC census

division by employment size; most companies were in the 100-499 worker size class. It also shows the number of establishments represented. Table B in the Technical Note shows the number of workers represented by the surveys in the ENC census division by major occupational groups such as professional specialty and technical, sales, and transportation and material moving.

Table 1. Summary, East North Central: Mean hourly earnings<sup>1</sup> and weekly hours by selected characteristics, private industry and State and local government, National Compensation Survey,<sup>2</sup> 1997

Worker and establishment characteristics, and geographic areas	Total			Private industry			State and local government		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>3</sup> (percent)		Mean	Relative error <sup>3</sup> (percent)		Mean	Relative error <sup>3</sup> (percent)	
<b>Total</b> .....	\$15.45	0.9	36.2	\$14.85	1.0	36.3	\$18.51	1.3	35.8
<b>Worker characteristics:<sup>4</sup></b>									
White-collar occupations <sup>5</sup> .....	18.92	1.1	36.4	18.28	1.4	36.5	21.26	1.2	35.7
Professional specialty and technical ...	22.99	1.0	35.8	21.66	1.4	36.2	25.66	1.4	35.0
Executive, administrative, and managerial .....	26.88	1.1	39.9	27.33	1.3	40.3	24.47	1.8	37.9
Sales .....	14.15	6.0	31.9	14.16	6.0	31.9	12.58	9.9	28.6
Administrative support .....	11.48	1.0	36.7	11.45	1.2	36.8	11.61	1.6	36.3
Blue-collar occupations <sup>5</sup> .....	13.35	1.1	38.3	13.28	1.3	38.4	14.46	1.3	36.4
Precision production, craft, and repair	17.20	1.2	39.9	17.28	1.3	39.9	16.39	1.8	39.4
Machine operators, assemblers, and inspectors .....	12.25	1.9	39.8	12.25	1.9	39.8	11.90	7.8	39.5
Transportation and material moving ...	14.06	1.8	36.4	14.12	2.0	37.2	13.70	2.2	32.0
Handlers, equipment cleaners, helpers, and laborers .....	10.40	2.0	34.7	10.27	2.2	34.5	12.25	3.3	37.8
Service occupations <sup>5</sup> .....	9.26	1.3	31.3	7.63	1.2	29.8	13.40	2.4	35.6
Full time .....	16.20	.9	39.6	15.62	1.1	39.8	19.02	1.4	38.5
Part time .....	8.65	1.4	20.4	8.28	1.9	20.7	11.55	2.8	18.3
Union .....	16.70	1.0	37.5	15.29	1.3	37.9	19.50	1.3	36.9
Nonunion .....	14.94	1.3	35.7	14.72	1.3	35.8	17.06	3.0	34.3
Time .....	15.37	.8	36.1	14.71	.9	36.2	18.51	1.3	35.8
Incentive .....	17.17	5.4	38.1	17.17	5.4	38.1	-	-	-
<b>Establishment characteristics:</b>									
Goods producing .....	( <sup>6</sup> )	( <sup>6</sup> )	( <sup>6</sup> )	16.04	1.3	39.8	( <sup>6</sup> )	( <sup>6</sup> )	( <sup>6</sup> )
Service producing .....	( <sup>6</sup> )	( <sup>6</sup> )	( <sup>6</sup> )	13.91	1.8	33.9	( <sup>6</sup> )	( <sup>6</sup> )	( <sup>6</sup> )
50-99 workers <sup>7</sup> .....	12.45	2.1	34.7	12.31	2.2	34.6	14.83	9.5	36.0
100-499 workers .....	14.03	1.6	36.2	13.52	1.9	36.4	18.25	2.5	34.6
500-999 workers .....	15.95	2.5	36.5	15.22	3.0	36.9	18.55	2.3	35.5
1000-2499 workers .....	17.22	2.9	36.1	16.83	3.3	36.5	19.01	3.3	34.3
2500 workers or more .....	20.13	1.0	37.6	20.75	3.7	37.7	19.04	1.8	37.5
<b>Geographic areas:<sup>8</sup></b>									
Metropolitan .....	15.90	1.0	36.2	15.31	1.1	36.2	19.10	1.0	35.7
Nonmetropolitan .....	12.98	1.3	36.4	12.10	1.2	36.5	16.20	4.2	36.0
New England .....	16.96	1.8	35.1	16.29	2.1	35.0	20.14	2.1	35.2
Middle Atlantic .....	17.42	1.5	35.7	16.47	1.7	35.8	21.25	1.5	35.5
East North Central .....	15.45	.9	36.2	14.85	1.0	36.3	18.51	1.3	35.8
West North Central .....	14.44	1.8	36.3	13.70	2.2	36.2	17.24	.8	36.8
South Atlantic .....	13.73	1.4	37.0	13.20	1.8	36.7	15.47	1.4	37.9
East South Central .....	11.88	2.3	37.8	11.34	2.5	38.0	15.22	1.7	36.9
West South Central .....	13.82	1.0	37.2	13.45	1.2	37.0	14.96	1.3	37.8
Mountain .....	14.04	1.9	36.5	12.97	2.6	36.4	17.42	1.9	36.5
Pacific .....	16.88	1.5	36.2	15.89	1.8	36.4	20.23	1.7	35.5

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

<sup>2</sup> In this census division, collection was conducted between October 1996 and May 1998. The average reference period was August 1997.

<sup>3</sup> The relative standard error (RSE) is the standard error expressed as a percent of the estimate. It can be used to calculate a "confidence interval" around a sample estimate. For more information about RSEs, see Technical Note.

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

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

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

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

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

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

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

Table 2. **Summary, East North Central: Mean hourly earnings<sup>1</sup> and weekly hours by selected characteristics, metropolitan and nonmetropolitan areas,<sup>2</sup> National Compensation Survey,<sup>3</sup> 1997**

Worker and establishment characteristics, and geographic areas	Total			Metropolitan areas			Nonmetropolitan areas		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>4</sup> (percent)		Mean	Relative error <sup>4</sup> (percent)		Mean	Relative error <sup>4</sup> (percent)	
Total .....	\$15.45	0.9	36.2	\$15.90	1.0	36.2	\$12.98	1.3	36.4
Private Industry .....	14.85	1.0	36.3	15.31	1.1	36.2	12.10	1.2	36.5
State and local government .....	18.51	1.3	35.8	19.10	1.0	35.7	16.20	4.2	36.0
<b>Worker characteristics:<sup>5</sup></b>									
White-collar occupations <sup>6</sup> .....	18.92	1.1	36.4	19.26	1.2	36.4	16.28	2.6	35.7
Professional specialty and technical ...	22.99	1.0	35.8	23.14	1.1	35.8	22.03	3.5	35.5
Executive, administrative, and managerial .....	26.88	1.1	39.9	27.53	1.2	40.0	19.77	5.7	39.0
Sales .....	14.15	6.0	31.9	14.67	6.2	32.5	8.42	5.2	26.7
Administrative support .....	11.48	1.0	36.7	11.68	1.2	36.6	10.10	1.9	37.4
Blue-collar occupations <sup>6</sup> .....	13.35	1.1	38.3	13.70	1.3	38.1	11.93	1.1	38.9
Precision production, craft, and repair Machine operators, assemblers, and inspectors .....	17.20	1.2	39.9	17.69	1.2	39.9	14.56	2.3	40.0
Transportation and material moving ...	12.25	1.9	39.8	12.62	2.1	39.8	11.13	2.4	39.6
Handlers, equipment cleaners, helpers, and laborers .....	14.06	1.8	36.4	14.41	2.0	36.1	12.25	1.4	37.5
Service occupations <sup>6</sup> .....	10.40	2.0	34.7	10.23	2.4	34.4	11.21	2.3	36.4
	9.26	1.3	31.3	9.38	1.4	31.2	8.71	3.8	31.6
Full time .....	16.20	.9	39.6	16.72	1.0	39.6	13.39	1.5	39.5
Part time .....	8.65	1.4	20.4	8.66	1.5	20.5	8.56	3.0	19.9
Union .....	16.70	1.0	37.5	16.92	1.0	37.4	15.60	2.9	38.1
Nonunion .....	14.94	1.3	35.7	15.49	1.4	35.7	11.78	2.0	35.7
Time .....	15.37	.8	36.1	15.80	.9	36.1	13.04	1.3	36.4
Incentive .....	17.17	5.4	38.1	17.73	5.4	38.2	10.40	14.4	36.8
<b>Establishment characteristics:</b>									
Goods producing <sup>7</sup> .....	16.04	1.3	39.8	16.94	1.0	39.8	12.76	2.2	39.9
Service producing <sup>7</sup> .....	13.91	1.8	33.9	14.21	2.0	34.2	10.85	2.6	31.4
50-99 workers <sup>8</sup> .....	12.45	2.1	34.7	12.88	2.3	34.7	10.40	2.3	34.6
100-499 workers .....	14.03	1.6	36.2	14.48	1.9	36.3	12.20	1.2	36.0
500-999 workers .....	15.95	2.5	36.5	16.08	2.5	36.4	15.39	7.5	37.4
1000-2499 workers .....	17.22	2.9	36.1	17.37	1.8	35.5	-	-	-
2500 workers or more .....	20.13	1.0	37.6	20.13	1.0	37.6	-	-	-
<b>Geographic areas:<sup>9</sup></b>									
New England .....	16.96	1.8	35.1	17.42	1.8	35.2	13.75	5.3	34.0
Middle Atlantic .....	17.42	1.5	35.7	17.75	1.3	35.7	12.22	7.4	36.1
East North Central .....	15.45	.9	36.2	15.90	1.0	36.2	12.98	1.3	36.4
West North Central .....	14.44	1.8	36.3	15.40	2.2	36.3	11.82	3.7	36.2
South Atlantic .....	13.73	1.4	37.0	14.17	1.7	36.9	11.56	4.0	37.4
East South Central .....	11.88	2.3	37.8	13.60	1.6	37.0	10.22	3.7	38.7
West South Central .....	13.82	1.0	37.2	14.13	1.2	37.2	11.88	4.0	37.3
Mountain .....	14.04	1.9	36.5	14.17	2.4	36.4	13.51	2.4	36.6
Pacific .....	16.88	1.5	36.2	17.06	1.5	36.2	13.37	2.9	36.1

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

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

<sup>3</sup> In this census division, collection was conducted between October 1996 and May 1998. The average reference period was August 1997.

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

<sup>5</sup> Employees are classified as working either a full-time or a part-time schedule based on the definition used by each establishment. Union workers are those

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

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

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

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

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

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

Table 3. Selected occupations, East North Central: Mean hourly earnings<sup>1</sup> and weekly hours for full-time and part-time workers,<sup>2</sup> National Compensation Survey,<sup>3</sup> 1997

Occupation <sup>4</sup>	Total			Full time			Part time		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)	
All .....	\$15.45	0.9	36.2	\$16.20	0.9	39.6	\$8.65	1.4	20.4
All excluding sales .....	15.52	.8	36.5	16.17	.8	39.5	8.97	1.6	20.4
<b>White collar</b> .....	18.92	1.1	36.4	19.68	1.1	39.4	11.16	2.6	20.5
White collar excluding sales .....	19.49	1.0	37.0	19.95	1.0	39.3	13.26	2.8	20.5
<b>Professional specialty and technical</b> .....	22.99	1.0	35.8	23.38	1.1	38.7	18.29	3.0	18.7
Professional specialty .....	24.61	1.1	35.7	25.01	1.2	38.5	19.67	3.3	18.6
Engineers, architects, and surveyors .....	27.10	1.5	40.3	27.10	1.5	40.4	-	-	-
Architects .....	23.24	6.3	39.7	23.30	6.3	40.0	-	-	-
Metallurgical and materials engineers .....	29.67	4.5	40.0	29.67	4.5	40.0	-	-	-
Civil engineers .....	23.86	4.0	39.4	23.86	4.0	39.4	-	-	-
Electrical and electronic engineers .....	27.85	4.3	40.3	27.85	4.3	40.3	-	-	-
Industrial engineers .....	24.01	2.6	40.5	24.02	2.6	40.5	-	-	-
Mechanical engineers .....	26.13	4.4	40.6	26.10	4.4	40.7	-	-	-
Engineers, n.e.c. ....	28.05	2.0	40.2	28.07	2.0	40.3	-	-	-
Mathematical and computer scientists .....	27.55	3.1	39.7	27.57	3.1	39.8	23.78	9.5	25.4
Computer systems analysts and scientists .....	26.96	2.5	39.8	26.97	2.6	40.0	25.38	8.4	27.9
Operations and systems researchers and analysts .....	29.15	7.7	39.4	29.21	7.6	39.6	-	-	-
Actuaries .....	31.43	11.3	38.3	31.43	11.3	38.3	-	-	-
Natural scientists .....	23.33	8.0	38.9	23.42	8.3	40.2	-	-	-
Chemists, except biochemists .....	28.95	6.5	40.3	28.95	6.5	40.3	-	-	-
Physical scientists, n.e.c. ....	22.94	8.4	39.2	23.08	8.5	40.0	-	-	-
Agricultural and food scientists .....	23.81	9.2	40.0	23.81	9.2	40.0	-	-	-
Medical scientists .....	14.95	12.2	37.6	14.72	12.4	39.2	-	-	-
Health related .....	21.51	1.4	32.9	21.49	1.8	39.6	21.59	3.8	20.2
Physicians .....	44.10	10.9	37.5	41.30	11.2	43.2	67.82	6.5	17.6
Registered nurses .....	19.00	1.4	32.1	18.96	1.7	39.2	19.12	1.4	20.7
Pharmacists .....	26.92	2.7	31.4	26.25	2.2	40.0	29.52	8.5	17.2
Dietitians .....	16.74	2.9	36.7	16.55	3.2	40.0	18.69	4.4	20.1
Respiratory therapists .....	16.07	1.4	31.7	16.13	1.8	39.3	15.86	2.6	18.1
Occupational therapists .....	23.76	4.8	32.7	24.58	4.2	39.6	20.06	12.6	18.4
Physical therapists .....	24.47	5.4	34.8	23.97	5.9	39.8	27.93	8.7	18.7
Speech therapists .....	24.76	5.2	33.4	25.20	6.4	38.5	22.70	4.5	20.6
Therapists, n.e.c. ....	15.44	4.7	36.7	15.64	5.1	38.7	13.07	2.9	22.5
Physicians' assistants .....	24.44	15.8	30.5	-	-	-	-	-	-
Teachers, college and university .....	32.76	3.4	33.8	33.50	3.5	38.4	23.32	5.9	13.3
Biological science teachers .....	32.01	8.8	35.7	33.76	7.6	38.2	-	-	-
Chemistry teachers .....	32.54	7.2	29.4	34.55	5.4	35.7	-	-	-
Psychology teachers .....	32.50	14.9	39.8	32.50	14.9	39.8	-	-	-
History teachers .....	27.00	12.7	43.7	27.00	12.7	43.7	-	-	-
Social science teachers, n.e.c. ....	30.73	9.4	39.3	30.73	9.4	39.3	-	-	-
Engineering teachers .....	47.31	18.8	39.7	47.32	18.8	40.0	-	-	-
Mathematical science teachers .....	37.50	2.3	34.6	38.27	2.2	39.9	18.56	9.6	8.0
Computer science teachers .....	38.33	3.8	32.0	-	-	-	-	-	-
Medical science teachers .....	39.33	24.7	44.4	38.47	25.2	44.9	-	-	-
Health specialties teachers .....	32.33	8.7	39.6	32.50	8.9	42.1	24.92	7.5	10.7
Business, commerce, and marketing teachers ..	35.24	13.7	22.4	37.40	12.8	35.0	22.70	19.9	7.2
Art, drama, and music teachers .....	28.81	9.0	34.5	28.81	10.1	39.8	28.82	6.4	15.9
Physical education teachers .....	25.91	8.1	32.1	26.07	8.5	34.4	-	-	-
Education teachers .....	35.13	8.1	37.3	35.14	8.0	37.8	-	-	-
English teachers .....	32.05	9.4	37.3	32.19	9.4	38.6	-	-	-
Foreign language teachers .....	28.21	13.5	33.6	28.98	14.3	41.0	-	-	-
Theology teachers .....	28.61	13.9	39.5	28.61	13.9	39.5	-	-	-
Trade and industrial teachers .....	27.93	16.1	19.0	-	-	-	-	-	-
Teachers, post secondary, subject not specified	29.44	9.7	24.7	31.65	8.9	39.1	22.32	11.1	11.3
Teachers, post secondary, n.e.c. ....	28.41	6.0	27.4	29.87	7.0	33.9	22.15	3.0	15.1
Teachers, except college and university .....	26.71	1.6	33.6	27.47	1.7	36.0	14.71	6.7	16.2
Prekindergarten and kindergarten .....	18.33	9.1	33.1	20.09	8.6	36.7	9.33	23.9	22.0
Elementary school teachers .....	28.29	2.1	35.1	28.44	2.1	35.7	22.76	12.0	20.5
Secondary school teachers .....	28.94	2.8	36.1	29.03	2.8	36.5	21.35	14.2	18.0
Teachers, special education .....	26.70	4.2	36.2	26.89	4.2	36.3	-	-	-
Teachers, n.e.c. ....	27.75	4.8	29.0	29.25	4.8	35.2	15.87	9.3	12.0
Substitute teachers .....	10.02	7.2	18.6	-	-	-	10.11	4.8	14.6

See footnotes at end of table.

Table 3. Selected occupations, East North Central: Mean hourly earnings<sup>1</sup> and weekly hours for full-time and part-time workers,<sup>2</sup> National Compensation Survey,<sup>3</sup> 1997—Continued

Occupation <sup>4</sup>	Total			Full time			Part time		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)	
<b>White collar</b> —Continued									
<b>Professional specialty and technical</b> —Continued									
Professional specialty—Continued									
Teachers, except college and university—Continued									
Vocational and educational counselors .....	\$20.10	8.0	36.9	\$20.47	8.5	38.7	\$15.23	1.3	22.8
Librarians, archivists, and curators .....	19.51	7.0	34.6	19.72	7.5	38.7	16.97	9.2	14.9
Librarians .....	20.30	7.1	35.6	20.51	7.6	38.9	17.49	9.5	16.9
Archivists and curators .....	14.84	11.4	29.6	14.88	12.3	37.3	—	—	—
Social scientists and urban planners .....	21.45	7.5	37.7	21.44	7.7	39.3	21.83	15.2	13.6
Economists .....	20.27	5.3	39.4	20.20	5.5	40.0	—	—	—
Psychologists .....	25.42	8.8	37.0	25.55	9.0	38.6	—	—	—
Urban planners .....	19.28	2.4	39.9	19.28	2.4	39.9	—	—	—
Social, recreation, and religious workers .....	14.91	2.6	37.8	15.02	2.6	38.9	11.72	8.6	21.4
Social workers .....	15.11	2.6	37.9	15.15	2.7	38.8	13.36	6.2	19.6
Recreation workers .....	10.77	11.6	36.0	11.46	11.0	38.9	—	—	—
Clergy .....	15.69	15.0	38.3	16.54	14.2	40.9	—	—	—
Religious workers, n.e.c. ....	17.71	10.7	37.4	—	—	—	—	—	—
Lawyers and judges .....	37.29	13.8	38.0	37.80	14.1	39.8	25.66	8.0	18.7
Lawyers .....	37.94	14.0	38.3	38.48	14.3	39.8	25.22	8.8	20.6
Writers, authors, entertainers, athletes, and professionals, n.e.c. ....	20.45	4.8	38.4	20.65	5.0	39.6	12.86	7.1	17.8
Technical writers .....	19.12	5.0	38.6	19.51	4.9	39.8	—	—	—
Designers .....	21.42	7.6	39.7	21.42	7.6	39.7	—	—	—
Actors and directors .....	17.97	20.0	40.0	17.97	20.0	40.0	—	—	—
Painters, sculptors, craft artists, and artist printmakers .....	13.45	8.3	39.5	13.45	8.3	39.5	—	—	—
Photographers .....	16.16	7.4	39.6	16.26	7.5	39.6	—	—	—
Artists, performers, and related workers, n.e.c. ....	12.91	8.8	24.3	—	—	—	—	—	—
Editors and reporters .....	18.18	9.0	40.1	18.18	9.0	40.2	—	—	—
Public relations specialists .....	22.03	10.3	39.5	22.18	10.3	39.7	—	—	—
Athletes .....	25.34	16.0	33.8	26.63	13.3	39.9	7.65	11.3	11.0
Professional, n.e.c. ....	21.16	7.0	38.8	21.27	7.2	40.0	17.16	9.3	18.6
Technical .....	17.28	2.0	36.1	17.58	2.1	39.3	13.81	3.5	19.0
Clinical laboratory technologists and technicians .....	14.56	2.9	34.5	14.66	3.5	39.6	14.02	6.2	20.5
Health record technologists and technicians .....	11.77	5.1	34.4	11.59	5.8	39.5	12.98	10.3	18.5
Radiological technicians .....	16.01	3.4	30.8	16.16	4.1	39.5	15.60	5.9	19.4
Licensed practical nurses .....	12.43	2.2	34.0	12.23	2.4	39.3	13.51	2.6	19.8
Health technologists and technicians, n.e.c. ....	12.71	2.7	31.9	13.10	3.0	39.8	10.90	4.5	16.6
Electrical and electronic technicians .....	18.74	2.5	39.1	18.91	2.4	40.2	—	—	—
Industrial engineering technicians .....	14.32	8.8	40.0	14.32	8.8	40.0	—	—	—
Mechanical engineering technicians .....	19.58	5.0	40.7	19.58	5.0	40.7	—	—	—
Engineering technicians, n.e.c. ....	20.26	3.4	39.4	20.34	3.3	39.6	—	—	—
Drafters .....	17.46	4.4	39.9	17.49	4.4	40.0	—	—	—
Surveying and mapping technicians .....	15.60	9.8	38.7	15.60	9.8	38.7	—	—	—
Biological technicians .....	17.44	19.5	40.0	17.44	19.5	40.0	—	—	—
Chemical technicians .....	16.03	4.0	39.1	16.09	4.1	39.8	—	—	—
Science technicians, n.e.c. ....	17.22	5.6	33.5	16.07	3.9	39.9	—	—	—
Airplane pilots and navigators .....	71.12	29.1	25.3	71.12	29.1	25.3	—	—	—
Broadcast equipment operators .....	11.23	13.0	37.7	11.59	13.9	40.0	—	—	—
Computer programmers .....	21.07	2.2	39.2	20.96	2.1	39.5	—	—	—
Legal assistants .....	19.55	6.1	38.3	19.68	6.1	39.3	—	—	—
Technical and related, n.e.c. ....	17.64	6.5	39.4	17.67	6.5	39.6	12.38	4.3	20.2
<b>Executive, administrative, and managerial</b> .....	26.88	1.1	39.9	26.92	1.2	40.3	20.92	9.0	17.3
Executives, administrators, and managers .....	30.75	1.5	40.2	30.80	1.6	40.7	23.07	15.4	13.3
Legislators .....	23.18	33.2	5.5	—	—	—	23.27	36.6	5.0
Administrators and officials, public administration .....	25.67	3.9	38.7	25.73	3.7	39.7	—	—	—
Financial managers .....	29.98	3.5	40.1	30.04	3.5	40.2	—	—	—
Personnel and labor relations managers .....	32.62	4.1	41.8	32.62	4.1	41.8	—	—	—
Purchasing managers .....	30.78	5.7	40.0	30.78	5.7	40.0	—	—	—

See footnotes at end of table.

Table 3. Selected occupations, East North Central: Mean hourly earnings<sup>1</sup> and weekly hours for full-time and part-time workers,<sup>2</sup> National Compensation Survey,<sup>3</sup> 1997—Continued

Occupation <sup>4</sup>	Total			Full time			Part time		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)	
<b>White collar</b> —Continued									
<b>Executive, administrative, and managerial</b>									
—Continued									
Executives, administrators, and managers									
—Continued									
Managers, marketing, advertising, and public relations .....	\$35.94	4.4	41.2	\$35.96	4.4	41.2	—	—	—
Administrators, education and related fields .....	31.08	3.8	39.7	31.09	3.8	40.0	\$29.79	21.7	22.4
Managers, medicine and health .....	27.76	3.0	39.7	27.73	3.0	40.0	—	—	—
Managers, food servicing and lodging establishments .....	15.69	5.7	45.0	15.66	5.7	45.3	—	—	—
Managers, service organizations, n.e.c. ....	19.07	7.6	39.5	19.22	7.7	40.8	—	—	—
Managers and administrators, n.e.c. ....	33.35	2.3	40.8	33.36	2.4	40.8	—	—	—
Management related .....	21.53	1.1	39.5	21.55	1.1	39.7	18.60	5.6	25.3
Accountants and auditors .....	18.09	8.0	39.8	18.09	8.0	39.9	—	—	—
Underwriters .....	26.54	20.6	38.6	26.54	20.6	38.6	—	—	—
Other financial officers .....	22.03	4.0	39.6	22.03	4.0	39.8	—	—	—
Management analysts .....	22.43	4.8	39.0	22.31	4.8	39.3	—	—	—
Personnel, training, and labor relations specialists .....	21.00	3.3	39.2	21.07	3.3	39.8	16.43	6.6	21.8
Buyers, wholesale and retail trade, except farm products .....	19.84	8.9	40.8	19.85	8.9	41.4	—	—	—
Purchasing agents and buyers, n.e.c. ....	23.18	3.8	39.8	23.29	3.8	39.8	—	—	—
Construction inspectors .....	19.05	6.2	39.4	19.09	6.3	39.6	—	—	—
Inspectors and compliance officers, except construction .....	17.17	3.0	39.5	17.17	3.0	39.5	—	—	—
Management related, n.e.c. ....	24.57	2.0	39.2	24.62	2.1	39.4	20.24	6.8	29.8
<b>Sales</b> .....	14.15	6.0	31.9	16.84	6.4	40.1	6.60	1.2	20.2
Supervisors, sales .....	17.68	4.8	39.6	17.89	4.8	40.4	—	—	—
Insurance sales .....	21.15	18.8	32.7	22.91	16.6	38.0	—	—	—
Real estate sales .....	26.44	17.6	38.2	26.44	17.6	38.2	—	—	—
Securities and financial services sales .....	37.95	11.7	40.4	37.95	11.7	40.4	—	—	—
Advertising and related sales .....	16.79	15.3	37.8	17.26	16.4	39.7	—	—	—
Sales, other business services .....	27.05	30.6	39.3	27.47	30.6	40.0	—	—	—
Sales engineers .....	30.76	15.8	41.3	30.76	15.8	41.3	—	—	—
Sales representatives, mining, manufacturing, and wholesale .....	26.06	7.3	41.0	26.06	7.3	41.0	—	—	—
Sales workers, motor vehicles and boats .....	16.63	8.1	43.2	16.63	8.1	43.2	—	—	—
Sales workers, apparel .....	6.58	5.2	27.2	7.40	9.4	38.8	5.88	2.0	21.7
Sales workers, furniture and home furnishings ..	11.43	9.7	33.7	12.62	7.0	40.3	8.53	5.3	24.1
Sales workers, radio, tv, hi-fi, and appliances ...	12.11	17.7	36.3	13.00	16.5	40.4	—	—	—
Sales workers, hardware and building supplies ..	8.91	10.0	35.4	9.37	9.9	39.8	—	—	—
Sales workers, parts .....	14.08	6.4	40.0	14.22	6.4	40.5	—	—	—
Sales workers, other commodities .....	9.14	5.6	29.1	10.79	7.7	39.6	6.83	1.5	21.2
Sales counter clerks .....	8.01	7.2	27.3	9.40	4.0	40.6	6.08	6.3	18.8
Cashiers .....	7.04	1.9	25.3	7.82	3.9	38.6	6.46	1.4	20.2
Demonstrators, promoters, and models, sales ..	9.26	9.1	19.5	—	—	—	6.86	6.3	14.1
Sales support, n.e.c. ....	11.54	5.5	38.9	11.79	5.5	40.0	7.59	6.2	26.9
<b>Administrative support, including clerical</b> .....	11.48	1.0	36.7	11.78	1.0	39.3	8.62	2.2	22.6
Supervisors, general office .....	15.41	3.3	39.7	15.47	3.4	39.7	—	—	—
Supervisors, computer equipment operators .....	20.35	10.9	39.8	20.35	10.9	39.8	—	—	—
Supervisors, financial records processing .....	17.82	6.9	39.6	17.82	6.9	39.6	—	—	—
Chief communications operators .....	13.66	9.2	40.0	13.66	9.2	40.0	—	—	—
Supervisors, distribution, scheduling, and adjusting clerks .....	16.51	5.0	40.4	16.53	5.1	40.5	—	—	—
Computer operators .....	13.78	4.9	39.6	13.78	4.9	39.7	—	—	—
Secretaries .....	12.48	1.5	37.7	12.56	1.5	39.2	11.14	6.8	23.1
Stenographers .....	12.11	4.1	33.6	12.82	4.3	38.2	9.97	3.4	24.5
Typists .....	11.14	3.5	36.5	11.59	3.8	39.1	8.55	4.0	26.7
Interviewers .....	9.76	2.6	32.9	10.21	1.3	39.8	8.22	4.9	20.9
Hotel clerks .....	7.93	2.7	33.4	8.39	4.0	39.6	—	—	—

See footnotes at end of table.

Table 3. Selected occupations, East North Central: Mean hourly earnings<sup>1</sup> and weekly hours for full-time and part-time workers,<sup>2</sup> National Compensation Survey,<sup>3</sup> 1997—Continued

Occupation <sup>4</sup>	Total			Full time			Part time		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)	
<b>White collar</b> —Continued									
<b>Administrative support, including clerical</b> —Continued									
Transportation ticket and reservation agents .....	\$12.78	8.4	34.3	\$13.37	8.8	40.0	\$10.25	8.0	21.3
Receptionists .....	9.09	3.0	34.2	9.31	3.1	39.8	8.12	5.4	21.2
Information clerks, n.e.c. ....	12.05	9.9	36.2	12.37	9.8	38.8	8.07	4.0	19.6
Correspondence clerks .....	13.61	6.4	39.2	13.63	6.4	39.6	—	—	—
Order clerks .....	11.06	2.4	38.0	11.27	2.5	39.9	8.48	6.7	24.0
Personnel clerks, except payroll and timekeeping .....	12.59	4.1	37.4	12.64	4.3	39.3	11.52	3.2	18.0
Library clerks .....	9.47	4.1	28.5	10.13	6.1	38.1	7.78	5.7	17.3
File clerks .....	8.95	3.6	33.4	9.25	3.8	39.1	7.50	3.6	19.5
Records clerks, n.e.c. ....	11.18	2.9	37.2	11.32	3.0	39.2	9.37	6.8	22.2
Bookkeepers, accounting and auditing clerks ...	11.19	2.3	37.4	11.52	1.8	39.2	7.27	8.1	24.0
Payroll and timekeeping clerks .....	13.14	3.9	37.9	13.41	4.0	39.7	7.88	4.4	20.2
Billing clerks .....	11.22	4.4	37.9	11.46	4.4	39.6	8.67	2.6	25.8
Cost and rate clerks .....	11.04	7.3	35.1	11.14	7.7	39.1	—	—	—
Billing, posting, and calculating machine operators .....	8.30	8.9	35.5	8.27	10.8	39.5	—	—	—
Duplicating machine operators .....	12.87	10.4	38.8	12.94	10.5	39.1	—	—	—
Mail preparing and paper handling machine operators .....	8.62	3.4	33.4	8.71	3.9	38.9	—	—	—
Office machine operators, n.e.c. ....	9.24	6.1	39.6	9.62	6.5	39.4	—	—	—
Telephone operators .....	12.08	4.8	34.8	12.68	9.8	39.0	8.31	3.7	20.7
Mail clerks, except postal service .....	8.39	5.4	34.9	8.66	6.5	38.9	7.24	6.6	24.5
Messengers .....	9.41	10.1	38.3	9.83	10.8	39.2	—	—	—
Dispatchers .....	10.89	5.7	37.8	11.22	6.2	40.3	7.71	7.1	23.5
Production coordinators .....	15.07	3.1	39.8	15.12	3.1	39.9	—	—	—
Traffic, shipping and receiving clerks .....	11.43	6.4	39.4	11.45	6.6	40.0	—	—	—
Stock and inventory clerks .....	10.63	3.8	34.0	11.36	2.6	39.9	6.86	3.5	19.4
Meter readers .....	13.48	6.0	39.0	13.61	5.8	40.0	—	—	—
Weighers, measurers, checkers, and samplers .....	16.09	7.5	39.6	16.18	7.5	40.0	—	—	—
Expeditors .....	12.55	3.0	38.7	12.68	6.2	40.0	—	—	—
Material recording, scheduling, and distribution clerks, n.e.c. ....	13.37	8.2	39.0	13.55	8.2	40.1	8.42	10.8	22.1
Insurance adjusters, examiners, and investigators .....	14.23	7.0	38.2	14.08	6.3	38.6	—	—	—
Investigators and adjusters, except insurance ...	11.21	3.2	37.9	11.39	3.2	39.7	8.90	5.1	24.0
Eligibility clerks, social welfare .....	12.61	4.9	37.1	13.01	4.8	40.0	—	—	—
Bill and account collectors .....	10.52	3.2	38.2	10.68	3.0	40.0	7.84	5.4	22.4
General office clerks .....	10.45	1.5	36.3	10.77	1.6	39.3	7.92	3.0	22.7
Bank tellers .....	7.91	5.0	34.6	8.05	6.1	39.7	7.33	2.0	22.6
Data entry keyers .....	9.70	3.7	36.4	9.95	4.1	39.3	7.68	3.9	23.0
Statistical clerks .....	10.47	5.5	36.8	10.47	5.9	39.3	—	—	—
Teachers' aides .....	9.18	3.5	30.8	9.45	4.0	34.7	8.19	3.9	21.9
Administrative support, n.e.c. ....	11.47	2.5	36.1	11.69	2.7	39.3	9.73	3.5	22.0
<b>Blue collar</b> .....	13.35	1.1	38.3	13.67	1.1	40.0	7.66	2.7	21.6
<b>Precision production, craft, and repair</b> .....									
Supervisors, mechanics and repairers .....	17.20	1.2	39.9	17.22	1.2	40.0	11.56	11.3	20.5
Automobile mechanics .....	22.26	4.1	40.5	22.26	4.1	40.5	—	—	—
Bus, truck, and stationary engine mechanics ....	17.09	9.9	40.4	17.09	9.9	40.4	—	—	—
Aircraft engine mechanics .....	17.06	4.5	40.0	17.07	4.5	40.2	—	—	—
Automobile body and related repairers .....	21.26	4.5	40.0	21.26	4.5	40.0	—	—	—
Aircraft mechanics, except engine .....	21.41	8.5	40.8	21.41	8.5	40.8	—	—	—
Heavy equipment mechanics .....	20.74	2.2	40.0	20.74	2.2	40.0	—	—	—
Industrial machinery repairers .....	15.95	7.4	40.0	15.95	7.4	40.0	—	—	—
Machinery maintenance .....	16.62	2.9	40.0	16.62	2.9	40.0	—	—	—
Electronic repairers, communications and industrial equipment .....	14.18	2.1	39.8	14.19	2.1	39.9	—	—	—
Data processing equipment repairers .....	14.40	5.7	40.0	14.40	5.7	40.0	—	—	—
Household appliance and power tool repairers .....	14.74	5.5	38.6	14.84	5.4	39.0	—	—	—
	—	—	—	15.77	6.5	40.0	—	—	—

See footnotes at end of table.

Table 3. Selected occupations, East North Central: Mean hourly earnings<sup>1</sup> and weekly hours for full-time and part-time workers,<sup>2</sup> National Compensation Survey,<sup>3</sup> 1997–Continued

Occupation <sup>4</sup>	Total			Full time			Part time		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)	
<b>Blue collar –Continued</b>									
<b>Precision production, craft, and repair –Continued</b>									
Telephone installers and repairers .....	\$14.06	6.5	39.8	\$14.06	6.5	39.8	–	–	–
Heating, air conditioning, and refrigeration mechanics .....	15.54	5.5	38.8	15.52	5.8	40.0	–	–	–
Office machine repairers .....	13.65	8.8	39.7	13.65	8.8	39.7	–	–	–
Mechanical controls and valve repairers .....	16.14	6.3	37.0	16.64	6.0	39.6	–	–	–
Millwrights .....	18.43	8.2	40.2	18.43	8.2	40.2	–	–	–
Mechanics and repairers, n.e.c. ....	16.42	2.3	39.9	16.45	2.3	40.0	–	–	–
Supervisors, carpenters and related workers ....	23.28	5.1	40.0	23.28	5.1	40.0	–	–	–
Supervisors, electricians and power transmission installers .....	26.04	4.7	40.4	26.04	4.7	40.4	–	–	–
Supervisors, plumbers, pipefitters, and steamfitters .....	25.39	5.3	40.1	25.39	5.3	40.1	–	–	–
Supervisors, construction trades, n.e.c. ....	20.72	4.7	39.8	20.72	4.7	39.8	–	–	–
Carpenters .....	18.09	6.4	39.9	18.08	6.4	40.0	–	–	–
Electricians .....	19.40	2.6	40.2	19.41	2.6	40.2	–	–	–
Electrician apprentices .....	12.48	4.2	41.0	12.48	4.2	41.0	–	–	–
Electrical power installers and repairers .....	22.02	3.9	40.0	22.02	3.9	40.0	–	–	–
Painters, construction and maintenance .....	19.16	4.6	40.0	19.16	4.6	40.0	–	–	–
Plumbers, pipefitters and steamfitters .....	21.06	2.5	40.3	21.06	2.5	40.3	–	–	–
Plumber, pipefitter, and steamfitter apprentices .....	14.89	12.7	44.5	14.89	12.7	44.5	–	–	–
Concrete and terrazzo finishers .....	21.53	8.5	40.0	21.53	8.5	40.0	–	–	–
Paving, surfacing, and tamping equipment operators .....	20.53	9.9	40.5	20.53	9.9	40.5	–	–	–
Construction trades, n.e.c. ....	19.16	12.8	39.2	19.17	12.8	39.3	–	–	–
Supervisors, production .....	18.47	5.5	40.6	18.47	5.5	40.6	–	–	–
Tool and die makers .....	19.61	3.5	40.1	19.61	3.5	40.1	–	–	–
Tool and die maker apprentices .....	17.05	7.7	39.7	17.05	7.7	39.7	–	–	–
Precision assemblers, metal .....	16.59	5.5	40.5	16.59	5.5	40.5	–	–	–
Machinists .....	15.80	2.4	40.0	15.75	2.5	40.5	–	–	–
Precision grinders, filers, and tool sharpeners ...	16.90	5.9	40.2	16.90	5.9	40.2	–	–	–
Sheet metal workers .....	17.56	10.2	40.0	17.56	10.2	40.0	–	–	–
Cabinet makers and bench carpenters .....	12.03	6.6	40.0	12.03	6.6	40.0	–	–	–
Hand molders and shapers, except jewelers ....	16.80	8.1	40.1	16.80	8.1	40.1	–	–	–
Patternmakers, layout workers, and cutters .....	23.25	7.2	40.0	23.25	7.2	40.0	–	–	–
Electrical and electronic equipment assemblers .....	9.82	14.0	39.6	9.88	14.2	40.0	–	–	–
Miscellaneous precision workers, n.e.c. ....	15.20	4.2	40.0	15.20	4.2	40.0	–	–	–
Butchers and meat cutters .....	9.94	15.8	39.9	9.93	15.8	40.0	–	–	–
Bakers .....	8.09	5.6	33.2	8.37	6.0	39.7	–	–	–
Food batchmakers .....	12.55	11.3	40.0	12.55	11.3	40.0	–	–	–
Inspectors, testers, and graders .....	17.24	3.8	40.2	17.24	3.8	40.2	–	–	–
Water and sewer treatment plant operators .....	14.60	2.5	40.0	14.60	2.5	40.0	–	–	–
Power plant operators .....	21.55	5.2	39.9	21.55	5.2	39.9	–	–	–
Stationary engineers .....	19.69	5.4	39.5	19.69	5.4	39.6	–	–	–
Miscellaneous plant and system operators, n.e.c. ....	16.58	6.5	40.0	16.58	6.5	40.0	–	–	–
<b>Machine operators, assemblers, and inspectors .....</b>	<b>12.25</b>	<b>1.9</b>	<b>39.8</b>	<b>12.32</b>	<b>1.8</b>	<b>40.0</b>	<b>\$6.62</b>	<b>4.3</b>	<b>26.8</b>
Lathe and turning machine set-up operators .....	14.40	3.2	40.0	14.40	3.2	40.0	–	–	–
Lathe and turning machine operators .....	12.48	6.8	40.1	12.48	6.8	40.1	–	–	–
Milling and planing machine operators .....	14.73	6.6	40.0	14.73	6.6	40.0	–	–	–
Punching and stamping press operators .....	13.42	3.3	39.9	13.46	3.3	40.0	–	–	–
Rolling machine operators .....	13.58	9.1	41.3	13.58	9.1	41.3	–	–	–
Drilling and boring machine operators .....	10.27	14.7	40.0	10.27	14.7	40.0	–	–	–
Grinding, abrading, buffing, and polishing machine operators .....	11.59	4.7	39.8	11.63	4.8	40.0	–	–	–
Forging machine operators .....	12.09	3.3	40.0	12.09	3.3	40.0	–	–	–
Numerical control machine operators .....	12.14	5.2	40.0	12.14	5.2	40.0	–	–	–
Fabricating machine operators, n.e.c. ....	13.82	3.9	40.2	13.82	3.9	40.2	–	–	–
Molding and casting machine operators .....	10.11	3.6	39.9	10.12	3.6	39.9	–	–	–
Metal plating machine operators .....	11.84	8.7	41.7	11.84	8.7	41.7	–	–	–
Sawing machine operators .....	11.09	4.2	42.3	11.09	4.2	42.3	–	–	–

See footnotes at end of table.

Table 3. Selected occupations, East North Central: Mean hourly earnings<sup>1</sup> and weekly hours for full-time and part-time workers,<sup>2</sup> National Compensation Survey,<sup>3</sup> 1997—Continued

Occupation <sup>4</sup>	Total			Full time			Part time		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)	
<b>Blue collar—Continued</b>									
<b>Machine operators, assemblers, and inspectors—Continued</b>									
Printing press operators .....	\$13.64	7.0	39.7	\$13.64	7.0	39.7	—	—	—
Photoengravers and lithographers .....	15.86	7.5	37.4	16.42	6.7	39.4	—	—	—
Typesetters and compositors .....	11.11	13.0	38.6	—	—	—	—	—	—
Textile cutting machine operators .....	13.43	12.3	40.0	13.43	12.3	40.0	—	—	—
Textile sewing machine operators .....	9.49	18.2	33.6	10.40	18.0	40.0	—	—	—
Laundering and dry cleaning machine operators .....	7.05	3.6	37.4	7.06	4.0	39.5	\$6.93	6.4	25.0
Cementing and gluing machine operators .....	12.16	7.4	40.0	12.16	7.4	40.0	—	—	—
Packaging and filling machine operators .....	12.61	5.7	38.6	12.84	5.0	40.0	—	—	—
Extruding and forming machine operators .....	11.17	3.2	40.0	11.17	3.2	40.0	—	—	—
Mixing and blending machine operators .....	13.29	3.2	40.0	13.29	3.2	40.1	—	—	—
Separating, filtering, and clarifying machine operators .....	15.44	3.9	40.4	15.44	3.9	40.4	—	—	—
Compressing and compacting machine operators .....	11.07	7.0	40.0	11.07	7.0	40.0	—	—	—
Painting and paint spraying machine operators .....	11.87	4.2	40.2	11.87	4.2	40.2	—	—	—
Roasting and baking machine operators, food ..	13.41	10.2	38.5	13.45	10.5	40.0	—	—	—
Washing, cleaning, and pickling machine operators .....	12.76	13.7	40.0	12.76	13.7	40.0	—	—	—
Folding machine operators .....	12.42	4.4	40.0	12.42	4.4	40.0	—	—	—
Furnace, kiln, and oven operators, except food ..	13.43	14.1	40.0	13.43	14.1	40.0	—	—	—
Crushing and grinding machine operators .....	11.92	10.6	40.1	11.92	10.6	40.1	—	—	—
Slicing and cutting machine operators .....	13.28	4.7	39.9	13.28	4.7	40.0	—	—	—
Photographic process machine operators .....	12.47	10.9	39.5	12.57	10.9	40.0	—	—	—
Miscellaneous machine operators, n.e.c. ....	11.53	4.2	39.9	11.55	4.2	40.0	7.53	7.5	29.1
Welders and cutters .....	14.14	2.5	40.0	14.16	2.5	40.0	—	—	—
Solders and braziers .....	10.09	20.8	39.9	10.09	20.8	39.9	—	—	—
Assemblers .....	12.79	4.0	39.7	12.95	3.9	40.0	6.02	4.0	31.2
Hand cutting and trimming .....	6.88	7.0	40.0	6.88	7.0	40.0	—	—	—
Hand molding, casting, and forming .....	12.77	8.8	40.0	12.77	8.8	40.0	—	—	—
Hand painting, coating, and decorating .....	9.54	12.3	40.0	9.54	12.3	40.0	—	—	—
Miscellaneous hand working, n.e.c. ....	10.53	7.7	40.0	10.54	7.7	40.1	—	—	—
Production inspectors, checkers and examiners ..	11.05	4.6	39.9	11.06	4.6	40.1	—	—	—
Production testers .....	12.95	8.0	40.0	12.95	8.0	40.0	—	—	—
Graders and sorters, except agricultural .....	9.20	6.7	40.0	9.20	6.7	40.0	—	—	—
<b>Transportation and material moving .....</b>	<b>14.06</b>	<b>1.8</b>	<b>36.4</b>	<b>14.58</b>	<b>1.7</b>	<b>40.3</b>	<b>9.96</b>	<b>5.1</b>	<b>20.5</b>
Supervisors, motor vehicle operators .....	16.14	9.0	39.9	16.16	9.0	40.3	—	—	—
Truck drivers .....	15.48	2.9	40.3	15.63	3.0	41.3	11.27	6.6	24.2
Driver-sales workers .....	13.78	8.1	36.3	14.50	7.0	40.0	—	—	—
Bus drivers .....	12.39	4.0	25.3	13.74	3.0	36.3	11.32	6.7	20.4
Taxicab drivers and chauffeurs .....	8.05	10.2	32.5	9.55	11.7	40.0	6.02	3.8	25.9
Parking lot attendants .....	6.79	9.3	22.7	—	—	—	5.69	5.3	18.3
Motor transportation, n.e.c. ....	8.10	9.6	26.4	10.04	10.2	38.7	5.87	3.2	19.3
Railroad conductors and yardmasters .....	19.64	2.3	40.0	19.64	2.3	40.0	—	—	—
Locomotive operating .....	17.29	9.7	41.7	17.29	9.7	41.7	—	—	—
Supervisors, material moving equipment .....	18.86	8.4	41.2	18.86	8.4	41.2	—	—	—
Operating engineers .....	19.26	7.0	40.3	19.26	7.0	40.3	—	—	—
Crane and tower operators .....	14.42	4.4	40.4	14.42	4.4	40.4	—	—	—
Excavating and loading machine operators .....	16.86	5.9	40.1	16.86	5.9	40.1	—	—	—
Grader, dozer, and scrapper operators .....	17.82	17.0	40.7	17.82	17.0	40.7	—	—	—
Industrial truck and tractor equipment operators ..	12.46	1.8	39.7	12.51	1.9	39.9	8.25	7.7	23.4
Miscellaneous material moving equipment operators, n.e.c. ....	14.04	5.7	35.9	14.51	5.7	40.1	—	—	—
<b>Handlers, equipment cleaners, helpers, and laborers .....</b>	<b>10.40</b>	<b>2.0</b>	<b>34.7</b>	<b>11.13</b>	<b>2.0</b>	<b>39.8</b>	<b>6.84</b>	<b>2.0</b>	<b>21.5</b>
Supervisors, agriculture-related workers .....	17.64	12.8	40.0	17.64	12.8	40.0	—	—	—
Groundskeepers and gardeners, except farm ...	10.48	5.0	35.6	11.34	5.3	39.6	6.68	2.7	24.6
Animal caretakers, except farm .....	13.12	8.7	38.3	13.24	7.9	38.7	—	—	—

See footnotes at end of table.

Table 3. Selected occupations, East North Central: Mean hourly earnings<sup>1</sup> and weekly hours for full-time and part-time workers,<sup>2</sup> National Compensation Survey,<sup>3</sup> 1997–Continued

Occupation <sup>4</sup>	Total			Full time			Part time		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)	
<b>Blue collar –Continued</b>									
<b>Handlers, equipment cleaners, helpers, and laborers –Continued</b>									
Supervisors, handlers, equipment cleaners, and laborers, n.e.c. ....	\$14.34	5.4	39.4	\$14.46	5.5	40.2	–	–	–
Helpers, mechanics and repairers .....	13.92	5.5	39.4	14.01	5.5	40.2	–	–	–
Helpers, construction trades .....	12.96	16.7	39.5	13.60	16.4	40.0	–	–	–
Construction laborers .....	15.55	5.2	39.8	15.55	5.2	39.8	–	–	–
Production helpers .....	10.86	4.6	39.2	11.02	4.4	40.0	\$6.84	3.8	26.3
Garbage collectors .....	11.97	17.1	39.3	–	–	–	–	–	–
Stock handlers and baggers .....	8.95	1.7	29.1	10.37	1.6	39.4	6.37	2.3	19.7
Machine feeders and offbearers .....	9.44	4.0	39.3	9.56	4.1	40.0	–	–	–
Freight, stock, and material handlers, n.e.c. ....	12.45	7.3	34.0	13.10	7.7	39.5	9.62	4.5	21.2
Garage and service station related .....	11.56	20.6	35.0	12.58	19.8	39.7	–	–	–
Vehicle washers and equipment cleaners .....	10.05	6.1	37.4	10.07	6.4	39.6	9.81	17.3	20.6
Hand packers and packagers .....	8.42	4.0	38.9	8.58	4.2	40.0	6.25	5.2	28.8
Laborers, except construction, n.e.c. ....	9.88	4.0	35.7	10.68	2.8	39.9	6.17	3.5	24.1
<b>Service</b> .....	9.26	1.3	31.3	10.30	1.4	39.1	6.20	1.1	19.7
Protective service .....	14.51	2.8	36.7	15.11	2.8	41.2	8.09	3.5	16.8
Supervisors, firefighters and fire prevention .....	17.29	4.1	50.7	17.29	4.1	51.0	–	–	–
Supervisors, police and detectives .....	23.75	5.8	40.0	23.75	5.8	40.0	–	–	–
Supervisors, guards .....	14.33	9.5	37.6	14.51	9.2	38.6	–	–	–
Firefighting .....	15.49	3.6	44.6	15.71	3.4	50.3	8.82	7.4	10.2
Police and detectives, public service .....	19.31	2.5	39.3	19.37	2.4	39.8	–	–	–
Sheriffs, bailiffs, and other law enforcement officers .....	14.37	3.9	39.6	14.39	3.9	39.8	–	–	–
Correctional institution officers .....	13.63	4.1	38.5	13.73	4.1	39.2	–	–	–
Crossing guards .....	6.88	11.4	13.2	–	–	–	6.88	11.4	13.2
Guards and police, except public service .....	8.30	4.5	31.9	8.31	5.7	39.5	8.26	5.0	18.4
Protective service, n.e.c. ....	10.15	12.7	25.9	12.02	14.3	39.3	6.88	4.5	16.2
Food service .....	6.64	2.1	27.9	7.66	2.3	38.2	5.22	1.8	20.3
Supervisors, food preparation and service .....	10.77	2.6	38.2	11.04	2.6	40.1	7.70	2.7	24.7
Bartenders .....	6.35	7.0	26.0	7.23	10.8	36.5	5.56	7.1	20.6
Waiters and waitresses .....	3.31	6.0	25.6	3.63	10.2	37.2	3.03	3.9	20.2
Cooks .....	8.36	2.3	33.2	8.69	2.2	38.0	7.02	3.2	21.9
Food counter, fountain, and related .....	5.55	3.4	22.9	6.09	5.8	36.8	5.25	3.7	19.0
Kitchen workers, food preparation .....	7.00	3.0	29.1	7.37	3.0	38.4	6.43	3.8	21.2
Waiters/Waitresses' assistants .....	4.58	5.3	18.7	5.24	11.6	36.3	4.42	5.7	16.7
Food preparation, n.e.c. ....	6.53	2.4	27.0	7.19	3.0	38.5	5.90	1.9	21.0
Health service .....	8.38	1.4	33.3	8.50	1.7	38.5	7.84	1.9	20.6
Health aides, except nursing .....	9.37	2.6	33.9	9.48	2.7	37.9	8.59	6.5	19.0
Nursing aides, orderlies and attendants .....	7.98	1.5	33.0	8.07	1.9	38.8	7.67	1.9	21.1
Cleaning and building service .....	9.35	1.7	34.4	9.92	1.6	39.5	6.66	3.1	21.2
Supervisors, cleaning and building service workers .....	12.72	4.7	40.0	12.74	4.7	40.2	–	–	–
Maids and housemen .....	6.40	1.6	31.3	6.47	2.1	38.7	6.22	2.0	21.1
Janitors and cleaners .....	9.65	1.7	34.6	10.22	1.5	39.5	6.79	3.7	21.3

See footnotes at end of table.

Table 3. Selected occupations, East North Central: Mean hourly earnings<sup>1</sup> and weekly hours for full-time and part-time workers,<sup>2</sup> National Compensation Survey,<sup>3</sup> 1997—Continued

Occupation <sup>4</sup>	Total			Full time			Part time		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)	
<b>Service —Continued</b>									
Personal service .....	\$8.87	3.3	26.9	\$9.89	4.6	36.9	\$6.81	1.7	17.4
Supervisors, personal service .....	13.46	10.7	37.8	13.59	10.8	38.9	—	—	—
Hairdressers and cosmetologists .....	9.82	10.7	37.0	10.20	11.0	39.6	—	—	—
Attendants, amusement, and recreation facilities .....	6.25	2.0	22.6	—	—	—	6.44	2.1	20.2
Guides .....	7.56	7.7	29.4	—	—	—	—	—	—
Ushers .....	6.22	5.8	17.0	—	—	—	6.22	5.8	17.0
Public transportation attendants .....	31.17	6.4	19.3	32.61	6.4	19.5	—	—	—
Baggage porters and bellhops .....	9.09	19.0	36.6	8.99	22.7	40.0	—	—	—
Welfare service aides .....	7.10	3.9	29.5	7.44	4.7	38.8	6.16	5.4	17.8
Early childhood teachers' assistants .....	7.30	5.8	27.3	7.48	7.5	38.0	6.92	4.8	17.4
Child care workers, n.e.c. ....	8.59	3.8	24.7	9.45	5.6	39.0	7.29	2.0	16.0
Service, n.e.c. ....	8.24	3.9	27.1	9.14	4.8	38.5	6.53	3.2	17.3

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

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

<sup>3</sup> In this census division, collection was conducted between October 1996 and May

1998. The average reference period was August 1997.

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

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

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

Table 4. Selected occupations, East North Central, private industry: Mean hourly earnings<sup>1</sup> for full-time and part-time workers,<sup>2</sup> National Compensation Survey,<sup>3</sup> 1997

Occupation <sup>4</sup>	Total			Full time			Part time		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)	
All .....	\$14.85	1.0	36.3	\$15.62	1.1	39.8	\$8.28	1.9	20.7
All excluding sales .....	14.89	.9	36.6	15.56	.9	39.8	8.59	2.1	20.8
<b>White collar</b> .....	18.28	1.4	36.5	19.11	1.5	39.8	10.74	2.9	20.8
White collar excluding sales .....	18.92	1.3	37.4	19.39	1.2	39.8	13.06	3.3	21.2
<b>Professional specialty and technical</b> .....	21.66	1.4	36.2	21.98	1.4	39.7	18.50	3.6	19.2
Professional specialty .....	23.37	1.5	36.3	23.68	1.6	39.8	20.33	4.0	19.4
Engineers, architects, and surveyors .....	27.25	1.5	40.4	27.25	1.5	40.4	-	-	-
Metallurgical and materials engineers .....	29.67	4.5	40.0	29.67	4.5	40.0	-	-	-
Civil engineers .....	22.38	4.8	40.0	22.38	4.8	40.0	-	-	-
Electrical and electronic engineers .....	28.85	4.9	40.4	28.85	4.9	40.4	-	-	-
Industrial engineers .....	24.01	2.6	40.5	24.02	2.6	40.5	-	-	-
Mechanical engineers .....	26.14	4.5	40.6	26.11	4.5	40.7	-	-	-
Engineers, n.e.c. ....	28.17	2.0	40.3	28.19	2.0	40.3	-	-	-
Mathematical and computer scientists .....	27.84	3.1	39.8	27.86	3.2	39.9	24.94	8.7	26.0
Computer systems analysts and scientists .....	27.35	2.6	39.9	27.35	2.6	40.0	27.30	4.0	29.6
Operations and systems researchers and analysts .....	29.10	7.8	39.4	29.16	7.8	39.6	-	-	-
Actuaries .....	31.43	11.3	38.3	31.43	11.3	38.3	-	-	-
Natural scientists .....	25.49	9.4	38.9	25.63	9.8	40.5	-	-	-
Chemists, except biochemists .....	28.98	6.5	40.3	28.98	6.5	40.3	-	-	-
Physical scientists, n.e.c. ....	27.21	9.8	38.4	27.72	9.8	40.1	-	-	-
Medical scientists .....	18.38	8.8	35.6	18.04	9.6	39.8	-	-	-
Health related .....	21.39	1.3	32.2	21.28	1.6	39.7	21.76	3.9	20.2
Physicians .....	46.37	12.6	36.1	42.87	14.0	43.5	67.82	6.5	17.6
Registered nurses .....	18.98	1.2	31.7	18.94	1.5	39.4	19.10	1.5	20.7
Pharmacists .....	27.24	2.7	30.8	26.58	2.1	40.0	29.52	8.5	17.2
Dietitians .....	16.39	4.3	35.8	16.06	5.0	40.0	18.89	5.1	20.2
Respiratory therapists .....	16.10	1.5	31.5	16.17	1.9	39.4	15.86	2.6	18.1
Occupational therapists .....	23.89	3.9	32.7	24.07	4.3	40.0	22.94	4.7	16.7
Physical therapists .....	24.05	5.7	34.9	23.46	6.2	39.8	28.23	9.6	18.8
Speech therapists .....	21.35	3.5	33.0	20.72	3.4	40.0	-	-	-
Therapists, n.e.c. ....	15.61	5.6	36.5	15.81	6.0	38.5	13.52	2.2	23.7
Physicians' assistants .....	24.44	15.8	30.5	-	-	-	-	-	-
Teachers, college and university .....	31.57	6.3	36.5	31.71	6.3	41.1	28.58	16.1	10.6
Biological science teachers .....	29.50	8.1	37.7	29.50	8.1	37.7	-	-	-
Engineering teachers .....	34.31	5.4	38.5	34.31	5.4	38.5	-	-	-
Mathematical science teachers .....	30.35	6.7	41.1	30.47	6.7	42.8	-	-	-
Medical science teachers .....	39.55	26.9	44.9	38.61	27.6	45.4	-	-	-
Business, commerce, and marketing teachers ..	-	-	-	32.13	8.7	39.7	-	-	-
Art, drama, and music teachers .....	29.72	13.6	32.1	29.92	16.1	40.3	28.69	7.2	15.7
Education teachers .....	27.80	3.5	36.5	27.83	3.5	38.1	-	-	-
English teachers .....	23.30	5.8	35.4	23.36	5.9	37.3	-	-	-
Foreign language teachers .....	28.39	13.8	35.6	28.99	14.4	41.1	-	-	-
Theology teachers .....	24.91	12.9	39.5	24.91	12.9	39.5	-	-	-
Teachers, post secondary, subject not specified	27.39	12.6	28.5	28.54	14.9	38.0	20.77	24.8	11.7
Teachers, post secondary, n.e.c. ....	25.95	12.4	30.5	26.41	12.5	36.1	18.41	9.4	8.7
Teachers, except college and university .....	15.36	3.5	31.4	16.33	3.2	37.9	9.50	15.1	15.5
Prekindergarten and kindergarten .....	10.14	18.0	33.3	11.01	17.4	38.7	-	-	-
Elementary school teachers .....	17.95	2.0	35.1	18.03	2.0	36.9	16.19	7.9	17.9
Secondary school teachers .....	20.23	3.8	36.3	20.33	3.9	37.5	-	-	-
Teachers, n.e.c. ....	14.59	12.4	16.5	17.41	11.9	39.4	10.29	16.2	8.8
Substitute teachers .....	8.65	2.3	9.7	-	-	-	8.65	2.3	9.7
Vocational and educational counselors .....	16.87	11.6	39.2	16.96	11.7	39.8	-	-	-
Librarians, archivists, and curators .....	17.08	4.6	33.0	16.98	4.8	39.0	-	-	-
Librarians .....	17.40	4.8	35.4	17.16	5.0	39.2	-	-	-
Archivists and curators .....	14.07	13.9	20.0	15.09	12.7	37.4	-	-	-
Social scientists and urban planners .....	19.91	4.8	36.3	19.82	4.9	39.6	21.83	15.2	13.6
Economists .....	20.69	5.3	39.4	20.64	5.5	40.0	-	-	-
Psychologists .....	19.05	8.5	35.8	18.91	8.9	39.2	-	-	-
Social, recreation, and religious workers .....	13.09	1.8	37.6	13.17	1.8	38.9	11.35	11.9	21.1
Social workers .....	13.14	1.7	37.6	13.15	1.7	38.9	13.01	6.6	19.5
Recreation workers .....	-	-	-	9.99	11.1	39.6	-	-	-
Clergy .....	15.93	15.3	40.8	16.54	14.2	40.9	-	-	-

See footnotes at end of table.

Table 4. Selected occupations, East North Central, private industry: Mean hourly earnings<sup>1</sup> for full-time and part-time workers,<sup>2</sup> National Compensation Survey,<sup>3</sup> 1997—Continued

Occupation <sup>4</sup>	Total			Full time			Part time		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)	
<b>White collar</b> —Continued									
<b>Professional specialty and technical</b> —Continued									
Professional specialty—Continued									
Social, recreation, and religious workers									
—Continued									
Religious workers, n.e.c. ....	\$17.71	10.7	37.4	—	—	—	—	—	—
Lawyers and judges .....	46.90	16.6	40.6	\$46.90	16.6	40.6	—	—	—
Lawyers .....	46.90	16.6	40.6	46.90	16.6	40.6	—	—	—
Writers, authors, entertainers, athletes, and professionals, n.e.c. ....									
Technical writers .....	19.84	5.3	38.8	19.98	5.4	39.6	\$13.29	7.0	19.2
Designers .....	19.12	5.0	38.6	19.51	4.9	39.8	—	—	—
Actors and directors .....	21.45	7.6	39.7	21.45	7.6	39.7	—	—	—
Painters, sculptors, craft artists, and artist printmakers .....	17.97	20.0	40.0	17.97	20.0	40.0	—	—	—
Photographers .....	13.45	8.3	39.5	13.45	8.3	39.5	—	—	—
Artists, performers, and related workers, n.e.c. ....	16.16	7.4	39.6	16.26	7.5	39.6	—	—	—
Editors and reporters .....	12.82	11.0	22.6	—	—	—	—	—	—
Public relations specialists .....	18.26	9.1	40.2	18.25	9.1	40.2	—	—	—
Athletes .....	23.03	14.6	39.8	23.03	14.6	39.8	—	—	—
Professional, n.e.c. ....	16.14	7.1	30.8	17.12	7.3	39.5	7.30	11.2	10.2
Technical .....	20.17	5.1	39.4	20.19	5.2	40.0	—	—	—
Clinical laboratory technologists and technicians .....	17.51	2.2	35.9	17.87	2.3	39.3	13.83	3.7	18.9
Health record technologists and technicians .....	15.03	2.2	34.1	15.23	2.8	39.6	14.09	6.4	20.4
Radiological technicians .....	11.25	4.8	34.5	11.14	5.6	39.4	—	—	—
Licensed practical nurses .....	16.11	3.6	30.8	16.26	4.4	39.5	15.69	6.0	19.4
Health technologists and technicians, n.e.c. ....	12.43	2.4	33.7	12.22	2.7	39.2	13.49	2.7	19.5
Electrical and electronic technicians .....	12.51	2.7	31.5	12.89	3.0	39.7	10.92	4.5	16.7
Industrial engineering technicians .....	19.03	2.3	39.1	19.20	2.3	40.3	—	—	—
Mechanical engineering technicians .....	14.32	8.8	40.0	14.32	8.8	40.0	—	—	—
Engineering technicians, n.e.c. ....	19.58	5.0	40.7	19.58	5.0	40.7	—	—	—
Drafters .....	20.56	4.3	40.0	20.62	4.3	40.1	—	—	—
Chemical technicians .....	17.46	4.4	39.9	17.49	4.4	40.0	—	—	—
Science technicians, n.e.c. ....	16.01	4.2	39.1	16.08	4.3	39.8	—	—	—
Airplane pilots and navigators .....	—	—	—	16.54	2.6	39.9	—	—	—
Broadcast equipment operators .....	71.12	29.1	25.3	71.12	29.1	25.3	—	—	—
Computer programmers .....	11.41	13.4	37.6	11.81	14.5	40.0	—	—	—
Legal assistants .....	21.13	2.3	39.3	21.01	2.2	39.5	—	—	—
Technical and related, n.e.c. ....	20.60	5.8	38.5	20.70	5.9	39.2	—	—	—
	18.09	8.7	39.8	18.10	8.8	39.9	—	—	—
<b>Executive, administrative, and managerial</b> .....									
Executives, administrators, and managers .....	27.33	1.3	40.3	27.37	1.3	40.4	19.45	8.8	25.1
Financial managers .....	31.29	1.8	40.9	31.31	1.8	41.0	22.63	19.1	23.7
Personnel and labor relations managers .....	30.03	3.5	40.1	30.10	3.6	40.2	—	—	—
Purchasing managers .....	32.79	4.2	41.9	32.79	4.2	41.9	—	—	—
Managers, marketing, advertising, and public relations .....	30.83	5.7	40.0	30.83	5.7	40.0	—	—	—
Administrators, education and related fields .....	36.09	4.4	41.2	36.09	4.4	41.2	—	—	—
Managers, medicine and health .....	25.41	10.0	42.6	25.50	10.0	42.9	—	—	—
Managers, food servicing and lodging establishments .....	27.04	3.5	39.8	27.00	3.5	40.2	—	—	—
Managers, service organizations, n.e.c. ....	15.69	5.9	45.3	15.72	5.9	45.5	—	—	—
Managers and administrators, n.e.c. ....	19.59	10.1	41.0	19.63	10.1	41.2	—	—	—
Management related .....	33.68	2.4	40.9	33.69	2.4	40.9	—	—	—
Accountants and auditors .....	22.03	1.2	39.6	22.06	1.2	39.7	17.86	5.7	25.8
Underwriters .....	17.88	8.7	39.9	17.87	8.7	40.0	—	—	—
Other financial officers .....	26.54	20.6	38.6	26.54	20.6	38.6	—	—	—
Management analysts .....	22.16	4.2	39.6	22.16	4.2	39.8	—	—	—
Personnel, training, and labor relations specialists .....	22.09	5.3	39.3	22.09	5.3	39.3	—	—	—
Buyers, wholesale and retail trade, except farm products .....	21.43	3.7	39.3	21.51	3.8	39.8	16.64	7.3	22.9
	19.95	9.1	40.8	19.96	9.1	41.4	—	—	—

See footnotes at end of table.

Table 4. Selected occupations, East North Central, private industry: Mean hourly earnings<sup>1</sup> for full-time and part-time workers,<sup>2</sup> National Compensation Survey,<sup>3</sup> 1997—Continued

Occupation <sup>4</sup>	Total			Full time			Part time		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)	
<b>White collar</b> —Continued									
<b>Executive, administrative, and managerial</b>									
—Continued									
Management related—Continued									
Purchasing agents and buyers, n.e.c. ....	\$24.35	4.2	39.8	\$24.50	4.2	39.8	—	—	—
Construction inspectors .....	21.88	7.1	40.0	21.88	7.1	40.0	—	—	—
Inspectors and compliance officers, except construction .....	20.34	5.9	40.4	20.34	5.9	40.4	—	—	—
Management related, n.e.c. ....	25.39	2.3	39.3	25.45	2.3	39.4	\$19.81	9.1	30.7
<b>Sales</b>									
Supervisors, sales .....	14.16	6.0	31.9	16.86	6.5	40.1	6.59	1.2	20.3
Insurance sales .....	17.68	4.8	39.6	17.89	4.8	40.4	—	—	—
Real estate sales .....	21.15	18.8	32.7	22.91	16.6	38.0	—	—	—
Securities and financial services sales .....	26.44	17.6	38.2	26.44	17.6	38.2	—	—	—
Advertising and related sales .....	37.95	11.7	40.4	37.95	11.7	40.4	—	—	—
Sales, other business services .....	16.73	15.6	37.7	17.20	16.8	39.6	—	—	—
Sales engineers .....	27.06	30.6	39.3	27.48	30.6	40.0	—	—	—
Sales representatives, mining, manufacturing, and wholesale .....	30.76	15.8	41.3	30.76	15.8	41.3	—	—	—
Sales workers, motor vehicles and boats .....	26.06	7.3	41.0	26.06	7.3	41.0	—	—	—
Sales workers, apparel .....	16.63	8.1	43.2	16.63	8.1	43.2	—	—	—
Sales workers, furniture and home furnishings ..	6.58	5.2	27.2	7.40	9.4	38.8	5.88	2.0	21.7
Sales workers, radio, tv, hi-fi, and appliances ...	11.43	9.7	33.7	12.62	7.0	40.3	8.53	5.3	24.1
Sales workers, hardware and building supplies ..	12.11	17.7	36.3	13.00	16.5	40.4	—	—	—
Sales workers, parts .....	8.91	10.0	35.4	9.37	9.9	39.8	—	—	—
Sales workers, other commodities .....	14.08	6.4	40.0	14.22	6.4	40.5	—	—	—
Sales counter clerks .....	9.14	5.6	29.1	10.79	7.7	39.6	6.83	1.5	21.2
Cashiers .....	8.01	7.2	27.3	9.40	4.0	40.6	6.08	6.3	18.8
Demonstrators, promoters, and models, sales ..	6.95	1.8	25.3	7.65	3.7	38.5	6.44	1.4	20.2
Sales support, n.e.c. ....	9.30	9.1	19.7	—	—	—	6.88	6.4	14.2
Administrative support, including clerical .....	11.51	5.5	38.9	11.76	5.6	40.0	7.59	6.2	26.9
Supervisors, general office .....	11.45	1.2	36.8	11.77	1.2	39.5	8.59	2.5	22.9
Supervisors, computer equipment operators .....	15.32	4.9	39.8	15.40	5.0	39.8	—	—	—
Supervisors, financial records processing .....	20.45	11.0	39.8	20.45	11.0	39.8	—	—	—
Supervisors, distribution, scheduling, and adjusting clerks .....	17.85	7.2	39.6	17.85	7.2	39.6	—	—	—
Computer operators .....	16.66	5.6	40.7	16.68	5.6	40.8	—	—	—
Secretaries .....	13.51	4.9	39.8	13.51	4.9	39.8	—	—	—
Stenographers .....	12.79	2.0	37.7	12.89	2.0	39.3	11.29	8.2	23.9
Typists .....	11.27	4.0	32.6	11.93	5.3	39.3	9.97	3.4	24.5
Interviewers .....	11.47	4.4	36.4	12.08	4.2	38.8	8.45	4.3	27.8
Hotel clerks .....	9.52	2.7	32.9	9.95	1.7	39.8	8.17	5.0	21.2
Transportation ticket and reservation agents .....	7.93	2.7	33.4	8.39	4.0	39.6	—	—	—
Receptionists .....	12.78	8.4	34.3	13.37	8.8	40.0	10.25	8.0	21.3
Information clerks, n.e.c. ....	8.93	2.8	34.3	9.11	2.9	39.9	8.17	5.6	21.5
Correspondence clerks .....	12.03	10.1	36.2	12.35	10.0	38.8	8.08	4.1	19.5
Order clerks .....	13.61	6.4	39.2	13.63	6.4	39.6	—	—	—
Personnel clerks, except payroll and timekeeping .....	11.06	2.4	38.0	11.26	2.6	39.9	8.48	6.7	24.0
Library clerks .....	12.20	4.7	36.8	12.24	4.9	39.5	11.52	3.2	18.0
File clerks .....	10.13	8.1	30.5	11.45	6.8	39.2	7.19	4.0	20.4
Records clerks, n.e.c. ....	8.90	3.6	33.3	9.20	3.9	39.2	7.50	3.6	19.5
Bookkeepers, accounting and auditing clerks ...	10.82	2.5	36.9	10.95	2.6	39.4	9.45	7.0	22.3
Payroll and timekeeping clerks .....	11.04	2.8	37.2	11.40	2.1	39.2	7.09	7.6	23.7
Billing clerks .....	12.90	4.1	37.8	13.19	4.2	39.8	7.88	4.4	20.2
Cost and rate clerks .....	11.21	4.6	37.8	11.45	4.6	39.6	8.63	2.8	25.7
Billing, posting, and calculating machine operators .....	11.04	7.3	35.1	11.14	7.7	39.1	—	—	—
Duplicating machine operators .....	8.30	8.9	35.5	8.27	10.8	39.5	—	—	—
Mail preparing and paper handling machine operators .....	11.52	10.4	38.2	11.60	10.5	38.7	—	—	—
operators .....	8.62	3.4	33.4	8.71	3.9	38.9	—	—	—

See footnotes at end of table.

Table 4. Selected occupations, East North Central, private industry: Mean hourly earnings<sup>1</sup> for full-time and part-time workers,<sup>2</sup> National Compensation Survey,<sup>3</sup> 1997—Continued

Occupation <sup>4</sup>	Total			Full time			Part time		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)	
<b>White collar</b> —Continued									
<b>Administrative support, including clerical</b> —Continued									
Office machine operators, n.e.c. ....	\$8.78	5.1	39.5	\$9.05	6.6	39.2	—	—	—
Telephone operators .....	12.34	4.6	34.5	13.02	9.5	38.9	\$8.31	3.7	20.7
Mail clerks, except postal service .....	8.27	5.5	34.8	8.54	6.7	38.9	7.24	6.6	24.5
Messengers .....	9.39	10.9	38.7	9.81	11.7	39.2	—	—	—
Dispatchers .....	10.90	7.8	39.3	10.95	7.7	40.7	—	—	—
Production coordinators .....	15.07	3.1	39.8	15.12	3.1	39.9	—	—	—
Traffic, shipping and receiving clerks .....	11.43	6.4	39.4	11.45	6.6	40.0	—	—	—
Stock and inventory clerks .....	10.55	4.0	33.9	11.30	2.7	40.0	6.86	3.5	19.4
Meter readers .....	13.86	5.8	38.9	14.03	5.5	40.0	—	—	—
Weighers, measurers, checkers, and samplers .....	16.22	7.9	39.5	16.31	7.9	40.0	—	—	—
Expeditors .....	12.55	3.0	38.7	12.69	6.2	40.0	—	—	—
Material recording, scheduling, and distribution clerks, n.e.c. ....	13.37	8.2	39.1	13.55	8.2	40.1	8.42	10.8	22.1
Insurance adjusters, examiners, and investigators .....	14.23	7.0	38.2	14.08	6.3	38.6	—	—	—
Investigators and adjusters, except insurance ...	11.12	3.3	38.0	11.31	3.3	39.7	8.70	5.1	24.3
Eligibility clerks, social welfare .....	10.68	4.1	34.8	10.79	4.5	40.0	—	—	—
Bill and account collectors .....	10.48	3.2	38.2	10.64	3.1	40.0	7.84	5.4	22.4
General office clerks .....	10.04	2.0	35.9	10.40	2.1	39.4	7.80	3.2	22.8
Bank tellers .....	7.91	5.0	34.6	8.05	6.1	39.7	7.33	2.0	22.6
Data entry keyers .....	9.56	4.1	36.2	9.83	4.5	39.5	7.68	3.9	23.0
Statistical clerks .....	10.41	6.6	36.7	10.41	7.2	39.8	—	—	—
Teachers' aides .....	6.55	3.8	24.6	—	—	—	6.31	4.6	22.2
Administrative support, n.e.c. ....	11.51	2.6	36.2	11.71	2.8	39.5	9.98	3.7	22.2
<b>Blue collar</b> .....	13.28	1.3	38.4	13.61	1.3	40.0	7.32	3.0	21.6
<b>Precision production, craft, and repair</b> .....									
Supervisors, mechanics and repairers .....	22.88	4.1	40.6	22.88	4.1	40.6	—	—	—
Automobile mechanics .....	17.33	11.4	40.5	17.33	11.4	40.5	—	—	—
Bus, truck, and stationary engine mechanics ....	17.24	5.4	40.0	17.25	5.4	40.2	—	—	—
Aircraft engine mechanics .....	21.26	4.5	40.0	21.26	4.5	40.0	—	—	—
Automobile body and related repairers .....	21.41	8.5	40.8	21.41	8.5	40.8	—	—	—
Aircraft mechanics, except engine .....	20.74	2.2	40.0	20.74	2.2	40.0	—	—	—
Heavy equipment mechanics .....	16.24	8.5	40.0	16.24	8.5	40.0	—	—	—
Industrial machinery repairers .....	16.62	2.9	40.0	16.62	2.9	40.0	—	—	—
Machinery maintenance .....	14.24	2.1	40.0	14.25	2.1	40.1	—	—	—
Electronic repairers, communications and industrial equipment .....	14.40	5.7	40.0	14.40	5.7	40.0	—	—	—
Data processing equipment repairers .....	14.74	5.5	38.6	14.84	5.4	39.0	—	—	—
Household appliance and power tool repairers .....	—	—	—	15.77	6.5	40.0	—	—	—
Telephone installers and repairers .....	14.06	6.5	39.8	14.06	6.5	39.8	—	—	—
Heating, air conditioning, and refrigeration mechanics .....	15.32	9.3	40.0	15.32	9.3	40.0	—	—	—
Office machine repairers .....	13.30	10.2	39.7	13.30	10.2	39.7	—	—	—
Millwrights .....	18.43	8.3	40.2	18.43	8.3	40.2	—	—	—
Mechanics and repairers, n.e.c. ....	16.63	2.5	39.8	16.66	2.5	40.0	—	—	—
Supervisors, carpenters and related workers ....	23.28	5.1	40.0	23.28	5.1	40.0	—	—	—
Supervisors, electricians and power transmission installers .....	26.04	4.7	40.4	26.04	4.7	40.4	—	—	—
Supervisors, construction trades, n.e.c. ....	21.21	5.4	39.8	21.21	5.4	39.8	—	—	—
Carpenters .....	18.10	7.0	39.9	18.09	7.1	40.0	—	—	—
Electricians .....	19.46	2.8	40.2	19.48	2.8	40.2	—	—	—
Electrician apprentices .....	12.48	4.2	41.0	12.48	4.2	41.0	—	—	—
Electrical power installers and repairers .....	22.45	3.9	40.0	22.45	3.9	40.0	—	—	—
Painters, construction and maintenance .....	19.85	5.6	40.0	19.85	5.6	40.0	—	—	—
Plumbers, pipefitters and steamfitters .....	21.57	2.3	40.4	21.57	2.3	40.4	—	—	—
Concrete and terrazzo finishers .....	21.65	8.6	40.0	21.65	8.6	40.0	—	—	—
Paving, surfacing, and tamping equipment operators .....	21.79	7.8	40.6	21.79	7.8	40.6	—	—	—

See footnotes at end of table.

Table 4. Selected occupations, East North Central, private industry: Mean hourly earnings<sup>1</sup> for full-time and part-time workers,<sup>2</sup> National Compensation Survey,<sup>3</sup> 1997—Continued

Occupation <sup>4</sup>	Total			Full time			Part time		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)	
<b>Blue collar—Continued</b>									
<b>Precision production, craft, and repair—Continued</b>									
Supervisors, production .....	\$18.49	5.6	40.6	\$18.49	5.6	40.6	—	—	—
Tool and die makers .....	19.61	3.5	40.1	19.61	3.5	40.1	—	—	—
Tool and die maker apprentices .....	17.05	7.7	39.7	17.05	7.7	39.7	—	—	—
Precision assemblers, metal .....	16.59	5.5	40.5	16.59	5.5	40.5	—	—	—
Machinists .....	15.73	2.4	40.0	15.68	2.4	40.5	—	—	—
Precision grinders, filers, and tool sharpeners ...	16.90	5.9	40.2	16.90	5.9	40.2	—	—	—
Sheet metal workers .....	17.56	10.2	40.0	17.56	10.2	40.0	—	—	—
Cabinet makers and bench carpenters .....	11.47	4.2	40.0	11.47	4.2	40.0	—	—	—
Hand molders and shapers, except jewelers .....	16.80	8.1	40.1	16.80	8.1	40.1	—	—	—
Patternmakers, layout workers, and cutters .....	23.25	7.2	40.0	23.25	7.2	40.0	—	—	—
Electrical and electronic equipment assemblers	9.82	14.0	39.6	9.88	14.2	40.0	—	—	—
Miscellaneous precision workers, n.e.c. ....	15.22	4.2	40.0	15.22	4.2	40.0	—	—	—
Butchers and meat cutters .....	9.94	15.8	39.9	9.93	15.8	40.0	—	—	—
Bakers .....	8.09	5.6	33.2	8.37	6.0	39.7	—	—	—
Food batchmakers .....	12.55	11.3	40.0	12.55	11.3	40.0	—	—	—
Inspectors, testers, and graders .....	17.23	3.9	40.2	17.23	3.9	40.2	—	—	—
Power plant operators .....	21.19	5.4	40.0	21.19	5.4	40.0	—	—	—
Stationary engineers .....	20.39	5.5	39.8	20.41	5.5	40.0	—	—	—
Miscellaneous plant and system operators, n.e.c. ....	16.70	6.8	40.0	16.70	6.8	40.0	—	—	—
<b>Machine operators, assemblers, and inspectors</b> .....	12.25	1.9	39.8	12.32	1.8	40.0	\$6.61	4.3	26.9
Lathe and turning machine set-up operators .....	14.40	3.2	40.0	14.40	3.2	40.0	—	—	—
Lathe and turning machine operators .....	12.48	6.8	40.1	12.48	6.8	40.1	—	—	—
Milling and planing machine operators .....	14.73	6.6	40.0	14.73	6.6	40.0	—	—	—
Punching and stamping press operators .....	13.42	3.3	39.9	13.46	3.3	40.0	—	—	—
Rolling machine operators .....	13.58	9.1	41.3	13.58	9.1	41.3	—	—	—
Drilling and boring machine operators .....	10.27	14.7	40.0	10.27	14.7	40.0	—	—	—
Grinding, abrading, buffing, and polishing machine operators .....	11.59	4.7	39.8	11.63	4.8	40.0	—	—	—
Forging machine operators .....	12.09	3.3	40.0	12.09	3.3	40.0	—	—	—
Numerical control machine operators .....	12.14	5.2	40.0	12.14	5.2	40.0	—	—	—
Fabricating machine operators, n.e.c. ....	13.82	3.9	40.2	13.82	3.9	40.2	—	—	—
Molding and casting machine operators .....	10.11	3.6	39.9	10.12	3.6	39.9	—	—	—
Metal plating machine operators .....	11.84	8.7	41.7	11.84	8.7	41.7	—	—	—
Sawing machine operators .....	11.09	4.2	42.3	11.09	4.2	42.3	—	—	—
Printing press operators .....	13.66	7.1	39.7	13.66	7.1	39.7	—	—	—
Photoengravers and lithographers .....	15.86	7.5	37.4	16.42	6.7	39.4	—	—	—
Textile cutting machine operators .....	13.43	12.3	40.0	13.43	12.3	40.0	—	—	—
Textile sewing machine operators .....	9.49	18.2	33.6	10.40	18.0	40.0	—	—	—
Laundry and dry cleaning machine operators	6.91	3.6	37.2	6.91	4.1	39.5	6.93	6.4	25.0
Cementing and gluing machine operators .....	12.16	7.4	40.0	12.16	7.4	40.0	—	—	—
Packaging and filling machine operators .....	12.61	5.7	38.6	12.84	5.0	40.0	—	—	—
Extruding and forming machine operators .....	11.17	3.2	40.0	11.17	3.2	40.0	—	—	—
Mixing and blending machine operators .....	13.29	3.2	40.0	13.29	3.2	40.1	—	—	—
Separating, filtering, and clarifying machine operators .....	15.44	3.9	40.4	15.44	3.9	40.4	—	—	—
Compressing and compacting machine operators .....	11.07	7.0	40.0	11.07	7.0	40.0	—	—	—
Painting and paint spraying machine operators	11.87	4.2	40.2	11.87	4.2	40.2	—	—	—
Roasting and baking machine operators, food ..	13.41	10.2	38.5	13.45	10.5	40.0	—	—	—
Washing, cleaning, and pickling machine operators .....	12.76	13.7	40.0	12.76	13.7	40.0	—	—	—
Folding machine operators .....	12.42	4.4	40.0	12.42	4.4	40.0	—	—	—
Furnace, kiln, and oven operators, except food	13.31	14.2	40.0	13.31	14.2	40.0	—	—	—
Crushing and grinding machine operators .....	11.92	10.6	40.1	11.92	10.6	40.1	—	—	—
Slicing and cutting machine operators .....	13.28	4.7	39.9	13.28	4.7	40.0	—	—	—
Photographic process machine operators .....	12.47	10.9	39.5	12.57	10.9	40.0	—	—	—
Miscellaneous machine operators, n.e.c. ....	11.52	4.2	39.9	11.54	4.2	40.0	7.53	7.5	29.1
Welders and cutters .....	14.15	2.5	40.0	14.18	2.5	40.0	—	—	—
Solders and braziers .....	10.09	20.8	39.9	10.09	20.8	39.9	—	—	—

See footnotes at end of table.

Table 4. Selected occupations, East North Central, private industry: Mean hourly earnings<sup>1</sup> for full-time and part-time workers,<sup>2</sup> National Compensation Survey,<sup>3</sup> 1997—Continued

Occupation <sup>4</sup>	Total			Full time			Part time		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)	
<b>Blue collar—Continued</b>									
<b>Machine operators, assemblers, and inspectors—Continued</b>									
Assemblers .....	\$12.79	4.0	39.7	\$12.95	3.9	40.0	\$6.02	4.0	31.2
Hand cutting and trimming .....	6.88	7.0	40.0	6.88	7.0	40.0	—	—	—
Hand molding, casting, and forming .....	12.77	8.8	40.0	12.77	8.8	40.0	—	—	—
Hand painting, coating, and decorating .....	9.25	12.8	40.0	9.25	12.8	40.0	—	—	—
Miscellaneous hand working, n.e.c. ....	10.53	7.7	40.0	10.54	7.7	40.1	—	—	—
Production inspectors, checkers and examiners	11.05	4.6	39.9	11.06	4.6	40.1	—	—	—
Production testers .....	12.95	8.0	40.0	12.95	8.0	40.0	—	—	—
Graders and sorters, except agricultural .....	9.20	6.7	40.0	9.20	6.7	40.0	—	—	—
<b>Transportation and material moving</b>									
Supervisors, motor vehicle operators .....	14.12	2.0	37.2	14.63	2.0	40.6	9.11	7.9	20.4
Truck drivers .....	14.68	11.4	40.1	14.71	11.4	40.6	—	—	—
Truck drivers .....	15.67	3.1	40.4	15.83	3.1	41.4	11.46	6.4	24.9
Driver-sales workers .....	13.78	8.1	36.3	14.50	7.0	40.0	—	—	—
Bus drivers .....	10.51	12.4	21.5	10.36	21.1	40.0	10.54	14.2	19.7
Taxicab drivers and chauffeurs .....	8.05	10.2	32.5	9.55	11.7	40.0	6.02	3.8	25.9
Parking lot attendants .....	6.55	9.8	21.6	—	—	—	5.69	5.3	18.3
Motor transportation, n.e.c. ....	7.12	6.5	25.2	8.54	7.2	38.7	5.87	3.2	19.3
Railroad conductors and yardmasters .....	19.64	2.3	40.0	19.64	2.3	40.0	—	—	—
Locomotive operating .....	17.34	10.0	41.8	17.34	10.0	41.8	—	—	—
Supervisors, material moving equipment .....	18.86	8.4	41.2	18.86	8.4	41.2	—	—	—
Operating engineers .....	21.71	5.0	40.5	21.71	5.0	40.5	—	—	—
Crane and tower operators .....	14.42	4.4	40.4	14.42	4.4	40.4	—	—	—
Excavating and loading machine operators .....	17.28	7.2	40.2	17.28	7.2	40.2	—	—	—
Industrial truck and tractor equipment operators	12.46	1.9	39.7	12.50	1.9	39.9	8.25	7.7	23.4
Miscellaneous material moving equipment operators, n.e.c. ....	13.96	6.0	35.6	14.47	6.2	40.1	—	—	—
<b>Handlers, equipment cleaners, helpers, and laborers</b>									
Groundskeepers and gardeners, except farm ...	8.93	7.8	35.3	9.36	8.9	39.9	6.98	1.3	23.2
Supervisors, handlers, equipment cleaners, and laborers, n.e.c. ....	13.67	4.8	39.4	13.79	5.0	40.2	—	—	—
Helpers, mechanics and repairers .....	13.93	6.1	40.2	13.93	6.1	40.2	—	—	—
Helpers, construction trades .....	12.98	16.7	39.5	13.60	16.4	40.0	—	—	—
Construction laborers .....	15.75	5.6	39.8	15.75	5.6	39.8	—	—	—
Production helpers .....	10.85	4.6	39.2	11.02	4.4	40.0	6.84	3.8	26.3
Stock handlers and baggers .....	8.93	1.7	29.1	10.34	1.6	39.4	6.37	2.3	19.7
Machine feeders and offbearers .....	9.44	4.0	39.3	9.56	4.1	40.0	—	—	—
Freight, stock, and material handlers, n.e.c. ....	12.43	7.4	34.0	13.08	7.8	39.5	9.62	4.5	21.2
Garage and service station related .....	11.59	24.5	34.4	12.87	23.3	40.0	—	—	—
Vehicle washers and equipment cleaners .....	10.05	6.1	37.4	10.07	6.4	39.6	9.81	17.3	20.6
Hand packers and packagers .....	8.42	4.0	38.9	8.58	4.2	40.0	6.25	5.2	28.8
Laborers, except construction, n.e.c. ....	9.80	4.5	35.3	10.68	3.3	39.9	6.15	3.5	24.0
<b>Service</b>									
Protective service .....	8.18	4.3	31.6	8.30	5.6	39.7	7.73	4.2	18.3
Supervisors, guards .....	12.60	11.1	38.0	12.84	10.8	40.1	—	—	—
Guards and police, except public service .....	7.75	3.9	32.0	7.71	5.0	39.6	7.89	4.8	18.6
Protective service, n.e.c. ....	7.78	17.7	19.4	—	—	—	6.48	5.2	15.8
Food service .....	6.45	2.4	27.8	7.51	2.6	38.5	5.08	2.0	20.4
Supervisors, food preparation and service .....	10.83	2.8	38.7	11.12	2.7	40.8	7.60	2.4	24.9
Bartenders .....	6.35	7.0	26.0	7.23	10.8	36.5	5.56	7.1	20.6
Waiters and waitresses .....	3.31	6.0	25.6	3.63	10.2	37.2	3.03	3.9	20.2
Cooks .....	8.12	2.9	33.3	8.51	2.8	38.6	6.64	2.7	22.0
Food counter, fountain, and related .....	5.54	3.5	23.0	6.09	5.8	36.8	5.24	3.8	19.1
Kitchen workers, food preparation .....	7.00	3.3	28.7	7.45	3.0	38.5	6.40	3.8	21.3
Waiters/Waitresses' assistants .....	4.58	5.3	18.7	5.24	11.6	36.3	4.42	5.7	16.7
Food preparation, n.e.c. ....	6.32	2.7	27.4	7.00	3.5	38.8	5.69	1.6	21.4
Health service .....	8.00	1.1	32.7	8.07	1.2	38.5	7.73	2.0	20.8

See footnotes at end of table.

Table 4. Selected occupations, East North Central, private industry: Mean hourly earnings<sup>1</sup> for full-time and part-time workers,<sup>2</sup> National Compensation Survey,<sup>3</sup> 1997–Continued

Occupation <sup>4</sup>	Total			Full time			Part time		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)	
<b>Service –Continued</b>									
Health service –Continued									
Health aides, except nursing .....	\$8.72	2.2	33.4	\$8.81	2.4	37.7	\$8.14	6.9	18.8
Nursing aides, orderlies and attendants .....	7.73	1.2	32.5	7.76	1.2	38.8	7.64	1.9	21.2
Cleaning and building service .....	8.65	2.2	32.9	9.29	2.0	39.4	6.40	2.5	21.0
Supervisors, cleaning and building service workers .....	12.05	5.0	40.0	12.08	5.1	40.2	–	–	–
Maids and housemen .....	6.37	1.6	31.3	6.44	2.1	38.7	6.21	2.0	21.1
Janitors and cleaners .....	9.02	2.5	33.0	9.75	2.1	39.5	6.46	3.0	20.9
Personal service .....	8.73	4.4	27.2	9.78	5.6	36.6	6.58	2.1	17.8
Supervisors, personal service .....	11.69	9.6	39.3	11.70	9.7	39.7	–	–	–
Hairdressers and cosmetologists .....	9.73	11.2	36.9	10.12	11.6	39.5	–	–	–
Attendants, amusement, and recreation facilities .....	5.76	2.8	16.5	–	–	–	5.64	3.4	13.6
Ushers .....	6.22	5.8	17.0	–	–	–	6.22	5.8	17.0
Public transportation attendants .....	34.40	3.5	17.8	–	–	–	–	–	–
Baggage porters and bellhops .....	9.09	19.0	36.6	8.99	22.7	40.0	–	–	–
Welfare service aides .....	6.96	3.4	29.1	7.30	3.4	39.0	6.14	5.4	18.2
Early childhood teachers' assistants .....	6.25	5.0	25.6	6.30	6.5	39.5	6.17	3.1	15.8
Child care workers, n.e.c. ....	8.10	4.4	27.8	8.65	6.2	39.1	7.18	4.6	18.7
Service, n.e.c. ....	7.62	2.5	27.3	8.36	3.1	38.9	6.46	3.4	18.5

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

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

<sup>3</sup> In this census division, collection was conducted between October 1996 and May

1998. The average reference period was August 1997.

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

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

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

Table 5. Selected occupations, East North Central, State and local government: Mean hourly earnings<sup>1</sup> and weekly hours for full-time and part-time workers,<sup>2</sup> National Compensation Survey,<sup>3</sup> 1997

Occupation <sup>4</sup>	Total			Full time			Part time		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)	
All .....	\$18.51	1.3	35.8	\$19.02	1.4	38.5	\$11.55	2.8	18.3
All excluding sales .....	18.52	1.3	35.8	19.02	1.4	38.5	11.58	2.8	18.3
<b>White collar</b> .....	21.26	1.2	35.7	21.66	1.3	37.8	14.03	3.6	18.1
White collar excluding sales .....	21.29	1.2	35.8	21.68	1.3	37.8	14.14	3.7	18.1
<b>Professional specialty and technical</b> .....	25.66	1.4	35.0	26.08	1.5	37.0	17.53	4.0	17.1
Professional specialty .....	26.53	1.6	34.8	26.99	1.6	36.8	17.81	4.1	16.8
Engineers, architects, and surveyors .....	24.04	3.0	39.4	24.05	3.0	39.4	—	—	—
Civil engineers .....	25.72	5.6	38.6	25.72	5.6	38.6	—	—	—
Mathematical and computer scientists .....	22.32	7.3	38.7	22.42	7.3	39.1	—	—	—
Computer systems analysts and scientists .....	21.79	7.9	38.6	21.89	7.9	39.0	—	—	—
Natural scientists .....	16.22	9.7	39.1	16.27	10.0	39.5	—	—	—
Biological and life scientists .....	19.76	5.7	32.8	—	—	—	—	—	—
Health related .....	22.14	4.4	36.7	22.42	4.8	39.1	18.48	5.7	20.6
Physicians .....	37.16	13.3	42.5	37.16	13.3	42.5	—	—	—
Registered nurses .....	19.10	4.9	35.9	19.06	5.4	38.6	19.61	4.1	20.2
Dietitians .....	17.43	1.6	38.6	17.43	1.6	40.0	—	—	—
Speech therapists .....	29.58	6.3	34.0	30.69	6.7	36.9	—	—	—
Therapists, n.e.c. ....	15.17	8.3	37.1	15.36	8.9	39.1	—	—	—
Teachers, college and university .....	33.35	3.6	32.7	34.42	3.9	37.2	21.99	3.8	14.2
Biological science teachers .....	34.42	14.1	34.0	—	—	—	—	—	—
Chemistry teachers .....	31.46	8.7	28.6	—	—	—	—	—	—
Social science teachers, n.e.c. ....	30.27	9.8	38.8	30.27	9.8	38.8	—	—	—
Engineering teachers .....	50.07	19.2	40.0	50.09	19.2	40.3	—	—	—
Mathematical science teachers .....	39.18	2.1	33.3	—	—	—	—	—	—
Health specialties teachers .....	27.46	10.0	35.0	27.52	10.3	37.9	25.64	7.0	10.3
Business, commerce, and marketing teachers ..	36.72	17.5	26.6	—	—	—	—	—	—
Art, drama, and music teachers .....	27.65	11.8	38.3	—	—	—	—	—	—
Education teachers .....	37.96	6.3	37.6	37.96	6.3	37.6	—	—	—
English teachers .....	32.48	9.5	37.4	32.62	9.5	38.7	—	—	—
Teachers, post secondary, subject not specified	30.46	12.9	23.1	—	—	—	22.73	12.5	11.2
Teachers, post secondary, n.e.c. ....	29.40	6.4	26.3	31.61	7.4	32.9	22.51	3.5	16.2
Teachers, except college and university .....	28.28	1.8	33.9	28.85	1.9	35.8	16.88	7.3	16.5
Prekindergarten and kindergarten .....	29.78	6.7	32.9	30.03	7.0	34.7	—	—	—
Elementary school teachers .....	29.17	2.3	35.0	29.30	2.3	35.6	23.87	13.1	21.0
Secondary school teachers .....	29.78	2.9	36.1	29.84	3.0	36.4	22.93	17.9	17.4
Teachers, special education .....	28.15	4.9	36.0	28.39	4.9	36.1	—	—	—
Teachers, n.e.c. ....	28.78	4.8	30.8	29.86	4.8	35.0	17.79	7.8	13.8
Substitute teachers .....	10.09	7.4	19.4	—	—	—	10.23	5.0	15.2
Vocational and educational counselors .....	20.69	9.3	36.5	21.15	9.9	38.5	—	—	—
Librarians, archivists, and curators .....	20.90	9.3	35.6	21.32	9.8	38.5	16.22	9.8	19.5
Librarians .....	22.10	8.8	35.7	22.68	8.9	38.8	15.82	11.7	19.4
Social scientists and urban planners .....	22.81	13.4	39.1	22.81	13.4	39.1	—	—	—
Psychologists .....	31.44	11.0	38.2	31.44	11.0	38.2	—	—	—
Urban planners .....	19.28	2.4	39.9	19.28	2.4	39.9	—	—	—
Social, recreation, and religious workers .....	17.07	4.0	38.0	17.19	4.1	38.8	12.41	10.0	22.0
Social workers .....	17.49	4.1	38.3	17.52	4.1	38.8	—	—	—
Recreation workers .....	11.78	11.2	35.2	12.07	12.6	38.6	10.42	14.2	24.8
Lawyers and judges .....	27.23	5.5	35.7	27.38	6.1	39.0	25.66	8.0	18.7
Lawyers .....	27.65	6.0	36.1	27.88	6.7	38.9	25.22	8.8	20.6
Writers, authors, entertainers, athletes, and professionals, n.e.c. ....	24.82	6.6	36.2	25.63	8.6	39.7	11.78	19.9	14.9
Public relations specialists .....	20.60	12.2	39.0	20.93	12.3	39.6	—	—	—
Athletes .....	28.54	9.8	35.0	—	—	—	—	—	—
Professional, n.e.c. ....	26.11	19.9	36.1	—	—	—	—	—	—
<b>Technical</b> .....	15.52	4.6	37.8	15.60	4.8	39.1	13.42	5.0	21.2
Clinical laboratory technologists and technicians .....	10.10	6.5	38.9	10.06	6.5	40.0	—	—	—
Radiological technicians .....	14.30	5.2	32.5	14.54	5.9	39.6	—	—	—
Licensed practical nurses .....	12.43	3.3	36.8	12.24	3.8	39.9	13.68	5.9	24.5
Health technologists and technicians, n.e.c. ....	14.87	11.1	37.7	15.04	11.3	40.4	—	—	—
Electrical and electronic technicians .....	13.57	2.1	38.9	13.59	2.2	39.5	—	—	—
Engineering technicians, n.e.c. ....	19.18	7.4	37.4	19.31	7.2	37.9	—	—	—
Surveying and mapping technicians .....	14.71	13.0	38.3	14.71	13.0	38.3	—	—	—

See footnotes at end of table.

Table 5. Selected occupations, East North Central, State and local government: Mean hourly earnings<sup>1</sup> and weekly hours for full-time and part-time workers,<sup>2</sup> National Compensation Survey,<sup>3</sup> 1997–Continued

Occupation <sup>4</sup>	Total			Full time			Part time		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)	
<b>White collar –Continued</b>									
<b>Professional specialty and technical –Continued</b>									
Technical –Continued									
Computer programmers .....	\$20.09	9.6	38.0	\$20.18	10.4	39.7	–	–	–
Technical and related, n.e.c. ....	16.36	9.7	38.3	16.43	9.9	38.8	\$12.50	5.4	21.9
<b>Executive, administrative, and managerial</b>									
Executives, administrators, and managers .....	24.47	1.8	37.9	24.50	1.9	39.4	22.93	17.5	12.1
Legislators .....	28.15	2.1	37.2	28.26	2.0	39.5	23.33	22.1	10.6
Administrators and officials, public	23.18	33.2	5.5	–	–	–	23.27	36.6	5.0
administration .....	25.33	3.8	38.6	25.38	3.6	39.7	–	–	–
Financial managers .....	23.74	3.8	39.9	23.74	3.8	39.9	–	–	–
Administrators, education and related fields .....	33.20	3.4	38.7	33.19	3.4	39.1	–	–	–
Managers, medicine and health .....	31.47	20.0	39.2	31.47	20.0	39.2	–	–	–
Managers, service organizations, n.e.c. ....	17.78	8.9	36.2	18.16	9.0	39.5	–	–	–
Managers and administrators, n.e.c. ....	27.20	6.4	40.0	27.22	6.4	40.0	–	–	–
Management related .....	18.57	2.5	39.0	18.53	2.6	39.3	–	–	–
Accountants and auditors .....	20.01	5.8	38.9	20.01	5.8	38.9	–	–	–
Other financial officers .....	20.15	5.9	39.9	20.15	5.9	39.9	–	–	–
Personnel, training, and labor relations	18.40	6.4	38.8	18.45	6.5	39.5	–	–	–
specialists .....	18.44	7.7	39.3	18.47	7.9	39.5	–	–	–
Construction inspectors .....	16.13	4.1	39.2	16.13	4.1	39.2	–	–	–
Inspectors and compliance officers, except	19.69	5.1	38.6	19.66	5.2	38.8	–	–	–
construction .....									
Management related, n.e.c. ....									
<b>Sales</b> .....	12.58	9.9	28.6	14.25	11.2	40.0	7.74	14.9	15.6
Cashiers .....	11.26	11.6	26.6	12.59	13.5	40.0	8.07	16.1	14.8
<b>Administrative support, including clerical</b>									
Supervisors, general office .....	11.61	1.6	36.3	11.83	1.7	38.4	8.80	2.4	21.1
Supervisors, distribution, scheduling, and	15.59	2.7	39.4	15.60	2.7	39.4	–	–	–
adjusting clerks .....	15.12	5.1	37.7	15.12	5.1	37.7	–	–	–
Computer operators .....	14.70	8.7	39.0	14.71	8.7	39.1	–	–	–
Secretaries .....	11.80	1.7	37.8	11.84	1.8	39.0	10.51	8.9	20.3
Stenographers .....	14.42	3.2	36.4	14.42	3.2	36.4	–	–	–
Typists .....	10.22	4.3	36.9	10.34	4.8	39.7	–	–	–
Interviewers .....	11.90	10.3	33.7	12.30	9.9	40.0	–	–	–
Receptionists .....	11.99	8.2	31.0	13.01	5.9	38.3	7.03	3.2	16.1
Personnel clerks, except payroll and	13.59	11.5	39.0	13.59	11.5	39.0	–	–	–
timekeeping .....	9.32	4.4	28.0	9.85	6.6	37.8	7.92	6.9	16.7
Library clerks .....	12.23	8.5	38.3	12.29	8.5	38.7	–	–	–
Records clerks, n.e.c. ....	11.94	2.3	38.4	12.06	2.4	39.1	9.04	2.8	27.9
Bookkeepers, accounting and auditing clerks ...	15.92	5.2	38.5	15.92	5.2	38.5	–	–	–
Payroll and timekeeping clerks .....	11.58	4.4	38.6	11.60	4.5	39.2	–	–	–
Billing clerks .....	10.88	8.1	36.9	11.41	9.4	40.0	7.76	7.4	25.3
Dispatchers .....	12.22	3.5	38.1	12.28	3.6	38.3	–	–	–
Stock and inventory clerks .....	13.81	4.6	34.9	14.12	4.8	40.0	–	–	–
Investigators and adjusters, except insurance ...	13.60	5.5	38.4	14.13	4.6	40.0	–	–	–
Eligibility clerks, social welfare .....	11.43	2.3	37.5	11.58	2.3	38.9	8.64	7.1	22.4
General office clerks .....	10.84	4.1	38.4	10.84	4.1	38.4	–	–	–
Data entry keyers .....	9.41	3.5	31.5	9.50	4.1	34.6	8.95	3.2	21.8
Teachers' aides .....	11.31	6.8	35.8	11.61	7.3	38.5	8.43	8.4	21.4
Administrative support, n.e.c. ....									
<b>Blue collar</b> .....	14.46	1.3	36.4	14.85	1.4	39.3	10.86	3.0	21.9
<b>Precision production, craft, and repair</b>									
Supervisors, mechanics and repairers .....	16.39	1.8	39.4	16.42	1.8	39.7	–	–	–
Automobile mechanics .....	18.09	8.8	39.9	18.09	8.8	39.9	–	–	–
Bus, truck, and stationary engine mechanics ....	15.70	3.2	40.0	15.70	3.2	40.0	–	–	–
Heavy equipment mechanics .....	16.23	3.6	40.0	16.23	3.6	40.0	–	–	–
Mechanical controls and valve repairers .....	14.59	10.2	40.0	14.59	10.2	40.0	–	–	–
	14.57	7.6	35.8	15.11	7.1	39.4	–	–	–

See footnotes at end of table.

Table 5. Selected occupations, East North Central, State and local government: Mean hourly earnings<sup>1</sup> and weekly hours for full-time and part-time workers,<sup>2</sup> National Compensation Survey,<sup>3</sup> 1997–Continued

Occupation <sup>4</sup>	Total			Full time			Part time		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)	
<b>Blue collar –Continued</b>									
<b>Precision production, craft, and repair –Continued</b>									
Mechanics and repairers, n.e.c. ....	\$15.36	3.8	40.0	\$15.36	3.8	40.0	–	–	–
Supervisors, construction trades, n.e.c. ....	17.94	4.3	39.6	17.94	4.3	39.6	–	–	–
Carpenters .....	18.02	14.5	40.0	18.02	14.5	40.0	–	–	–
Electricians .....	18.67	7.9	39.8	18.67	7.9	39.8	–	–	–
Painters, construction and maintenance .....	16.69	6.2	39.9	16.69	6.2	39.9	–	–	–
Plumbers, pipefitters and steamfitters .....	17.85	6.5	39.7	17.85	6.5	39.7	–	–	–
Construction trades, n.e.c. ....	14.42	7.4	39.2	14.43	7.4	39.3	–	–	–
Water and sewer treatment plant operators .....	15.31	2.8	40.0	15.31	2.8	40.0	–	–	–
Stationary engineers .....	18.83	8.5	39.1	18.83	8.5	39.1	–	–	–
<b>Machine operators, assemblers, and inspectors .....</b>									
Laundrying and dry cleaning machine operators	8.91	5.7	40.0	8.91	5.7	40.0	–	–	–
<b>Transportation and material moving .....</b>									
Supervisors, motor vehicle operators .....	13.70	2.2	32.0	14.23	2.3	38.1	\$11.98	3.1	21.0
Truck drivers .....	19.10	8.2	39.5	19.10	8.2	39.5	–	–	–
Bus drivers .....	13.19	4.0	38.5	13.32	4.1	40.0	–	–	–
Operating engineers .....	13.30	2.5	27.7	14.20	2.4	35.8	12.07	3.2	21.1
Miscellaneous material moving equipment operators, n.e.c. ....	16.12	9.4	40.0	16.12	9.4	40.0	–	–	–
.....	14.88	8.8	40.0	14.88	8.8	40.0	–	–	–
<b>Handlers, equipment cleaners, helpers, and laborers .....</b>									
Groundskeepers and gardeners, except farm ...	12.25	3.3	37.8	12.78	3.9	39.6	6.95	5.0	26.1
Helpers, mechanics and repairers .....	11.74	5.3	35.8	12.97	4.2	39.4	6.45	4.2	25.8
Construction laborers .....	13.88	7.1	33.9	14.80	4.4	40.0	–	–	–
Garbage collectors .....	13.53	6.6	40.0	13.53	6.6	40.0	–	–	–
Laborers, except construction, n.e.c. ....	11.97	17.1	39.3	–	–	–	–	–	–
.....	10.46	4.9	38.8	10.68	5.1	40.0	6.85	6.5	26.6
<b>Service .....</b>									
Protective service .....	13.40	2.4	35.6	13.92	2.6	40.1	8.29	2.3	17.1
Supervisors, firefighters and fire prevention .....	16.91	1.9	39.1	17.21	1.9	41.7	8.92	4.8	14.2
Supervisors, police and detectives .....	17.29	4.1	50.7	17.29	4.1	51.0	–	–	–
Supervisors, guards .....	23.75	5.8	40.0	23.75	5.8	40.0	–	–	–
Firefighting .....	16.51	13.1	37.0	16.51	13.1	37.0	–	–	–
Police and detectives, public service .....	15.49	3.6	44.6	15.71	3.4	50.3	8.82	7.4	10.2
Sheriffs, bailiffs, and other law enforcement officers .....	19.31	2.5	39.3	19.37	2.4	39.8	–	–	–
Correctional institution officers .....	14.41	3.9	39.6	14.44	3.9	39.8	–	–	–
Crossing guards .....	13.63	4.1	38.5	13.73	4.1	39.2	–	–	–
Guards and police, except public service .....	6.88	11.4	13.2	–	–	–	6.88	11.4	13.2
Protective service, n.e.c. ....	13.77	5.8	31.3	13.89	6.5	38.5	13.14	11.8	15.9
Food service .....	11.01	14.1	29.4	12.22	15.7	39.2	7.28	6.7	16.6
Supervisors, food preparation and service .....	8.94	2.9	29.0	9.10	3.9	35.7	8.44	3.5	18.1
Cooks .....	10.27	7.1	33.9	10.31	7.5	34.9	–	–	–
Food counter, fountain, and related .....	9.57	2.3	32.5	9.50	2.5	35.4	9.96	5.1	21.5
Kitchen workers, food preparation .....	6.34	7.6	11.3	–	–	–	6.34	7.6	11.3
Food preparation, n.e.c. ....	6.94	3.8	34.4	–	–	–	–	–	–
Health service .....	8.46	4.0	24.0	8.77	6.2	35.7	8.10	3.9	17.3
Health aides, except nursing .....	10.32	6.1	36.2	10.36	6.5	38.6	9.77	6.3	18.8
Nursing aides, orderlies and attendants .....	11.78	1.3	35.9	11.84	1.5	38.8	11.10	3.3	20.2
Cleaning and building service .....	9.49	8.7	36.4	9.55	9.2	38.6	8.48	7.0	17.7
Supervisors, cleaning and building service workers .....	10.96	2.2	38.2	11.08	2.3	39.6	8.95	8.4	23.7
Maids and housemen .....	14.07	8.6	40.2	14.07	8.6	40.2	–	–	–
Janitors and cleaners .....	7.97	4.6	33.6	–	–	–	–	–	–
Personal service .....	10.80	2.2	38.1	10.92	2.3	39.6	8.96	8.5	23.9
Attendants, amusement, and recreation facilities .....	9.29	4.8	26.2	10.20	5.9	37.5	7.45	3.1	16.3
Welfare service aides .....	6.35	2.2	24.5	–	–	–	6.59	2.2	22.3
.....	8.16	22.0	32.7	8.17	22.6	37.8	–	–	–

See footnotes at end of table.

Table 5. Selected occupations, East North Central, State and local government: Mean hourly earnings<sup>1</sup> and weekly hours for full-time and part-time workers,<sup>2</sup> National Compensation Survey,<sup>3</sup> 1997—Continued

Occupation <sup>4</sup>	Total			Full time			Part time		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)	
<b>Service —Continued</b>									
<b>Personal service —Continued</b>									
Early childhood teachers' assistants .....	\$8.90	3.5	30.4	\$9.08	4.5	36.0	\$8.44	5.0	21.7
Child care workers, n.e.c. ....	9.22	5.7	21.6	10.62	6.9	38.9	7.41	4.6	13.7
Service, n.e.c. ....	10.72	6.4	26.3	11.40	5.9	37.4	7.18	7.4	10.3

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

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

<sup>3</sup> In this census division, collection was conducted between October 1996 and May

1998. The average reference period was August 1997.

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

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

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

Table 6. Occupational groups<sup>1</sup> and levels,<sup>2</sup> East North Central: Mean hourly earnings<sup>3</sup> and weekly hours, private industry and State and local government, National Compensation Survey,<sup>4</sup> 1997

Occupational group and level	Total			Private industry			State and local government		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)	
All .....	\$15.45	0.9	36.2	\$14.85	1.0	36.3	\$18.51	1.3	35.8
All excluding sales .....	15.52	.8	36.5	14.89	.9	36.6	18.52	1.3	35.8
<b>White collar</b> .....	18.92	1.1	36.4	18.28	1.4	36.5	21.26	1.2	35.7
1 .....	6.62	1.4	26.1	6.61	1.4	26.3	6.84	3.2	23.4
2 .....	8.37	1.5	30.0	8.32	1.6	29.8	8.72	3.1	31.4
3 .....	9.19	1.0	34.1	9.04	1.3	34.0	10.21	1.5	34.8
4 .....	11.02	1.2	37.0	10.95	1.3	36.9	11.31	3.6	37.6
5 .....	13.00	1.9	36.9	13.08	2.1	37.3	12.62	2.9	35.1
6 .....	14.81	1.7	37.7	14.53	1.4	38.1	15.75	5.1	36.5
7 .....	17.57	1.1	37.6	16.90	1.1	37.9	19.52	2.3	36.7
8 .....	20.07	1.7	36.7	18.66	1.7	37.2	24.40	3.5	35.1
9 .....	23.90	.8	37.0	21.75	1.1	37.9	27.43	1.5	35.5
10 .....	26.17	2.1	38.9	26.48	2.4	39.3	24.30	3.2	36.6
11 .....	30.35	1.4	38.7	30.59	1.6	39.0	29.08	2.1	37.0
12 .....	34.32	1.1	40.2	34.61	1.2	40.5	32.87	2.5	38.7
13 .....	47.36	5.5	39.9	50.17	6.8	40.3	39.29	4.2	38.9
14 .....	51.15	3.5	41.3	51.30	3.8	41.8	49.32	8.8	36.3
15 .....	66.28	7.2	41.3	67.82	7.5	41.8	—	—	—
Not able to be leveled .....	27.14	4.4	35.8	27.09	5.0	36.9	27.37	9.2	31.6
White collar excluding sales .....	19.49	1.0	37.0	18.92	1.3	37.4	21.29	1.2	35.8
1 .....	7.26	1.8	29.5	7.32	2.0	30.5	6.92	3.3	24.9
2 .....	8.64	1.7	32.2	8.65	1.9	32.4	8.59	2.9	31.3
3 .....	9.57	1.0	35.7	9.46	1.2	35.9	10.18	1.4	34.8
4 .....	11.13	1.1	37.6	11.07	1.1	37.6	11.31	3.6	37.6
5 .....	12.72	1.4	36.6	12.74	1.5	37.1	12.62	2.9	35.0
6 .....	14.82	1.7	37.6	14.51	1.3	38.0	15.75	5.1	36.5
7 .....	17.40	1.1	37.4	16.59	.9	37.6	19.52	2.3	36.7
8 .....	19.90	1.7	36.4	18.25	1.2	36.8	24.41	3.5	35.1
9 .....	23.87	.8	36.9	21.61	1.1	37.9	27.44	1.5	35.5
10 .....	25.43	1.9	38.8	25.64	2.1	39.2	24.30	3.2	36.6
11 .....	30.09	1.3	38.5	30.29	1.6	38.8	29.08	2.1	37.0
12 .....	34.08	1.1	40.2	34.33	1.2	40.5	32.87	2.5	38.7
13 .....	45.00	2.4	39.9	47.06	3.0	40.3	39.29	4.2	38.9
14 .....	51.18	3.5	41.3	51.34	3.8	41.8	49.32	8.8	36.3
15 .....	66.28	7.2	41.3	67.82	7.5	41.8	—	—	—
Not able to be leveled .....	27.99	4.5	35.6	28.15	5.1	36.8	27.37	9.2	31.6
<b>Professional specialty and technical</b> .....	22.99	1.0	35.8	21.66	1.4	36.2	25.66	1.4	35.0
Professional specialty .....	24.61	1.1	35.7	23.37	1.5	36.3	26.53	1.6	34.8
4 .....	9.69	8.5	24.2	10.87	12.6	22.7	8.04	6.2	26.7
5 .....	11.60	5.1	32.2	11.14	4.9	33.6	12.00	8.3	31.0
6 .....	16.37	5.9	34.2	13.47	3.8	35.0	20.55	9.9	33.1
7 .....	19.05	1.9	35.5	16.94	1.6	35.6	21.97	3.9	35.2
8 .....	21.90	2.5	33.7	18.90	1.8	33.5	26.41	4.0	33.9
9 .....	24.83	1.0	35.5	21.08	1.6	36.2	28.41	1.5	34.9
10 .....	24.14	2.6	37.8	24.27	3.1	38.3	23.54	6.5	35.7
11 .....	28.68	1.2	38.0	28.92	1.4	38.5	27.67	3.3	36.0
12 .....	34.22	2.0	39.9	34.44	2.3	40.3	33.26	3.4	38.1
13 .....	40.85	4.9	38.9	43.15	7.4	39.0	38.15	5.4	38.8
14 .....	51.28	8.3	40.3	50.38	9.6	41.5	58.44	9.6	32.8
15 .....	59.07	8.3	42.6	64.09	8.3	45.7	—	—	—
Not able to be leveled .....	26.66	5.7	35.8	25.44	5.9	35.7	30.48	12.8	36.4
Engineers, architects, and surveyors .....	27.10	1.5	40.3	27.25	1.5	40.4	24.04	3.0	39.4
5 .....	17.99	2.9	40.0	17.99	2.9	40.0	—	—	—
6 .....	18.51	2.9	40.0	18.51	2.9	40.0	—	—	—
7 .....	19.54	4.0	39.9	19.63	4.0	40.0	—	—	—
8 .....	20.66	2.5	40.1	20.38	2.2	40.1	—	—	—
9 .....	23.04	1.9	40.3	23.07	1.9	40.3	22.43	6.9	39.6
10 .....	25.96	2.5	40.3	25.79	2.4	40.3	—	—	—
11 .....	28.90	2.0	40.3	29.35	2.0	40.4	24.57	3.1	39.4
12 .....	31.97	2.9	40.9	32.02	2.9	40.9	—	—	—
13 .....	37.43	4.4	40.0	37.43	4.4	40.0	—	—	—
Not able to be leveled .....	29.63	10.2	40.6	29.63	10.2	40.6	—	—	—
Mathematical and computer scientists .....	27.55	3.1	39.7	27.84	3.1	39.8	22.32	7.3	38.7

See footnotes at end of table.

Table 6. Occupational groups<sup>1</sup> and levels,<sup>2</sup> East North Central: Mean hourly earnings<sup>3</sup> and weekly hours, private industry and State and local government, National Compensation Survey,<sup>4</sup> 1997–Continued

Occupational group and level	Total			Private industry			State and local government		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)	
<b>White collar –Continued</b>									
<b>Professional specialty and technical –Continued</b>									
Professional specialty –Continued									
Mathematical and computer scientists –Continued									
6 .....	\$17.17	5.1	38.2	\$17.50	4.9	38.8	–	–	–
7 .....	18.93	3.8	39.5	18.63	3.9	39.5	–	–	–
8 .....	21.15	8.5	39.8	21.84	10.1	40.4	–	–	–
9 .....	25.02	1.9	39.4	25.09	1.9	39.4	–	–	–
10 .....	26.35	4.0	41.3	26.35	4.1	41.4	–	–	–
11 .....	31.06	4.5	39.8	31.26	4.5	39.7	–	–	–
12 .....	35.80	5.5	40.0	35.85	5.7	40.0	–	–	–
Not able to be leveled .....	32.11	16.6	39.9	32.11	16.6	39.9	–	–	–
Natural scientists .....	23.33	8.0	38.9	25.49	9.4	38.9	\$16.22	9.7	39.1
6 .....	13.82	5.1	40.0	–	–	–	–	–	–
7 .....	17.10	4.4	39.7	16.99	4.5	39.7	–	–	–
8 .....	20.47	14.7	40.2	23.47	10.2	41.3	–	–	–
9 .....	21.72	3.6	39.8	22.74	3.8	39.7	20.46	3.5	40.0
11 .....	29.37	3.3	40.0	29.54	3.3	40.0	–	–	–
12 .....	36.57	6.4	39.3	36.57	6.4	39.3	–	–	–
13 .....	25.24	25.8	38.6	–	–	–	–	–	–
Health related .....	21.51	1.4	32.9	21.39	1.3	32.2	22.14	4.4	36.7
5 .....	12.25	3.5	29.1	12.73	6.8	26.2	–	–	–
6 .....	16.84	3.4	31.4	17.28	2.9	30.3	14.75	4.4	37.7
7 .....	17.47	3.7	32.5	17.85	2.4	31.4	15.88	9.5	38.1
8 .....	18.99	1.4	31.6	18.82	1.2	31.1	20.17	5.7	35.1
9 .....	19.89	2.2	33.6	19.30	2.2	33.0	23.34	4.1	36.9
10 .....	22.43	6.4	36.6	23.77	5.9	35.5	18.14	14.0	40.9
11 .....	24.96	4.5	32.2	25.11	4.7	32.7	22.89	4.4	26.7
12 .....	51.11	9.5	37.0	51.11	9.5	37.0	–	–	–
13 .....	52.70	12.6	35.0	69.09	9.8	27.6	–	–	–
Not able to be leveled .....	26.27	12.3	35.9	26.82	12.9	35.5	–	–	–
Teachers, college and university .....	32.76	3.4	33.8	31.57	6.3	36.5	33.35	3.6	32.7
7 .....	17.57	6.8	28.6	–	–	–	15.29	5.2	26.5
8 .....	29.71	11.9	17.5	–	–	–	29.64	12.4	16.4
9 .....	26.24	9.0	24.2	23.01	6.6	22.6	26.78	10.6	24.5
10 .....	21.03	7.3	30.4	19.72	4.4	32.1	33.52	5.5	20.2
11 .....	27.12	4.4	34.8	24.64	4.2	35.1	28.93	5.7	34.6
12 .....	33.89	3.7	38.1	33.00	6.2	38.9	34.24	4.0	37.8
13 .....	38.08	1.7	41.0	41.10	4.1	45.6	36.97	1.5	39.5
14 .....	54.19	6.4	38.8	49.46	2.2	48.2	58.77	9.8	32.7
Not able to be leveled .....	34.23	25.3	36.9	–	–	–	–	–	–
Teachers, except college and university .....	26.71	1.6	33.6	15.36	3.5	31.4	28.28	1.8	33.9
4 .....	7.86	8.3	20.6	–	–	–	8.62	15.8	23.6
5 .....	10.50	17.0	27.5	7.60	9.5	30.8	13.25	17.8	24.9
6 .....	21.10	11.1	30.0	11.31	5.3	29.9	24.98	12.1	30.1
7 .....	23.36	4.6	34.6	17.13	9.9	35.5	24.31	5.4	34.4
8 .....	29.66	4.4	32.7	15.86	2.3	29.7	31.26	4.3	33.1
9 .....	28.99	1.6	35.0	20.20	2.7	34.7	29.64	1.7	35.0
10 .....	34.32	11.4	38.1	22.53	9.8	32.6	–	–	–
11 .....	30.09	9.1	36.2	–	–	–	32.35	8.2	34.9
Librarians, archivists, and curators .....	19.51	7.0	34.6	17.08	4.6	33.0	20.90	9.3	35.6
5 .....	11.19	1.0	34.7	11.05	2.5	36.6	–	–	–
6 .....	12.18	6.4	34.8	–	–	–	12.92	4.7	34.3
7 .....	14.34	4.1	36.3	–	–	–	14.80	4.6	35.2
8 .....	19.30	14.8	35.9	–	–	–	20.26	16.2	35.4
9 .....	20.81	6.2	30.8	18.87	6.0	26.1	22.16	8.6	35.3
10 .....	18.10	5.4	38.1	–	–	–	18.64	8.5	35.0
11 .....	25.72	12.5	37.8	–	–	–	28.17	8.6	37.8
Social scientists and urban planners .....	21.45	7.5	37.7	19.91	4.8	36.3	22.81	13.4	39.1
7 .....	17.79	7.7	39.5	–	–	–	–	–	–
8 .....	18.32	4.3	39.9	16.00	4.9	39.8	–	–	–
9 .....	23.70	8.9	38.0	19.26	10.2	37.2	26.88	10.2	38.6
10 .....	20.02	5.1	38.8	19.75	6.0	38.5	–	–	–

See footnotes at end of table.

Table 6. Occupational groups<sup>1</sup> and levels,<sup>2</sup> East North Central: Mean hourly earnings<sup>3</sup> and weekly hours, private industry and State and local government, National Compensation Survey,<sup>4</sup> 1997–Continued

Occupational group and level	Total			Private industry			State and local government		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)	
<b>White collar –Continued</b>									
<b>Professional specialty and technical –Continued</b>									
Professional specialty –Continued									
Social scientists and urban planners –Continued									
11 .....	\$32.82	9.9	33.2	–	–	–	–	–	–
Social, religious, and recreation workers .....	14.91	2.6	37.8	\$13.09	1.8	37.6	\$17.07	4.0	38.0
4 .....	7.53	4.1	32.2	–	–	–	–	–	–
5 .....	11.38	3.7	38.1	10.10	9.7	37.9	11.64	3.9	38.2
6 .....	12.56	8.4	38.6	9.93	4.8	38.9	15.69	5.1	38.2
7 .....	13.56	1.9	37.5	12.90	2.3	37.5	15.23	2.2	37.6
8 .....	15.66	4.2	38.1	13.22	5.5	37.8	16.89	3.4	38.2
9 .....	16.43	3.3	38.2	15.20	4.0	37.4	18.77	4.7	39.8
10 .....	18.81	11.3	36.2	15.53	10.8	35.9	24.56	9.7	36.7
11 .....	24.86	16.2	36.0	16.11	5.5	37.4	34.19	10.6	34.6
Lawyers and judges .....	37.29	13.8	38.0	46.90	16.6	40.6	27.23	5.5	35.7
10 .....	29.84	13.5	33.4	–	–	–	–	–	–
11 .....	26.32	10.2	38.6	–	–	–	22.55	5.3	37.3
12 .....	30.77	5.0	40.0	31.10	6.7	41.1	30.06	6.5	37.7
13 .....	57.32	16.7	36.3	65.50	20.4	38.6	–	–	–
Writers, authors, entertainers, athletes, and professionals, n.e.c. ....	20.45	4.8	38.4	19.84	5.3	38.8	24.82	6.6	36.2
5 .....	13.04	8.4	38.0	13.08	8.6	38.0	–	–	–
6 .....	12.97	10.8	39.0	13.02	11.2	39.2	–	–	–
7 .....	17.66	4.6	39.5	17.18	3.3	39.5	22.13	23.7	40.0
8 .....	17.93	2.2	39.6	18.25	1.4	39.7	–	–	–
9 .....	20.61	4.4	38.3	20.73	4.6	39.3	–	–	–
10 .....	25.38	12.7	40.5	27.52	14.1	40.6	–	–	–
11 .....	26.24	4.6	39.7	26.75	4.1	39.6	–	–	–
12 .....	28.91	7.1	42.6	28.91	7.1	42.6	–	–	–
Not able to be leveled .....	23.31	7.9	35.6	21.06	11.5	35.5	28.85	7.6	35.8
Technical .....	17.28	2.0	36.1	17.51	2.2	35.9	15.52	4.6	37.8
2 .....	8.74	12.0	38.6	8.75	12.3	38.9	–	–	–
3 .....	9.52	3.9	30.7	9.56	4.2	30.2	–	–	–
4 .....	11.51	2.3	36.0	11.39	2.5	35.9	12.86	4.9	36.7
5 .....	12.56	2.3	34.4	12.78	2.5	34.0	11.25	3.8	36.8
6 .....	14.67	1.8	36.6	14.93	1.9	36.5	12.26	10.2	37.6
7 .....	16.95	2.1	36.6	17.04	2.4	36.3	16.36	2.7	38.6
8 .....	19.96	1.9	38.1	20.08	2.2	38.0	18.83	4.4	38.7
9 .....	22.33	2.6	38.9	22.66	3.1	39.1	21.11	1.6	38.5
10 .....	29.00	11.8	38.2	29.76	13.0	38.5	–	–	–
11 .....	48.28	15.0	32.8	48.28	15.0	32.8	–	–	–
Not able to be leveled .....	15.81	12.0	30.6	15.72	13.5	29.7	–	–	–
<b>Executive, administrative, and managerial .....</b>	26.88	1.1	39.9	27.33	1.3	40.3	24.47	1.8	37.9
5 .....	13.39	2.7	38.5	13.47	2.9	39.0	12.91	8.2	36.0
6 .....	15.02	2.7	39.7	15.05	3.0	40.1	14.90	5.1	37.6
7 .....	16.11	1.4	40.2	16.22	1.8	40.4	15.78	2.1	39.5
8 .....	17.06	1.7	40.1	16.81	1.8	40.2	18.56	3.7	39.7
9 .....	22.17	1.3	39.9	22.18	1.5	40.1	22.13	2.3	39.0
10 .....	26.36	2.2	39.8	26.53	2.4	40.1	25.29	3.3	37.7
11 .....	29.96	1.2	39.8	29.77	1.3	40.1	30.86	2.3	38.3
12 .....	33.88	1.5	40.5	34.12	1.5	40.7	32.61	4.5	39.2
13 .....	47.24	2.2	41.3	47.77	2.5	41.5	43.04	7.2	39.5
14 .....	51.13	3.3	41.7	51.77	3.6	41.9	41.96	3.9	39.8
15 .....	68.68	8.9	40.9	68.66	9.0	41.0	–	–	–
Not able to be leveled .....	37.41	6.3	35.5	40.48	6.4	39.3	26.07	11.5	26.1
Executives, administrators, and managers .....	30.75	1.5	40.2	31.29	1.8	40.9	28.15	2.1	37.2
5 .....	11.90	7.0	35.5	12.08	10.4	37.5	–	–	–
6 .....	14.17	5.3	41.3	14.36	5.8	41.5	–	–	–
7 .....	15.44	2.5	42.0	15.15	3.6	43.0	16.05	3.2	39.9
8 .....	18.50	3.0	40.3	18.42	3.2	40.4	19.21	5.7	39.5
9 .....	22.14	1.8	40.2	21.94	2.2	40.5	23.11	3.3	38.7
10 .....	27.06	2.8	40.1	27.12	3.0	40.2	26.36	5.4	38.2

See footnotes at end of table.

Table 6. Occupational groups<sup>1</sup> and levels,<sup>2</sup> East North Central: Mean hourly earnings<sup>3</sup> and weekly hours, private industry and State and local government, National Compensation Survey,<sup>4</sup> 1997–Continued

Occupational group and level	Total			Private industry			State and local government		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)	
<b>White collar</b> –Continued									
<b>Executive, administrative, and managerial</b>									
–Continued									
Executives, administrators, and managers									
–Continued									
11 .....	\$29.74	1.5	40.0	\$29.25	1.7	40.6	\$31.54	2.2	38.2
12 .....	34.24	1.5	40.7	34.61	1.6	41.0	32.64	4.5	39.2
13 .....	46.42	2.5	41.8	46.95	2.9	42.1	43.04	7.2	39.5
14 .....	51.74	3.5	41.9	52.50	3.7	42.1	41.96	3.9	39.8
15 .....	70.53	9.1	41.0	70.53	9.3	41.0	–	–	–
Not able to be leveled .....	41.05	8.4	33.4	44.80	9.4	39.6	29.53	7.4	22.6
Management related .....	21.53	1.1	39.5	22.03	1.2	39.6	18.57	2.5	39.0
5 .....	13.66	2.8	39.2	13.66	3.0	39.3	13.64	9.6	38.5
6 .....	15.24	3.1	39.3	15.22	3.5	39.7	15.32	5.1	37.1
7 .....	16.41	1.8	39.4	16.62	1.7	39.5	15.58	5.0	39.2
8 .....	16.28	7.8	40.0	15.86	8.6	40.0	18.34	8.3	39.7
9 .....	22.21	1.4	39.6	22.46	1.6	39.6	20.68	2.3	39.4
10 .....	24.76	2.4	39.2	24.82	3.0	39.8	24.61	3.6	37.5
11 .....	30.48	7.2	39.3	30.83	7.2	39.3	–	–	–
12 .....	31.60	2.6	39.3	31.63	2.6	39.2	–	–	–
14 .....	44.46	8.4	40.0	44.46	8.4	40.0	–	–	–
Not able to be leveled .....	31.94	16.9	39.1	34.63	13.5	38.9	–	–	–
<b>Sales</b> .....	14.15	6.0	31.9	14.16	6.0	31.9	12.58	9.9	28.6
1 .....	6.18	1.4	24.1	6.18	1.4	24.3	5.86	6.0	13.3
2 .....	7.52	4.2	24.7	7.43	4.1	24.6	–	–	–
3 .....	7.39	2.3	28.0	7.31	2.4	27.9	11.50	13.9	33.7
4 .....	10.40	4.9	34.2	10.40	4.9	34.2	–	–	–
5 .....	14.79	8.6	38.6	14.79	8.6	38.6	–	–	–
6 .....	14.73	5.6	39.5	14.73	5.6	39.5	–	–	–
7 .....	20.13	5.9	41.2	20.13	5.9	41.2	–	–	–
8 .....	22.07	7.4	40.8	22.10	7.4	40.8	–	–	–
9 .....	25.00	4.6	40.1	25.14	4.6	40.1	–	–	–
10 .....	33.12	9.8	40.2	33.12	9.8	40.2	–	–	–
11 .....	34.25	7.3	40.7	34.25	7.3	40.7	–	–	–
12 .....	42.25	6.8	40.3	42.25	6.8	40.3	–	–	–
Not able to be leveled .....	14.15	10.5	37.7	14.15	10.5	37.7	–	–	–
<b>Administrative support, including clerical</b> .....	11.48	1.0	36.7	11.45	1.2	36.8	11.61	1.6	36.3
1 .....	7.26	1.8	29.5	7.32	2.0	30.5	6.92	3.3	24.9
2 .....	8.64	1.7	32.3	8.65	1.9	32.5	8.59	2.9	31.3
3 .....	9.58	1.0	35.8	9.47	1.2	36.0	10.20	1.4	34.8
4 .....	11.11	1.2	38.0	11.05	1.2	38.0	11.33	3.7	37.9
5 .....	12.91	1.8	38.2	12.83	2.0	38.4	13.32	2.4	37.3
6 .....	14.05	1.2	39.2	14.46	1.6	39.4	12.92	1.7	38.9
7 .....	16.10	1.1	39.2	16.11	1.3	39.2	16.08	1.5	39.0
8 .....	17.87	3.1	40.1	18.17	3.4	40.1	16.19	5.7	40.0
9 .....	20.85	7.2	38.7	20.93	7.7	38.6	–	–	–
10 .....	22.37	4.7	39.4	22.37	4.7	39.4	–	–	–
11 .....	34.11	13.2	37.6	34.11	13.2	37.6	–	–	–
Not able to be leveled .....	12.41	5.6	36.7	12.44	5.9	36.9	12.10	9.3	34.6
<b>Blue collar</b> .....	13.35	1.1	38.3	13.28	1.3	38.4	14.46	1.3	36.4
1 .....	7.90	2.0	33.2	7.87	2.0	33.2	9.01	6.4	34.8
2 .....	9.72	2.9	37.3	9.60	3.0	37.4	12.07	4.3	35.1
3 .....	12.99	2.6	38.6	13.03	2.7	38.9	11.96	2.7	32.0
4 .....	12.98	1.5	39.7	12.96	1.6	39.9	13.59	2.2	33.8
5 .....	13.97	1.6	39.4	13.92	1.8	39.7	14.50	2.3	37.0
6 .....	15.92	2.0	40.9	15.96	2.1	40.9	15.30	2.4	39.7
7 .....	19.11	.9	39.9	19.30	1.0	40.0	17.52	1.9	39.6
8 .....	21.36	1.9	40.6	21.41	2.0	40.6	20.01	7.6	39.6
9 .....	22.64	3.6	40.1	22.63	3.7	40.1	23.09	5.8	40.1
10 .....	33.73	15.2	43.2	33.73	15.2	43.2	–	–	–

See footnotes at end of table.

Table 6. Occupational groups<sup>1</sup> and levels,<sup>2</sup> East North Central: Mean hourly earnings<sup>3</sup> and weekly hours, private industry and State and local government, National Compensation Survey,<sup>4</sup> 1997–Continued

Occupational group and level	Total			Private industry			State and local government		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)	
<b>Blue collar –Continued</b>									
Not able to be leveled .....	\$13.77	9.3	38.7	\$13.83	10.2	38.6	–	–	–
<b>Precision production, craft, and repair .....</b>	17.20	1.2	39.9	17.28	1.3	39.9	\$16.39	1.8	39.4
1 .....	8.19	15.4	39.2	8.19	15.4	39.2	–	–	–
2 .....	8.42	9.5	38.2	8.41	9.5	38.2	–	–	–
3 .....	11.17	3.5	39.3	11.00	3.7	39.2	–	–	–
4 .....	13.19	5.3	39.9	13.25	5.5	40.0	12.03	14.1	39.1
5 .....	14.14	2.0	39.8	14.05	2.0	40.0	14.72	5.3	38.7
6 .....	16.18	3.3	39.9	16.22	3.6	40.0	15.72	3.4	39.7
7 .....	19.28	.9	39.9	19.50	1.0	40.0	17.44	2.1	39.6
8 .....	21.40	2.1	40.6	21.45	2.2	40.6	19.99	7.8	39.6
9 .....	22.67	3.8	40.2	22.66	3.9	40.2	23.07	7.7	40.1
10 .....	33.73	15.2	43.2	33.73	15.2	43.2	–	–	–
Not able to be leveled .....	16.08	10.4	40.0	16.50	14.3	40.0	–	–	–
<b>Machine operators, assemblers, and inspectors .....</b>	12.25	1.9	39.8	12.25	1.9	39.8	11.90	7.8	39.5
1 .....	7.80	3.6	38.3	7.79	3.6	38.3	–	–	–
2 .....	9.42	2.8	39.7	9.42	2.8	39.7	–	–	–
3 .....	13.42	3.2	39.9	13.43	3.2	39.9	–	–	–
4 .....	12.73	1.9	40.0	12.73	1.9	40.0	–	–	–
5 .....	13.00	1.9	40.0	13.00	1.9	40.0	–	–	–
6 .....	15.15	3.4	40.0	15.16	3.4	40.0	–	–	–
7 .....	17.05	2.7	39.9	17.11	2.7	39.9	–	–	–
8 .....	19.35	7.4	40.0	19.35	7.4	40.0	–	–	–
Not able to be leveled .....	11.29	21.9	38.3	11.29	21.9	38.3	–	–	–
<b>Transportation and material moving .....</b>	14.06	1.8	36.4	14.12	2.0	37.2	13.70	2.2	32.0
1 .....	7.34	3.6	26.7	7.31	3.6	26.5	–	–	–
2 .....	11.47	4.1	33.1	10.83	5.9	33.1	14.01	4.5	33.1
3 .....	12.89	2.0	34.5	13.08	2.4	35.8	11.92	2.6	29.5
4 .....	13.97	2.4	38.5	13.96	3.9	39.8	14.06	3.7	29.9
5 .....	16.04	3.8	37.4	16.49	4.4	38.2	14.24	4.8	34.4
6 .....	17.77	3.5	48.3	17.89	3.6	48.6	–	–	–
7 .....	20.99	5.7	40.4	21.17	6.5	40.5	19.83	2.9	40.0
9 .....	25.15	9.2	40.0	25.15	9.2	40.0	–	–	–
<b>Handlers, equipment cleaners, helpers, and laborers .....</b>	10.40	2.0	34.7	10.27	2.2	34.5	12.25	3.3	37.8
1 .....	7.97	2.1	31.0	7.94	2.2	30.9	8.99	7.2	34.3
2 .....	9.69	3.6	35.8	9.71	3.9	35.6	9.37	7.7	38.3
3 .....	12.00	5.1	37.6	11.99	5.3	37.5	12.23	5.1	38.5
4 .....	12.57	3.2	39.2	12.45	3.5	39.2	13.66	2.7	39.4
5 .....	14.34	4.4	39.4	14.32	5.0	39.4	14.55	4.7	39.0
6 .....	13.87	4.7	39.9	13.75	9.3	40.0	14.31	1.9	39.4
7 .....	17.40	2.2	38.9	17.14	3.5	38.2	17.78	2.8	40.0
Not able to be leveled .....	12.82	10.0	37.6	12.82	10.0	37.6	–	–	–
<b>Service .....</b>	9.26	1.3	31.3	7.63	1.2	29.8	13.40	2.4	35.6
1 .....	6.52	1.8	26.1	6.25	1.8	26.2	8.60	4.7	25.1
2 .....	7.10	2.1	30.0	6.65	2.1	29.5	9.32	5.0	32.9
3 .....	8.07	1.7	32.2	7.54	1.8	31.7	10.12	2.5	34.4
4 .....	9.71	2.0	34.3	9.21	2.8	33.6	10.95	2.1	35.9
5 .....	12.22	2.7	34.6	11.88	4.4	33.9	12.77	1.9	35.9
6 .....	14.33	2.6	39.8	13.13	3.7	37.9	14.90	3.2	40.8
7 .....	16.00	3.1	38.8	13.77	6.5	33.0	16.63	3.1	40.8
8 .....	19.61	2.2	40.3	15.30	11.7	40.6	19.93	2.1	40.3
9 .....	21.09	3.4	42.2	–	–	–	21.37	3.2	42.2
10 .....	23.80	11.8	42.4	–	–	–	23.80	11.8	42.4
Not able to be leveled .....	10.75	7.6	33.6	9.61	4.4	34.4	15.44	16.5	30.8
<b>Protective service .....</b>	14.51	2.8	36.7	8.18	4.3	31.6	16.91	1.9	39.1
1 .....	7.25	10.9	25.1	7.58	14.0	32.3	5.92	4.7	13.3
2 .....	6.83	3.7	31.2	6.67	3.7	32.6	8.46	10.5	21.9
3 .....	8.32	8.4	32.6	7.08	5.3	32.0	12.30	6.7	34.7

See footnotes at end of table.

Table 6. Occupational groups<sup>1</sup> and levels,<sup>2</sup> East North Central: Mean hourly earnings<sup>3</sup> and weekly hours, private industry and State and local government, National Compensation Survey,<sup>4</sup> 1997–Continued

Occupational group and level	Total			Private industry			State and local government		
	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours	Hourly earnings		Mean weekly hours
	Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)		Mean	Relative error <sup>5</sup> (percent)	
<b>Service –Continued</b>									
Protective service –Continued									
4 .....	\$9.69	7.7	34.1	\$8.92	12.8	34.0	\$10.64	4.6	34.3
5 .....	12.46	3.6	34.4	10.02	5.9	27.9	13.17	3.2	36.8
6 .....	15.37	3.4	40.5	16.17	5.6	33.9	15.32	3.7	41.0
7 .....	16.61	3.1	39.2	16.59	5.4	18.9	16.62	3.3	40.8
8 .....	20.05	2.1	40.4	–	–	–	20.05	2.1	40.4
9 .....	21.40	3.1	42.1	–	–	–	21.37	3.2	42.2
10 .....	23.80	11.8	42.4	–	–	–	23.80	11.8	42.4
Not able to be leveled .....	13.75	11.6	35.1	–	–	–	–	–	–
Food service .....									
1 .....	6.64	2.1	27.9	6.45	2.4	27.8	8.94	2.9	29.0
2 .....	5.48	1.5	23.5	5.32	1.5	23.5	8.27	4.1	23.9
3 .....	5.51	3.1	27.8	5.39	3.4	27.8	7.68	6.4	28.7
4 .....	6.87	4.6	30.1	6.56	5.5	30.2	9.12	2.3	29.5
5 .....	8.81	3.5	35.0	8.69	4.2	34.9	9.60	4.1	36.1
6 .....	9.66	5.7	36.3	9.59	6.3	36.7	10.49	6.1	32.1
7 .....	12.71	6.4	40.6	12.71	6.7	40.8	–	–	–
8 .....	12.92	4.2	40.4	12.88	4.2	40.4	–	–	–
9 .....	14.78	6.1	36.6	15.41	8.3	40.0	–	–	–
Health service .....									
1 .....	8.38	1.4	33.3	8.00	1.1	32.7	10.32	6.1	36.2
2 .....	7.10	2.2	30.8	7.01	2.5	29.8	–	–	–
3 .....	7.43	2.5	33.9	7.46	2.4	33.8	7.25	9.5	35.0
4 .....	8.04	1.5	32.9	7.89	1.3	32.5	9.53	6.0	36.6
5 .....	9.43	3.7	33.0	8.88	2.0	32.7	11.59	3.4	34.6
6 .....	12.04	2.5	36.2	10.71	3.5	35.5	12.75	2.0	36.5
7 .....	12.19	2.9	34.8	13.17	9.0	24.5	–	–	–
8 .....	8.74	3.4	37.6	8.74	3.4	37.6	–	–	–
Cleaning and building service .....									
1 .....	9.35	1.7	34.4	8.65	2.2	32.9	10.96	2.2	38.2
2 .....	7.57	2.3	31.8	7.28	2.7	31.2	10.22	6.2	38.4
3 .....	9.71	3.3	33.7	9.21	5.0	31.8	10.47	2.2	37.0
4 .....	10.00	2.8	37.6	9.26	2.9	36.7	10.58	4.9	38.4
5 .....	11.21	2.3	39.1	9.57	3.2	38.7	12.02	2.2	39.3
6 .....	12.65	4.5	39.9	12.55	5.1	39.8	13.07	3.5	40.0
7 .....	13.17	3.4	40.0	12.85	3.8	40.0	–	–	–
8 .....	17.76	3.9	40.0	17.09	4.6	40.0	18.81	3.7	40.0
Personal service .....									
1 .....	8.87	3.3	26.9	8.73	4.4	27.2	9.29	4.8	26.2
2 .....	6.70	7.3	20.4	6.01	1.9	20.9	7.67	12.9	19.9
3 .....	7.00	3.6	25.9	6.41	4.8	25.4	8.89	7.1	27.8
4 .....	7.76	2.5	29.2	7.57	3.0	29.7	8.56	4.8	27.6
5 .....	10.55	7.5	32.4	10.77	9.4	31.6	10.00	8.4	34.6
6 .....	14.84	12.0	28.4	15.82	15.5	27.8	11.76	6.8	30.3
7 .....	12.17	5.0	38.8	11.71	4.8	38.4	–	–	–
8 .....	13.64	16.2	33.2	13.23	17.6	32.3	–	–	–
9 .....	14.90	14.5	39.2	–	–	–	–	–	–
10 .....	8.65	10.9	25.0	–	–	–	–	–	–

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

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

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

weighted by hours.

<sup>4</sup> In this census division, collection was conducted between October 1996 and May 1998. The average reference period was August 1997.

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

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

## Technical Note

The data in this report 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 3,255 establishments with 50 or more workers,<sup>1</sup> representing 61,600 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. The sampling frame was reviewed prior to the survey and, when necessary, missing establishments were added, out-of-business and out-of-scope establishments were removed, and addresses, employment levels, industry classification, and other information were updated.

**Sample design and data collection.** The sample for this survey was selected using a three stage design. The first stage consists of the selection of areas. The nationwide NCS sample includes 149 metropolitan and nonmetropolitan areas that represent the Nation's 326 metropolitan statistical areas (as defined by the Office of Management and Budget) and the remaining portions of the 48 contiguous 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.

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

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 is drawn by first stratifying the sampling frame by industry and ownership. The number of sample establishments allocated to each stratum is approximately proportional to the stratum employment. Each sampled establishment is selected within a stratum with a probability proportional to its employment. Use of this technique means that the larger an establishment's employment, the greater its chance of selection. Weights are applied to each establishment when the data are tabulated so the establishment represents similar units (by industry and employment size) in the economy that are not selected for collection.

The third stage of sample selection is a probability sample of occupations within a sampled establishment. In the East North Central region, collection was conducted between October 1996 and May 1998 with an average reference period of August 1997. The combined average payroll reference month for all surveys that contributed to the national estimates is August 1997. Additional information about the area sample and method of estimation is available in the BLS pub-

lication, *National Compensation Survey: Occupational Wages in the United States*, 1997, Bulletin 2519.

**Occupational selection and classification.** Identification of the occupations for which wage data are collected is 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 v. part time, union v. nonunion, and time v. incentive
4. Determination of the level of work of each job

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

In step one, the jobs to be sampled are selected at each establishment by the BLS field economist during a personal visit. A complete list of employees is used for sampling, with each selected worker representing a job within the establishment. As with the selection of establishments, the selection of a job is 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 entails 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 overlap two or more census classification codes, the duties used to set the wage level are used to classify the job. Classification by primary duties is the fallback.

In step three, certain other job characteristics of the chosen workers are identified. First, the worker is identified as holding either a full- or part-time job, based on the establishment's definition of those terms. Then the worker is classified as having a time versus incentive job, depending on whether any part of pay is directly based on the actual production of the workers, rather than solely on hours worked. Finally, the worker is identified as being in a union job or a nonunion job.

The fourth step in the job classification procedure is 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 using the criteria for leveling a job, see appendixes C and D at

[www.bls.gov/compub.htm](http://www.bls.gov/compub.htm) or any of our published NCS bulletins. This web site also has a link to the NCS job descriptions.

**Data reliability.** The data in this summary 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 report provide RSE data for indicated series.

The 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 is \$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 ( $\$15.09 \times 1.645 \times 0.006 = \$0.149$ , round 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 conducted in all survey areas will be used to develop a formal quality assessment process to help compute nonsampling error. Although they also are not specifically measured, efforts are made to minimize nonsampling errors by the extensive training of field economists who gather survey data, edit the data by computer, and provide a detailed review of the data.

**Census area divisions.** Census divisions providing data are 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.<sup>2</sup> Some census divisions include Consolidated Metropolitan Statistical Areas (CMSAs) and Metropolitan Statistical Areas (MSAs) that cross State lines.

Additional information about the National Compensation Survey, including a list of occupational classifications, is available by calling (202) 691-6199. You may also write to the

<sup>2</sup> Although Alaska and Hawaii are included in the Pacific Census Division, the 1997 NCS excluded these States.

Bureau of Labor Statistics at: Division of Compensation Data Analysis and Planning, 2 Massachusetts Ave., NE, Room 4175, Washington, DC 20212-0001, or send e-mail to **OCLTINFO@bls.gov**.

The data contained in this summary are also available on the Internet through the BLS site **<http://stats.bls.gov/comhome.htm>**. Data are in three formats: An ASCII file containing the published table formats; an ASCII file containing positional columns of data for manipulation as a data base or spreadsheet; and a Portable Document Format (PDF) containing the entire summary.

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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, 1997

Industry division	Number of establishments represented <sup>1</sup>	Number of establishments studied						
		Total	50 - 99 workers	100 - 499 workers	500 - 999 workers	1000 - 2,499 workers	2,500 - 4,999 workers	5,000 or more workers
<b>All</b> .....	61,600	3,255	851	1,425	438	341	138	62
<b>Private Industry</b> .....	56,100	2,764	801	1,233	325	263	111	31
Goods-producing industries .....	18,200	950	216	434	127	100	59	14
Mining .....	100	20	12	8	-	-	-	-
Construction .....	2,100	83	46	36	1	-	-	-
Manufacturing .....	16,000	847	158	390	126	100	59	14
Durable goods .....	11,900	631	115	278	93	81	53	11
Fabricated metal products, except machinery and transportation equipment .....	1,900	107	21	55	11	15	5	-
Industrial and commercial machinery and computer equipment .....	2,900	137	36	65	21	9	6	-
Electronic and electrical equipment .....	1,300	60	9	26	14	7	3	1
Transportation equipment .....	1,000	128	10	30	18	30	33	7
Measuring, analyzing, and controlling instruments .....	500	34	4	17	6	7	-	-
Nondurable goods .....	4,100	216	43	112	33	19	6	3
Food and kindred products .....	800	51	14	23	10	4	-	-
Printing, publishing, and allied industries .....	1,100	59	12	29	10	5	3	-
Chemicals and allied products .....	800	41	9	17	6	6	1	2
Service-producing industries .....	38,000	1,814	585	799	198	163	52	17
Transportation and utilities .....	3,500	170	47	70	27	19	3	4
Wholesale trade .....	3,300	105	40	53	8	4	-	-
Retail trade .....	13,200	445	206	181	33	19	5	1
Finance, insurance and real estate .....	2,700	158	38	55	33	15	10	7
Depository institutions .....	1,200	58	15	19	12	3	5	4
Insurance carriers .....	600	58	7	22	14	8	4	3
Services .....	15,300	936	254	440	97	106	34	5
Business services .....	3,600	182	50	91	24	16	1	-
Educational services .....	900	153	61	68	14	8	2	-
Health services .....	4,500	385	56	173	47	75	29	5
Hospitals .....	700	187	3	40	36	74	29	5
Engineering, accounting, research, management, and related services .....	900	44	18	17	4	3	2	-
<b>State and local government</b> .....	5,400	491	50	192	113	78	27	31
Health services .....	200	42	6	13	12	5	3	3
Hospitals .....	100	24	1	4	9	4	3	3

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

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

Table B. **Number of workers<sup>1</sup> represented by the survey, by occupational group,<sup>2</sup> East North Central, National Compensation Survey,<sup>3</sup> 1997**

Occupational group	All industries	Private industry	State and local government
<b>All</b> .....	12,243,100	9,982,000	2,261,100
All excluding sales .....	11,544,700	9,290,900	2,253,800
<b>White collar</b> .....	5,950,100	4,478,300	1,471,900
White collar excluding sales .....	5,251,700	3,787,100	1,464,600
Professional specialty and technical .....	2,292,500	1,403,600	888,800
Professional specialty occupations .....	1,835,300	999,600	835,700
Technical occupations .....	457,200	404,100	53,100
Executive, administrative, and managerial .....	1,020,100	843,500	176,700
Sales .....	698,400	691,100	7,300
Administrative support, including clerical .....	1,939,100	1,540,000	399,100
<b>Blue collar</b> .....	4,266,100	4,014,800	251,300
Precision production, craft, and repair .....	1,032,300	941,300	91,000
Machine operators, assemblers, and inspectors .....	1,746,700	1,742,200	4,600
Transportation and material moving .....	532,100	435,000	97,100
Handlers, equipment cleaners, helpers, and laborers .....	955,000	896,300	58,700
<b>Service</b> .....	2,026,900	1,489,000	537,900

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

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

<sup>3</sup> In this census division, collection was conducted between October 1996 and May 1998. The average reference period was August 1997.