Knoxville, TN National Compensation Survey February 1999



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

Bureau of Labor Statistics Katharine G. Abraham, Commissioner

September 1999

Bulletin 3095-69

Preface

Data shown in this bulletin were collected as part of the Bureau of Labor Statistics' (BLS) National Compensation Survey (NCS). The survey could not have been conducted without the cooperation of the many private firms and government jurisdictions that provided pay data included in this bulletin. The Bureau thanks these respondents for their cooperation.

Field economists of the Bureau of Labor Statistics collected and reviewed the survey data. The Office of Compensation and Working Conditions, in cooperation with the Office of Field Operations and the Office of Technology and Survey Processing in the BLS National Office, designed the survey, processed the data, and prepared the survey for publication.

For additional information regarding this survey, please contact any BLS regional office at the address and telephone number listed on the inside back cover of this bulletin. You may also write to the Bureau of Labor Statistics at: Division of Compensation Data Analysis and Planning,

2 Massachusetts Avenue, NE, Room 4175, Washington, DC 20212-0001, or call (202) 606-6199, or send e-mail to ocltinfo@bls.gov.

The data contained in this bulletin are also available at http://stats.bls.gov/comhome.htm, the BLS Internet site. 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) file containing the entire bulletin.

Results of earlier surveys of this area are also available from BLS regional offices, the Division of Compensation Data Analysis, or at the BLS Internet site.

Material in this bulletin is in the public domain and, with appropriate credit, may be reproduced without permission. This information will be made available to sensory impaired individuals upon request. Voice phone: (202) 606-7828; Federal Relay Service: 1-800-877-8339.

Contents

	Page
Introduction	1
Tables:	
A-1. Hourly earnings for selected occupations, all workers, all industries	2
A-2. Hourly earnings for selected occupations, all workers, private industry and	~
State and local government	5
all industries	8
A-4. Weekly and annual earnings and hours for selected occupations,	O
full-time workers only, all industries	11
B-1. Mean hourly earnings by occupational group and levels, all industries,	12
private industry, State and local government, full-time and part-time workers	13
private industry, State and local government, full-time and part-time workers	16
r	
C-1. Mean hourly earnings by occupational group and selected characteristics,	
all industries	19
C-2. Mean hourly earnings by occupational group and industry division,	
private industry, all workers	20
C-3. Mean hourly earnings by occupational group and establishment employment size,	
private industry, all workers	21
C-4. Number of workers represented by occupational group	22
Appendixes:	
A. Technical Note	A-1
Table 1. Number of establishments studied and represented	A-5
Table 2. Relative standard errors	A-6
Table 3. Average work levels	A-9
B. Occupational Classifications	B-1
C. Generic Leveling Criteria	C-1
D. Evaluating Your Firm's Jobs	D-1
F. A Guide for Users of Prior RLS Wage Surveys	E-1

Introduction

The tables in this bulletin summarize the NCS survey results for the Knoxville, TN, metropolitan area. Tabulations provide information on earnings of workers in a variety of occupations and at a wide range of work levels. Also contained in this bulletin are information on the program, a technical note describing survey procedures, and several appendixes with detailed information on occupational classifications and the generic leveling methodology.

NCS products

The National Compensation Survey of the Bureau of Labor Statistics provides data on the occupational wages and employee benefits for localities, broad geographic regions, and the Nation as a whole. The Employment Cost Index, a quarterly measure of the change in employer costs for wages and benefits, will be derived from the NCS. Another product, Employer Costs for Employee Compensation, measures employers' average hourly costs for total compensation, that is, wages and benefits. Still another NCS product measures the incidence of benefit plans and their provisions. This bulletin is limited to data on occupational wages and salaries.

About the tables

The tables that follow present data on straight-time occupational earnings. Straight-time earnings include wages and salaries, incentive pay, cost-of-living adjustments, and hazard pay. These earnings exclude premium pay for overtime, vacations, holidays, nonproduction bonuses, and tips. A total of 480 detailed occupations are used to describe all occupations in the civilian nonfarm economy (excluding the Federal Government and private households).

Table A-1 presents straight-time earnings for detailed occupations. Data are not shown for any occupations if they would raise concerns about the confidentiality of the survey respondent or if the data are insufficient to support reliable estimates. The earnings shown include the mean for each occupation, as well as earnings for selected percentiles in each occupation.

Table A-2 compares the type of data and details shown in table A-1 for the private industry and State and local government sector.

Table A-3 compares the type of data and details shown in table A-1 for full-time and part-time workers. The definitions of full-time and part-time workers are those used in the surveyed establishments.

Table A-4 presents the weekly and annual straight-time earnings for full-time employees in specific occupations across all industries. For the weekly and annual earnings, the mean and median earnings and the mean hours are shown. The mean hours reflect hours employees are scheduled to work, excluding overtime hours.

Table B-1 presents mean straight-time hourly earnings for groups of occupations and for levels of job requirements related to occupations in the group. Separate data are also shown for private industry and government workers, and for full-time and part-time workers in all industries. (See appendix C, Generic Leveling Criteria, for more information on job ranking in this survey. Average work levels for published occupation groups and their component occupations are presented in appendix table 3.)

Table B-2 also presents mean straight-time hourly earnings, but for detailed occupations at several levels of job requirements for each detailed occupation.

Table C-1 presents mean straight-time hourly earnings for occupation groups and selected occupation characteristics. The occupation characteristics include full-time and part-time status, union and nonunion status, and time or incentive pay status. Union workers' wages are determined through collective bargaining. Time workers' wages are based solely on hourly rate or salary. Incentive workers' wages are at least partially based on productivity payments such as piece rates, commissions and production bonuses.

Table C-2 presents mean straight-time hourly earnings for occupation groups and industry division of employers; these are limited to the private sector.

Table C-3 presents mean straight-time hourly earnings for occupation groups and the employment size of employers; these are also limited to the private sector.

Table C-4 presents the employment scope of this survey. The occupation employment estimates shown relate to all employers in the area surveyed, not just the surveyed employers.

Table A-1. Hourly earnings $^{\rm 1}$ for selected occupations, all workers $^{\rm 2}$, all industries, Knoxville, TN, February 1999

			All in	dustries		
Occupation ³				Percentil	es	
·	Mean	10	25	Median 50	75	90
Il occupations	\$13.39	\$6.35	\$8.00	\$11.25	\$16.55	\$23.8
All occupations excluding sales	13.52	6.56	8.24	11.50	16.61	24.0
White-collar occupations	16.51	7.34	9.42	14.42	21.55	28.4
White-collar occupations excluding sales	17.42	8.07	10.50	15.62	22.56	29.1
				l		
Professional specialty and technical occupations	20.41	11.65	14.78	19.47	25.19	29.8
Professional specialty occupations		13.58	17.32	21.44	26.43	31.2
Engineers, architects, and surveyors		16.20	20.73	26.56	32.25	36.7
Civil engineers	27.70	17.56	22.50	26.94	35.00	36.5
Industrial engineers		13.46	15.91	20.59	24.02	26.7
Engineers, N.E.C.	28.62	16.63	24.04 17.33	28.59	33.81	37.5
Mathematical and computer scientists	23.44	15.88		21.95	25.75	34.2 36.9
Computer systems analysts and scientists Natural scientists	23.14 24.58	17.05 17.50	17.33 20.19	18.75 22.55	28.85 30.03	34.4
Health related occupations	19.91	14.02	16.04	18.67	23.14	26.9
Registered nurses		13.23	14.50	17.00	18.82	20.9
Teachers, college and university	10.37	13.23	-	17.00	10.02	20.3
Teachers, except college and university	22.68	14.86	19.32	23.19	27.12	30.3
Elementary school teachers	24.73	18.31	20.52	24.09	27.79	34.2
Secondary school teachers	23.94	18.38	20.59	24.04	26.97	29.1
Librarians, archivists, and curators	_	-	_		_	
Social scientists and urban planners	_	_	_	_	_	_
Social, recreation, and religious workers	12.95	10.05	10.91	12.58	14.76	16.7
Social workers	13.03	10.05	10.91	12.89	15.00	16.7
Lawyers and judges	-	-	_	_	-	-
Writers, authors, entertainers, athletes, and						
professionals, N.E.C.	18.69	13.61	15.00	18.39	20.87	26.3
Technical occupations	15.37	10.22	11.70	13.88	18.20	22.9
Licensed practical nurses		9.80	10.57	11.79	12.27	13.2
Health technologists and technicians, N.E.C	13.68	10.06	11.06	13.70	15.97	18.2
Electrical and electronic technicians		8.67	10.89	14.03	19.14	22.4
Engineering technicians, N.E.C	17.84	12.05	13.58	17.80	22.56	23.8
Drafters	16.35	11.65	12.76	15.25	17.25	25.9
Executive, administrative, and managerial occupations	24.35	12.78	15.86	21.61	30.49	37.4
Executives, administrators, and managers	28.14	15.86	20.12	27.43	34.52	38.5
Administrators and officials, public administration	27.39	21.61	27.38	27.64	28.62	28.6
Personnel and labor relations managers	22.29	14.38	15.30	20.93	26.49	38.5
Administrators, education and related fields	32.05	22.69	29.16	33.86	34.78	37.3
Managers and administrators, N.E.C	33.79	16.55	21.35	31.20	37.77	59.1
Management related occupations	18.09	11.87	12.63	15.96	21.08	28.7
Other financial officers	16.91	12.56	13.22	14.42	19.29	26.9
Management related occupations, N.E.C	25.78	12.30	14.38	25.73	40.62	40.6
Sales occupations	11.93	5.58	6.24	8.93	14.80	21.9
Supervisors, sales occupations	16.14	7.75	9.38	13.80	20.53	23.6
Sales occupations, other business services	20.02	9.80	14.44	16.50	20.68	37.6
Sales representatives, mining, manufacturing,	10.50	10.50	10.00	17.00	24.04	24.0
and wholesale Sales workers, motor vehicles and boats	19.52 14.57	10.50	12.29 10.00	17.06 12.01	21.94	31.2
Cashiers	6.33	5.15 5.50	5.75	6.00	20.37 6.60	23.3
Administrative support occupations, including clerical	10.23	7.00	8.00	9.35	11.75	15.2
Secretaries	10.23	7.66	8.65	9.91	12.26	13.7
Receptionists	8.08	6.63	7.00	8.25	8.65	9.3
Records clerks, N.E.C.	13.38	8.23	8.75	12.50	17.67	18.2
Bookkeepers, accounting and auditing clerks	11.08	8.00	8.20	10.50	13.18	15.8
Telephone operators	9.43	7.22	7.22	8.98	9.23	15.6
Dispatchers	10.35	(4)	(4)	(4)	(4)	(4)
Production coordinators	13.70	11.46	12.13	13.44	16.36	16.5
Traffic, shipping and receiving clerks	10.28	8.00	8.61	10.00	11.67	11.7
Stock and inventory clerks	9.44	6.59	8.50	9.75	10.50	11.7
Meter readers	14.74	7.00	15.65	16.12	16.49	16.9
Investigators and adjusters except insurance	10.65	8.68	9.63	10.71	11.25	11.7
Bill and account collectors	12.21	8.00	9.34	10.65	13.58	16.7
General office clerks	10.04	7.50	8.00	9.23	10.98	14.0
Bank tellers	8.08	6.88	7.25	7.83	8.58	10.4
	8.43	6.49	7.09	8.34	10.00	10.3

Table A-1. Hourly earnings $^{\rm 1}$ for selected occupations, all workers $^{\rm 2}$, all industries, Knoxville, TN, February 1999 — Continued

Blue-collar occupations	All in	dustries		
White-collar occupations (-Continued) Administrative support occupations, including clerical (-Continued) \$7.87 Teachers' aides \$7.87 Administrative support occupations, N.E.C. 9.85 Precision production, craft, and repair occupations 11.85 Precision production, craft, and repair occupations 14.89 Automobile mechanics 19.24 Industrial machinery repairers 15.88 Mechanics and repairers, N.E.C. 12.52 Electrical power installers and repairers 14.20 Machinists 15.04 Inspectors, testers, and graders 12.16 Water and sewer treatment plant operators 12.19 Water and sewer treatment plant operators 10.54 Machine operators, assemblers, and inspectors 10.54 Packaging and filling machine operators 8.37 Packaging and filling machine operators 8.37 Passemblers 11.01 Production inspectors, checkers and examiners 11.01 Transportation and material moving occupations 11.78 Track drivers 11.09 Industrial truck and tractor equipment operators 11.09		Percentil	es	
Administrative support occupations, including clerical (-Continued) Teachers' aides Administrative support occupations, N.E.C. 9.85 Precision production, craft, and repair occupations Automobile mechanics Industrial machinery repairers Mechanics and repairers, N.E.C. 12.52 Electrical power installers and repairers Machinists Machinists Inspectors, testers, and graders Machine operators, N.E.C. 12.19 Machine operators, N.E.C. 12.19 Machine operators, N.E.C. 12.19 Machine operators, N.E.C. 12.10 Machine operators, N.E.C. 12.10 Machine operators, N.E.C. 12.10 Machine operators, N.E.C. 11.01 Textile sewing machine operators Packaging and filling machine operators Packaging and filling machine operators Miscellaneous machine operators, N.E.C. 10.91 Assemblers Production inspectors, checkers and examiners Transportation and material moving occupations 11.78 Truck drivers Industrial truck and tractor equipment operators Handlers, equipment cleaners, helpers, and laborers Groundskeepers and gardeners except farm Supervisors, handlers, equipment cleaners, and laborers, N.E.C. 13.52 Helpers, construction trades 11.04 Construction laborers Stock handlers and baggers Freight, stock, and material handlers, N.E.C. 11.97 Service occupations 7.51 Protective service occupations 7.51 Service occupations 7.51 Service occupations 7.51 Service occupations 7.51 Service occupations 7.52 Supervisors, food preparation and service 0ccupations 8.51	25	Median 50	75	90
Administrative support occupations, including clerical (-Continued) Teachers' aides \$7.87 Administrative support occupations, N.E.C. 9.85 Precision production, craft, and repair occupations 14.89 Precision production, craft, and repair occupations 14.89 Automobile mechanics 19.24 Industrial machinery repairers 15.88 Mechanics and repairers, N.E.C. 12.52 Electrical power installers and repairers 14.20 Supervisors, production occupations 18.36 Machinists 15.04 Inspectors, testers, and graders 12.16 Water and sewer treatment plant operators 12.19 Machine operators, assemblers, and inspectors 10.54 Fabricating machine operators, N.E.C. 11.01 Textile sewing machine operators 9.13 Furnace, kiln, and oven operators, except food 13.52 Miscellaneous machine operators, N.E.C. 10.91 Assemblers 10.09 Production inspectors, checkers and examiners 11.23 Transportation and material moving occupations 11.78 Truck drivers 10.99 Handlers, equipment cleaners, helpers, and laborers 9.54 Groundskeepers and gardeners except farm 9.67 Supervisors, handlers, equipment cleaners, and laborers 9.54 Freight, stock, and material handlers, N.E.C. 11.91 Aborers, N.E.C. 11.94 Stock handlers and baggers 11.04 Freight, stock, and material handlers, N.E.C. 11.19 Freighting occupations 10.58 Firefighting occupations 10.58 Food service occupations 5.92 Supervisors, food preparation and service occupations 5.92 Supervisors, food preparation and service occupations 14.63 Stock provisors, food preparation and service occupations 14.63 Stock provisors, food preparation and service occupations 11.26 Food service occupations 5.92 Supervisors, food preparation and service occupations 14.63				
Administrative support occupations, N.E.C. 9.85 7.05				
Precision production, craft, and repair occupations 14.89 9.2 Automobile mechanics 19.24 12.0 Industrial machinery repairers 15.88 11.5 Mechanics and repairers, N.E.C. 12.52 8.4 Electrical power installers and repairers 14.20 11.4 Supervisors, production occupations 18.36 11.0 Machinest 15.04 12.16 Inspectors, testers, and graders 12.16 8.0 Water and sewer treatment plant operators 12.19 8.9 Machine operators, assemblers, and inspectors 10.54 6.8 Fabricating machine operators, N.E.C. 11.01 9.7 Textile sewing machine operators 8.37 5.8 Packaging and filling machine operators 9.13 6.5 Furnace, kiln, and oven operators, except food 13.52 8.8 Miscellaneous machine operators, N.E.C. 10.91 7.0 Assemblers 10.09 8.4 Production inspectors, checkers and examiners 11.28 6.7 Transportation and material moving occupations	.52 \$7.52 .00 8.75	\$7.53 9.05	\$7.70 11.03	\$9.46 13.44
Automobile mechanics	.01 8.90	11.01	14.00	17.26
Industrial machinery repairers 15.88 Mechanics and repairers, N.E.C. 12.52 8.4	.25 11.37	14.14	17.52	21.16
Mechanics and repairers, N.E.C. 12.52 8.4 Electrical power installers and repairers 14.20 11.4 Supervisors, production occupations 18.36 11.0 Machinists 15.04 12.4 Inspectors, testers, and graders 12.16 8.0 Water and sewer treatment plant operators 12.19 8.8 Machine operators, assemblers, and inspectors 10.54 6.8 Fabricating machine operators 10.54 6.8 Fabricating machine operators 8.37 5.8 Packaging and filling machine operators 9.13 6.5 Packaging and filling machine operators 9.13 6.5 Furnace, kiln, and oven operators, except food 13.52 8.8 Miscellaneous machine operators, N.E.C. 10.91 7.0 Assemblers 10.91 7.0 Assemblers 10.91 7.0 Assemblers 10.91 7.0 Assemblers 11.09 7.5 Transportation and material moving occupations 11.78 7.5 Truck drivers		20.47	21.16	28.79
Electrical power installers and repairers		16.43	17.63	19.50
Supervisors, production occupations		11.84	15.72	17.01
Machinists 15.04 12.46 Inspectors, testers, and graders 12.16 8.0 Water and sewer treatment plant operators 12.19 8.0 Machine operators, assemblers, and inspectors 10.54 6.8 Fabricating machine operators, N.E.C. 11.01 9.7 Textile sewing machine operators 8.37 5.8 Packaging and filling machine operators 9.13 6.5 Furnace, kiln, and oven operators, except food 13.52 8.8 Miscellaneous machine operators, N.E.C. 10.91 7.0 Assemblers 10.09 8.4 Production inspectors, checkers and examiners 11.23 6.7 Transportation and material moving occupations 11.78 7.5 Truck drivers 12.04 7.2 Industrial truck and tractor equipment operators 11.09 8.5 Handlers, equipment cleaners, helpers, and laborers 9.54 6.1 Groundskeepers and gardeners except farm 9.67 6.8 Supervisors, handlers, equipment cleaners, and laborers, N.E.C. 13.52 7.6 Helpers, co		12.93	15.79	20.42
Inspectors, testers, and graders		17.26	20.24	27.61
Water and sewer treatment plant operators 12.19 8.9 Machine operators, assemblers, and inspectors 10.54 6.8 Fabricating machine operators 11.01 9.7 Textile sewing machine operators 8.37 5.8 Packaging and filling machine operators 9.13 6.5 Furnace, kiln, and oven operators, except food 13.52 8.8 Miscellaneous machine operators, except food 13.52 8.8 Miscellaneous machine operators, except food 10.09 7.0 Assemblers 10.09 7.0 Production inspectors, checkers and examiners 11.23 6.7 Transportation and material moving occupations 11.78 7.5 Truck drivers 12.04 7.2 Industrial truck and tractor equipment operators 11.09 7.2 Handlers, equipment cleaners, helpers, and laborers 9.54 6.1 Groundskeepers and gardeners except farm 9.67 6.8 Supervisors, handlers, equipment cleaners, and laborers 13.52 7.6 Supervisors, construction trades 13.52 7.6	I	16.50 11.78	16.57 13.48	16.94 16.25
Machine operators, assemblers, and inspectors 10.54 6.8 Fabricating machine operators, N.E.C. 11.01 9.7 Textile sewing machine operators 8.37 5.8 Packaging and filling machine operators 9.13 Furnace, kiln, and oven operators, except food 13.52 8.8 Miscellaneous machine operators, N.E.C. 10.91 7.0 Assemblers 10.09 8.4 Production inspectors, checkers and examiners 11.23 6.7 Transportation and material moving occupations 11.78 7.5 Truck drivers 12.04 7.2 Industrial truck and tractor equipment operators 11.09 8.5 Handlers, equipment cleaners, helpers, and laborers 9.54 6.1 Groundskeepers and gardeners except farm 9.67 6.8 Supervisors, handlers, equipment cleaners, and laborers, N.E.C. 13.52 7.6 Helpers, construction trades 10.45 8.0 Construction laborers 11.04 6.5 Stock handlers and baggers 8.16 5.4 Freight, stock, and material handlers, N.E.		12.45	13.40	17.71
Fabricating machine operators, N.E.C. 11.01 9.7 Textile sewing machine operators 8.37 5.8 Packaging and filling machine operators 9.13 6.5 Furnace, kiln, and oven operators, except food 13.52 8.8 Miscellaneous machine operators, N.E.C. 10.91 7.0 Assemblers 10.09 8.4 Production inspectors, checkers and examiners 11.23 6.7 Transportation and material moving occupations 11.78 7.5 Truck drivers 12.04 7.2 Industrial truck and tractor equipment operators 11.09 8.5 Handlers, equipment cleaners, helpers, and laborers 9.54 6.1 Groundskeepers and gardeners except farm 9.67 6.8 Supervisors, handlers, equipment cleaners, and laborers, N.E.C. 13.52 7.6 Helpers, construction trades 10.45 8.0 Construction laborers 10.45 8.0 Stock handlers and baggers 8.16 5.4 Freight, stock, and material handlers, N.E.C. 11.19 7.3 Hand packers and packa	I	10.50	12.49	14.08
Textile sewing machine operators 8.37 5.8 Packaging and filling machine operators 9.13 6.5 Furnace, kiln, and oven operators, except food 13.52 8.8 Miscellaneous machine operators, N.E.C. 10.91 7.0 Assemblers 10.09 8.4 Production inspectors, checkers and examiners 11.23 6.7 Transportation and material moving occupations 11.78 7.5 Truck drivers 12.04 7.2 Industrial truck and tractor equipment operators 11.09 8.5 Handlers, equipment cleaners, helpers, and laborers 9.54 6.1 Groundskeepers and gardeners except farm 9.67 6.8 Supervisors, handlers, equipment cleaners, and laborers, N.E.C. 13.52 7.6 Helpers, construction trades 10.45 8.0 Construction laborers 11.04 6.5 Stock handlers and baggers 8.16 5.4 Freight, stock, and material handlers, N.E.C. 11.19 7.3 Hand packers and packagers 8.09 5.8 Laborers except construction, N.E.		10.85	11.81	13.38
Packaging and filling machine operators 9.13 6.5 Furnace, kiln, and oven operators, except food 13.52 8.8 Miscellaneous machine operators, N.E.C. 10.91 7.0 Assemblers 10.09 8.4 Production inspectors, checkers and examiners 11.23 6.7 Transportation and material moving occupations 11.78 7.5 Truck drivers 12.04 7.2 Industrial truck and tractor equipment operators 11.09 8.5 Handlers, equipment cleaners, helpers, and laborers 9.54 6.1 Groundskeepers and gardeners except farm 9.67 6.8 Supervisors, handlers, equipment cleaners, and 13.52 7.6 Alborers, N.E.C. 13.52 7.6 Helpers, construction trades 10.45 8.0 Construction laborers 11.04 6.5 Stock handlers and baggers 8.16 5.4 Freight, stock, and material handlers, N.E.C. 11.19 7.3 Hand packers and packagers 8.09 5.8 Laborers except construction, N.E.C. 9.41	88 6.92	9.06	9.06	9.53
Miscellaneous machine operators, N.E.C. 10.91 7.0 Assemblers 10.09 8.4 Production inspectors, checkers and examiners 11.09 8.4 Transportation and material moving occupations 11.78 7.5 Truck drivers 12.04 7.2 Industrial truck and tractor equipment operators 11.09 8.5 Handlers, equipment cleaners, helpers, and laborers 9.54 6.1 Groundskeepers and gardeners except farm 9.67 6.8 Supervisors, handlers, equipment cleaners, and laborers, N.E.C. 13.52 7.6 Helpers, construction trades 10.45 8.0 Construction laborers 11.04 6.5 Stock handlers and baggers 8.16 5.4 Freight, stock, and material handlers, N.E.C. 11.19 7.3 Hand packers and packagers 8.09 5.8 Laborers except construction, N.E.C. 9.41 7.0 Service occupations 7.51 2.1 Firefighting occupations 10.58 5.8 Firefighting occupations 11.25 8.4 <td></td> <td>8.75</td> <td>10.04</td> <td>14.49</td>		8.75	10.04	14.49
Assemblers 10.09 8.4 Production inspectors, checkers and examiners 11.23 6.7 Transportation and material moving occupations 11.78 7.5 Truck drivers 12.04 7.2 Industrial truck and tractor equipment operators 11.09 8.5 Handlers, equipment cleaners, helpers, and laborers 9.54 6.1 Groundskeepers and gardeners except farm 9.67 6.8 Supervisors, handlers, equipment cleaners, and laborers, N.E.C. 13.52 7.6 Helpers, construction trades 10.45 8.0 Construction laborers 11.04 6.5 Stock handlers and baggers 8.16 5.4 Freight, stock, and material handlers, N.E.C. 11.19 7.3 Hand packers and packagers 8.09 5.8 Laborers except construction, N.E.C. 9.41 7.0 Service occupations 7.51 2.1 Protective service occupations 10.58 5.8 Firefighting occupations 11.25 8.4 Police and detectives, public service 13.46 11.	.83 11.44	15.04	15.18	15.60
Production inspectors, checkers and examiners 11.23 6.7 Transportation and material moving occupations 11.78 7.5 Truck drivers 12.04 7.2 Industrial truck and tractor equipment operators 11.09 8.5 Handlers, equipment cleaners, helpers, and laborers 9.54 6.1 Groundskeepers and gardeners except farm 9.67 6.8 Supervisors, handlers, equipment cleaners, and laborers, N.E.C 13.52 7.6 Helpers, construction trades 10.45 8.0 Construction laborers 11.04 6.5 Stock handlers and baggers 8.16 5.4 Freight, stock, and material handlers, N.E.C 11.19 7.3 Hand packers and packagers 8.09 5.8 Laborers except construction, N.E.C 9.41 7.0 Service occupations 7.51 2.1 Protective service occupations 10.58 5.8 Firefighting occupations 11.25 8.4 Police and detectives, public service 13.46 11.4 Guards and police except public service <td< td=""><td>.00 8.67</td><td>10.84</td><td>12.69</td><td>14.13</td></td<>	.00 8.67	10.84	12.69	14.13
Transportation and material moving occupations 11.78 7.5 Truck drivers 12.04 7.2 Industrial truck and tractor equipment operators 11.09 8.5 Handlers, equipment cleaners, helpers, and laborers 9.54 6.1 Groundskeepers and gardeners except farm 9.67 6.8 Supervisors, handlers, equipment cleaners, and laborers, N.E.C. 13.52 7.6 Helpers, construction trades 10.45 8.0 Construction laborers 11.04 6.5 Stock handlers and baggers 8.16 5.4 Freight, stock, and material handlers, N.E.C. 11.19 7.3 Hand packers and packagers 8.09 5.8 Laborers except construction, N.E.C. 9.41 7.0 Service occupations 7.51 2.1 Protective service occupations 10.58 5.8 Firefighting occupations 11.25 8.4 Police and detectives, public service 13.46 11.4 Guards and police except public service 8.82 5.5 Food service occupations 5.92		10.08	10.66	12.71
Truck drivers		12.49	13.15	14.07
Industrial truck and tractor equipment operators		11.00	13.31	17.00
Handlers, equipment cleaners, helpers, and laborers		11.13	15.41	21.17
Groundskeepers and gardeners except farm 9.67 6.8	I	11.00	12.50	14.07 14.07
Supervisors, handlers, equipment cleaners, and laborers, N.E.C	-	8.82 9.92	11.09 10.46	12.02
laborers, N.E.C.	0.00	3.32	10.40	12.02
Helpers, construction trades	65 11.09	13.17	16.40	20.23
Construction laborers 11.04 6.5 Stock handlers and baggers 8.16 5.4 Freight, stock, and material handlers, N.E.C. 11.19 7.3 Hand packers and packagers 8.09 5.8 Laborers except construction, N.E.C. 9.41 7.0 Service occupations 7.51 2.1 Protective service occupations 10.58 5.8 Firefighting occupations 11.25 8.4 Police and detectives, public service 13.46 11.4 Guards and police except public service 8.82 5.5 Food service occupations 5.92 2.1 Supervisors, food preparation and service occupations 14.63 8.1		11.00	11.70	14.63
Freight, stock, and material handlers, N.E.C. 11.19 7.3 Hand packers and packagers 8.09 5.8 Laborers except construction, N.E.C. 9.41 7.0 Service occupations 7.51 2.1 Protective service occupations 10.58 5.8 Firefighting occupations 11.25 8.4 Police and detectives, public service 13.46 11.4 Guards and police except public service 8.82 5.5 Food service occupations 5.92 2.1 Supervisors, food preparation and service occupations 14.63 8.1	50 7.93	12.81	13.65	14.61
Hand packers and packagers 8.09 5.8 Laborers except construction, N.E.C. 9.41 7.0 Service occupations 7.51 2.1 Protective service occupations 10.58 5.8 Firefighting occupations 11.25 8.4 Police and detectives, public service 13.46 11.4 Guards and police except public service 8.82 5.5 Food service occupations 5.92 2.1 Supervisors, food preparation and service occupations 14.63 8.1	45 6.58	7.90	9.89	10.56
Laborers except construction, N.E.C. 9.41 7.0 Service occupations 7.51 2.1 Protective service occupations 10.58 5.8 Firefighting occupations 11.25 8.4 Police and detectives, public service 13.46 11.4 Guards and police except public service 8.82 5.5 Food service occupations 5.92 2.1 Supervisors, food preparation and service occupations 14.63 8.1	.30 8.50	10.14	14.50	15.00
Service occupations 7.51 2.1 Protective service occupations 10.58 5.8 Firefighting occupations 11.25 8.4 Police and detectives, public service 13.46 11.4 Guards and police except public service 8.82 5.5 Food service occupations 5.92 2.1 Supervisors, food preparation and service occupations 14.63 8.1		7.70	10.35	10.49
Protective service occupations 10.58 5.8 Firefighting occupations 11.25 8.4 Police and detectives, public service 13.46 11.4 Guards and police except public service 8.82 5.5 Food service occupations 5.92 2.1 Supervisors, food preparation and service occupations 14.63 8.1	.00 7.50	8.20	11.98	14.07
Firefighting occupations	.13 5.75	7.00	8.69	11.94
Police and detectives, public service		10.50	12.46	16.43
Guards and police except public service		11.25	12.46	13.57
Food service occupations		12.46	13.41	18.48
Supervisors, food preparation and service occupations		7.35	8.00	16.61
occupations	.13 2.13	5.60	8.00	10.10
	18 10.82	11.75	19.02	24.97
Waiters and waitresses	13 2.13	2.13	3.25	3.75
Cooks		8.14	9.25	10.10
Kitchen workers, food preparation	-	7.00	8.00	8.96
	13 2.13	5.35	6.23	6.87

Table A-1. Hourly earnings1 for selected occupations, all workers2, all industries, Knoxville, TN, February 1999 — Continued

			All in	dustries					
Occupation ³		Percentiles							
	Mean	10	25	Median 50	75	90			
Service occupations (-Continued) Health service occupations Nursing aides, orderlies and attendants Cleaning and building service occupations Supervisors, cleaning and building service workers Janitors and cleaners Personal service occupations Supervisors, personal service occupations Service occupations, N.E.C.	7.54 7.90 9.45 7.97 6.77	\$6.44 6.47 5.89 7.50 5.75 5.25 6.25 3.25	\$7.00 7.00 6.70 8.65 6.31 5.50 6.97 6.00	\$7.37 7.37 7.19 8.65 7.55 6.39 7.40 6.50	\$8.11 8.08 8.65 11.48 8.50 7.17 10.63 6.75	\$9.22 8.97 11.61 12.01 12.71 10.10 11.94 7.00			

¹ Earnings are the straight-time hourly wages or salaries paid to employees. They include incentive pay, cost-of-living adjustments, and hazard pay. Excluded are premium pay for overtime, vacations, 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. The 10th, 25th, 50th, 75th and 90th percentiles designate position in the earnings distribution. At the 50th percentile, the median, half of the workers receive the same as or more than the rate shown, and half receive the same as or less than the rate shown. At the 25th percentile, one-fourth of the workers earn the same as or less than the rate shown. At the 75th percentile, one-fourth earn the same as or more than the rate shown. The 10th and 90th percentiles follow the same logic.

occupations is used to cover all workers in the civilian economy. Individual occupations are classified into one of nine major occupational groups.

The positional statistics for this occupation were suppressed because some were below the minimum wage. In this update survey, an average decrease in mean wages for this occupation was applied to the positional statistics, causing the 10th percentile to go below the minimum wage.

NOTE: Dashes indicate that no data were reported or that data did not meet publication criteria. Overall occupational groups and occupational levels may include data for categories not shown separately. N.E.C. means "not elsewhere classified."

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

A classification system including about 480 individual

Table A-2. Hourly earnings¹ for selected occupations, all workers², private industry and State and local government, Knoxville, TN, February 1999

			Private	e industry	<u>'</u>			State	and loca	al govern	ment	
Occupation ³				Percentil	es				F	Percentile	s	
	Mean	10	25	Median 50	75	90	Mean	10	25	Median 50	75	90
All occupations All occupations excluding sales	\$12.83 12.93	\$6.01 6.25	\$7.65 7.89	\$10.85 11.00	\$15.86 15.90	\$22.50 22.56	\$15.86 15.88	\$7.85 7.85	\$9.46 9.46	\$12.92 12.92	\$20.91 20.99	\$27.4° 27.4°
White-collar occupations White-collar occupations excluding sales	15.92 17.05	6.86 8.00	9.00 10.25	13.74 15.00	20.32 21.41	28.22 29.22	18.27 18.30	8.57 8.57	11.01 11.02	17.75 17.76	23.52 23.52	28.99 29.02
Professional specialty and technical occupations	20.32	12.05	14.49	18.53	25.31	30.64	20.59	10.17	16.12	20.82	24.72	28.49
Professional specialty occupations Engineers, architects, and surveyors Industrial engineers	22.55 26.97 20.48	14.25 15.96 13.46	17.24 20.73 15.91	20.96 26.75 20.59	27.00 32.53 24.02	33.23 37.03 26.74	21.58	11.80	17.75	22.30	25.05	29.3
Engineers, N.E.C Mathematical and computer scientists	28.62 24.41	16.63 17.33	24.04 18.75	28.59 25.75	33.81 27.69	37.51 34.30	- -	_ _ _	_ _	_ _ _	_ _ _	_ _ _
Computer systems analysts and scientists Natural scientists	23.38 26.75	17.05 13.50	17.33 18.03	18.75 29.22	31.73 33.20	37.65 35.33	_ _	-	_	_ _	_ _	_ _
Health related occupations	19.72 16.87	14.10 13.23	16.11 14.44 –	18.67 16.99	23.14 18.65	26.68 20.85	- - -	- - -	-	- - -	- - -	_ _
Teachers, except college and university Elementary school teachers	1 1	_	_	- -	_ _	_ _	22.72 24.77	14.86 18.35	19.36 20.52	23.19 24.09	27.17 27.79	30.33 34.26
Secondary school teachers Librarians, archivists, and curators Social scientists and urban planners		- - -	- - -	- - -	-	- - -	23.94	18.38 - -	20.59 - -	24.04 - -	26.97 - -	29.16 - -
Social, recreation, and religious workers Social workers Lawyers and judges		- -	- - -	- - -	-	- - -	13.63 13.81 –	10.73 10.91 –	11.10 11.80 –	13.57 13.58 –	15.38 15.39 –	16.83 16.83
Writers, authors, entertainers, athletes, and professionals, N.E.C	18.69 15.97	13.61 10.90	15.00 12.02	18.39 14.25	20.87 18.72	26.37 23.63	_ 11.46	- 7.50	- 8.67	_ 11.04	_ 13.70	_ 14.74
Licensed practical nurses Health technologists and technicians, N.E.C.	11.78	9.99	10.80	11.80	12.46	13.49	10.55	7.50	7.50	_	_	13.70
Electrical and electronic technicians Engineering technicians, N.E.C	17.37 18.29	10.89 12.20	12.02 13.88	15.92 18.56	20.39 22.56	32.48 23.82	_	_ _	7.50 - -	10.63	13.70	_ _
Drafters Executive, administrative, and managerial occupations	16.35 24.80	11.65 13.27	12.76 15.86	15.25 21.35	17.25 30.13	25.91 37.77	23.32	- 11.87	13.99	22.09	32.18	34.7
Executives, administrators, and managers	27.80	15.30	18.13	24.83	32.22	40.99	29.02	17.91	23.42	29.16	34.63	37.3
administration Personnel and labor relations managers	23.05	- 14.38	- 14.38	20.93	- 27.18	- 38.51	27.39	21.61	27.38	27.64	28.62	28.6
Administrators, education and related fields	1	_	_	_	_	_	32.05	22.69	29.16	33.86	34.78	37.35
Managers and administrators, N.E.C. Management related occupations Other financial officers	33.64 19.44 15.80	16.55 12.50 11.93	13.22 12.93	16.00 13.63	37.41 24.58 14.42	59.17 29.81 26.92	15.41 -	11.66 –	11.87 -	12.78 -	19.29 -	21.0
Sales occupations	11.95 16.14	5.58 7.75	6.24 9.38	9.00 13.80	15.00 20.53	21.94 23.60	_	-	_	_	_	_
services Sales representatives, mining, manufacturing, and wholesale	20.02 19.52	9.80	14.44 12.29	16.50 17.06	20.68	37.64 31.25	_	_	-	_	_	_
Sales workers, motor vehicles and boats	14.57	5.15	10.00	12.01	20.37	23.36	_	-	_	-	-	_
Cashiers Administrative support occupations, including clerical	6.31	5.50 6.99	5.75 8.00	6.00 9.25	6.55 11.67	7.75 15.25	10.47	- 7.52	8.24	9.56	12.26	15.3
Secretaries	10.22 8.18 13.38	7.50 6.75 8.23	8.50 7.50 8.75	9.79 8.25 12.50	12.01 8.65 17.67	13.64 9.39 18.25	10.89 - -	8.29 - -	9.43 - -	10.22 - -	13.13 - -	14.2 - -
clerksProduction coordinators	11.33 13.70	8.00 11.46	8.10 12.13	10.50 13.44	13.81 16.36	16.12 16.50	- -	-	_	- -	_ _	_ _

Table A-2. Hourly earnings¹ for selected occupations, all workers², private industry and State and local government, Knoxville, TN, February 1999 — Continued

			Private	e industry	'			State	and loca	al govern	ment	
Occupation ³				Percentil	es				F	Percentile	S	
	Mean	10	25	Median 50	75	90	Mean	10	25	Median 50	75	90
White-collar occupations (-Continued) Administrative support occupations, including clerical (-Continued)												
Traffic, shipping and receiving clerks Stock and inventory clerks	\$10.28 9.57	\$8.00 6.94	\$8.61 8.50	9.75	\$11.67 10.50	\$11.75 11.75	-	- -	-	-	-	-
Meter readers Investigators and adjusters except	-	-	-	-	_	_	\$14.74	\$7.00	\$15.65	\$16.12	\$16.49	\$16.
insurance	10.65	8.68	9.63	10.71	11.25	11.70	-	_	_	_	_	-
Bill and account collectors	12.20 10.08	8.00 7.50	9.34 8.00	10.65 8.99	13.58 11.98	16.77 14.00	9.96	- 7.35	8.54	9.29	- 10.46	14.
Bank tellers	8.08	6.88	7.25	7.83	8.58	10.40	- 3.30	-	- 0.54	- 5.25	-	14.
Data entry keyers	8.43	6.49	7.09	8.34	10.00	10.36	-	_	_	_	_	-
Teachers' aides Administrative support occupations,	_	-	-	_	_	_	7.87	7.52	7.52	7.53	7.70	9.
N.E.C	8.85	7.00	8.00	8.75	9.05	11.03	11.84	9.24	10.10	11.18	13.44	16.
Blue-collar occupations Precision production, craft, and repair	11.81	7.00	8.83	11.00	14.00	17.05	12.31	8.04	9.24	11.43	14.14	18.
occupations	15.13	9.25	11.50	14.37	17.63	21.63	13.79	8.89	10.37	12.45	16.73	19.
Industrial machinery repairers Mechanics and repairers, N.E.C	15.88 13.47	11.53 8.40	14.08 10.66	16.43 12.27	17.63 15.72	19.50 18.35	_	_	_	_	_	_
Electrical power installers and	-	0.40	-	-	-					12.60		
repairersSupervisors, production occupations	18.36	11.08	- 15.88	17.26	20.24	27.61	14.48	11.67	12.12	13.69	15.79	20.
Machinists	15.04	12.41	12.41	16.50	16.57	16.94	-	_	_	_	_	-
Inspectors, testers, and graders Water and sewer treatment plant	12.16	8.00	10.00	11.78	13.48	16.25	-	_	_	_	_	-
operators	-	-	-	_	_	_	12.19	8.96	9.53	12.45	13.42	17.
Machine operators, assemblers, and inspectors	10.54	6.86	8.75	10.47	12.49	14.08	_	_	_	_	-	_
Fabricating machine operators, N.E.C	11.01	9.70	9.76	10.85	11.81	13.38	_	_	_	_	_	_
Textile sewing machine operators Packaging and filling machine	8.37	5.88	6.92	9.06	9.06	9.53	-	-	-	_	-	-
operatorsFurnace, kiln, and oven operators,	9.13	6.59	7.21	8.75	10.04	14.49	_	-	-	_	-	-
except food Miscellaneous machine operators,	13.52	8.83	11.44	15.04	15.18	15.60	-	-	_	_	-	-
N.E.C	10.89 10.09	7.00 8.47	8.67 9.23	10.84 10.08	12.69 10.66	14.13 12.71	_	_	_ _	_ _	_ _	<u>-</u>
Production inspectors, checkers and examiners	11.23	6.70	9.07	12.49	13.15	14.07	_	_	_	_	_	_
Transportation and material moving							10.20			0.60	44.47	
occupations Truck drivers	11.86 12.10	7.50 7.25	9.18 8.32	11.13 11.13	13.37 15.41	17.00 21.17	10.39	8.21 –	8.75 -	9.69	11.17	14. –
Industrial truck and tractor equipment operators	11.09	8.52	9.54	11.00	12.50	14.07	_	-	_	_	-	_
Handlers, equipment cleaners, helpers, and laborers	9.52	6.00	7.00	8.75	11.09	14.07	9.69	7.38	7.75	9.44	10.46	13.
Supervisors, handlers, equipment cleaners, and laborers, N.E.C	13.56	7.65	10.63	11.75	16.40	20.23	_	_	_	_	_	_
Helpers, construction trades	10.45	8.00	8.00	11.00	11.70	14.63	_	_	_	_	_	-
Stock handlers and baggers Freight, stock, and material handlers,	8.01	5.45	6.50	7.88	9.89	10.56	_	_	_	_	_	-
N.E.C	11.19	7.30	8.50	10.14	14.50	15.00	-	_	_	_	_	-
Hand packers and packagersLaborers except construction, N.E.C.	8.09 9.69	5.89 6.75	6.27 7.50	7.70 8.00	10.35 14.07	10.49 14.07	_	_ _	_ _	_ _	_	-
Service occupations	6.85	2.13	5.50	6.78	7.88	10.20	10.17	7.03	8.11	10.18	12.04	12.
Protective service occupations	8.75	5.77	5.85	7.35	8.00	16.61	11.68	9.20	10.22	11.32	12.53	14.
Firefighting occupations	_	_	_	_	_	_	11.25	8.46	9.98	11.25	12.46	13.
Police and detectives, public service Guards and police except public	8.67	- 5.59		7 35		16.61	13.46	11.48	12.04	12.46	13.41	18.
service Food service occupations	5.87	2.13	5.85 2.13	7.35 5.50	8.00 7.79	16.61 10.10	_	_	_	_	_	-

Table A-2. Hourly earnings¹ for selected occupations, all workers², private industry and State and local government, Knoxville, TN, February 1999 — Continued

			Private	e industry	•			State and local government				
Occupation ³				Percentil	es				F	Percentile	s	
·	Mean	10	25	Median 50	75	90	Mean	10	25	Median 50	75	90
Service occupations (-Continued)												
Food service occupations (-Continued)												
Supervisors, food preparation and												
service occupations	\$14.63	\$8.18	\$10.82	\$11.75	\$19.02	\$24.97	-	-	-	-	_	-
Waiters and waitresses	2.67	2.13	2.13	2.13	3.25	3.75	-	-	_	-	_	-
Cooks	8.19	5.74	7.00	8.14	9.25	10.25	-	-	_	-	_	-
Kitchen workers, food preparation	7.31	6.05	6.75		8.00	8.96	-	-	_	-	_	-
Food preparation occupations, N.E.C.	4.35	2.13	2.13	5.35	6.04	6.87	-	-	_	-	_	-
Health service occupations	7.68	6.44	7.00	7.37	8.11	9.22	-	-	_	-	_	-
Nursing aides, orderlies and												
attendants	7.54	6.47	7.00	7.37	8.08	8.97	-	-	_	-	_	-
Cleaning and building service												
occupations		5.75	6.50		7.74	10.23	\$8.88	\$6.90	\$7.55	\$8.65	\$10.56	\$12.35
Janitors and cleaners	7.91	5.65	6.00	7.00	8.68	12.96	8.11	6.45	7.55	7.55	7.69	12.35
Personal service occupations	6.67	5.25	5.50	6.25	7.00	8.34	-	-	_	-	-	-
Service occupations, N.E.C	6.08	3.25	6.00	6.50	6.75	7.00	-	_	-	-	-	-

¹ Earnings are the straight-time hourly wages or salaries paid to employees. They include incentive pay, cost-of-living adjustments, and hazard pay. Excluded are premium pay for overtime, vacations, 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. The 10th, 25th, 50th, 75th and 90th percentiles designate position in the earnings distribution. At the 50th percentile, the median, half of the workers receive the same as or more than the rate shown, and half receive the same as or less than the

NOTE: Dashes indicate that no data were reported or that data did not meet publication criteria. Overall occupational groups and occupational levels may include data for categories not shown separately. N.E.C. means "not elsewhere classified."

the same as or more than the rate shown, and hall receive the same as or less than the rate shown. At the 25th percentile, one-fourth of the workers earn the same as or less than the rate shown. At the 75th percentile, one-fourth earn the same as or more than the rate shown. The 10th and 90th percentiles follow the same logic.

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 sort-time in considered a full-time employee in one establishment, but classified as part-time in

another firm, where a 40-hour week is the minimum full-time schedule. $^3\,$ A classification system including about 480 individual occupations is used to cover all workers in the civilian economy. Individual occupations are classified into one of nine major occupational groups

Table A-3. Hourly earnings¹ for selected occupations, full-time and part-time workers², all industries, Knoxville, TN, February 1999

						All indu	SITIES					
			Fu	II-time			ļ		Part	-time		
Occupation ³				Percentil	es				F	Percentile	s	
	Mean	10	25	Median 50	75	90	Mean	10	25	Median 50	75	90
occupations	\$13.87	\$6.81	\$8.50	\$11.66	\$17.00	\$24.29	\$7.08	\$2.13	\$5.39	\$6.22	\$7.96	\$11.1
All occupations excluding sales	13.98	7.00	8.65	11.80	17.03	24.59	6.90	2.13	5.15	6.25	8.00	11.7
White-collar occupations White-collar occupations excluding sales	16.96 17.79	7.70 8.50	10.00 10.82	15.01 15.96	22.25 22.89	28.77 29.35	9.47 10.18	5.50 6.25	6.22 6.46	7.50 7.75	9.74 12.50	16.0 17.1
Professional specialty and technical	20.50	11 01	15.00	10.00	05.07	20.07	14.07	0.50	10.40	14.00	47.CE	24
occupations Professional specialty occupations	20.59 22.32	11.84 14.00	15.00 17.50	19.82 21.63	25.27 26.58	29.97 31.42	14.87 16.55	8.53 10.25	10.40 13.73	14.00 16.00	17.65 18.77	21.0
Engineers, architects, and surveyors	26.70	16.20	20.73	26.50	32.06	36.67	10.55	-	13.73	10.00	-	23.
Civil engineers	27.02	17.56	22.50	25.82	32.73	36.54	_	_	_	_	_	_
Industrial engineers	20.51	13.46	15.91	20.59	24.02	26.74	_	_	_	_	_	-
Engineers, N.E.C.	28.62	16.63	24.04	28.59	33.81	37.51	-	-	_	-	_	-
Mathematical and computer scientists	23.44	15.88	17.33	21.95	25.75	34.21	-	-	_	-	-	-
Computer systems analysts and												
scientists	23.14	17.05	17.33	18.75	28.85	36.93	_	_	_	_	_	-
Natural scientists Health related occupations	24.58 20.11	17.50 14.16	20.19 16.25	22.55 18.84	30.03 23.19	34.42 26.92	17.08	13.00	- 14.25	17.00	- 19.32	21.
Registered nurses	16.91	13.23	14.50	17.00	18.70	20.92	17.06	13.00	14.23	17.00	19.32	21.
Teachers, college and university	-	-	-	-	-	20.04	- 17.57	-	-	-	-	
Teachers, except college and university	22.89	15.04	19.41	23.19	27.25	30.33	_	_	_	_	_	-
Elementary school teachers	24.73	18.31	20.52	24.09	27.79	34.26	-	-	_	-	_	-
Secondary school teachers	23.94	18.38	20.59	24.04	26.97	29.16	-	-	_	-	_	-
Librarians, archivists, and curators	-	-	_	_	_	-	-	-	_	-	_	-
Social scientists and urban planners	-	-	-	-	45.00	-	-	-	_	-	_	-
Social, recreation, and religious workers	13.02	9.38	10.91	11.99	15.23	16.78	-	-	_	-	_	-
Social workersLawyers and judges	13.12	9.38	10.91 –	12.58	15.23	16.78 —	_	_	_	_	_	
Writers, authors, entertainers, athletes,												
and professionals, N.E.C.	18.69	13.61	15.00	18.39	20.87	26.37	_	_	_	_	_	_
Technical occupations	15.53	10.50	11.80	13.89	18.20	23.04	10.61	7.22	9.16	10.00	12.00	14.
Licensed practical nurses	11.84	10.14	10.82	11.80	12.50	13.64	-	-	_	-	_	-
Health technologists and technicians,												
N.E.C	13.77	10.18	11.17	13.70	15.97	18.20	-	-	_	-	_	-
Electrical and electronic technicians	15.53	8.67	10.89	14.03	19.14	22.40	-	-	_	-	_	-
Engineering technicians, N.E.C Drafters	17.84 16.35	12.05 11.65	13.58 12.76	17.80 15.25	22.56 17.25	23.82 25.91	_	_	_	_	-	
Executive, administrative, and managerial	10.55	11.03	12.70	13.23	17.23	25.91	-	_	_	_	_	-
occupations	24.41	12.78	15.86	21.69	30.49	37.41	-	_	_	_	_	-
Executives, administrators, and												
managers	28.17	15.86	20.12	27.43	34.52	38.51	-	-	_	-	_	-
Administrators and officials, public	07.00	04.04	07.00	07.04	00.00	00.00						
administration Personnel and labor relations	27.39	21.61	27.38	27.64	28.62	28.62	-	_	_	_	_	-
managers Administrators, education and related	22.29	14.38	15.30	20.93	26.49	38.51	_	-	-	_	-	-
fields	32.05	22.69	29.16	33.86	34.78	37.35	_	_	_	_	_	_
Managers and administrators, N.E.C.	33.79	16.55	21.35	31.20	37.77	59.17	_	_	_	_	_	_
Management related occupations	18.08	11.87	12.63	15.00	21.08	28.88	_	_	_	_	_	-
Other financial officers	16.74	12.56	13.22	14.42	19.29	26.92	_	_	_	_	_	-
Management related occupations,												
N.E.C	25.78	12.30	14.38	25.73	40.62	40.62						l
Sales occupations	12.48	5.75	6.54	10.00	15.58	22.08	8.13	5.45	5.50	6.00	7.63	10
Supervisors, sales occupations Sales occupations, other business	16.14	7.75	9.38	13.80	20.53	23.60	-	_	_	_	_	_
services	18.04	9.80	12.50	16.15	20.00	25.55	_	_	_		_	l _
Sales representatives, mining,	10.04	3.00	12.50	10.10	20.00	20.00						
manufacturing, and wholesale	19.52	10.50	12.29	17.06	21.94	31.25	_	_	_	_	_	-
Sales workers, motor vehicles and												
boats	14.57	5.15	10.00	12.01	20.37	23.36	-	-	-	-	_	-
Cashiers	6.42	5.50	5.75	6.09	6.75	7.75	6.12	5.45	5.50	6.00	6.20	7
Administrative support occupations, including	40.15				46.55	45		0.55				_
clerical	10.49	7.44	8.24	9.64	12.02	15.46	7.48	6.22	6.25	7.25	8.00	9
Secretaries	10.66	7.78	9.00	10.26	12.46	13.93	-	-	_	-	_	-

Table A-3. Hourly earnings¹ for selected occupations, full-time and part-time workers², all industries, Knoxville, TN, February 1999 — Continued

						All indu	stries					
			Fu	II-time					Part-	-time		
Occupation ³				Percentil	es				F	ercentile	s	
	Mean	10	25	Median 50	75	90	Mean	10	25	Median 50	75	90
White-collar occupations (-Continued) Administrative support occupations, including												
clerical (-Continued) Receptionists	\$8.25	\$6.75	\$7.05	\$8.36	\$8.65	\$9.77	_	_	_			
Records clerks, N.E.C.	13.38	8.23	8.75	12.50	17.67	18.25			_		_	_
Bookkeepers, accounting and auditing		0.20										
clerks	11.08	8.00	8.20	10.50	13.18	15.85	-	_	_	-	-	-
Dispatchers	10.35	(4)	(4)	(4)	(⁴)	(4)	-	_	_	-	-	_
Production coordinators	13.70	11.46	12.13	13.44	16.36	16.50	-	-	_	-	-	_
Traffic, shipping and receiving clerks	10.28	8.00	8.61	10.00	11.67	11.75	-	-	_	-	-	_
Stock and inventory clerks	9.57 14.74	6.94 7.00	8.50 15.65	9.75 16.12	10.50 16.49	11.75 16.97	_	_	_	-	_	_
Meter readers Investigators and adjusters except	14.74	7.00	13.05	10.12	10.49	10.97	-	_	_	-	-	_
insurance	10.65	8.68	9.63	10.71	11.25	11.70	_	_	_	_	_ !	_
Bill and account collectors		8.00	9.34	10.65	13.58	16.77	-	_	_	_	-	_
General office clerks	10.19	7.50	8.35	9.27	11.23	14.07	-	-	_	-	-	_
Bank tellers	8.08	6.88	7.25	7.83	8.58	10.40	-	-	_	-	-	_
Data entry keyers	8.77	6.99	7.74	8.50	10.11	10.36	-	-	_	-	-	-
Administrative support occupations, N.E.C	9.96	7.00	8.75	9.05	11.18	13.44	\$8.78	\$7.50	\$7.50	\$9.00	\$9.00	\$9.00
Blue-collar occupations	11.98	7.25	9.06	11.09	14.07	17.40	7.27	5.45	6.00	6.85	8.50	9.50
Precision production, craft, and repair				l								
occupations	14.89 19.24	9.25	11.37 14.00	14.14 20.47	17.52 21.16	21.16 28.79	-	-	_	-	-	_
Automobile mechanicsIndustrial machinery repairers	15.88	12.00 11.53	14.08	16.43	17.63	19.50	-	_	_	_	_	_
Mechanics and repairers, N.E.C.	12.52	8.40	10.25	11.84	15.72	17.01	_	_	_	_	_	_
Electrical power installers and repairers	14.20	11.45	11.76	12.93	15.79	20.42	_	_	_	_	_	_
Supervisors, production occupations	18.36	11.08	15.88	17.26	20.24	27.61	_	_	_	_	_	_
Machinists	15.04	12.41	12.41	16.50	16.57	16.94	-	_	_	_	-	_
Inspectors, testers, and graders Water and sewer treatment plant	12.16	8.00	10.00	11.78	13.48	16.25	-	-	-	-	-	_
operators Machine operators, assemblers, and	12.19	8.96	9.53	12.45	13.42	17.71	-	-	_	-	-	-
inspectors Fabricating machine operators,	10.59	6.94	8.92	10.64	12.52	14.08	7.24	6.09	6.55	7.00	7.61	9.00
N.E.C Textile sewing machine operators	11.01 8.37	9.70 5.88	9.76 6.92	10.85 9.06	11.81 9.06	13.38 9.53	-	_	_	_	_	_
Packaging and filling machine operators	9.13	6.59	7.21	8.75	10.04	14.49	-	-	_	-	-	_
Furnace, kiln, and oven operators, except food	13.52	8.83	11.44	15.04	15.18	15.60	-	-	_	-	-	-
Miscellaneous machine operators, N.E.C	11.06	7.05	9.00	10.84	12.91	14.25	_	_	_	_	_	_
Assemblers	10.15	8.50	9.23		10.66	12.71	_	_	_	_	_	_
Production inspectors, checkers and examiners	11.57	6.97	10.31	12.49	13.21	14.07	_	_	_	_	_	_
Transportation and material moving		3.0.										
occupations	11.80	7.50	9.01	11.01	13.37	17.00	-	_	-	-	-	_
Truck drivers	12.06	7.25	8.32	11.13	15.41	21.17	-	_	-	-	-	_
Industrial truck and tractor equipment operators	11.09	8.52	9.54	11.00	12.50	14.07	_	_	_	_	-	_
Handlers, equipment cleaners, helpers, and laborers	9.83	6.50	7.38	9.37	11.70	14.07	7.07	5.15	5.75	6.75	8.50	9.50
Groundskeepers and gardeners except farm	9.67	6.85	8.80	9.92	10.46	12.02	_	_	_	_	_	_
Supervisors, handlers, equipment												
cleaners, and laborers, N.E.C		7.65	11.09	13.17	16.40	20.23	-	-	-	-	-	_
Helpers, construction trades	10.45	8.00	8.00		11.70	14.63	-	-	-	-	-	_
Construction laborers	11.04 8.98	6.50 7.20	7.93 7.80	12.81 8.80	13.65 10.40	14.61 10.56	_	_	_	_		_
Stock handlers and baggers	0.98	1.20	1.80	0.00	10.40	10.56	-	_	_	-	-	_

Table A-3. Hourly earnings1 for selected occupations, full-time and part-time workers2, all industries, Knoxville, TN, February 1999 — Continued

						All indu	stries					
			Fu	II-time					Part	-time		
Occupation ³				Percentil	es				F	ercentile	s	
	Mean	10	25	Median 50	75	90	Mean	10	25	Median 50	75	90
Blue-collar occupations (-Continued) Handlers, equipment cleaners, helpers, and laborers (-Continued) Freight, stock, and material handlers, N.E.C. Hand packers and packagersLaborers except construction, N.E.C.	\$11.81 8.15 9.55	\$7.25 5.89 7.00	\$8.87 6.26 7.50	\$12.97 7.70 8.30	\$15.00 10.35 12.92	\$15.00 10.49 14.07	_ _ _	_ _ _	_ _ _	- - -	- -	_ _ _
Service occupations	11.25 13.46	5.28 5.85 8.46 11.48	6.50 8.00 9.98 12.04	7.44 10.59 11.25 12.46	9.27 12.46 12.46 13.41	12.25 16.61 13.57 18.48	\$4.71 8.24 - -	\$2.13 5.59 - -	\$2.13 5.85 - -	\$5.26 7.00 - -	\$6.00 8.00 - -	\$7.50 15.00 - -
service Food service occupations Supervisors, food preparation and	8.83 7.03	5.77 2.13	5.85 3.30	7.35 6.75	8.00 8.62	16.61 11.50	3.70	2.13	2.13	2.13	- 5.30	6.35
service occupations	2.75 8.50 6.46	8.18 2.13 6.89 5.57	10.00 2.13 7.50 5.75	12.21 2.13 8.35 6.23	19.02 3.30 9.25 6.79	24.97 3.75 10.25 7.64	- 2.49 - -	- 2.13 - -	- 2.13 - -	- 2.13 - -	_ 2.13 _ _	- 3.50 - -
Health service occupations Nursing aides, orderlies and attendants Cleaning and building service	7.69 7.53	6.47 6.44	7.00 6.95	7.37 7.37	8.12 8.08	9.25 8.97	-	-	-	-	-	-
occupations	8.19	6.00 7.50 6.00 5.15	7.00 8.65 6.50 6.00	7.35 8.65 7.55 6.75	8.65 11.48 8.68 7.40	12.01 12.01 12.96 10.63	- - - 6.09	- - - 5.35	- - - 5.40	- - - 5.50	- - - 6.25	- - - 7.17

¹ Earnings are the straight-time hourly wages or salaries paid to employees. They Larmings 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, 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. The 10th, 25th, 50th, 75th and 90th percentiles designate position in the earnings distribution. At the 50th percentile, the median, half of the workers receive the same as or more than the rate shown. At the 25th percentile, one-fourth of the workers earn the same as or less than the rate shown. At the 75th percentile, one-fourth earn the same as or more than the rate shown. The 10th and 90th percentiles follow the same locit the rate shown. The 10th and 90th percentiles follow the same logic. $^2\,$ Employees are classified as working either a full-time or a part-time schedule based

all workers in the civilian economy. Individual occupations are classified into one of nine major occupational groups.

4 The positional statistics for this occupation were suppressed because some were

below the minimum wage. In this update survey, an average decrease in mean wages for this occupation was applied to the positional statistics, causing the 10th percentile to go below the minimum wage.

NOTE: Dashes indicate that no data were reported or that data did not meet publication criteria. Overall occupational groups and occupational levels may include data for categories not shown separately. N.E.C. means "not elsewhere classified."

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.

A classification system including about 480 individual occupations is used to cover

Table A-4. Weekly and annual earnings 1 and hours for selected occupations, full-time workers only 2 , all industries, Knoxville, TN, February 1999

			All ind	ustries		
Occupation ³	Mean	Weekly	earnings	Mean annual	Annual e	arnings
	weekly hours ⁴	Mean	Median	hours	Mean	Median
All occupations	40.3	\$559	\$468	2,062	\$28,600	\$24,565
All occupations excluding sales	40.2	562	475	2,054	28,716	24,914
White-collar occupations	40.1	681	605	2,024	34,332	30,808
White-collar occupations excluding sales	39.8	708	637	1,998	35,542	31,928
Professional specialty and technical occupations	39.6	814	779	1,943	40,005	37,219
Professional specialty occupations	39.4	880	855	1,901	42,427	38,792
Engineers, architects, and surveyors Civil engineers	40.4 39.4	1,079 1,065	1,062 1,008	2,101 2,049	56,083 55,369	55,245 52,416
Industrial engineers	42.0	862	829	2,049	44,809	43,118
Engineers, N.E.C.	40.0	1,145	1,144	2,080	59,523	59,467
Mathematical and computer scientists	40.3	946	896	2,098	49,172	46,592
Computer systems analysts and scientists	40.6	940	750	2,113	48,883	39,000
Natural scientists	39.8	979	902	2,071	50,893	46,904
Health related occupations	39.8	801	753	2,070	41,632	39,166
Registered nurses	39.7	672	670	2,066	34,929	34,840
Teachers, college and university	-	_	_	_	-	_
Teachers, except college and university	38.2	875	889	1,575	36,047	35,829
Elementary school teachers	38.0	940	909	1,541	38,102	36,450
Secondary school teachers	38.1	912	917	1,523	36,465	36,697
Librarians, archivists, and curators	_	_	_	_	-	_
Social scientists and urban planners	-	-	470	-		- 04.005
Social, recreation, and religious workers	38.4 38.3	500 503	478	1,998	26,003	24,835
Social workers Lawyers and judges	30.3	503	478	1,994	26,163	24,835
Writers, authors, entertainers, athletes, and	_	_	_	_	_	_
professionals, N.E.C.	39.7	742	718	2,065	38.595	37,323
Technical occupations	40.0	621	555	2,078	32,278	28,870
Licensed practical nurses	39.9	472	472	2,072	24,534	24,544
Health technologists and technicians, N.E.C	39.8	547	548	2,067	28,467	28,496
Electrical and electronic technicians	41.0	637	566	2,133	33,135	29,432
Engineering technicians, N.E.C.	39.8	710	712	2,071	36,942	37,024
Drafters	40.0	654	610	2,080	34,007	31,720
Executive, administrative, and managerial occupations	40.9	999	854	2,120	51,758	44,221
Executives, administrators, and managers	41.7	1,174	1,134	2,152	60,632	58,885
Administrators and officials, public administration	45.2	1,237	1,242	2,349	64,344	64,561
Personnel and labor relations managers	40.0	891	837	2,080	46,355	43,534
Administrators, education and related fields	40.9	1,312	1,354	2,055	65,840	70,013
Managers and administrators, N.E.C.	43.2	1,459	1,248	2,245	75,870	64,896
Management related occupations Other financial officers	39.8 38.7	719 647	600 541	2,069 2,010	37,400 33,648	31,200 28,119
Management related occupations, N.E.C.	42.8	1,104	827	2,010	57,418	42,994
Sales occupations	41.8	522	400	2,175	27,145	20,800
Supervisors, sales occupations	43.4	700	623	2,257	36,424	32,406
Sales occupations, other business services	39.8	717	646	2,068	37,307	33,592
Sales representatives, mining, manufacturing,				· 1	· 1	,
and wholesale	40.7	795	702	2,117	41,334	36,504
Sales workers, motor vehicles and boats	47.7	695	588	2,479	36,119	30,576
Cashiers	40.0	257	244	2,080	13,344	12,662
Administrative support occupations, including clerical	39.8	417	382	2,039	21,391	19,727
Secretaries	39.6	422	408	2,019	21,532	21,021
Receptionists	40.0	330	334	2,080	17,154	17,389
Records clerks, N.E.C.	39.1	522	404	2,031	27,169	21,008
Bookkeepers, accounting and auditing clerks	40.2	445	420	2,090	23,148	21,840
Dispatchers Production coordinators	40.0 40.3	414 552	447 550	2,080 2,095	21,538 28,701	23,234 28,579
Traffic, shipping and receiving clerks	40.3	411	400	2,095	21,386	20,800
Stock and inventory clerks	40.0	383	390	2,080	19,898	20,800
Meter readers	40.0	589	645	2,080	30.652	33,526
Investigators and adjusters except insurance	40.0	426	428	2,080	22,146	22,277
Bill and account collectors	40.0	489	426	2,080	25,404	22,152
General office clerks	39.5	402	370	2,034	20,733	19,200
Bank tellers	39.2	317	301	2,039	16,483	15,662
Data entry keyers	40.0	351	340	2,080	18,244	17,680
Administrative support occupations, N.E.C	39.9	397	362	2,073	20,660	18,824

Table A-4. Weekly and annual earnings¹ and hours for selected occupations, full-time workers only², all industries, Knoxville, TN, February 1999 — Continued

			All ind	ustries		
Occupation ³	Mean	Weekly	earnings	Mean	Annual e	earnings
	weekly hours ⁴	Mean	Median	annual hours	Mean	Median
Blue-collar occupations	40.8	\$489	\$455	2,122	\$25,422	\$23,650
Precision production, craft, and repair occupations	40.0	596	560	2,081	30,984	29,120
Automobile mechanics	40.0	770	819	2,080	40,021	42,578
Industrial machinery repairers	40.0	635	657	2,080	33,035	34,174
Mechanics and repairers, N.E.C	39.5	494	444	2,052	25,693	23,088
Electrical power installers and repairers	40.0	568	517	2,080	29,541	26,898
Supervisors, production occupations	41.2	757	692	2,143	39,348	36,005
Machinists	40.0	602	660	2,080	31,281	34,320
Inspectors, testers, and graders	40.0	486	471	2,080	25,284	24,510
Water and sewer treatment plant operators	40.0	488	498	2,080	25,353	25,896
Machine operators, assemblers, and inspectors	40.0	423	425	2,079	22,020	22,121
Fabricating machine operators, N.E.C	40.0	440	434	2,080	22,896	22,568
Textile sewing machine operators	40.0	335	362	2,080	17,415	18,838
Packaging and filling machine operators	40.0	365	350	2,080	18,990	18,200
Furnace, kiln, and oven operators, except food	40.0	541	602	2,080	28,125	31,283
Miscellaneous machine operators, N.E.C	40.0	442	434	2,080	23,008	22,552
Assemblers	40.0	406	407	2,080	21,117	21,181
Production inspectors, checkers and examiners	40.0	463	500	2,080	24,067	25,979
Transportation and material moving occupations	44.5	525	464	2,312	27,296	24,128
Truck drivers	48.2	582	642	2,507	30,247	33,404
Industrial truck and tractor equipment operators	40.0	444	440	2,080	23,071	22,880
Handlers, equipment cleaners, helpers, and laborers	40.1	394	375	2,085	20,501	19,482
Groundskeepers and gardeners except farm	40.0	387	397	2,080	20,114	20,634
Supervisors, handlers, equipment cleaners, and						
laborers, N.E.C	42.5	575	555	2,212	29,902	28,834
Helpers, construction trades	40.0	418	440	2,080	21,726	22,880
Construction laborers	38.8	428	480	2,017	22,269	24,980
Stock handlers and baggers	40.0	359	352	2,080	18,672	18,304
Freight, stock, and material handlers, N.E.C	40.3	476	496	2,096	24,761	25,779
Hand packers and packagers	40.0	326	308	2,080	16,958	16,016
Laborers except construction, N.E.C.	40.0	382	332	2,080	19,854	17,264
Service occupations	39.8	322	291	2.061	16,703	15,080
Protective service occupations	41.4	442	424	2,154	22,982	22,023
Firefighting occupations	50.0	562	542	2,598	29,221	28,160
Police and detectives, public service	40.7	548	516	2,118	28,508	26,831
Guards and police except public service	40.0	353	294	2,080	18,376	15,288
Food service occupations	39.3	276	260	2,044	14,372	13,520
Supervisors, food preparation and service	00.0	210	200	2,044	14,072	10,020
occupations	41.8	627	497	2,171	32,619	25,852
Waiters and waitresses	38.5	106	85	2,002	5,515	4,430
Cooks	39.4	335	334	2.049	17.428	17.367
Food preparation occupations, N.E.C.	39.1	253	244	2,033	13,143	12,705
Health service occupations	38.8	298	290	2,033	15,507	15.080
Nursing aides, orderlies and attendants	38.6	291	285	2.009	15,115	14,830
Cleaning and building service occupations	39.7	318	290	2,064	16,545	15,080
Supervisors, cleaning and building service				,	·	•
workers	39.6	375	346	2,061	19,480	17,992
Janitors and cleaners	39.8	325	302	2,067	16,920	15,704
Personal service occupations	39.6	280	266	2,000	14,125	13,624

¹ Earnings are the straight-time wages or salaries paid to employees. They include incentive pay, cost-of-living adjustments, and hazard pay. Excluded are premium pay for overtime, vacations, 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. The median designates position--one-half of the workers receive the same as or more, and one-half receive the same as or less than the rate shown.

NOTE: Dashes indicate that no data were reported or that data did not meet publication criteria. Overall occupational groups and occupational levels may include data for categories not shown separately. N.E.C. means "not elsewhere classified"

position—one-hall of the workers receive the same as of more, and one-hall receive the same as or less than the rate shown.

2 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.

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

3 A classification system including about 480 individual occupations is used to cover all workers in the civilian economy. Individual occupations are classified into one of nine major occupational groups.

 $^{^{4}\,}$ Mean weekly hours are the hours an employee is scheduled to work in a week, exclusive of overtime.

Table B-1. Mean hourly earnings¹ by occupational group and levels², all industries, private industry, State and local government, full-time and part-time workers, Knoxville, TN, February 1999

		All workers 4	1	All industries		
Occupational group ³ and level	All indus- tries	Private industry	State and local government	Full-time workers	Part-time workers	
All occupations	\$13.39	\$12.83	\$15.86	\$13.87	\$7.08	
All occupations excluding sales	13.52	12.93	15.88	13.98	6.90	
White-collar occupations	16.51	15.92	18.27	16.96	9.47	
Level 1	6.34	6.22	10.27	6.14	6.48	
Level 2	7.22	7.11	7.62	7.25	7.08	
Level 3	8.32	8.22	9.69	8.48	7.26	
Level 4	9.90	9.87	10.00	9.93	9.33	
Level 5	13.43	13.80	11.73	13.49	_	
Level 6	14.09	14.28	13.38	14.14	_	
Level 7	16.32	16.50	15.70	16.36	_	
Level 8	20.15	18.42	21.73	20.26	17.95	
Level 9	23.64	23.01	25.77	23.64	_	
Level 10	25.48	25.31	25.73	25.33	_	
Level 11	27.66	31.03	22.10	27.47	_	
Level 12	34.99	35.42	34.13	34.99	_	
Level 13	38.45	38.44	-	38.45	-	
Not able to be leveled	23.41	29.02	_	26.04	8.03	
White-collar occupations excluding sales	17.42	17.05	18.30	17.79	10.18	
Level 1	6.55	_	_		_	
Level 2	7.60	7.58	7.62	7.64	7.40	
Level 3	8.82	8.73	9.72	8.92	7.72	
Level 4	10.07	10.11	10.00	10.05	10.80	
Level 5	13.05	13.43	11.73	13.09	_	
Level 6	13.74	13.86	13.38	13.79	_	
Level 7	16.30	16.50	15.70	16.34	_	
Level 8	19.94	17.51	21.73	20.06	17.95	
Level 9	23.70	23.07	25.77	23.70	_	
Level 10	25.34	25.00	25.73	25.17	_	
Level 11	27.03	30.28	22.10	27.04	_	
Level 12	34.99	35.42	34.13	34.99	_	
Level 13	38.45	38.44	_	38.45	_	
Not able to be leveled	23.99	30.81	_	26.26	8.25	
Professional specialty and technical occupations	20.41	20.32	20.59	20.59	14.87	
Professional specialty occupations	22.14	22.55	21.58	22.32	16.55	
Level 5	12.49	_	11.35	12.54	_	
Level 6	14.33	14.47		14.67	_	
Level 7	16.57	16.74	16.22	16.66	_	
Level 8	20.68	17.78	22.23	20.84	18.17	
Level 9	23.68	23.01	25.35	23.69	_	
Level 10	26.48	26.75	_	26.22	_	
Level 11	26.49	30.72	_	26.49	_	
Engineers, architects, and surveyors	26.76	26.97	_	26.70	_	
Level 7	17.07	17.07	_	17.07	-	
Level 9	22.96	22.96	_	22.98	-	
Level 10	28.35	_	_	_	_	
Level 11		31.40	_	31.40	-	
Mathematical and computer scientists	23.44	24.41	_	23.44	-	
Natural scientists	24.58	26.75	_	24.58		
Health related occupations	19.91	19.72	_	20.11	17.08	
Level 7	16.24	16.39	_	16.44		
Level 8	17.71	17.64	_	17.61	18.11	
Teachers, college and university		_		-	-	
Teachers, except college and university	22.68	_	22.72	22.89	-	
Level 7	24.09	_	_	24.09	-	
Level 8 Level 9	22.61	_	2F 16	2F 16	-	
	25.16	_	25.16	25.16	_	
Librarians, archivists, and curators		_	_	_	-	
Social religious and recreation workers		I -			-	
Social, religious, and recreation workers Lawyers and judges	12.95	_	13.63	13.02	_	
Writers, authors, entertainers, athletes, and	_	_	_	_	_	
professionals, N.E.C	18.69	18.69		18.69	_	
Technical occupations	15.37	15.97	11.46	15.53	10.61	
1 501 II II I I I I I I I I I I I I I I I I	13.37	13.91	11.40	10.00	10.01	

Table B-1. Mean hourly earnings¹ by occupational group and levels², all industries, private industry, State and local government, full-time and part-time workers, Knoxville, TN, February 1999 — Continued

		All workers '	1	All industries		
Occupational group ³ and level	All indus- tries	Private industry	State and local government	Full-time workers	Part-time workers	
White-collar occupations (-Continued)						
Technical occupations (-Continued) Level 4	\$10.29	\$11.14		\$10.30		
Level 5	12.45	12.60	_	12.52	_	
Level 6	14.01	14.51	_	13.97	_	
Level 7	17.89	17.89	_	17.89	_	
Level 8	17.76	17.46	_	17.76	_	
Level 9	23.61	23.61	-	23.61	_	
Executive, administrative, and managerial occupations	24.35	24.80	\$23.32	24.41	_	
Level 5 Level 7	14.80 13.84	14.87	_	14.80 13.84	_	
Level 8	17.46	16.64	18.44	17.52	_	
Level 9	23.97	23.27	-	23.97	_	
Level 10	24.02	-	_	24.02	-	
Level 11	28.61	27.87	-	28.74	-	
Level 12	36.63	38.18		36.63	-	
Executives, administrators, and managers	28.14	27.80	29.02	28.17	-	
Level 8	16.79	-	_	16.79	_	
Level 9	23.67	22.77	_	23.67	_	
Level 10 Level 11	24.02 29.06	28.43	_	24.02 29.06	_	
Level 12	36.63	38.18	_	36.63	_	
Management related occupations	18.09	19.44	15.41	18.08	_	
Level 5	13.70	_	_	13.70	_	
Level 7	13.84	_	_	13.84	_	
Level 9	24.66	_	_	24.66	_	
Sales occupations	11.93	11.95	_	12.48	\$8.13	
Level 2	6.43	6.40	_	-		
Level 3 Level 4	6.83 9.48	6.81 9.48	_	6.82 9.61	6.85	
Level 5	14.88	14.88	_	15.00	_	
Level 6	15.48	15.48	_	15.48	_	
Level 8	22.14	22.14	_	22.14	_	
Administrative support occupations, including clerical	10.23	10.16	10.47	10.49	7.48	
Level 1	6.55					
Level 2	7.60	7.58	7.62	7.64	7.40	
Level 4	8.84	8.73	10.02	8.92	7.90	
Level 5	10.01 13.54	9.97 13.85	10.09 12.68	10.01 13.54	_	
Level 6	13.70	13.36	14.80	13.71	_	
Level 7	15.67	15.62	-	15.67	_	
Blue-collar occupations	11.85	11.81	12.31	11.98	7.27	
Level 1	8.27	8.27	-	8.63	-	
Level 2	8.64	8.62	10.90	8.65	- 0.26	
Level 3 Level 4	10.36 11.07	10.34 11.24	10.80 9.99	10.39 11.07	9.36	
Level 5	12.73	12.81	12.17	12.73	_	
Level 6	16.14	16.32	14.69	16.14	_	
Level 7	16.33	16.17	17.38	16.33	_	
Level 8	22.10	22.08	_	22.10	_	
Level 9	21.37	21.05	_	21.37	_	
Precision production, craft, and repair occupations	14.89	15.13	13.79	14.89	-	
Level 2	8.83	14.00	_	8.83	-	
Level 4	11.17 10.64	11.06 10.79	10.38	11.17 10.64		
Level 5	12.59	12.73	12.25	12.59	-	
Level 6	14.91	14.87	-	14.91	_	
Level 7	16.36	16.17	17.60	16.36	-	
Level 8	22.10	22.08	-	22.10	_	
Level 9	21.37	21.05	-	21.37	-	
Machine operators, assemblers, and inspectors	10.54	10.54	-	10.59	7.24	
Level 1 Level 2	8.81	8.81	-	8.90	-	
	8.76	8.76	_	8.80	_	

Table B-1. Mean hourly earnings¹ by occupational group and levels², all industries, private industry, State and local government, full-time and part-time workers, Knoxville, TN, February 1999 — Continued

		All workers 4	1	All industries		
Occupational group ³ and level	All indus- tries	Private industry	State and local government	Full-time workers	Part-time workers	
Blue-collar occupations (-Continued) Machine operators, assemblers, and inspectors (-Continued) Level 3 Level 4 Level 5 Transportation and material moving occupations Level 2 Level 3 Level 4 Level 5 Level 6 Handlers, equipment cleaners, helpers, and laborers Level 2 Level 3 Level 4 Level 5 Level 6 Handlers, equipment cleaners, helpers, and laborers Level 2 Level 3 Level 4	\$10.19 11.59 13.25 11.78 9.19 9.94 10.85 11.74 18.57 9.54 7.70 8.19 10.52 10.37	\$10.19 11.59 13.25 11.86 9.19 - 11.00 11.72 18.57 9.52 7.68 8.15 10.53 11.01	- - - \$10.39 - - - - - 9.69 - -	\$10.22 11.59 13.25 11.80 9.19 9.95 10.85 11.74 18.57 9.83 8.42 8.15 10.57 10.37	- - - - - - - - \$7.07	
Level 5 Service occupations Level 1 Level 2 Level 3 Level 4 Level 5 Level 6 Level 7 Protective service occupations Level 4 Level 5 Level 6 Level 7 Food service occupations Level 1 Level 2 Level 2 Level 3 Cleaning and building service occupations Level 1 Level 2 Level 3 Cleaning and building service occupations Level 1 Level 2 Level 3 Cleaning and building service occupations Level 1 Level 2	7.51 6.18 5.71 6.94 8.98 12.79 11.49 13.34 10.58 10.17 13.96 11.51 12.05 5.92 5.08 3.70 4.13 8.68 7.68 7.86 7.90 7.13	6.85 5.93 5.45 6.92 8.53 8.75 5.87 5.08 3.59 4.13 8.77 7.68 7.86 7.49 6.94 6.77	10.17 7.45 8.23 - 10.01 11.99 11.51 12.05 11.68 10.14 - 11.51 12.05 - - - - 8.88	8.10 6.42 6.52 7.32 9.13 12.83 11.67 13.34 10.67 10.17 - 11.66 12.05 7.03 5.30 4.97 4.53 8.85 7.69 7.87 8.02 7.32 7.14	4.71 5.03 3.86 4.57 - - 8.24 - - 3.70 - 3.15 - - -	

¹ Earnings are the straight-time hourly wages or salaries paid to employees. They include incentive pay, cost-of-living adjustments, and hazard pay. Excluded are premium pay for overtime, vacations, 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.

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.

NOTE: Dashes indicate that no data were reported or that data did not meet publication criteria. Overall occupational groups and occupational levels may include data for categories not shown separately. N.E.C. means "not elsewhere classified."

workers, weighted by hours.

² Each occupation for which wage 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 ranking within each factor. The points are summed to determine the overall level of the occupation. See technical note for more information.

determine the overall level of the occupation. See technical note for more information.

3 A classification system including about 480 individual occupations is used to cover all workers in the civilian economy. Individual occupations are classified into one of nine major occupational groups.

4 All workers include full-time and part-time workers. Employees

⁴ All workers include full-time and part-time workers. Employees are classified as working either a full-time or a part-time schedule

Table B-2. Mean hourly earnings¹ for selected occupations and levels², all industries, private industry, State and local government, full-time and part-time workers, Knoxville, TN, February 1999

		All workers4	All industries		
Occupation ³ and level	All indus- tries	Private industry	State and local government	Full-time workers	Part-tim worker
White-collar occupations:					
Professional specialty and technical occupations:					
Professional specialty occupations:					
Civil engineers	\$27.70	_	_	\$27.02	_
Industrial engineers	20.48	\$20.48	_	20.51	_
Engineers, N.E.C.	28.62	28.62	_	28.62	_
Computer systems analysts and scientists	23.14	23.38	_	23.14	_
Registered nurses	16.97	16.87	_	16.91	\$17.3
Level 7	16.43	16.41	_	16.62	-
Level 8	17.83	17.77	_	17.75	18.1
Elementary school teachers	24.73		\$24.77	24.73	
Level 9	24.94	_	24.94	24.94	_
Secondary school teachers	23.94	_	23.94	23.94	_
Social workers	13.03	_	13.81	13.12	_
Technical occupations:	. 5.00				
Licensed practical nurses	11.61	11.78	_	11.84	_
Level 5	11.55	11.80	_	11.65	_
Health technologists and technicians, N.E.C	13.68	14.50	10.55	13.77	_
Electrical and electronic technicians	15.53	17.37	_	15.53	_
Engineering technicians, N.E.C.	17.84	18.29	_	17.84	_
Drafters	16.35	16.35	_	16.35	_
Executive, administrative, and managerial occupations:					
Administrators and officials, public administration	27.39	_	27.39	27.39	_
Personnel and labor relations managers	22.29	23.05		22.29	_
Administrators, education and related fields	32.05	_	32.05	32.05	_
Managers and administrators, N.E.C.	33.79	33.64	_	33.79	_
Level 9	20.05	20.05	_	20.05	_
Level 12	39.91		_	39.91	_
Other financial officers	16.91	15.80	_	16.74	_
Management related occupations, N.E.C	25.78	_	_	25.78	_
Supervisors, sales occupations	16.14	16.14	_	16.14	_
Sales occupations, other business services	20.02	20.02	_	18.04	_
Sales representatives, mining, manufacturing,					
and wholesale	19.52	19.52	_	19.52	-
Sales workers, motor vehicles and boats	14.57	14.57	_	14.57	-
Cashiers	6.33	6.31	_	6.42	6.1
Administrative support occupations, including clerical:					
Secretaries	10.51	10.22	10.89	10.66	-
Level 3	8.81	8.82	-	8.97	-
Level 4	10.23	10.33	10.18	10.23	-
Level 6	13.50		-	13.50	-
Receptionists	8.08	8.18	_	8.25	-
Records clerks, N.E.C.	13.38	13.38	_	13.38	-
Bookkeepers, accounting and auditing clerks	11.08	11.33	_	11.08	-
Level 4	10.39	_	_	10.39	-
Telephone operators	9.43	_	_		-
Dispatchers	10.35	_	_	10.35	-
Production coordinators	13.70	13.70	_	13.70	-
Traffic, shipping and receiving clerks	10.28	10.28	_	10.28	-
Stock and inventory clerks	9.44	9.57	_	9.57	-
Level 4	9.25	9.25		9.25	-
Meter readers	14.74	-	14.74	14.74	-
Investigators and adjusters except insurance	10.65	10.65	_	10.65	-
Bill and account collectors	12.21	12.20		12.21	-
General office clerks	10.04	10.08	9.96	10.19	-
Level 4	8.98	9.05		9.32	-
Level 4	9.94	10.31	9.53	9.94	-
Bank tellers	8.08	8.08	_	8.08	-
Data entry keyers	8.43	8.43	_	8.77	-
Level 3	8.63	8.63	7 07	_	-
Teachers' aides	7.87	8.85	7.87 11.84	9.96	8.7
Administrative support occupations, N.E.C	9.85				

Table B-2. Mean hourly earnings¹ for selected occupations and levels², all industries, private industry, State and local government, full-time and part-time workers, Knoxville, TN, February 1999 — Continued

		All workers ⁴	-	All industries		
Occupation ³ and level	All indus- tries	Private industry	State and local government	Full-time workers	Part-tim workers	
Blue-collar occupations:						
Precision production, craft, and repair occupations:						
Automobile mechanics	\$19.24	_	_	\$19.24	_	
Industrial machinery repairers	15.88	\$15.88	_	15.88	_	
Mechanics and repairers, N.E.C.	12.52	13.47	_	12.52	_	
Electrical power installers and repairers	14.20	_	\$14.48	14.20	_	
Supervisors, production occupations	18.36	18.36	_	18.36	_	
Level 7	18.00	18.00	_	18.00	_	
Machinists	15.04	15.04	_	15.04	_	
Inspectors, testers, and graders	12.16	12.16	_	12.16	_	
Water and sewer treatment plant operators	12.19	-	12.19	12.19	_	
Machine operators, assemblers, and inspectors:	12.19	_	12.19	12.19	_	
Fabricating machine operators, N.E.C.	11.01	11.01		11.01		
	-	-	_		_	
Level 4	11.41	11.41	_	11.41	-	
Textile sewing machine operators	8.37	8.37	-	8.37	-	
Packaging and filling machine operators	9.13	9.13	-	9.13	-	
Furnace, kiln, and oven operators, except food	13.52	13.52	_	13.52	-	
Miscellaneous machine operators, N.E.C	10.91	10.89	_	11.06	-	
Level 2	7.50	7.50	_	_	_	
Assemblers	10.09	10.09	_	10.15	_	
Level 2	9.69	9.69	_	9.72	_	
Production inspectors, checkers and examiners	11.23	11.23	_	11.57	_	
Transportation and material moving occupations:	11.20	11.20		11.07		
Truck drivers	12.04	12.10	_	12.06	_	
Level 4	10.19	10.18	_	10.19	_	
			_	11.09	_	
Industrial truck and tractor equipment operators	11.09	11.09	_	11.09	_	
Handlers, equipment cleaners, helpers, and laborers:						
Groundskeepers and gardeners except farm	9.67	_	_	9.67	_	
Supervisors, handlers, equipment cleaners, and						
laborers, N.E.C	13.52	13.56	_	13.52	-	
Helpers, construction trades	10.45	10.45	_	10.45	-	
Construction laborers	11.04	_	_	11.04	-	
Stock handlers and baggers	8.16	8.01	_	8.98	_	
Freight, stock, and material handlers, N.E.C	11.19	11.19	_	11.81	_	
Hand packers and packagers	8.09	8.09	_	8.15	_	
Laborers except construction, N.E.C.	9.41	9.69	_	9.55	_	
Level 2	7.89	-	_	7.89	_	
Service occupations:						
Protective service occupations:			1			
Firefighting occupations	11.25	_	11.25	11.25	l _	
Police and detectives, public service	13.46	_	13.46	13.46	-	
Guards and police except public service	8.82	- 8.67	13.40	8.83	-	
	0.02	0.07	-	0.03	-	
Food service occupations:			1			
Supervisors, food preparation and service	44.00	44.00	1	45.00		
occupations	14.63	14.63	-	15.02		
Waiters and waitresses	2.67	2.67	-	2.75	\$2.4	
	2.43	2.43	-	_	-	
Level 1		0.00	-	-	-	
Level 1 Level 3	2.98	2.98		8.50	-	
		2.98 8.19	_	0.50		
Level 3	2.98		_	8.92	-	
Level 3	2.98 8.17	8.19	_ _ _		_	
Level 3 Cooks Level 4 Kitchen workers, food preparation	2.98 8.17 8.90 7.27	8.19 9.04 7.31	- - -	8.92 -	- - -	
Level 3 Cooks Level 4 Kitchen workers, food preparation Food preparation occupations, N.E.C.	2.98 8.17 8.90 7.27 4.43	8.19 9.04 7.31 4.35	- - - -	8.92 - 6.46	- - -	
Level 3 Cooks Level 4 Kitchen workers, food preparation Food preparation occupations, N.E.C. Level 1	2.98 8.17 8.90 7.27	8.19 9.04 7.31	- - - -	8.92 -	- - - -	
Level 3	2.98 8.17 8.90 7.27 4.43 6.18	8.19 9.04 7.31 4.35 6.18	- - - - -	8.92 - 6.46 6.34	- - - -	
Level 3	2.98 8.17 8.90 7.27 4.43 6.18	8.19 9.04 7.31 4.35 6.18	- - - -	8.92 - 6.46 6.34 7.53	- - - -	
Level 3	2.98 8.17 8.90 7.27 4.43 6.18	8.19 9.04 7.31 4.35 6.18	- - - -	8.92 - 6.46 6.34	- - - -	
Level 3	2.98 8.17 8.90 7.27 4.43 6.18	8.19 9.04 7.31 4.35 6.18	- - - -	8.92 - 6.46 6.34 7.53	- - - -	
Level 3	2.98 8.17 8.90 7.27 4.43 6.18 7.54 7.70	8.19 9.04 7.31 4.35 6.18	- - - - -	8.92 - 6.46 6.34 7.53 7.68	- - - - -	
Level 3 Cooks Level 4 Kitchen workers, food preparation Food preparation occupations, N.E.C. Level 1 Health service occupations: Nursing aides, orderlies and attendants Level 3 Cleaning and building service occupations: Supervisors, cleaning and building service workers	2.98 8.17 8.90 7.27 4.43 6.18 7.54 7.70	8.19 9.04 7.31 4.35 6.18 7.54 7.70	- - - - -	8.92 - 6.46 6.34 7.53	- - - - -	
Level 3	2.98 8.17 8.90 7.27 4.43 6.18 7.54 7.70	8.19 9.04 7.31 4.35 6.18	- - - - - - - 8.11	8.92 - 6.46 6.34 7.53 7.68	- - - - -	
Level 3 Cooks Level 4 Kitchen workers, food preparation Food preparation occupations, N.E.C. Level 1 Health service occupations: Nursing aides, orderlies and attendants Level 3 Cleaning and building service occupations: Supervisors, cleaning and building service workers	2.98 8.17 8.90 7.27 4.43 6.18 7.54 7.70	8.19 9.04 7.31 4.35 6.18 7.54 7.70	- - - - - - - - 8.11	8.92 - 6.46 6.34 7.53 7.68	- - - - -	
Level 3	2.98 8.17 8.90 7.27 4.43 6.18 7.54 7.70	8.19 9.04 7.31 4.35 6.18 7.54 7.70	- - - - - - - - 8.11	8.92 - 6.46 6.34 7.53 7.68 9.45 8.19	- - - - -	

Table B-2. Mean hourly earnings1 for selected occupations and levels2, all industries, private industry, State and local government, full-time and part-time workers, Knoxville, TN, February 1999 — Continued

		All workers ⁴	All industries		
Occupation ³ and level	All indus- tries	Private industry	State and local govern-ment	Full-time workers	Part-time workers
Service occupations: (-Continued) Personal service occupations: Supervisors, personal service occupations Service occupations, N.E.C.		_ \$6.08	_ _ _	- -	- -

¹ Earnings are the straight-time hourly wages or salaries paid to 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, holidays, nonproduction bonuses, and tips. The mean is computed by totaling the pay of all workers and dividing by the number of workers, weighted by hours.

2 Each occupation for which wage 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 ranking within each factor. The points are summed to determine the overall level of the occupation. See technical note for

determine the overall level of the occupation. See technical note for more information.

3 A classification system including about 480 individual occupations is used to cover all workers in the civilian economy. Individual occupations are classified into one of nine major occupational groups.

⁴ 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.

NOTE: Dashes indicate that no data were reported or that data did not meet publication criteria. Overall occupational groups and occupational levels may include data for categories not shown separately. N.E.C. means "not elsewhere classified."

Table C-1. Mean hourly earnings1 by occupational group and selected characteristics, all industries, Knoxville, TN, February 1999

Occupational group ²	Full-time workers ³	Part-time workers ³	Union ⁴	Nonunion ⁴	Time ⁵	Incentive ⁵
All occupations	\$13.87 13.98	\$7.08 6.90	\$13.29 13.28	\$13.40 13.55	\$13.36 13.56	\$13.94 12.68
White-collar occupations	16.96 17.79	9.47 10.18	13.70 13.62	16.61 17.59	16.60 17.47	15.12 13.16
Professional specialty and technical occupations	24.41 12.48	14.87 16.55 10.61 - 8.13	15.06 - 13.53 - -	20.66 22.21 15.63 24.35 11.91	20.47 22.19 15.43 24.35 10.21	- - - - 15.46
Administrative support including clerical occupations Blue-collar occupations Precision production, craft, and repair occupations Machine operators, assemblers, and inspectors Transportation and material moving occupations Handlers, equipment cleaners, helpers, and laborers	10.49 11.98 14.89 10.59 11.80 9.83	7.48 7.27 - 7.24 - 7.07	11.71 13.31 16.17 11.99 15.48 10.93	10.15 11.43 14.62 9.92 10.91 9.18	10.15 11.76 14.76 10.69 11.74 9.38	13.03 15.75 8.80 –
Service occupations		4.71	-	7.48	7.48	_

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

incentive workers are those whose wages are at least partially based on productivity payments such as piece rates, commissions, and production

NOTE: Dashes indicate that no data were reported or that data did not meet publication criteria. Overall occupational groups and occupational levels may include data for categories not shown separately. N.E.C. means "not elsewhere classified."

of all workers and dividing by the number of workers, weighted by hours.

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

classified into one of nine major occupational groups. 3 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.

⁴ Union workers are those whose wages are determined through collective bargaining.

Time workers' wages are based solely on an hourly rate or salary;

Table C-2. Mean hourly earnings¹ by occupational group and industry division, private industry, all workers², Knoxville, TN, February 1999

		Good	s-produc	ing indus	stries ⁴	Service-producing industries ⁵				₅ 5
Occupational group ³	All private industries	Total	Mining	Con- struc- tion	Manu- factur- ing	Total	Transportation and public utilities	Whole- sale and retail trade	Fin- ance, insur- ance, and real estate	Serv- ices
All occupations	\$12.83 12.93	\$14.87 14.80	- -	\$13.07 13.07	\$15.12 15.05	\$11.71 11.74	\$14.86 14.46	- -	\$10.26 10.45	\$12.61 12.59
White-collar occupations	15.92 17.05	21.41 21.51	- -	16.81 16.81	21.63 21.75	14.36 15.39	17.98 17.22	- -	10.20 10.38	16.47 16.50
Professional specialty and technical occupations Professional specialty occupations	20.32 22.55	25.16 27.59	_ _	_ _	25.28 27.65	18.40 20.40	17.24	_ _	_ _	18.49 20.37
Technical occupations Executive, administrative, and managerial occupations	15.97 24.80	19.58 26.79	_	_	19.74 26.43	14.74 23.67	15.45 25.78	_	16.05	14.59 28.02
Sales occupations Administrative support, including clerical occupations	11.95 10.16	19.50 12.61	_	_	19.50 12.78	11.56 9.45	23.47 12.79	_	8.36	9.57
Blue-collar occupations	11.81 15.13 10.54	12.22 15.30 10.93	- - -	12.61 13.78	12.14 16.04 10.93	11.02 14.61 7.51	13.08 14.97	_ 	_ _	8.64 13.40
Transportation and material moving occupations	11.86 9.52	11.28 10.51	_ _ _	_ _ 10.18	11.29 10.59	12.09 8.63	13.30 11.77	_ _ _	_ _	- 7.19
Service occupations	6.85	12.95	_	_	12.95	6.56	_	_	_	7.03

¹ Earnings are the straight-time hourly wages or salaries paid to employees. They include incentive pay, cost-of-living adjustments, and hazard pay. Excluded are premium pay for overtime, vacations, 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.

NOTE: Dashes indicate that no data were reported or that data did not meet publication criteria. Overall occupational groups and occupational levels may include data for categories not shown separately. N.E.C. means "not elsewhere classified."

weighted by hours.

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.

A classification system including about 480 individual occupations is used to cover

³ A classification system including about 480 individual occupations is used to cover all workers in the civilian economy. Individual occupations are classified into one of nine major occupational groups.

Goods-producing industries include mining, construction, and manufacturing.

⁵ Service-producing industries include transportation and public utilities; wholesale and retail trade; finance, insurance, and real estate; and services.

Table C-3. Mean hourly earnings¹ by occupational group and establishment employment size, private industry, all workers², Knoxville, TN, February 1999

	All private		100 workers or more				
Occupational group ³		50 - 99 workers	Total	100 - 499 workers	500 workers or more		
All occupations All occupations excluding sales	\$12.83 12.93	\$11.25 11.18	\$13.36 13.44	\$12.22 12.28	\$15.71 15.63		
White-collar occupations		13.86 15.70	16.55 17.32	15.10 16.04	19.42 19.35		
Professional specialty and technical occupations	22.55 15.97 24.80	21.49 22.11 19.78 29.99 11.56 9.66	20.21 22.59 15.71 23.53 12.29 10.33	19.49 21.84 14.62 22.38 11.70 9.48	21.12 23.59 16.91 25.50 – 12.29		
Blue-collar occupations	15.13 10.54 11.86	11.06 13.95 10.72 10.23 8.63	12.05 15.58 10.50 12.56 9.92	11.14 14.06 10.04 11.33 9.64	13.78 17.60 11.17 17.60 10.82		

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

2 All workers include full-time and part-time workers. Employees

Individual occupations are classified into one of nine major occupational groups.

NOTE: Dashes indicate that no data were reported or that data did not meet publication criteria. Overall occupational groups and occupational levels may include data for categories not shown separately. N.E.C. means "not elsewhere classified."

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.

schedule.

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

Table C-4. Number of workers¹ represented by occupational group, Knoxville, TN, February 1999

		All workers	
Occupational group ²	All industries	Private industry	State and local govern-ment
All occupations All occupations excluding sales		121,925 109,556	30,127 30,047
White-collar occupations	75,810 63,361	55,062 42,693	20,748 20,668
Professional specialty and technical occupations Professional specialty occupations Technical occupations Executive, administrative, and managerial occupations Sales occupations Administrative support including clerical occupations	25,519 7,961 7,962	20,523 13,641 6,882 5,508 12,369 16,661	12,957 11,878 1,079 2,454 - 5,257
Blue-collar occupations Precision production, craft, and repair occupations Machine operators, assemblers, and inspectors Transportation and material moving occupations Handlers, equipment cleaners, helpers, and laborers		42,408 11,027 15,574 7,492 8,315	4,161 2,459 - 665 1,003
Service occupations	29,673	24,455	5,218

Both full-time and part-time workers were included in the survey. 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 establishment, where a 40-hour week is the minimum full-time schedule.

NOTE: Dashes indicate that no data were reported or that data did not meet publication criteria. Overall occupational groups and occupational levels may include data for categories not shown separately. N.E.C. means "not elsewhere classified."

in another establishment, where a 40-hour week is the minimum full-time schedule.

² A classification system including about 480 individual occupations is used to cover all workers in the civilian economy. Individual occupations are classified into one of nine major occupational groups.

Appendix A: Technical Note

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

Planning for the survey

The overall design of the survey includes questions of scope, frame, and sample selection.

Survey scope

This survey covered establishments employing 50 workers or more in goods-producing industries (mining, construction and manufacturing); service-producing industries (transportation, communications, electric, gas, and sanitary services; wholesale trade; retail trade; finance, insurance, and real estate; and services industries); and State and local governments. Agriculture, private households, and the Federal Government were excluded from the scope of the survey. For purposes of this survey an establishment was an economic unit which produces goods or services, a central administrative office, or an auxiliary unit providing support services to a company. For private industries in this survey, the establishment was usually at a single physical location. For State and local governments, an establishment was defined as all locations of a government entity.

The Knoxville, TN, Metropolitan Statistical Area includes Anderson, Blount, Knox, Loudon, Sevier and Union Counties.

Sampling frame

The list of establishments from which the survey sample was selected (sampling frame) was developed from State unemployment insurance reports. 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 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

The sample for this survey area was selected using a two

stage stratified design with probability proportional to employment sampling at each stage. The first stage of sample selection was a probability sample of establishments. The sample of establishments was drawn by first stratifying the sampling frame by industry and ownership. The number of sample establishments allocated to each stratum is approximately proportional to the stratum employment. Each sampled establishment is selected within a stratum with a probability proportional to its employment. Use of this technique means that the larger an establishment's employment, the greater its chance of selection. Weights were applied to each establishment when the data were tabulated so that it represents similar units (by industry and employment size) in the economy which were not selected for collection. See appendix table 1 for a count of establishments in the survey by employment size. The second stage of sample selection, detailed below, was a probability sample of occupations within a sampled establishment.

Data collection

The collection of data from survey respondents required detailed procedures. Collection was the responsibility of the field economists, working out of the Regional Office, who visited each establishment surveyed. Other contact methods, such as mail and telephone, were used to follow-up and update data.

Occupational selection and classification

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

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

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

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

with each selected worker representing a job within the establishment.

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

The number of jobs collected in each establishment was based on an establishment's employment size as shown in the following schedule:

Number of employees	Number of selected jobs
50-99	8
100-249	10
250-999	12
1000-2,499	16
2,500+	20

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

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

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

Appendix B contains a complete list of all individual occupations, classified by the MOG to which they belong. In step three, certain other job characteristics of the chosen worker were identified. First, the worker was identified as holding either a full-time or part-time job, based on the establishment's definition of those terms. Then the worker was classified as having a time versus incentive job, depending on whether any part of pay was directly based on the actual production of the worker, rather than solely on hours worked. Finally, the worker was identified as being in a union job or a nonunion job. See the "Definition of Terms" section on the following page for more detail.

Generic leveling through point factor analysis

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

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

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

Each factor contains a number of levels and each level has an associated written description and point value. The number and range of points differ among the factors. For each factor, an occupation was assigned a level based on which written description best matched the job. Within each occupation, the points for 9 factors (supervisory duties was excluded) were recorded and totaled. The total determines the overall level of the occupation. Appendix table 3 presents average work levels for published occupational groups and selected occupations. A description of the levels for each factor is shown in appendix C.

Tabulations of levels of work for occupations in the survey follow the Federal Government's white-collar General Schedule. Point ranges for each of the 15 levels are shown in appendix D. It also includes an example of a leveled job and a guide to help data users evaluate jobs in their firm.

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

research continues in the area. The results of this research will be published by BLS in the future.

Collection period

The survey data were collected over several months. For each establishment in the survey, the data reflect the establishment's most recent information at the time of collection. The payroll reference month shown in the tables reflects the average date of this information for all sample units.

Earnings

Earnings were defined as regular payments from the employer to the employee as compensation for straight-time hourly work, or for any salaried work performed. The following components were included as part of earnings:

- Incentive pay, including commissions, production bonuses, and piece rates
- Cost-of-living allowances
- Hazard pay
- Payments of income deferred due to participation in a salary reduction plan
- Deadhead pay, defined as pay given to transportation workers returning in a vehicle without freight or passengers

The following forms of payments were *not* considered part of straight-time earnings:

- Shift differentials, defined as extra payment for working a schedule that varies from the norm, such as night or weekend work
- Premium pay for overtime, holidays, and weekends
- Bonuses not directly tied to production (e.g., Christmas bonuses, profit-sharing bonuses)
- Uniform and tool allowances
- Free room and board
- Payments made by third parties (e.g., tips, bonuses given by manufacturers to department store salespeople, referral incentives in real estate)
- On-call pay

In order to calculate earnings for various time periods (hourly, weekly, and annual), data on work schedules were also collected. For hourly workers, scheduled hours worked per day and per week, exclusive of overtime, were recorded. Annual weeks worked were determined. Because salaried workers, exempt from overtime provisions, often work beyond the assigned work schedule, their typical number of hours actually worked was collected.

Definition of terms

Full-time worker. Any employee that the employer considers to be full time.

Incentive worker. Any employee whose earnings are tied, at least in part, to commissions, piece rates, production bo-

nuses, or other incentives based on production or sales.

Level. A ranking of an occupation based on the requirements of the position. (See the description in the technical note and the example for more details on the leveling process.)

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

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

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

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

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

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

Processing and analyzing the data

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

Weighting and nonresponse

Sample weights were calculated for each establishment and occupation in the survey. These weights reflected the relative size of the occupation within the establishment and of the establishment within the sample universe. Weights were used to aggregate the individual establishments or occupations into the various data series. Some of the establishments surveyed could not supply or refused to supply information. If data were not provided by a sample member, the weights of responding sample members in the same or similar "cells" were adjusted to account for the missing data. This technique assumes that the mean value of the nonrespondents equals the mean value of the respondents at some detailed "cell" level. Responding and nonresponding establishments were classified into these cells according to industry and employment size. Responding and nonresponding occupations within responding establishments were classified into cells that were additionally defined by major occupation group and job level.

Establishments that were determined to be out of busi-

ness or outside the scope of the survey had their weights changed to zero. If only partial data were given by a sample establishment or occupation, or data were missing, the response was treated as a refusal.

Survey response

	Establish-
	ments
Total in sample	267
Responding	189
Out of business or not in	
survey scope	16
Unable or refused to pro-	
vide data	62

Some surveys may have a high nonresponse rate for the all industries or private industry iterations. Such instances are noted in the bulletin table footnotes.

Estimation

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

Not all series that were calculated met the criteria for publication. Before any series was published, it was reviewed to make sure that the number of observations underlying it was sufficient. This review prevented publishing a series that could have revealed information about a specific establishment.

The number of workers estimates represent the total in all establishments within the scope of the study and not the number actually surveyed. Because occupational structures among establishments differ, estimates of the number of workers obtained from the sample of establishments serve only to indicate the relative importance of the occupational groups studied.

Data reliability

The data in this bulletin are estimates from a scientifically

selected probability sample. There are two types of errors possible in an estimate based on a sample survey, sampling and nonsampling.

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

A measure of the variation among these differing estimates is called the standard error or sampling error. It indicates the precision with which an estimate from a particular sample approximates the average result of all possible samples. The relative standard error (RSE) is the standard error divided by the estimate. Appendix table 2 contains RSE data for selected series in this bulletin. RSE data for all series in this bulletin are available on the Internet web site and by request to the BLS National Office.

The standard error can be used to calculate a "confidence interval" around a sample estimate. As an example, suppose table A-1 shows that mean hourly earnings for all workers was \$12.79 per hour, and appendix table 2 shows a relative standard error of 3.6 percent for this estimate. At the 90-percent level, the confidence interval for this estimate is \$13.55 to \$12.03 (\$12.79 plus and minus 1.645 times 3.6 percent times \$12.79). If all possible samples were selected to estimate the population value, the interval from each sample would include the true population value approximately 90 percent of the time.

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

Appendix table 1. Number of establishments studied by industry division and establishment employment size, and number of establishments represented, Knoxville, TN, February 1999

Industry	Number of establish- ments rep- resented	Number of establishments studied					
		Total studied 50 - 9 works	5000	10	100 workers or more		
			workers	Total	100 - 499 workers	500 workers or more	
All industries	870	188	62	126	90	36	
Private industry		157	58	99	76	23	
Goods-producing industries		58	15	43	29	14	
Mining		1	1	_	_	_	
Construction		8	4	4	3	1	
Manufacturing	155	49	10	39	26	13	
Service-producing industries	625	99	43	56	47	9	
Tranportation and public utilities	54	13	2	11	9	2	
Wholesale and retail trade	314	35	25	10	9	1	
Finance, insurance and real estate	25	6	2	4	3	1	
Services		45	14	31	26	5	
State and local government	42	31	4	27	14	13	

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

Appendix table 2. Relative standard errors of mean hourly earnings¹ for selected occupations, all industries, private industry, and State and local government, all workers², Knoxville, TN, February 1999

(in percent)

Occupation ³	All indus- tries	Private industry	State and local government
All occupations	2.3	2.8	4.0
All occupations excluding sales	2.5	3.0	4.0
White-collar occupations	2.8 2.8	3.6 3.6	4.4 4.4
Professional specialty and technical occupations	2.4	2.8	4.4
Professional specialty occupations	2.6	3.0	4.6
Engineers, architects, and surveyors	4.8	4.9	_
Civil engineersIndustrial engineers	12.1 7.9	- 7.9	_
Engineers, N.E.C.	7.1	7.1	_
Mathematical and computer scientists	8.0	8.0	_
Computer systems analysts and scientists	11.6	12.2	_
Natural scientists	10.0	14.4	_
Health related occupations	5.4 2.1	5.8	_
Registered nurses Teachers, college and university	Z. I –	2.2	_
Teachers, except college and university	6.2	_	6.2
Elementary school teachers	4.7	_	4.7
Secondary school teachers	2.3	_	2.3
Librarians, archivists, and curators	_	_	_
Social scientists and urban planners	_	_	_
Social, recreation, and religious workers	6.4	_	6.8
Social workers Lawyers and judges	6.6 —	_	6.9
Writers, authors, entertainers, athletes, and			
professionals, N.E.C.	6.6	6.6	_
Technical occupations	4.0	4.1	7.1
Licensed practical nurses	1.5	1.6	
Health technologists and technicians, N.E.C	6.1	6.1	12.3
Electrical and electronic technicians Engineering technicians, N.E.C.	14.4 10.6	13.7 10.9	_
Drafters	10.6	10.9	_
Executive, administrative, and managerial occupations	5.7	6.5	11.4
Executives, administrators, and managers	5.8	7.5	7.2
Administrators and officials, public administration	2.8	_	2.8
Personnel and labor relations managers	12.1	12.8	_
Administrators, education and related fields	6.6 10.7	11.0	6.6
Managers and administrators, N.E.C	9.2	10.8	10.8
Other financial officers	6.4	7.7	-
Management related occupations, N.E.C	22.5	_	_
Sales occupations	8.3	8.4	_
Supervisors, sales occupations	15.8	15.8	_
Sales occupations, other business services Sales representatives, mining, manufacturing,	15.7	15.7	_
and wholesale	8.9	8.9	_
Sales workers, motor vehicles and boats	9.4	9.4	_
Cashiers	2.7	2.7	
Administrative support occupations, including clerical Secretaries	2.3 4.3	2.7 6.3	3.7 6.2
Receptionists	4.3 3.4	3.6	0.2
Records clerks, N.E.C.	17.0	17.0	_
Bookkeepers, accounting and auditing clerks	8.2	10.2	_
Telephone operators	11.6	-	_
Dispatchers	17.0	-	-
Production coordinators	5.5	5.5	_
Traffic, shipping and receiving clerks	6.7 5.8	6.7 5.7	_
Meter readers	6.4	-	6.4
Investigators and adjusters except insurance	4.7	4.7	
Bill and account collectors	9.9	10.2	_
General office clerks	5.3	6.8	8.2
Bank tellers	3.1	3.1	1

Appendix table 2. Relative standard errors of mean hourly earnings¹ for selected occupations, all industries, private industry, and State and local government, all workers², Knoxville, TN, February 1999 — Continued

(in percent)

Occupation ³	All indus- tries	Private industry	State an local government
White-collar occupations (-Continued)			
Administrative support occupations, including clerical			
(-Continued)			
Data entry keyers	4.8	4.8	_
Teachers' aides	2.4	_	2.4
Administrative support occupations, N.E.C	7.0	4.6	6.2
Blue-collar occupations	2.2	2.4	4.9
Precision production, craft, and repair occupations	3.3	3.8	6.0
Automobile mechanics	11.2	_	_
Industrial machinery repairers	4.1	4.1	_
Mechanics and repairers, N.E.C.	7.3	10.5	_
Electrical power installers and repairers	6.2	_	6.5
Supervisors, production occupations	8.2	8.2	_
Machinists	5.4	5.4	_
Inspectors, testers, and graders	3.7	3.7	_
Water and sewer treatment plant operators	14.2	_	14.2
Machine operators, assemblers, and inspectors	3.5	3.5	_
Fabricating machine operators, N.E.C	2.7	2.7	_
Textile sewing machine operators	4.7	4.7	_
Packaging and filling machine operators	10.0	10.0	-
Furnace, kiln, and oven operators, except food	7.0	7.0	-
Miscellaneous machine operators, N.E.C	6.4	6.5	-
Assemblers	3.6	3.6	-
Production inspectors, checkers and examiners	7.7	7.7	-
Transportation and material moving occupations	4.0	4.2	6.8
Truck drivers	6.7	7.0	-
Industrial truck and tractor equipment operators	6.5	6.5	-
Handlers, equipment cleaners, helpers, and laborers	3.7	4.1	5.5
Groundskeepers and gardeners except farm	2.7	-	_
Supervisors, handlers, equipment cleaners, and		40.0	
laborers, N.E.C.	11.7	13.0	_
Helpers, construction trades	8.4	8.4	-
Construction laborers	15.7	_	_
Stock handlers and baggers	3.7	4.0	-
Freight, stock, and material handlers, N.E.C	7.5	7.5	_
Hand packers and packagers Laborers except construction, N.E.C	8.0 11.6	8.0 15.6	_
Service occupations	3.1	3.5	4.3
Protective service occupations	8.3	20.1	3.6
Firefighting occupations	5.6	_	5.6
Police and detectives, public service	5.8		5.8
Guards and police except public service	20.2	21.1	-
Food service occupations	7.5	7.7	-
Supervisors, food preparation and service			
occupations	11.9	11.9	-
Waiters and waitresses	8.8	8.8	-
Cooks	4.7	5.1	-
Kitchen workers, food preparation	4.4	4.4	_
Food preparation occupations, N.E.C	14.8	15.4	-

Appendix table 2. Relative standard errors of mean hourly earnings1 for selected occupations, all industries, private industry, and State and local government, all workers², Knoxville, TN, February 1999 — Continued

(in percent)

Occupation ³	All indus- tries	Private industry	State and local government
Service occupations (-Continued) Health service occupations Nursing aides, orderlies and attendants Cleaning and building service occupations Supervisors, cleaning and building service workers Janitors and cleaners Personal service occupations Supervisors, personal service occupations Service occupations, N.E.C.	5.0 8.2 7.1	2.1 2.1 5.8 - 9.4 5.0 - 5.2	- - 6.7 - 8.5 - -

¹ The relative standard error is the standard error expressed as a percent of the estimate. Hourly earnings for these occupations are presented in Tables

classified into one of nine major occupational groups.

NOTE: Dashes indicate that no data were reported or that data did not meet publication criteria. Overall occupational groups and occupational levels may include data for categories not shown separately. N.E.C. means "not elsewhere classified."

earnings for these occupations are presented in Tables A-1 and A-2. Reliable relative standard errors could not be determined for all occupations.

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

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

Appendix table 3. Average work levels for selected occupations, all workers, full-time and part-time workers, Knoxville, TN, February 1999

Occupation ¹	All workers	Full-time workers	Part-time workers
All occupations	5	5	3
All occupations excluding sales	5	5	3
White-collar occupations	6	7	4
White-collar occupations excluding sales	7	7	4
Professional specialty and technical occupations	8	8	7
Professional specialty occupations		9	7
Engineers, architects, and surveyors Civil engineers		10 9	_
Industrial engineers	8	8	-
Engineers, N.E.C.		11	_
Mathematical and computer scientists Computer systems analysts and scientists		9	_
Natural scientists		10	_
Health related occupations		8	8
Registered nurses Teachers, college and university		8 –	8 –
Teachers, except college and university		8	_
Elementary school teachers		8	_
Secondary school teachersLibrarians, archivists, and curators	8 –	8 –	_
Social scientists and urban planners		_	_
Social, recreation, and religious workers		7	-
Social workersLawyers and judges		7	_
Writers, authors, entertainers, athletes, and professionals,			
N.E.C.	1	7	_
Technical occupations Licensed practical nurses	1	6 5	5 _
Health technologists and technicians, N.E.C.		6	_
Electrical and electronic technicians		6	_
Engineering technicians, N.E.C		8	_
Executive, administrative, and managerial occupations	9	9	_
Executives, administrators, and managers		10	_
Administrators and officials, public administration Personnel and labor relations managers		11	_
Administrators, education and related fields	11	11	-
Managers and administrators, N.E.C		11 8	-
Other financial officers		7	_
Management related occupations, N.E.C	9	9	-
Sales occupations		5 7	3
Sales occupations, other business services		7	_
Sales representatives, mining, manufacturing, and			
wholesaleSales workers, motor vehicles and boats	6 5	6 5	_
Cashiers		2	2
Administrative support occupations, including clerical		4	2
SecretariesReceptionists		4 3	_
Records clerks, N.E.C.		4	_
Bookkeepers, accounting and auditing clerks		4	-
Telephone operators		4	_
Production coordinators		6	-
Traffic, shipping and receiving clerks		4	-
Stock and inventory clerks		3 5	_
Investigators and adjusters except insurance		5	_
Bill and account collectors	4	4	_
General office clerks	1	4 3	_
Data entry keyers		3	_
Teachers' aides			_
Administrative support occupations, N.E.C	4	4	2
Blue-collar occupations	4	4	2

Appendix table 3. Average work levels for selected occupations, all workers, full-time and part-time workers, Knoxville, TN, February 1999 — Continued

Occupation ¹	All workers	Full-time workers	Part-time workers
Blue-collar occupations (-Continued)			
Precision production, craft, and repair occupations	6	6	_
Automobile mechanics	7	7	_
Industrial machinery repairers		6	_
Mechanics and repairers, N.E.C.		5	_
Electrical power installers and repairers		5	_
Supervisors, production occupations		7	_
Machinists		6	_
Inspectors, testers, and graders		5	
Water and sewer treatment plant operators		5	_
		3	2
Machine operators, assemblers, and inspectors		4	
		3	_
Textile sewing machine operators		2	_
Packaging and filling machine operators			_
Furnace, kiln, and oven operators, except food		5	_
Miscellaneous machine operators, N.E.C.		3	_
Assemblers		3	_
Production inspectors, checkers and examiners		4	_
Transportation and material moving occupations		4	_
Truck drivers		4	_
Industrial truck and tractor equipment operators		4	_
Handlers, equipment cleaners, helpers, and laborers		3	2
Groundskeepers and gardeners except farm	3	3	_
Supervisors, handlers, equipment cleaners, and			
laborers, N.E.C.	6	6	_
Helpers, construction trades	3	3	_
Construction laborers	2	2	_
Stock handlers and baggers	2	2	_
Freight, stock, and material handlers, N.E.C	3	4	_
Hand packers and packagers		2	_
Laborers except construction, N.E.C.		2	_
Service occupations	3	3	2
Protective service occupations		5	4
Firefighting occupations		7	
Police and detectives, public service		7	_
Guards and police except public service	3	3	_
Food service occupations	3	3	2
Supervisors, food preparation and service occupations	6	6	
Waiters and waitresses		2	2
Cooks		4	_
Kitchen workers, food preparation		4	_
		2	_
Food preparation occupations, N.E.C.		1	_
Health service occupations		3	_
Nursing aides, orderlies and attendants		3	_
Cleaning and building service occupations		2	_
Supervisors, cleaning and building service workers		3	_
Janitors and cleaners		2	_
Personal service occupations		3	2
Supervisors, personal service occupations	5	-	_
Service occupations, N.E.C.	2		

A classification system including about 480 individual occupations is used to cover all workers in the civilian economy. Individual occupations are classified into one of nine major occupational groups. The occupations titled authors, musicians, actors, painters, photographers, dancers, artists, athletes, and legislators cannot be assigned a work level.

NOTE: Dashes indicate that no data were reported or that data did not meet publication criteria. Overall occupational groups and occupational levels may

include data for categories not shown separately. N.E.C. means "not elsewhere classified."