Portland-Salem, OR-WA National Compensation Survey August 1998



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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.

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Introduction

The tables in this bulletin summarize the NCS survey results for the Portland-Salem, OR-WA 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, Portland-Salem, OR-WA, August 1998

			All in	dustries		
Occupation ³				Percentil	es	
	Mean	10	25	Median 50	75	90
Il occupations	\$16.77	¢7 55	\$10.00	\$14.01	\$20.96	\$28.8
All occupations excluding sales	16.61	\$7.55 7.74	10.13	14.27	21.01	28.5
White coller accumations	19.89	0.06	11.00	1715	24.77	34.3
White-collar occupations	20.00	9.06 9.70	11.99 12.50	17.15 17.79	24.77 24.89	33.9
Professional specialty and technical occupations	24.12	14.63	18.50	22.65	28.96	35.5
Professional specialty occupations	25.47	16.78	20.19	23.92	30.22	36.2
Engineers, architects, and surveyors	28.68	21.01	22.91	26.09	31.41	41.2
Mechanical engineers	26.89	22.30	22.49	24.90	29.81	38.1
Mathematical and computer scientists	29.40	21.07	23.89	28.85	34.91	38.7
Computer systems analysts and scientists Natural scientists	30.24	21.51	24.20	29.44	35.56 –	39.2
Health related occupations	22.62	16.78	19.01	21.61	23.92	29.8
Physicians	21.54	15.25	15.46	16.78	18.68 23.71	48.0 26.7
Registered nurses Teachers, college and university	22.42 27.33	17.85 11.94	19.63 15.79	21.86	35.75	41.0
Teachers, post secondary N.E.C.	18.23	10.67	11.94	14.63	18.62	35.7
Teachers, except college and university	25.30	16.68	19.89	25.04	30.79	35.2
Prekindergarten and kindergarten	17.98	10.29	11.32	15.83	23.57	29.3
Elementary school teachers	25.93	17.81	20.21	25.99	31.77	35.2
Secondary school teachers	26.68	18.30	21.11	26.28	31.72	36.0
Teachers, special education		13.69	19.42	22.50	29.95	33.6
Teachers, N.E.C.	21.73	12.80	17.20	21.52	24.43	29.7
Substitute teachers Vocational and educational counselors	14.08	11.29	14.45 24.56	14.45	14.74	15.1
Librarians, archivists, and curators	25.38	11.48	24.50	24.77	30.55	36.0
Social scientists and urban planners	19.87	10.40	17.00	20.87	23.26	25.
Psychologists	17.71	9.45	10.82	19.10	21.44	22.3
Social, recreation, and religious workers	16.10	9.25	13.25	15.48	19.65	20.8
Social workers	16.90	13.14	14.78	16.68	19.65	20.
Lawyers and judges	_	_	_	-	-	-
Writers, authors, entertainers, athletes, and	00.04	40.00	40.40	00.00	07.40	
professionals, N.E.C.	23.34	16.89	18.49	23.38	27.12	30.0
Technical occupations Clinical laboratory technologists and technicians	19.07 15.72	11.09 11.24	13.98 12.05	18.17 13.51	23.08 19.80	26.4 21.3
Licensed practical nurses	15.72	12.12	13.54	15.32	16.74	17.2
Health technologists and technicians, N.E.C.	14.55	9.75	12.65	14.84	16.23	18.2
Electrical and electronic technicians	21.61	13.79	20.01	23.54	25.79	26.4
Computer programmers	31.04	18.37	23.08	29.95	38.41	45.3
Technical and related occupations, N.E.C	17.37	9.24	12.75	17.31	21.00	23.
Executive, administrative, and managerial occupations	27.88	15.87	18.36	25.09	34.52	42.
Executives, administrators, and managers	32.94 40.70	21.25	24.87 29.20	30.72	39.50	46.4
Administrators and officials, public administration Financial managers	33.57	23.50 21.81	29.20	42.56 33.38	43.38 36.08	79.3 48.9
Managers, marketing, advertising and public	00.07	21.01	21.01	00.00	50.00	70.
relations	40.07	31.67	36.18	39.92	45.21	48.
Administrators, education and related fields	32.99	17.11	21.54	31.11	43.19	46.9
Managers and administrators, N.E.C	32.53	23.20	24.87	29.68	37.02	42.
Management related occupations	19.86	15.09	17.15	18.27	22.61	27.
Accountants and auditors	18.81	15.00	15.09	17.91	20.76	26.4
Other financial officersPersonnel, training, and labor relations	23.38	11.64	22.80	25.00	26.68	28.0
specialists	17.34	16.35	16.35	17.31	17.88	18.
Management related occupations, N.E.C.	20.79	17.15	17.15	17.15	22.85	29.
Sales occupations	19.03	6.50	8.26	11.91	18.22	39.0
Supervisors, sales occupations	22.51	11.00	12.30	17.31	35.14	38.4
Sales workers, apparel		5.96	6.27	8.38	10.28	11.4
Sales workers, other commodities	8.26	6.17	6.50	7.32	9.80	10.
Cashiers	9.61	6.25	6.76	8.26	13.30	14.8
Administrative support occupations, including clerical Supervisors, general office	12.62 16.68	8.54 12.03	9.96 15.37	12.20 15.37	14.78	17.3 21.9
Supervisors, general office	13.18	10.00	11.65	12.80	19.02 14.56	16.2
Receptionists	10.86	8.99	10.00	11.49	12.18	12.3
Information clerks, N.E.C.	13.15	6.00	10.00	13.50	17.46	18.
Order clerks	11.84	8.52	9.57	11.67	12.98	16.8

Table A-1. Hourly earnings $^{\rm 1}$ for selected occupations, all workers $^{\rm 2}$, all industries, Portland-Salem, OR-WA, August 1998 — Continued

			All in	dustries		
Occupation ³				Percentil	es	
	Mean	10	25	Median 50	75	90
Militar allega accomplished (Continued)						
White-collar occupations (-Continued) Administrative support occupations, including clerical (-Continued)						
Personnel clerks except payroll and timekeeping	\$14.36	\$10.15	\$12.29	\$14.66	\$16.97	\$16.
Library clerks Records clerks, N.E.C	11.59 12.41	9.45 9.35	10.57 10.52	11.53 12.21	13.21 14.28	13. 14.
Bookkeepers, accounting and auditing clerks	12.41	9.68	10.32	12.49	14.20	17.
Traffic, shipping and receiving clerks	12.42	9.02	10.39	12.10	13.84	17.
Stock and inventory clerks	11.19	7.23	8.00	10.08	13.50	17.
Insurance adjusters, examiners, and investigators	17.07	13.07	15.55	16.46	18.00	21.
Investigators and adjusters except insurance	12.62	8.65	8.71	12.65	15.30	17.
General office clerks	11.21	7.88	9.28	11.11	12.86	14.
Data entry keyers Teachers' aides	11.32	7.81	9.42	10.01	15.94	15.
Administrative support occupations, N.E.C.	11.37 14.44	8.54 9.83	9.82 11.42	11.15 14.32	12.76 17.58	13. 18.
Blue-collar occupations	13.71	7.55	9.49	13.01	16.79	21.
Precision production, craft, and repair occupations Supervisors, mechanics and repairers	16.53 26.05	9.11 20.14	12.77 21.63	15.91 22.60	20.78 32.70	23. 38.
Industrial machinery repairers	18.47	15.85	16.12	17.95	21.34	23.
Mechanics and repairers, N.E.C.	14.58	9.11	12.33	14.52	16.78	18.
Electricians	20.88	9.18	21.23	23.40	23.89	23.
Construction trades, N.E.C.	16.46 21.30	12.54	14.60	17.00	18.43 23.00	18.
Supervisors, production occupations Machinists	20.57	14.00 16.04	16.05 16.56	19.25 18.69	25.24	34. 27.
Electrical and electronic equipment assemblers	10.65	7.38	8.15	10.03	12.95	15.
Inspectors, testers, and graders	14.34	10.47	12.70	14.03	16.90	18.
Machine operators, assemblers, and inspectors	12.23	7.26	8.83	11.49	14.95	18.
Numerical control machine operators Fabricating machine operators, N.E.C	15.89 15.32	9.75	13.39 11.49	16.74 13.98	16.74 19.72	23. 19.
Molding and casting machine operators	11.97	6.93	7.49	13.35	14.75	15.
Printing press operators	19.75	15.86	17.63	17.95	18.03	28.
Packaging and filling machine operators	10.33 11.93	6.26 8.47	6.45 9.36	8.95 11.93	12.44 13.20	17. 16.
Miscellaneous machine operators, N.E.C Welders and cutters	14.49	11.45	12.74	15.03	16.53	17.
Assemblers	10.94	7.55	8.43	9.89	12.13	18.
Miscellaneous hand working occupations, N.E.C.	8.66	6.02	6.18	8.73	10.66	11.
Production inspectors, checkers and examiners	11.42 12.53	8.30 8.48	9.15 9.00	11.22 10.60	13.11 16.05	13. 17.
Production testers Transportation and material moving occupations	16.77	10.40	13.25	16.22	22.11	23.
Truck drivers	17.60	12.11	14.00	16.89	22.11	22.
Bus drivers	14.61	10.96	12.43	16.08	16.92	16.
Industrial truck and tractor equipment operators Handlers, equipment cleaners, helpers, and laborers	12.66 10.73	9.40 6.75	9.92 7.87	11.25 10.32	13.57 13.04	18. 15.
Helpers, mechanics and repairers	11.29	7.00	7.00	9.00	11.34	20.
Construction laborers	12.84	8.20	9.72	11.67	13.51	18.
Production helpers	9.81	7.00	7.25	9.44	11.91	12.
Stock handlers and baggers Machine feeders and offbearers	9.46 9.36	6.20 7.25	6.40 7.91	7.75 8.58	9.21 8.84	13. 14.
Freight, stock, and material handlers, N.E.C	11.51	7.90	10.06	11.39	13.21	14.
Hand packers and packagers	8.76	6.70	7.17	7.99	9.90	12.
Laborers except construction, N.E.C	11.59	7.87	9.49	11.20	13.04	16.
Service occupations	10.31	6.00	6.70	8.73	12.12	17.
Protective service occupations Guards and police except public service	15.89 9.20	7.00 6.16	8.74 7.00	16.02 8.25	21.71 11.38	24. 14.
Food service occupations	7.75	5.96	6.00	6.94	8.89	10.
Supervisors, food preparation and service						
occupations	11.89	8.64	10.22	12.00	13.33	13.
Waiters and waitresses Cooks	5.90 9.23	4.90 7.06	5.95 7.86	6.00 9.00	6.00 10.13	6. 12.
Food counter, fountain, and related occupations	6.66	5.84	5.97	6.34	7.05	8.
Kitchen workers, food preparation	8.28	6.92	7.25	8.26	9.34	9.
Waiters'/Waitresses' assistants	6.19	5.67	6.00	6.00	6.25	6.

Table A-1. Hourly earnings¹ for selected occupations, all workers², all industries, Portland-Salem, OR-WA, August 1998 — Continued

			All in	dustries		
Occupation ³				Percentil	es	
·	Mean	10	25	Median 50	75	90
Service occupations (-Continued)						
Food service occupations (-Continued)						
Food preparation occupations, N.E.C	\$7.18	\$6.06	\$6.29	\$6.75	\$7.74	\$9.05
Health service occupations	10.11	7.55	8.50	9.72	11.56	12.79
Health aides, except nursing	13.27	9.36	12.33	12.41	12.97	17.58
Nursing aides, orderlies and attendants	9.54	7.17	8.20	9.40	10.75	12.04
Cleaning and building service occupations	9.95	6.15	6.98	9.76	12.20	14.70
Supervisors, cleaning and building service						
workers	13.59	7.21	9.27	14.70	17.26	17.26
Janitors and cleaners	9.78	6.09	7.15	9.87	12.20	13.58
Personal service occupations	8.51	6.00	6.83	7.92	9.74	11.24
Child care workers, N.E.C.		6.33	6.42	6.91	10.27	11.68
Service occupations, N.E.C.	8.89	7.30	7.54	8.23	9.54	11.05

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.

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 all workers in the civilian economy. 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. IN THIS SURVEY, THE NONRESPONSE RATE FOR ALL INDUSTRIES AND PRIVATE INDUSTRY EXCEEDED REGULAR SURVEY STANDARDS FOR PUBLICATION. ACCORDINGLY, USERS SHOULD INTERPRET THESE RESULTS WITH THIS LIMITA-TION IN MIND.

Table A-2. Hourly earnings¹ for selected occupations, all workers², private industry and State and local government, Portland-Salem, OR-WA, August 1998

			Private	e industry	'			State	and loc	al govern	rnment			
Occupation ³				Percentil	es				F	Percentile	s			
·	Mean	10	25	Median 50	75	90	Mean	10	25	Median 50	75	90		
occupations	\$16.09	\$7.21	\$9.34	\$13.34	\$19.37	\$27.41	\$19.33	\$10.29	\$12.84	\$17.20	\$23.90	\$31.4		
All occupations excluding sales	15.83	7.26	9.44	13.40	19.49	26.80	19.35	10.29	12.84	17.29	23.90	31.4		
White-collar occupations	19.76	8.71	11.54	16.59	24.28	34.88	20.24	10.64	12.84	18.05	25.62	33.6		
White-collar occupations excluding sales	19.89	9.28	12.18	17.50	24.65	34.47	20.26	10.63	12.84	18.05	25.68	33.6		
Professional specialty and technical														
occupations	24.30	13.98	18.75	22.87	28.66	36.25	23.84	14.78	18.17	22.13	29.62	35.		
Professional specialty occupations Engineers, architects, and surveyors	26.00 28.98	17.32 21.21	20.96 23.16	24.17 26.15	30.10 32.41	37.19 41.29	24.77	15.84	19.53	23.25	30.32	35.		
Mechanical engineers	26.89	22.30	22.49	24.90	29.81	38.10	_	_	_	_	_	_		
Mathematical and computer scientists	29.61	20.49	24.20	29.10	34.95	39.21	_	_	_	_	_	_		
Computer systems analysts and			•											
scientists	30.55	21.51	24.20	29.93	36.02	39.42	-	_	-	-	_	-		
Natural scientists	-	-	-	-	-	_		-				-		
Health related occupations Registered nurses	22.70 21.70	17.70	19.08 19.08	21.78 21.60	23.68 23.25	28.52	22.38 26.15	15.84 20.15	17.61 21.42	21.42	24.91 30.70	31. 34.		
Teachers, college and university	32.15	17.73 16.33	20.55	29.52	43.79	24.59 54.46	26.13	11.94	14.63	23.92 28.51	35.38	38.		
Teachers, post secondary N.E.C	26.40	16.18	17.32	22.18	32.59	47.79	15.77	10.44	11.45	13.00	15.79	31.		
Teachers, except college and university	19.34	10.29	12.80	18.90	24.18	30.10	26.15	17.84	20.66	25.99	31.45	35.		
Elementary school teachers	_	_	_	_	_	_	26.32	17.84	20.59	26.00	31.91	35.		
Secondary school teachers	20.23	13.48	16.05	19.68	23.66	27.57	27.07	18.66	22.20	26.58	31.77	36.		
Teachers, special education	-	-	_	-	-	-	24.31	13.69	19.33	22.50	29.95	33.		
Librarians, archivists, and curators		-	-		-	_		-						
Social scientists and urban planners	17.48	8.91	10.40	18.45	23.81	24.88	22.21	17.37	18.57	20.87	22.13	34.		
Social, recreation, and religious workers Lawyers and judges	16.07	12.40	13.14	15.00	21.63	21.63	16.12	8.80	14.09	17.06	19.65	20.		
Writers, authors, entertainers, athletes,	_	_	_	_	_	_	_	_	_	_	_	-		
and professionals, N.E.C.	23.62	16.89	19.47	24.05	27.12	30.13	_	_	_	_	_	_		
Technical occupations	19.86	11.83	14.08	19.04	23.22	28.13	15.65	9.75	12.10	15.48	18.05	19.		
Clinical laboratory technologists and														
technicians	15.72	11.24	12.05	13.51	19.80	21.37	-	_	-	-	_	-		
Licensed practical nurses	15.27	12.52	14.57	15.47	16.86	17.24	_	_	_	-	_	-		
Health technologists and technicians, N.E.C	15.10	10.80	12.81	14.62	16.70	19.24	_	_	_	_	_			
Electrical and electronic technicians	20.75	12.50	19.46	21.83	24.87	26.44	_	_	_	_	_	_		
Computer programmers	31.04	18.37	23.08	29.95	38.41	45.36	_	_	_	_	_	_		
Technical and related occupations,	0	. 0.0.	20.00	20.00	00	10.00								
N.E.C	17.20	9.24	12.75	15.94	21.00	25.00	-	_	-	-	_	-		
Executive, administrative, and managerial														
occupations	27.45	15.70	17.88	24.87	34.52	41.00	29.92	18.27	23.90	27.34	32.58	43.		
Executives, administrators, and	22.77	20.52	24.07	20.72	20 50	16.15	22.71	22.00	25.00	20.00	12.56	16		
managers Administrators and officials, public	32.77	20.53	24.87	30.72	39.50	46.45	33.71	23.90	25.09	30.89	42.56	46.		
administration	_	_	_	_	_	_	40.70	23.50	29.20	42.56	43.38	79.		
Financial managers	33.57	21.81	21.81	33.38	36.08	48.92	-	_	_	_	-	_		
Managers, marketing, advertising and														
public relations	40.07	31.67	36.18	39.92	45.21	48.13	-	_	-	-	_	-		
Administrators, education and related														
fields	23.68	14.37	19.65	21.54	30.02	31.11	-	_	-	-	_	-		
Managers and administrators, N.E.C.	33.55	22.11	24.87	30.00	37.81	46.45		15.00	17.01	22.07	20.05	-		
Management related occupations Accountants and auditors	19.15 18.75	15.09 15.00	17.15 15.09	17.88 17.50	20.38 20.76	26.60 26.45	23.39	15.86	17.91	22.07	26.85	30.		
Other financial officers	23.38	11.64	22.80	25.00	26.68	28.06	_	_	_	_	_			
Personnel, training, and labor	20.00	11.01	22.00	20.00	20.00	20.00								
relations specialists	17.39	16.35	16.35	17.79	18.15	18.15	-	-	-	-	_	-		
Management related occupations,														
N.E.C	19.49	16.58	17.15	17.15	20.38	27.41	_	_	_	-	_	-		
Sales occupations		6.50	8.26	11.91	18.43	39.04	-	-	-	_	_	-		
Supervisors, sales occupations	22.51	11.00	12.30	17.31	35.14	38.46	-	_	_	-	_	-		
Sales workers, apparel Sales workers, other commodities		5.96 6.17	6.27 6.44	8.38 7.32	10.28 9.05	11.48 10.12	_	_	_	_	_	-		
Cashiers	9.51	6.25	6.74	8.26	13.30	14.88	1 -		l	l	l			
Administrative support occupations, including							40.05			40.00				
clerical	12.49	8.02	9.51	12.01	14.60	17.91	12.96	9.37	11.11	12.63	14.78	16.		
Supervisors, general office	18.35	12.93	16.30	18.97	21.92	21.92	-	-	-	-	-	-		

Table A-2. Hourly earnings¹ for selected occupations, all workers², private industry and State and local government, Portland-Salem, OR-WA, August 1998 — Continued

			Private	e industry	<u>'</u>			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	
White-collar occupations (-Continued)													
Administrative support occupations, including clerical (-Continued)													
Secretaries Receptionists	\$13.45 10.86	\$9.75 8.99	\$11.65 10.00	\$12.92 11.49	\$14.83 12.18	\$17.06 12.31	\$12.71	\$10.81	\$11.72	\$12.37	\$13.51	\$14.49	
Information clerks, N.E.C.		6.00	8.48	-	17.29	18.52	_	_	_	_	_	_	
Order clerks	11.46	8.50	9.50	11.41	12.50	14.02	_	_	_	_	-	-	
Library clerks Records clerks, N.E.C	12.03	- 9.35	10.33	11.94	- 14.28	14.50	11.59	9.45	10.57	11.53	13.21	13.6	
Bookkeepers, accounting and auditing	12.03	9.55	10.55	11.54	14.20	14.50	-	_	_	_	_	_	
clerks	12.71	9.23	10.34	12.00	13.60	20.65	-	_	_	-	_	-	
Traffic, shipping and receiving clerks Stock and inventory clerks	12.42 10.65	9.02 7.23	10.39 7.59	12.10 9.79	13.84 12.38	17.19 18.12	_	_	_	-	_	-	
Insurance adjusters, examiners, and	10.65	1.23	7.59	9.79	12.30	10.12	_	_	_	_	_	-	
investigators	17.07	13.07	15.55	16.46	18.00	21.90	-	_	_	-	_	-	
Investigators and adjusters except insurance	12.62	8.65	8.71	12.65	15.30	17.33							
General office clerks	11.19	7.47	9.00	10.80	13.06	15.21	11.23	8.54	9.76	11.11	12.84	13.9	
Data entry keyers	11.32	7.81	9.42	10.01	15.94	15.94	_	_		_	_	_	
Teachers' aides	_	_	-	_	_	_	11.34	8.54	9.82	11.15	12.76	13.6	
Administrative support occupations, N.E.C	13.66	9.34	10.63	13.48	15.00	21.75	14.95	11.11	12.24	14.78	17.87	18.7	
Blue-collar occupations Precision production, craft, and repair	13.37	7.50	9.12	12.62	16.23	21.58	17.66	12.53	15.59	16.92	19.47	24.1	
occupations	16.21	8.67	12.33	15.40	19.78	23.40	19.80	14.60	16.53	19.39	23.23	24.1	
Supervisors, mechanics and repairers	27.19	20.75	21.63		32.70	38.64	_	_	_	_	-	-	
Industrial machinery repairers Mechanics and repairers, N.E.C	18.47 14.43	15.85 9.11	16.12 12.33	17.95 13.95	21.34 16.78	23.41 18.86	_	_	_	_	_	_	
Electricians	19.88	9.18	14.50	23.40	23.89	23.89	_	_	_	_	_	_	
Construction trades, N.E.C	-	-	_	_	-	_	15.85	12.54	14.60	16.53	17.67	18.4	
Supervisors, production occupations	21.30	14.00 16.04	16.05 16.56	19.25 18.69	23.00 25.24	34.78 27.21	_	_	_	_	_	-	
Machinists Electrical and electronic equipment assemblers	20.57	7.38	8.15		12.95	15.09	_	_	_	_	_	_	
Inspectors, testers, and graders	14.34	10.47	12.70	14.03	16.90	18.22	_	_	_	_	_	_	
Machine operators, assemblers, and inspectors	12.20	7.23	8.77	11.45	14.75	18.03	_	_	_	_	_	_	
Numerical control machine operators	15.67	9.75	13.01	14.95	16.74	23.80	_	_	_	_	_	_	
Fabricating machine operators,													
N.E.C Molding and casting machine	15.32	10.85	11.49	13.98	19.72	19.92	-	_	_	-	_	-	
operators	11.97	6.93	7.49	13.35	14.75	15.44	_	_	_	_	_	_	
Printing press operators	20.21	17.63	17.73	18.03	20.58	28.28	-	_	_	-	-	_	
Packaging and filling machine operators	10.33	6.26	6.45	8.95	12.44	17.04	_	_	_	_	_	_	
Miscellaneous machine operators,	11.00	0.47	0.26	11.00	12.20	10.55							
N.E.C	11.93 14.49	8.47 11.45	9.36	11.93 15.03	13.20 16.53	16.55 17.00	-	_	_	_	_	-	
Assemblers	10.94	7.55	8.43		12.13	18.95	_	_	_	_	_	_	
Miscellaneous hand working													
occupations, N.E.C Production inspectors, checkers and	8.66	6.02	6.18	8.73	10.66	11.40	_	_	_	_	_	-	
examiners Production testers	11.42 12.53	8.30 8.48	9.15		13.11 16.05	13.11 17.64	_	_	_	_	_	_	
Transportation and material moving	12.00	5.40	5.55	.5.55	13.00	.7.04							
occupations	16.60	10.00	13.12		22.11	22.77	17.24	11.36	14.39	16.92	19.38	26.2	
Truck drivers Bus drivers	17.87 –	13.16	14.00	17.97	22.11	22.62	14.61	- 10.96	12.43	16.08	- 16.92	16.9	
Industrial truck and tractor equipment operators	12.66	9.40	9.92	11.25	13.57	18.50	-	-	12.43	-	-	- 10.8	
Handlers, equipment cleaners, helpers, and													
laborers	10.41	6.73	7.86	9.90	12.61	14.10	15.45	12.13	13.85	16.06	16.79	19.0	
Construction laborers Production helpers	12.90 9.81	8.20 7.00	9.72 7.25		13.38 11.91	18.60 12.54	-	_	_	-	_	-	
i roddollori noipela	3.01	7.00	'.23] 3.77	11.31	12.54	-	-	-	l -	_	-	

Table A-2. Hourly earnings1 for selected occupations, all workers2, private industry and State and local government, Portland-Salem, OR-WA, August 1998 — Continued

			Private	e industry				State	and loca	al govern	ment	
Occupation ³				Percentil	es				P	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)												
Stock handlers and baggers Machine feeders and offbearers Freight, stock, and material handlers,	\$9.46 9.36	\$6.20 7.25	\$6.40 7.91	\$7.75 8.58	\$9.21 8.84	\$13.70 14.86	-	- -	- -	- -	- -	_
N.E.C. Hand packers and packagersLaborers except construction, N.E.C.	11.51 8.76 10.72	7.90 6.70 7.76	10.06 7.17 9.02	11.39 7.99 11.20	13.21 9.90 12.00	14.82 12.01 13.04	- - -	- - -	- - -	_ _ _	- - -	- - -
Service occupations Protective service occupations	8.38 8.49	6.00 6.05	6.26 6.87	7.62 7.92	9.67 9.46	12.20 11.92	\$16.13 19.77	\$9.29 13.06	\$10.39 16.12	\$14.63 19.58	\$20.78 23.41	\$24.89 27.24
Food service occupations Supervisors, food preparation and	7.93 7.53	6.00 5.95	6.52 6.00	7.50 6.75	8.50 8.55	10.50 10.22	12.86 10.08	8.50 7.92	10.56 8.79	14.08 10.13	14.28 10.92	15.88 13.01
service occupations	11.89 5.90 8.58	8.64 4.90 6.57	10.22 5.95 7.60	12.00 6.00 8.49	13.33 6.00 9.52	13.94 6.52 10.31	- - 10.43	- - 7.92	- - 8.57	- - 10.13	- - 12.35	- - 13.01
Food counter, fountain, and related occupations Kitchen workers, food preparation	6.60 8.15	5.84 6.92	5.97 7.04	6.34 8.10	6.97 9.18	8.00 9.34	_ _	- -	_ _	_ _	_ _	_ _
Waiters'/Waitresses' assistants Food preparation occupations, N.E.C. Health service occupations	6.03 7.07 9.97	5.42 6.03 7.23	5.94 6.16 8.34	6.00 6.75 9.48	6.00 7.55 11.47	6.50 8.72 12.68	- - -	_ _ _	_ _ _	- - -	_ _ _	- - -
Health aides, except nursing Nursing aides, orderlies and attendants	13.30 9.29	9.36 7.12	12.33 7.97	9.17	12.97 10.37	17.58 11.62	_	_ _	_ _	_ _	_ _	_ _
Cleaning and building service occupations Janitors and cleaners Personal service occupations	9.38 9.04 8.24	6.05 6.00 6.00	6.57 6.49 6.83	8.50 8.50 7.77	12.20 11.26 9.10	14.70 12.20 11.05	11.49 11.35 11.96	9.14 9.14 9.14	9.87 9.87 10.23	10.51 10.51 10.84	13.58 13.58 13.04	14.63 14.63 15.37
Child care workers, N.E.C	-		-	_	_	_	11.32	9.76	10.27	10.74	11.90	15.02

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.
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

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 classified into one of nine

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 THIS SURVEY, THE NONRESPONSE RATE FOR ALL INDUSTRIES AND PRIVATE INDUSTRY EXCEEDED REGULAR SURVEY STANDARDS FOR PUBLICATION. ACCORDINGLY, USERS SHOULD INTERPRET THESE RESULTS WITH THIS LIMITATION IN MIND.

Table A-3. Hourly earnings¹ for selected occupations, full-time and part-time workers², all industries, Portland-Salem, OR-WA, August 1998

						All indu	stries					
			Fu	II-time					Part	-time		
Occupation ³				Percentil	es				F	Percentile	es	
	Mean	10	25	Median 50	75	90	Mean	10	25	Median 50	75	90
II occupations	\$17.32	\$8.00	\$10.56	\$14.75	\$21.58	\$29.30	\$11.73	\$6.05	\$7.16	\$9.80	\$13.38	\$21.17
All occupations excluding sales	17.11	8.01	10.66	14.83	21.61	29.19	12.05	6.05	7.24	10.13	13.59	21.90
White-collar occupations	20.51	9.74	12.45	17.58	25.09	35.03	14.17	7.21	8.71	11.16	19.08	23.68
White-collar occupations excluding sales	20.50	10.06	12.84	18.14	25.34	34.52	15.20	7.88	9.28	12.28	20.56	23.92
Professional specialty and technical	24.56	14.00	10 74	23.05	29.73	26.11	20.21	11 20	16.01	20.56	22.52	20 21
occupations Professional specialty occupations	24.56 25.90	14.90 17.14	18.74 20.53	24.20	30.95	36.11 36.33	20.31	11.29 11.29	16.01 18.09	20.56	23.53 24.35	28.25
Engineers, architects, and surveyors	28.68	21.01	22.91	26.09	31.41	41.29	21.23	-	-	21.70	24.55	25.7
Mechanical engineers	26.89	22.30	22.49	24.90	29.81	38.10	_	_	_	_	_	_
Mathematical and computer scientists	29.40	21.01	23.71	28.85	34.91	38.76	_	_	_	_	_	_
Computer systems analysts and												
scientists Natural scientists	30.26	21.51	24.20	29.63	35.59 –	39.21	_	_		_	_	_
Health related occupations	22.51	16.56	18.46	21.42	23.73	29.89	22.88	18.72	20.58	21.96	23.92	28.43
Registered nurses	22.74	17.76	19.19		23.91	29.82	21.66	18.35	20.24	21.90	23.16	23.9
Teachers, college and university	28.92	13.29	17.32	29.73	36.35	42.41	18.91	7.62	11.94	15.59	27.17	34.69
Teachers, post secondary N.E.C	19.97	11.45	12.63	15.79	24.47	36.65	_	_	_	_	_	-
Teachers, except college and university	25.49	17.14	20.13	25.12	31.07	35.28	22.01	11.29	14.59	23.55	27.50	31.29
Elementary school teachers	25.96	17.81	20.21	25.99	31.82	35.28	-	_	_	-	_	-
Secondary school teachers	26.79	18.30	21.09	26.52	31.77	36.01	24.89	19.75	23.55	25.51	25.51	31.63
Teachers, special education		13.69	19.69	23.05	29.95	33.63	l					
Teachers, N.E.C.		_	-	-	_	-	27.24	10.15	21.52	29.75	31.88	40.7
Substitute teachers	-	-	-	_	_	-	14.08	11.29	14.45	14.45	14.74	15.16
Vocational and educational	05.04	40.00	04.77	04.77	04.05	00.04						
counselors	1	12.98	24.77	24.77	31.85	36.34	_	_	_	_	_	-
Librarians, archivists, and curators	- 24.20	_ 15.01	10.55		22.70	20.50						-
Social scientists and urban planners	21.39 19.83	15.91 10.40	18.55 17.52	21.44 20.26	23.79 21.44	26.59 23.05	_	_	_	_	_	_
Psychologists Social, recreation, and religious workers	16.54	12.40	13.25	16.23	19.65	21.63	_	_	_	-	_	-
Social workers	16.90	13.14	14.78	16.68	19.65	20.58	_	_	_	_	_	_
Lawyers and judges	-	-	- 14.70	-	-	_	_	_	_	_	_	l _
Writers, authors, entertainers, athletes,												
and professionals, N.E.C.	23.65	16.89	19.47	24.05	27.12	30.53	_	_	_	_	_	_
Technical occupations	19.24	10.95	13.98	17.70	23.08	27.26	18.01	11.31	13.67	18.37	20.56	23.22
Clinical laboratory technologists and												
technicians	15.56	10.83	11.83	13.38	20.10	21.37	-	_	_	-	_	-
Health technologists and technicians,												
N.E.C	14.48	9.75	12.39	14.78	16.23	18.68	15.06	12.65	13.37	15.70	15.70	17.55
Electrical and electronic technicians	21.19	13.79	20.01	22.70	25.13	26.46	-	-	-	-	_	-
Computer programmers	31.04	18.37	23.08	29.95	38.41	45.36	-	_	-	-	_	-
Technical and related occupations,												
N.E.C	17.51	9.24	14.67	18.17	21.00	23.14	-	_	_	-	_	-
Executive, administrative, and managerial	07.70	45.00	40.00	05.00	04.50	40.54						
occupations	27.78	15.88	18.36	25.09	34.52	42.51	_	_	_	_	_	_
Executives, administrators, and	22.02	24 04	24.87	30.72	20.50	46.41						
managers Administrators and officials, public	32.82	21.81	24.67	30.72	39.50	40.41	_	_	_	-	-	_
administration	36.28	23.50	28.49	40.92	43.38	43.38	l _	_	_	_	_	l _
Financial managers	33.57	21.81	21.81	33.38	36.08	48.92	_	_	_	_	_	l _
Managers, marketing, advertising and												
public relations	40.07	31.67	36.18	39.92	45.21	48.13	_	_	_	_	_	-
Administrators, education and related												
fields	32.99	17.11	21.54		43.19	46.91	-	_	_	-	-	-
Managers and administrators, N.E.C.	32.53	23.20	24.87	29.68	37.02	42.51	-	-	_	-	-	-
Management related occupations	19.84	15.09	17.15		22.07	27.15	-	_	-	-	-	-
Accountants and auditors	18.81	15.00	15.09		20.76	26.45	-	_	_	-	-	-
Other financial officers	23.40	11.64	21.63	26.04	26.68	28.06	-	-	-	-	-	-
Personnel, training, and labor	47.04	40.05	40.05	47.04	47.00	40.45						
relations specialists Management related occupations,	17.34	16.35	16.35	17.31	17.88	18.15	-	-	_	-	-	-
N.E.C	20.79	17.15	17.15	17.15	22.85	29.13	_		_	_	_	_
Sales occupations	20.79	6.92	9.72		20.05	43.27	7.75	6.06	6.22	7.28	8.88	10.25
Jaios 000upations	20.00	0.52	3.72	12.73	20.00	70.21	1 '.''	0.00	0.22	1.20	0.00	10.2

Table A-3. Hourly earnings¹ for selected occupations, full-time and part-time workers², all industries, Portland-Salem, OR-WA, August 1998 — Continued

						All indu	stries					
		1	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) Sales occupations (-Continued)												
Supervisors, sales occupations	\$22.74	\$11.00	\$12.30		\$35.14	\$38.46						_
Sales workers, other commodities	8.81	6.20	7.06	8.70	10.00	11.39	\$7.26	\$5.90	\$6.20	\$7.25	\$7.80	\$8.5
Cashiers	9.89	6.50	7.26	8.69	13.40	14.88	-	-	_	-	- 1	-
Administrative support occupations, including clerical	12.96	8.71	10.37	12.50	15.14	17.87	10.25	7.21	8.50	9.74	11.48	13.
Supervisors, general office	16.68	12.03	15.37	15.37	19.02	21.92	10.25	7.21	8.50	9.74	11.40	13.
Secretaries	13.21	10.00	11.69	12.91	14.60	16.25			_			
Receptionists	11.18	8.99	10.00	11.51	12.18	12.31	_	_		_	_	
Information clerks, N.E.C.	-	- 0.55	- 10.00	-	-		9.24	6.00	6.00	8.76	10.86	13.
Order clerks	12.08	8.68	9.80	12.02	12.98	18.14		-	-	- 0.70	-	-
Records clerks, N.E.C.	12.48	9.79	10.78	12.21	14.28	14.50	_	_	_	_	_	_
Bookkeepers, accounting and auditing	12.10	0.70	10.70		11.20	1 1.00						
clerks	12.97	9.68	10.45	12.25	14.68	18.70	_	_	_	_	_	_
Traffic, shipping and receiving clerks	12.42	9.02	10.39	12.10	13.84	17.19	_	_	_	_	_	_
Stock and inventory clerks	11.34	7.32	8.00	10.40	13.50	18.12	_	_	_	_	_	_
Insurance adjusters, examiners, and												
investigators	17.07	13.07	15.55	16.46	18.00	21.90	_	_	_	_	_	_
Investigators and adjusters except												
insurance	12.79	8.65	8.71	12.86	15.54	17.33	-	_	_	-	-	_
General office clerks	11.41	8.54	9.60	11.11	12.90	14.65	-	_	_	_	-	_
Data entry keyers	12.07	7.81	9.92	11.56	15.94	15.94	-	_	_	_	-	_
Teachers' aides	12.06	8.20	10.40	11.36	13.56	16.49	10.93	9.29	9.82	10.79	11.85	13
Administrative support occupations,												
N.E.C	14.82	11.00	11.68	14.78	17.58	18.74	9.39	6.25	6.59	10.63	10.63	12
Ilue-collar occupations Precision production, craft, and repair	13.89	7.69	9.53	13.17	16.92	21.70	10.59	6.30	7.69	10.69	12.11	15.
occupations	16.56	9.11	12.84	16.00	20.78	23.66	_	_	_	_	_	_
Supervisors, mechanics and repairers	26.05	20.14	21.63	22.60	32.70	38.64	_	_	_	_	_	_
Industrial machinery repairers	18.47	15.85	16.12	17.95	21.34	23.41	_	_	_	_	_	_
Mechanics and repairers, N.E.C.	14.58	9.11	12.33	14.52	16.78	18.86	_	_	_	_	_	_
Electricians	20.88	9.18	21.23	23.40	23.89	23.89	_	_	_	_	_	_
Construction trades, N.E.C.	16.46	12.54	14.60	17.00	18.43	18.76	_	_	_	_	_	_
Supervisors, production occupations	21.30	14.00	16.05	19.25	23.00	34.78	_	_	_	_	-	_
Machinists	20.57	16.04	16.56	18.69	25.24	27.21	-	-	-	-	-	_
Electrical and electronic equipment												
assemblers	10.65	7.38	8.15	10.17	12.95	15.09	-	-	_	-	-	-
Inspectors, testers, and graders	14.34	10.47	12.70	14.03	16.90	18.22	-	-	_	-	-	-
Machine operators, assemblers, and	40.05	7.00		44.00	44.05	40.00						
inspectors	12.25	7.30	8.83	11.60	14.95	18.03	-	-	_	-	-	_
Numerical control machine operators	15.89	9.75	13.39	16.74	16.74	23.80	-	-	_	-	-	_
Fabricating machine operators, N.E.C	15 22	10.05	11 10	12.00	10.72	19.92						
Molding and casting machine	15.32	10.85	11.49	13.98	19.72	19.92	-	_	_	_	-	
operators	11.97	6.93	7.49	13.35	14.75	15.44	_	_	_			
Printing press operators	19.93	15.86	17.63	17.95	19.44	28.28	-		_			
Miscellaneous machine operators,	13.30	10.00	17.00	17.55	10.44	20.20						
N.E.C.	11.93	8.47	9.36	11.93	13.20	16.55	_	_	_	_	_	_
Welders and cutters	14.49	11.45	12.74	15.03	16.53	17.00	_	_	_	_	_	_
Assemblers	11.02	7.55	8.57	9.95	12.21	18.95	_	_	_	_	_	_
Miscellaneous hand working												
occupations, N.E.C.	8.66	6.02	6.18	8.73	10.66	11.40	-	_	_	_	-	_
Production inspectors, checkers and												
examiners	11.42	8.30	9.15	11.22	13.11	13.11	-	_	_	-	-	-
Production testers	12.53	8.48	9.00	10.60	16.05	17.64	-	-	_	-	-	-
Transportation and material moving												
occupations	17.10	10.82	13.56	16.63	22.11	24.68	11.85	8.73	10.96	12.11	13.19	14
Truck drivers	17.60	12.11	14.00	16.89	22.11	22.62	-	-	_	-	-	-
Bus drivers	_	_	_	_	-	_	12.24	9.95	11.00	12.11	13.24	15
Industrial truck and tractor equipment												
operators	12.66	9.40	9.92	11.25	13.57	18.50	_		_		_	i _

Table A-3. Hourly earnings1 for selected occupations, full-time and part-time workers2, all industries, Portland-Salem, OR-WA, August 1998 — Continued

						All indu	stries					
			Fu	II-time					Part-	-time		
Occupation ³				Percentil	es				F	Percentile	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	\$10.81	\$7.00		\$10.00	\$13.17	\$14.88	\$10.23	\$6.30	\$7.14	\$10.52	\$11.46	\$15.89
Helpers, mechanics and repairers	11.29	7.00	7.00	9.00	11.34	20.43	-	-	_	-	_	-
Construction laborers	13.30	9.72	11.67	12.13	13.51	18.60	-	_	_	-	_	-
Production helpers	9.81	7.00	7.25	9.44	11.91	12.54	-	_	_	-	_	_
Stock handlers and baggers	10.23	6.40	7.50	7.80	13.40	13.70	-	_	_	_	_	_
Machine feeders and offbearers Freight, stock, and material handlers,	9.36	7.25	7.91	8.58	8.84	14.86	-	-	_	-	_	_
N.E.C	11.26	7.86	8.51	11.90	13.21	13.82	_	_	_	_	_	
Hand packers and packagers	8.56	6.70	7.08	7.99	9.59	12.01	-	_	_	_	_	_
Laborers except construction, N.E.C.	11.77	7.87	9.53	11.60	13.04	16.06	_	_	_	_	_	_
			0.00		10.0.	.0.00						
Service occupations	11.13	6.00	7.12	9.27	13.03	19.24	7.61	5.81	6.00	6.75	9.14	10.59
Protective service occupations	16.33	7.04	9.00	16.86	21.71	25.10	8.43	6.00	6.33	8.35	10.19	10.32
Guards and police except public												
service	9.32	6.26	7.04	8.35	11.79	14.28	-	-	_	-	_	-
Food service occupations	8.12	6.00	6.22	7.28	9.05	12.00	7.15	5.68	5.97	6.34	8.57	9.93
Supervisors, food preparation and												
service occupations	11.89	8.64	10.22	12.00	13.33	13.94	-	-	_	-	_	-
Waiters and waitresses	-	-	_	_	_	-	5.78	4.90	4.90	6.00	6.25	6.75
Cooks	9.03	6.87	7.62	8.55	10.18	12.35	9.61	7.92	8.57	9.71	10.13	10.92
Food counter, fountain, and related												
occupations							6.27	5.69	5.96	5.97	6.34	7.00
Kitchen workers, food preparation	7.99	6.66	7.00	8.10	8.64	9.34					_	
Waiters'/Waitresses' assistants					<u>-</u>		6.53	5.81	5.81	6.34	6.77	8.79
Food preparation occupations, N.E.C.	6.93	6.00	6.29	6.75	7.04	8.04	7.62	6.06	6.12	7.54	8.72	10.27
Health service occupations	10.08	7.12	8.39	9.48	11.73	12.97	10.22	7.85	9.00	10.04	11.39	12.76
Nursing aides, orderlies and												
attendants	9.42	7.12	8.18	9.29	10.47	12.04	10.05	7.69	9.00	10.00	11.28	12.10
Cleaning and building service	10.40	6.40	7.55	10.00	40.00	1407	7 20	E 00	6.05	6 20	0.00	10.50
occupations	10.43	6.43	7.55	10.23	12.20	14.97	7.32	5.99	6.05	6.38	8.33	10.58
Supervisors, cleaning and building	13.59	7.21	9.27	14.70	17.26	17.26						
service workers Janitors and cleaners	10.23	7.21 6.49	7.91	10.23	17.26	17.26	7.16	- 5.92	6.05	6.31	7.90	9.99
Personal service occupations	8.50	6.49	7.91	8.14	9.49	13.58	8.53	6.04	6.83	6.96	10.27	11.90
Child care workers, N.E.C.	0.50	0.00	7.17	0.14	9.49	11.20	8.74	6.33	6.91	7.27	10.27	11.90
Offind date workers, N.L.O							0.74	0.55	0.91	1.21	10.03	11.30

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.

all workers in the civilian economy. 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 riteria. Overall occupational groups and occupational levels may include data for categories not shown separately. N.E.C. means not elsewhere classified. IN THIS SUR-VEY, THE NONRESPONSE RATE FOR ALL INDUSTRIES AND PRIVATE INDUSTRY EXCEEDED REGULAR SURVEY STANDARDS FOR PUBLICATION. ACCORDINGLY, USERS SHOULD INTERPRET THESE RESULTS WITH THIS LIMITATION IN MIND.

the same as or more than the rate shown, and half believe 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.

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 establishment, but classified as part-time in another firm, where a 40-hour week is the establishment, but classification as partitine in another limit, where a 40-room week is the minimum full-time schedule.

3 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, Portland-Salem, OR-WA, August 1998

			All ind	ustries		
Occupation ³	Mean	Weekly	earnings	Mean	Annual e	earnings
	weekly hours ⁴	Mean	Median	annual hours	Mean	Median
All occupations	39.9	\$692	\$588	2,030	\$35,163	\$30,453
All occupations excluding sales	39.8	681	591	2,024	34,623	30,680
White-collar occupations	40.1	822	695	2,008	41,171	35,485
White-collar occupations excluding sales	39.9	819	722	1,994	40,879	36,129
Professional specialty and technical occupations	40.0	981	929	1,913	46,978	45,032
Professional specialty occupations	40.0	1,037	971	1,879	48,666	46,384
Engineers, architects, and surveyors Mechanical engineers	40.0 40.0	1,147 1,076	1,043 996	2,080 2,080	59,663 55,936	54,258 51,78
Mathematical and computer scientists	39.9	1,070	1,154	2,000	60,969	60,008
Computer systems analysts and scientists	40.0	1,210	1,185	2,079	62,915	61,633
Natural scientists	-	- 1,210	- 1,100		- 02,010	-
Health related occupations	41.7	938	874	2,144	48,252	45,292
Registered nurses	39.7	903	871	2,035	46,273	44,855
Teachers, college and university	38.0	1,099	1,122	1,494	43,213	47,524
Teachers, post secondary N.E.C.	37.1	741	585	1,477	29,500	23,617
Teachers, except college and university	39.6	1,010	992	1,575	40,146	40,234
Elementary school teachers	39.7	1,029	1,032	1,539	39,957	40,279
Secondary school teachers	39.7	1,064	1,049	1,557	41,700	41,374
Teachers, special education	39.0	959	894	1,517	37,291	36,628
Vocational and educational counselors	39.3	1,015	991	1,636	42,274	42,604
Librarians, archivists, and curators						
Social scientists and urban planners	39.3	840	858	1,998	42,744	44,595
Psychologists	38.8	770	810	1,941	38,504	41,829
Social, recreation, and religious workers	40.3 39.6	667 669	649 649	2,073	34,290	32,198
Social workers Lawyers and judges	39.0	009	049	2,032	34,346	33,758
Writers, authors, entertainers, athletes, and	_	_	_	_	_	_
professionals, N.E.C.	40.9	967	933	2,117	50,061	48,525
Technical occupations	39.6	762	708	2,060	39,649	36,800
Clinical laboratory technologists and technicians	40.0	622	535	2,080	32,356	27,825
Health technologists and technicians, N.E.C	40.0	579	591	2,080	30,127	30,742
Electrical and electronic technicians	40.0	847	908	2,080	44,067	47,219
Computer programmers	40.0	1,242	1,198	2,080	64,559	62,296
Technical and related occupations, N.E.C	40.0	701	727	2,080	36,429	37,794
Executive, administrative, and managerial occupations	40.6	1,128	1,015	2,102	58,392	52,754
Executives, administrators, and managers	41.1	1,350	1,223	2,131	69,926	63,710
Administrators and officials, public administration	40.0	1,451	1,637	2,080	75,460	85,114
Financial managers	42.6	1,432	1,335	2,217	74,440	69,430
Managers, marketing, advertising and public	44.2	1 656	1 615	2 1 4 0	96 102	92.000
relations Administrators, education and related fields	41.3 39.9	1,656 1,317	1,615 1,244	2,149 1,930	86,102 63,671	83,990 70,822
Managers and administrators, N.E.C.	41.2	1,317	1,185	2,144	69,767	61,630
Management related occupations	39.8	790	727	2,058	40,829	38,002
Accountants and auditors	40.0	753	716	2,080	39,130	37,253
Other financial officers	40.0	936	1,042	2,080	48,668	54,165
Personnel, training, and labor relations			,-	,	.,	,
specialists	40.0	693	692	2,080	36,060	36,005
Management related occupations, N.E.C	39.7	826	686	2,031	42,220	36,208
Sales occupations	41.4	850	492	2,126	43,637	25,584
Supervisors, sales occupations	42.0	956	692	2,185	49,686	36,005
Sales workers, other commodities	38.9	342	348	2,022	17,809	18,10
Cashiers	39.0	386	336	1,921	18,990	17,186
Administrative support occupations, including clerical	39.6	513	500	2,033	26,336	25,640
Supervisors, general office	39.6	661	615	2,061	34,363	31,970
Secretaries	39.4	521	501	1,941	25,629	24,960
Receptionists Order clerks	40.0 39.1	447 472	460	2,080	23,252	23,94
Records clerks, N.E.C.	39.1 39.5	472 493	475 488	2,031 2,045	24,537 25,521	24,693 25,388
Bookkeepers, accounting and auditing clerks	39.5 39.9	518	490	2,045	26,917	25,360 25,470
Traffic, shipping and receiving clerks	40.0	497	484	2,075	25,826	25,47
Stock and inventory clerks	40.0	453	416	2,080	23,579	21,62
Insurance adjusters, examiners, and						
investigators	38.3	653	630	1,990	33,980	32,76
Investigators and adjusters except insurance	40.0	512	514	2,080	26,612	26,74
General office clerks	39.8	454	444	2,056	23,449	23,109

 $\label{eq:continued} \textbf{Table A-4. Weekly and annual earnings}^1 \ \text{and hours for selected occupations, full-time workers only}^2, \ \text{all industries, Portland-Salem, OR-WA, August 1998} \ \textbf{— Continued}$

			All ind	ustries		
Occupation ³	Mean	Weekly	earnings	Mean	Annual e	arnings
	weekly hours ⁴	Mean	Median	annual hours	Mean	Median
White-collar occupations (-Continued) Administrative support occupations, including clerical						
(-Continued)	40.0	£400	# 400	0.000	COT 400	CO 4 O
Data entry keyers	40.0	\$483	\$462	2,080	\$25,102	\$24,03
Teachers' aides Administrative support occupations, N.E.C	35.4 40.0	427 592	439 591	1,302 2,051	15,705 30,396	15,90 29,79
Blue-collar occupations	39.8	553	527	2,069	28,734	27,3
Precision production, craft, and repair occupations	39.9	661	640	2,073	34,343	33,2
Supervisors, mechanics and repairers	39.7	1,035	912	2.065	53,795	47,42
Industrial machinery repairers	40.0	739	718	2.080	38,419	37,33
Mechanics and repairers, N.E.C.	40.0	583	581	2.080	30.334	30.20
Electricians	40.0	835	936	2,080	43,426	48,6
Construction trades, N.E.C.	40.0	658	680	2.080	34.227	35,3
Supervisors, production occupations	39.2	834	770	2,037	43,384	40,0
Machinists	39.3	807	749	2,041	41,980	38,9
Electrical and electronic equipment assemblers	40.0	426	407	2,080	22,150	21,1
Inspectors, testers, and graders	40.0	573	561	2,080	29,819	29.1
Machine operators, assemblers, and inspectors	39.7	487	457	2,060	25,323	23,7
Numerical control machine operators	40.0	636	670			
				2,080	33,047	34,8
Fabricating machine operators, N.E.C.	40.0	613	559	2,080	31,871	29,0
Molding and casting machine operators	39.4	472	516	2,049	24,518	26,8
Printing press operators	39.5	787	718	2,054	40,924	37,3
Miscellaneous machine operators, N.E.C.	40.0	477	477	2,080	24,820	24,8
Welders and cutters	40.0	580	601	2,080	30,143	31,2
Assemblers	39.3	433	385	2,045	22,534	20,0
Miscellaneous hand working occupations, N.E.C.	40.0	346	349	2,080	18,017	18,1
Production inspectors, checkers and examiners	40.0	457	449	2,080	23,745	23,3
Production testers	40.0	501	424	2,080	26,061	22,0
Transportation and material moving occupations	40.6	694	677	2,099	35,888	35,1
Truck drivers	40.0	704	676	2,080	36,611	35,1
Industrial truck and tractor equipment operators	39.0	494	438	2,029	25,687	22,7
Handlers, equipment cleaners, helpers, and laborers	39.4	426	400	2,050	22,165	20,8
Helpers, mechanics and repairers	40.0	452	360	2,080	23,479	18,7
Construction laborers	40.0	532	485	2,080	27,673	25,2
Production helpers	40.0	392	378	2,080	20,406	19,6
Stock handlers and baggers	37.9	388	310	1,973	20,190	16,1
Machine feeders and offbearers	37.4	350	300	1,944	18,190	15,6
Freight, stock, and material handlers, N.E.C	40.0	450	476	2,080	23,419	24,7
Hand packers and packagers	39.6	339	320	2,060	17,635	16,6
Laborers except construction, N.E.C	39.6	466	464	2,060	24,251	24,1
Service occupations	39.2	437	356	2,025	22,546	18,4
Protective service occupations	40.8	667	661	2,124	34,690	34,3
Guards and police except public service	39.5	368	323	2,052	19,128	16,7
Food service occupations	37.8	307	281	1,942	15,766	14,5
occupations	41.8	497	482	2,175	25,849	25,0
Cooks	39.6	357	340	2,173	18,256	17.7
Kitchen workers, food preparation	39.5	316	300	1.993	15,917	15.19
Food preparation occupations, N.E.C.	39.5 37.8	262	251	1,993	13,405	13,0
i oou preparation occupations, N.E.C	31.0	202	201	1,933	13,405	13,0

Table A-4. Weekly and annual earnings¹ and hours for selected occupations, full-time workers only², all industries, Portland-Salem, OR-WA, August 1998 — Continued

	All industries								
Occupation ³	Mean	Weekly earnings		Mean	Annual e	earnings			
	weekly hours ⁴	Mean	Median	annual hours	Mean	Median			
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	38.9 38.7 39.9 40.0 40.0 38.8	\$392 364 416 544 409 330	\$372 355 409 588 409 315	2,022 2,011 2,039 2,080 2,035 2,019	\$20,390 18,945 21,263 28,270 20,824 17,165	\$19,323 18,447 21,174 30,576 21,174 16,390			

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

week, exclusive of overtime.

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 THIS SURVEY, THE NONRESPONSE RATE FOR ALL INDUS-TRIES AND PRIVATE INDUSTRY EXCEEDED REGULAR SURVEY STANDARDS FOR PUBLICATION. ACCORDINGLY, USERS SHOULD INTERPRET THESE RESULTS WITH THIS LIMITATION IN MIND.

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.

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

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, Portland-Salem, OR-WA, August 1998

		All workers 4	1	All ind	ustries
Occupational group ³ and level	All indus- tries	Private industry	State and local government	Full-time workers	Part-tim workers
All occupations	\$16.77	\$16.09	\$19.33	\$17.32	\$11.73
All occupations excluding sales	16.61	15.83	19.35	17.11	12.05
White-collar occupations	19.89	19.76	20.24	20.51	14.17
Level 1		7.48	_	_	7.66
Level 2	9.07	9.01	9.52	9.20	8.96
Level 3	9.62	9.46	10.27	9.52	10.00
Level 4	11.82	11.42	12.54	11.97	10.57
Level 5	13.89	14.04	13.06	13.82	15.20
Level 6	15.17	14.80	17.78	15.11	16.19
Level 7	18.06	18.84	16.18	18.02	18.69
Level 8	21.43	21.42	21.46	21.61	19.44
Level 9	23.92	23.26	24.79	24.02	22.42
Level 10	28.38	27.94	29.45	28.30	29.73
Level 11	35.21	36.46	30.05	35.28	-
Level 12	37.14	36.89	38.83	37.14	_
Level 13	39.94	39.89	_	40.72	-
Level 14	60.43	59.08	_	59.08	_
Not able to be leveled	28.84	16.39	_	_	13.68
White-collar occupations excluding sales	20.00	19.89	20.26	20.50	15.20
Level 1	7.90	_	_	_	_
Level 2	9.07	9.01	9.52	9.20	8.96
Level 3	10.22	10.21	10.27	10.01	11.07
Level 4	11.98	11.55	12.53	12.04	11.41
Level 5	13.17	13.20	13.06	13.05	15.20
Level 6	15.14	14.73	17.78	15.07	16.19
Level 7	18.22	19.07	16.19	18.15	19.23
Level 8	21.54	21.59	21.46	21.76	19.44
Level 9	23.91	23.25	24.79	24.02	22.42
Level 10	26.35	24.80	29.45	26.12	29.73
Level 11	30.45	30.58	30.05	30.48	_
Level 12	37.07	36.81	38.83	37.07	_
Level 13	39.94	39.89	_	40.72	_
Level 14	60.43	59.08	_	59.08	_
Not able to be leveled	29.97	17.19	-	_	_
Professional specialty and technical occupations	24.12	24.30	23.84	24.56	20.31
Professional specialty occupations		26.00	24.77	25.90	21.25
Level 5		_	12.35	16.10	13.28
Level 6		14.18	15.60	15.37	9.97
Level 7		21.82	19.94	21.54	- 5.57
Level 8		21.56	23.10	22.76	19.90
Level 9		23.40	24.55	24.26	22.22
Level 10		23.88	29.55	25.49	29.73
Level 11		31.68	32.03	31.82	25.70
Level 12		35.27	-	35.16	_
Level 13	39.34	39.93	_	40.80	_
Not able to be leveled		-	_	-	_
Engineers, architects, and surveyors		28.98	_	28.68	_
Level 8		22.69	_	22.69	_
Level 9		25.57	_	25.63	_
Level 11		32.86	_	32.63	_
Level 12		35.24	_	35.24	_
Mathematical and computer scientists		29.61	_	29.40	-
Level 9		27.62	_	27.21	-
Level 11		31.65	_	31.65	_
Natural scientists		_	_	-	-
Health related occupations		22.70	22.38	22.51	22.88
Level 8		20.12	_	19.39	21.55
Level 9		21.47	_	20.41	22.94
Level 10	24.21	24.21	_	_	-
Level 11	. 33.01	_	_	33.01	-
Teachers, college and university	27.33	32.15	26.18	28.92	18.91
Level 10		_	31.61	29.67	32.94
Level 11	26.91	22.90	30.63	26.54	_

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, Portland-Salem, OR-WA, August 1998 — Continued

		All workers 4	ŀ	All industries		
Occupational group ³ and level	All indus- tries	Private industry	State and local government	Full-time workers	Part-tim worker	
White-collar occupations (-Continued) Teachers, college and university (-Continued)						
Level 12	\$36.14	_	_	\$36.14	_	
Teachers, except college and university	25.30	\$19.34	\$26.15	25.49	\$22.0°	
Level 5	14.56	_	_	-	-	
Level 6	11.48				13.2	
Level 8	28.38	24.16	29.00	28.84	25.0	
Level 9 Librarians, archivists, and curators	25.80 –	18.49	26.02	25.83	25.0	
Social scientists and urban planners	19.87	17.48	22.21	21.39	_	
Level 9	18.93	17.40		19.52	_	
Social, religious, and recreation workers	16.10	16.07	16.12	16.54	_	
Lawyers and judges	_	_	_	_	_	
Writers, authors, entertainers, athletes, and						
professionals, N.E.C.	23.34	23.62		23.65	-	
Technical occupations	19.07	19.86	15.65	19.24	18.0	
Level 5	12.46	12.46	_	12.43	-	
Level 5 Level 6	13.36 15.95	13.94 15.42		12.40 15.20	16.4 18.7	
Level 7	19.95	21.87	_	19.34	10.7	
Level 8	21.85	24.59	_	21.85	_	
Level 9	24.58	24.58	_	24.52	_	
Executive, administrative, and managerial occupations	27.88	27.45	29.92	27.78	_	
Level 6	13.55	13.26	_	13.55	-	
Level 7	16.83	16.51	_	16.83	-	
Level 8	18.91	19.08		19.15	-	
Level 9	23.19	22.43	27.16	23.19	-	
Level 12	28.68	28.81	_	28.68	_	
Level 12 Level 13	38.22 40.65	37.67	_	38.22 40.65		
Level 14	63.46	61.96	_	61.96	_	
Executives, administrators, and managers	32.94	32.77	33.71	32.82	_	
Level 9	26.17	25.39	_	26.17	-	
Level 11	28.81	29.47	_	28.81	-	
Level 12	38.33	37.78	_	38.33	-	
Level 13	40.65		_	40.65	-	
Level 14	63.46	61.96	-	61.96	-	
Management related occupations Level 6	19.86 15.66	19.15 15.69	23.39	19.84 15.66	_	
Level 7	17.11	16.77	_	17.11	_	
Level 8	19.21	19.51	_	19.21	_	
Level 9	20.28	19.76	_	20.25	_	
Level 11	28.03	_	_	28.03	-	
Sales occupations	19.03	19.07	_	20.53	7.7	
Level 1	7.21	7.21	_	-	l <u>-</u> .	
Level 4	7.97	7.97	_	8.12	7.4	
Level 5	11.19 18.07	11.15 18.07		11.67	8.4	
Level 6	18.07 15.64	15.64	-	18.07 15.64		
Level 8	20.75	20.75	_	20.75	_	
Level 11	53.61	53.61	_	53.61	_	
Administrative support occupations, including clerical	12.62	12.49	12.96	12.96	10.2	
Level 1	7.90					
Level 2	9.10	9.01	9.82	9.20	9.0	
Level 4	10.19	10.16	10.27	9.96	11.0	
Level 5	11.97 12.86	11.47 12.69	12.54 13.97	12.03 12.85	11.3	
Level 6	15.28	14.87	18.53	15.29	_	
Level 7	16.82	17.46	15.89	16.80	_	
Level 8	20.98	20.98	-	20.98	_	
ue-collar occupations	13.71	13.37	17.66	13.89	10.5	
Level 1	7.91	7.90	-	7.48	9.50	
Level 2	9.63	9.65		9.56		

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, Portland-Salem, OR-WA, August 1998 — 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	
Di						
Blue-collar occupations (-Continued) Level 3	\$9.93	\$9.80	\$12.18	\$9.77	\$11.06	
Level 4	12.82	12.47	15.43	12.82	\$11.00	
Level 5	13.71	13.21	16.80	13.75	_	
Level 6	17.21	17.10	_	17.21	_	
Level 7	19.31	19.06	21.21	19.34	_	
Level 8	26.17	26.23	_	26.17	_	
Level 9	23.51	23.89	_	23.51	_	
Precision production, craft, and repair occupations	16.53	16.21	19.80	16.56	_	
Level 3	8.88	8.88	_	8.90	_	
Level 4	12.44	12.33	_	12.44	_	
Level 5	13.45	13.19	_	13.52	_	
Level 6 Level 7	15.45 19.75	14.85 19.53	21.22	15.45 19.75	_	
Level 8	27.67	27.67	21.22	27.67		
Level 9	23.51	23.89	_	23.51	_	
Machine operators, assemblers, and inspectors	12.23	12.20	_	12.25	_	
Level 1	7.35	7.35	_	7.37	_	
Level 2	9.57	9.57	_	9.57	_	
Level 3	9.85	9.84	_	9.67	_	
Level 4	11.86	11.76	_	11.86	_	
Level 5	12.55	12.45	_	12.55	_	
Level 6	16.46	16.46	_	16.46	_	
Level 7	18.22	18.22	-	18.22	-	
Transportation and material moving occupations	16.77	16.60	17.24	17.10	11.85	
Level 4	11.68 15.27	- 15.36	11.81 15.11	11.96 15.35	10.90	
Level 5	15.27	14.13	16.92	15.55	_	
Level 6	19.89	19.89	10.32	19.89	_	
Handlers, equipment cleaners, helpers, and laborers	10.73	10.41	15.45	10.81	10.23	
Level 1	8.22	8.22	_	7.61	9.74	
Level 2	9.87	9.92	_	9.78	_	
Level 3	9.88	9.75	_	9.65	_	
Level 4	13.22	12.62	_	13.23	-	
Level 5	14.39	14.21	_	14.39	_	
Service occupations	10.31	8.38	16.13	11.13	7.61	
Level 1	7.30	6.98	9.49	7.55	6.89	
Level 2	8.70	8.28	11.22	9.08	7.44	
Level 3	8.46	7.99	10.30	8.67	8.11	
Level 4	9.33	8.54	13.42	9.79	7.43	
Level 5	13.49	_	17.85	13.49	_	
Level 6	13.42	11.65		13.55	-	
Level 7	19.03	14.05	21.98	19.02		
Protective service occupations	15.89	8.49	19.77	16.33	8.43	
Level 5	9.91 16.90	_	17.85	- 16.90	_	
Level 7	22.04	_	22.04	22.04		
Food service occupations	7.75	7.53	10.08	8.12	7.15	
Level 1	6.72	6.50	-	6.64	6.81	
Level 2	6.92	6.70	_	6.86	7.00	
Level 3	7.68	7.32	_	7.86	7.51	
Level 4	7.52	7.14	1	7.89	6.91	

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, Portland-Salem, OR-WA, August 1998 — Continued

		All workers 4	ŀ	All industries		
Occupational group ³ and level	All indus- tries	Private industry	State and local government	Full-time workers	Part-time workers	
Service occupations (-Continued) Health service occupations Level 2 Level 3 Level 4 Cleaning and building service occupations Level 1 Level 2 Level 3 Personal service occupations	\$10.11 9.46 10.30 10.35 9.95 8.09 10.30 8.86 8.51	\$9.97 - 9.92 10.35 9.38 7.67 9.84 7.96 8.24	- - - \$11.49 - - - 11.96	\$10.08 - 10.42 10.34 10.43 8.86 10.52 8.80 8.50	\$10.22 - - - 7.32 6.58 - - 8.53	

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.

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.

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 unotons include fall the page 1.5.

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. IN THIS SURVEY, THE NONRESPONSE RATE FOR ALL INDUSTRIES AND PRIVATE INDUSTRY EXCEEDED REGULAR SURVEY STANDARDS FOR PUBLICATION. ACCORDINGLY, USERS SHOULD INTERPRET THESE RESULTS WITH THIS LIMITATION IN MIND.

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, Portland-Salem, OR-WA, August 1998

		All workers4		All industries		
Occupation ³ and level	All indus- tries	Private industry	State and local government	Full-time workers	Part-tim workers	
White-collar occupations:						
Professional specialty and technical occupations:						
Professional specialty occupations:						
Mechanical engineers	\$26.89	\$26.89	_	\$26.89	_	
Computer systems analysts and scientists	30.24	30.55		30.26		
Level 9			_	1	_	
	26.98	27.40	_	26.98	_	
Level 11	32.15	32.15	_	32.15	_	
Physicians	21.54		-			
Registered nurses	22.42	21.70	\$26.15	22.74	\$21.6	
Level 8	20.87	20.25	_	19.61	21.5	
Level 9	21.49	21.41	_	21.47	21.5	
Teachers, post secondary N.E.C	18.23	26.40	15.77	19.97	-	
Prekindergarten and kindergarten	17.98	_	_	_	-	
Elementary school teachers	25.93	_	26.32	25.96	_	
Level 8	30.49	_	_	30.49	_	
Level 9	25.84	_	25.87	25.86	l –	
Secondary school teachers	26.68	20.23	27.07	26.79	24.8	
Level 8	28.89	20.23		20.73		
Level 9	26.47	18.89	26.85	26.54	-	
		10.09			_	
Teachers, special education	24.52	_	24.31	24.58	-	
_ Level 9	23.90	_	23.90	23.90		
Teachers, N.E.C.	21.73	_	_	_	27.2	
Substitute teachers	14.08	_	_	_	14.0	
Vocational and educational counselors	25.38	_	_	25.84	-	
Psychologists	17.71	_	_	19.83	-	
Level 9	19.20	_	_	19.83	_	
Social workers	16.90	_	_	16.90	_	
Technical occupations:						
Clinical laboratory technologists and technicians	15.72	15.72	_	15.56	_	
Licensed practical nurses	15.03	15.27		- 10.00		
Level 5	14.51	15.27	_	_	_	
			_	1440	150	
Health technologists and technicians, N.E.C	14.55	15.10	_	14.48	15.0	
Level 5	12.42		_		-	
Electrical and electronic technicians	21.61	20.75	_	21.19	-	
Computer programmers	31.04	31.04	_	31.04	-	
Technical and related occupations, N.E.C	17.37	17.20	_	17.51	-	
Level 6	13.94	_	_	13.94	-	
Executive, administrative, and managerial occupations:						
Administrators and officials, public administration	40.70	_	40.70	36.28	-	
Financial managers	33.57	33.57	_	33.57	_	
Managers, marketing, advertising and public						
relations	40.07	40.07	_	40.07	_	
Level 12	42.81	42.81	_	42.81	_	
Administrators, education and related fields	32.99	23.68	I _	32.99	l -	
Level 11	36.70	23.00	I .	36.70	-	
Level 12		_			_	
	38.54	1	_	38.54	_	
Managers and administrators, N.E.C.	32.53	33.55	-	32.53	_	
Level 9	25.53	24.68	-	25.53	_	
Level 11	27.86	30.08	-	27.86	-	
Level 12	36.86	36.86	-	36.86	-	
Accountants and auditors	18.81	18.75	-	18.81	-	
Level 9	20.74	_	-	20.74	-	
Other financial officers	23.38	23.38	-	23.40	-	
Personnel, training, and labor relations			1			
specialists	17.34	17.39	-	17.34	-	
Management related occupations, N.E.C.	20.79	19.49	_	20.79	l –	
Sales occupations:	_50	.00	1			
Supervisors, sales occupations	22.51	22.51	_	22.74	l _	
			l Ī		-	
Sales workers, apparel	8.78	8.78		0.04	7.0	
Sales workers, other commodities	8.26	8.06	_	8.81	7.2	
Level 3	7.53	7.53	-	-	-	
Level 4	8.95	8.95	-	_	-	
Cashiers	9.61	9.51	-	9.89	-	
		1 707	I	I	I _	
Level 1	7.07	7.07	_	_	_	

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, Portland-Salem, OR-WA, August 1998 — 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
White-collar occupations: (-Continued)					
Sales occupations: (-Continued)					
Cashiers (-Continued)					
Level 4	\$11.68	\$11.58	_	\$11.68	_
Administrative support occupations, including clerical:	Ψσ	ψσσ		ψσσ	
Supervisors, general office	16.68	18.35	_	16.68	_
Secretaries	13.18	13.45	\$12.71	13.21	_
Level 4	11.55	11.03	11.82	11.55	_
Level 5	13.15	12.87		13.15	_
Level 6	14.60	14.59	_	14.60	_
Level 7	16.01	-	_	16.01	_
Receptionists	10.86	10.86	_	11.18	_
Level 3	10.30	10.86	_	11.10	_
	-		_	_	60.2
Information clerks, N.E.C.	13.15	11.79	_		\$9.24
Order clerks	11.84	11.46	_	12.08	_
Level 4	9.40	9.40	_	9.58	_
Level 5	12.04	11.66	-	12.04	-
Personnel clerks except payroll and timekeeping	14.36	_	_	_	-
Library clerks	11.59	_	11.59	_	-
Records clerks, N.E.C.	12.41	12.03	_	12.48	-
Level 4	12.87	_	_	12.87	-
Bookkeepers, accounting and auditing clerks	12.94	12.71	_	12.97	-
Level 3	9.45	9.45	_	9.45	-
Level 4	12.34	11.54	_	12.25	-
Level 5	12.95	12.95	_	_	-
Traffic, shipping and receiving clerks	12.42	12.42	_	12.42	_
Level 3	11.45	11.45	_	11.45	_
Level 4	13.02	13.02	_	13.02	_
Stock and inventory clerks	11.19	10.65	_	11.34	_
Level 3	9.65	9.65	_	9.66	_
Level 4	16.36	_	_	_	_
Insurance adjusters, examiners, and	10.00				
investigators	17.07	17.07	_	17.07	_
Investigators and adjusters except insurance	12.62	12.62	_	12.79	_
General office clerks	11.21	11.19	11.23	11.41	
Level 2	8.62	8.62	11.25		_
Level 3	10.36	11.20	_	9.56	_
			40.00		_
Level 4	11.86	11.51	12.00	11.86	_
Level 5	13.15	12.95		13.15	_
Data entry keyers	11.32	11.32	_	12.07	
Teachers' aides	11.37	_	11.34	12.06	10.9
Level 2	9.34	_	9.34		<u> </u>
Level 3	11.07		11.06	11.03	11.1
Administrative support occupations, N.E.C	14.44	13.66	14.95	14.82	9.3
Level 4	12.48	_	_	12.59	-
Level 7	17.34	-	_	17.34	-
Blue-collar occupations:					
Precision production, craft, and repair occupations:					
Supervisors, mechanics and repairers	26.05	27.19	_	26.05	-
Industrial machinery repairers	18.47	18.47	-	18.47	-
Level 7	18.58	18.58	-	18.58	-
Mechanics and repairers, N.E.C	14.58	14.43	_	14.58	-
Level 7	17.13	-	-	17.13	-
Electricians	20.88	19.88	-	20.88	-
Level 7	22.34	_	_	22.34	-
Construction trades, N.E.C.	16.46	_	15.85	16.46	-
Supervisors, production occupations	21.30	21.30	_	21.30	_
Machinists	20.57	20.57	_	20.57	_
Level 7	20.57	20.57	_	20.57	_
Electrical and electronic equipment assemblers	10.65	10.65	_	10.65	_
	11.21	11.21	_	11.21	_
Level 4					
Level 4			_	14 34	l –
Level 4	14.34	14.34	_	14.34	_

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, Portland-Salem, OR-WA, August 1998 — 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: (-Continued) Machine operators, assemblers, and inspectors:						
(-Continued)	A.= 00	0.5 00				
Fabricating machine operators, N.E.C.	\$15.32	\$15.32	_	\$15.32	-	
Molding and casting machine operators	11.97	11.97	_	11.97	-	
Printing press operators	19.75	20.21	_	19.93	_	
Packaging and filling machine operators	10.33	10.33	_	-	-	
Miscellaneous machine operators, N.E.C	11.93	11.93	_	11.93	_	
Level 4	11.84	11.84	_	11.84	_	
Level 5	12.08	12.08	_	12.08	_	
Welders and cutters	14.49	14.49	_	14.49	_	
Assemblers	10.94	10.94	_	11.02	_	
Level 5	12.00	12.00	_	12.00	_	
Miscellaneous hand working occupations, N.E.C.	8.66	8.66	_	8.66	_	
Production inspectors, checkers and examiners	11.42	11.42	_	11.42	_	
Production testers	12.53	12.53	_	12.53	_	
Transportation and material moving occupations:	47.00	47.07		47.00		
Truck drivers	17.60	17.87	_	17.60	_	
Level 4	15.18	_		15.18		
Bus drivers	14.61	_	\$14.61	-	\$12.2	
Level 3	11.81		11.81		-	
Industrial truck and tractor equipment operators	12.66	12.66	_	12.66	-	
Level 4	16.22	16.22	_	16.22	-	
Handlers, equipment cleaners, helpers, and laborers:						
Helpers, mechanics and repairers	11.29	_	_	11.29	-	
Construction laborers	12.84	12.90	_	13.30	-	
Production helpers	9.81	9.81	_	9.81	-	
Stock handlers and baggers	9.46	9.46	_	10.23	-	
Level 1	6.85	6.85	_		-	
Machine feeders and offbearers	9.36	9.36	_	9.36	-	
Freight, stock, and material handlers, N.E.C	11.51	11.51	_	11.26	-	
Level 2	11.71	11.71	_		-	
Level 4	12.94	12.94	_	12.94	_	
Hand packers and packagers	8.76	8.76	_	8.56	_	
Laborers except construction, N.E.C.	11.59	10.72	_	11.77	_	
Level 1	8.75	8.75	_	_	_	
Level 4	13.24	_	_	13.38	_	
Service occupations:						
Protective service occupations:	0.00	7.02	10.00	0.33		
Guards and police except public service	9.20	7.93	12.86	9.32	_	
Level 3	10.24	_	-	_	_	
Food service occupations:			1			
Supervisors, food preparation and service occupations	11.89	11.89	l <u>.</u>	11.89		
Waiters and waitresses			_	11.09	5.7	
Cooks	5.90 9.23	5.90 8.58	10.43	9.03		
Level 3	9.46	- 0.30	10.43	9.03	9.6 –	
Level 4	9.78	9.23	_	9.61		
Food counter, fountain, and related occupations	6.66	6.60		3.01	6.2	
Kitchen workers, food preparation	8.28	8.15	_	7.99		
Level 2	7.39	0.13			_	
Level 2	8.57	8.57	_	8.34		
Waiters'/Waitresses' assistants	6.19	6.03	I _	- 0.34	6.5	
Level 1	6.29	6.07	_	l _		
Food preparation occupations, N.E.C.	7.18	7.07	I _	6.93	7.6	
Level 1	6.77	6.53	_		7.0	
Level 2	7.64	7.64	1 <u>-</u>	7.17	8.4	
Health service occupations:	7.04	7.04	_	'.''	0.4	
Health aides, except nursing	13.27	13.30	_	_	l _	
Nursing aides, orderlies and attendants	9.54	9.29	l -	9.42	10.0	
Level 3	10.15	9.29	l -	3.42	10.0	
Level 4	9.79	9.01	1 Ī	9.82	_	
		9/9	_	90/	. –	

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, Portland-Salem, OR-WA, August 1998 — Continued

		All workers ⁴		All industries		
Occupation ³ and level	All indus- tries	Private industry	State and local government	Full-time workers	Part-time workers	
Service occupations: (-Continued) Cleaning and building service occupations: Supervisors, cleaning and building service workers Janitors and cleaners Level 1 Level 2 Level 3 Personal service occupations: Child care workers, N.E.C. Level 3 Service occupations, N.E.C.	9.78 8.09 10.65 9.76 8.29 8.24	- \$9.04 7.67 10.25 - - -	- \$11.35 - - - - 11.32 -	\$13.59 10.23 8.86 10.66 9.74 - -	- \$7.16 6.58 - - 8.74 -	

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.

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.

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. IN THIS SURVEY, THE NONRESPONSE RATE FOR ALL INDUSTRIES AND PRIVATE INDUSTRY EXCEEDED REGULAR SURVEY STANDARDS FOR PUBLICATION. ACCORDINGLY, USERS SHOULD INTERPRET THESE RESULTS WITH THIS LIMITATION IN MIND.

Table C-1. Mean hourly earnings¹ by occupational group and selected characteristics, all industries, Portland-Salem, OR-WA, August 1998

Occupational group ²	Full-time workers ³	Part-time workers ³	Union ⁴	Nonunion ⁴	Time ⁵	Incentive ⁵
All occupations	\$17.32	\$11.73	\$16.94	\$16.69	\$16.40	\$34.42
All occupations excluding sales		12.05	17.13	16.36	16.55	30.29
White-collar occupations	20.51	14.17	18.46	20.43	19.35	35.96
White-collar excluding sales	20.50	15.20	18.99	20.41	19.92	_
Professional specialty and technical occupations	24.56	20.31	23.78	24.31	24.12	_
Professional specialty occupations	25.90	21.25	24.64	26.02	25.47	_
Technical occupations	19.24	18.01	14.94	19.79	19.07	_
Executive, administrative, and managerial occupations	27.78	_	21.60	28.87	27.60	_
Sales occupations	20.53	7.75	11.12	20.55	13.46	35.53
Administrative support including clerical occupations	12.96	10.25	12.79	12.56	12.62	_
Blue-collar occupations	13.89	10.59	15.94	12.31	13.64	_
Precision production, craft, and repair occupations	16.56	_	18.95	15.12	16.33	_
Machine operators, assemblers, and inspectors	12.25	_	14.91	11.24	12.23	_
Transportation and material moving occupations	17.10	11.85	18.15	14.37	16.77	_
Handlers, equipment cleaners, helpers, and laborers	10.81	10.23	12.02	9.77	10.73	_
Service occupations	11.13	7.61	14.12	8.45	10.31	_

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.

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.

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

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

bonuses.

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 THIS SURVEY, THE NONRESPONSE RATE FOR ALL INDUSTRIES AND PRIVATE INDUSTRY EXCEEDED REGULAR SURVEY STANDARDS FOR PUBLICATION. ACCORDINGLY, USERS SHOULD INTERPRET THESE RESULTS WITH THIS LIMITATION IN MIND.

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.

collective bargaining.

Time workers' wages are based solely on an hourly rate or salary; incentive workers are those whose wages are at least partially based on productivity payments such as piece rates, commissions, and production

Table C-2. Mean hourly earnings1 by occupational group and industry division, private industry, all workers2, Portland-Salem, OR-WA, August 1998

		Good	s-produc	ing indus	stries ⁴	S	ervice-pr	oducing	industries	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	\$16.09 15.83	\$17.31 17.27	- -	- -	\$16.82 16.77	<u>-</u>	_ _	- -	- -	_ _
White-collar occupations	19.76 19.89	24.24 24.37	_ _	_ _	23.95 24.09	_ _	_ _	_ _	_ _	_ _
Professional specialty and technical occupations	24.30 26.00	27.28 29.02 19.14	_ _	_ _	27.15 28.99	- -	_ _	_ _	_ _	_ _
Technical occupations Executive, administrative, and managerial occupations Sales occupations	19.86 27.45 19.07	30.25 20.37	_ _ _	_ _ _	19.14 30.52 20.37	-	_ _ _	_ _ _	_ 	_ _ _
Administrative support, including clerical occupations	12.49	12.56	_	_	12.36	-	_	_	_	_
Blue-collar occupations	13.37 16.21	13.65 15.81	_	_	12.94 14.94	_	_	_	_	_
Machine operators, assemblers, and inspectors	12.20 16.60 10.41	12.58 17.51 11.07	_ _ _	_ _ _	12.56 13.88 10.61	-	_ _ _	_ _ _	_ 	_ _ _
Service occupations	8.38	11.06	_	_	11.06	-	_	_	_	_

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,

and retail trade; finance, insurance, and real estate; and services.

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 THIS SURVEY, THE NONRESPONSE RATE FOR ALL INDUSTRIES AND PRIVATE INDUSTRY EXCEEDED REGULAR SURVEY STANDARDS FOR PUBLICATION. ACCORDINGLY, USERS SHOULD INTERPRET THESE RESULTS WITH THIS LIMITATION IN MIND.

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.

3 A classification sustain industrial at the following schedule.

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.
 Service-producing industries include transportation and public utilities; wholesale

Table C-3. Mean hourly earnings¹ by occupational group and establishment employment size, private industry, all workers², Portland-Salem, OR-WA, August 1998

			100	workers or r	more
Occupational group ³	All private industry workers	50 - 99 workers	Total	100 - 499 workers	500 workers or more
All occupations	\$16.09 15.83	\$15.41 13.55	\$16.28 16.37	\$15.50 15.59	\$17.67 17.69
White-collar occupations		20.32 18.26	19.62 20.17	18.62 19.32	21.14 21.32
Professional specialty and technical occupations	26.00 19.86 27.45	21.87 26.06 17.58 27.91 23.68 12.01	24.63 26.00 20.47 27.37 14.67 12.59	23.82 24.06 23.21 26.74 14.27 12.46	25.17 27.23 18.28 29.44 16.85 12.84
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	16.21 12.20 16.60	12.74 16.87 10.32 14.86 10.14	13.51 16.04 12.46 16.92 10.50	13.55 17.32 12.51 15.93 10.47	13.44 14.31 12.39 – 10.61
Service occupations	8.38	7.69	8.78	8.48	9.77

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

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 THIS SUR-VEY, THE NONRESPONSE RATE FOR ALL INDUSTRIES AND PRIVATE INDUSTRY EXCEEDED REGULAR SURVEY STANDARDS FOR PUBLICATION. ACCORDINGLY, USERS SHOULD INTERPRET THESE RESULTS WITH THIS LIMITATION IN MIND.

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 classified into one of nine major occupational groups.

Table C-4. Number of workers¹ represented by occupational group, Portland-Salem, OR-WA, August 1998

		All workers	
Occupational group ²	All industries	Private industry	State and local govern- ment
All occupations All occupations excluding sales	503,623	386,383	117,240
	472,127	355,118	117,008
White-collar occupations	286,291	199,165	87,127
	254,795	167,900	86,895
Professional specialty and technical occupations	113,195	63,324	49,871
	91,905	46,101	45,804
	21,290	17,223	4,067
	38,125	30,978	7,147
	31,496	31,265	-
	103,475	73,598	29,877
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	151,022	137,744	13,278
	42,322	38,647	3,675
	46,955	46,415	-
	20,506	14,143	6,363
	41,240	38,539	2,700
Service occupations	66,309	49,474	16,835

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 THIS SURVEY, THE NONRE-SPONSE RATE FOR ALL INDUSTRIES AND PRIVATE INDUSTRY EXCEEDED REGULAR SURVEY STANDARDS FOR PUBLICATION. ACCORDINGLY, USERS SHOULD INTERPRET THESE RESULTS WITH THIS LIMITATION IN MIND.

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 Portland-Salem, OR-WA, Metropolitan Statistical Area includes Clackamas, Columbia, Marion, Multnomah, Polk, Washington, and Yamhill Counties, OR; and Clark County, WA.

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:

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

For each occupation, wage data were collected for those workers who met all the criteria identified in the last three steps. Special procedures were developed for jobs for

which a correct classification or level could not be determined.

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

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

The number of jobs 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
- Supervisory duties

Work environment

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 consid-

ers to be full time.

Incentive worker. Any employee whose earnings are tied, at least in part, to commissions, piece rates, production bonuses, or other incentives based on production or sales.

Level. A ranking of an occupation based on the requirements of the position. (See the description 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 nonre-

sponding occupations within responding establishments were classified into cells that were additionally defined by major occupation group and job level.

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

Survey response

	Establish-
	ments
Total in sample	387
Responding	242
Out of business or not in	
survey scope	19
Unable or refused to pro-	
vide data	126

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, Portland-Salem, OR-WA, August 1998

	Niverband	Number of establishments studied					
Industry	Number of establishments represented	Total studied 50 - 99 workers			10	0 workers or m	ore
,					Total	100 - 499 workers	500 workers or more
All industries	2,858	241	64	177	106	71	
Private industry	2,718	205	63	142	97	45	
Goods-producing industries	635	66	15	51	32	19	
Mining	5	3	2	1	1	_	
Construction	110	5	2	3	3	_	
Manufacturing	521	58	11	47	28	19	
Service-producing industries	2,083	139	48	91	65	26	
Tranportation and public utilities	237	8	3	5	3	2	
Wholesale and retail trade	926	45	25	20	18	2	
Finance, insurance and real estate	144	11	1	10	5	5	
Services	777	75	19	56	39	17	
State and local government	140	36	1	35	9	26	

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, Portland-Salem, OR-WA, August 1998

(in percent)

Occupation ³	All indus- tries	Private industry	State and local govern-ment
occupations	2.1	2.7	2.1
All occupations excluding sales	1.9	2.4	2.1
White-collar occupations	2.5	3.3	2.7
White-collar occupations excluding sales	2.1	2.8	2.7
Professional specialty and technical occupations	2.0	2.6	2.8
Professional specialty occupations	1.9	2.4	2.8
Engineers, architects, and surveyors Mechanical engineers	3.7 4.1	3.8 4.1	_
Mathematical and computer scientists	3.2	3.3	_
Computer systems analysts and scientists	2.9	2.9	_
Natural scientists			_
Health related occupations	3.0	2.8	8.7
Physicians	16.0	_	-
Registered nurses Teachers, college and university	2.5 6.3	1.7 13.7	7.2 7.3
Teachers, post secondary N.E.C.	12.7	25.3	12.9
Teachers, except college and university	3.2	8.1	3.6
Prekindergarten and kindergarten	17.8	_	_
Elementary school teachers	3.7	_	3.6
Secondary school teachers	3.2	8.0	3.5
Teachers, special education	7.4	_	7.6
Teachers, N.E.C	2.9 4.0	_	_
Vocational and educational counselors	11.5	_	_
Librarians, archivists, and curators	-	_	_
Social scientists and urban planners	10.9	21.2	7.1
Psychologists	14.9	_	-
Social, recreation, and religious workers	5.4	10.4	6.0
Social workers	4.5	_	_
Lawyers and judges Writers, authors, entertainers, athletes, and	_	_	_
professionals, N.E.C.	5.1	5.1	_
Technical occupations	7.4	8.3	6.9
Clinical laboratory technologists and technicians	5.8	5.8	_
Licensed practical nurses	3.8	3.9	_
Health technologists and technicians, N.E.C	5.8	6.1 9.7	_
Electrical and electronic technicians Computer programmers	8.4 13.2	13.2	_
Technical and related occupations, N.E.C.	7.3	8.8	_
Executive, administrative, and managerial occupations	3.6	4.2	6.0
Executives, administrators, and managers	3.8	4.2	9.6
Administrators and officials, public administration	11.5		11.5
Financial managers	11.3	11.3	_
Managers, marketing, advertising and public relations	4.6	4.6	
Administrators, education and related fields	10.3	9.4	_
Managers and administrators, N.E.C.	5.2	5.4	_
Management related occupations	2.9	2.7	5.6
Accountants and auditors	3.3	3.6	_
Other financial officers	6.5	6.5	-
Personnel, training, and labor relations	2.0	2.6	
specialists Management related occupations, N.E.C	3.2 8.0	3.6 6.8	-
Sales occupations	13.7	13.8	_
Supervisors, sales occupations	11.2	11.2	_
Sales workers, apparel	14.7	14.7	_
Sales workers, other commodities	4.8	4.4	-
Cashiers	7.8	8.0	
Administrative support occupations, including clerical	1.7	1.8	3.5
Supervisors, general office	7.9 2.5	8.2 3.3	3.1
Receptionists	4.1	4.1	
			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, Portland-Salem, OR-WA, August 1998 — Continued

(in percent)

Occupation ³	All indus- tries	Private industry	State an local government
White-collar occupations (-Continued)			
Administrative support occupations, including clerical			
(-Continued)			
Order clerks	5.0	4.6	_
Personnel clerks except payroll and timekeeping	7.5	_	_
Library clerks	3.2	_	3.2
Records clerks, N.E.C.	3.6	3.8	-
Bookkeepers, accounting and auditing clerks	3.7	4.0	-
Traffic, shipping and receiving clerks	4.9	4.9	-
Stock and inventory clerks	6.9	6.3	-
Insurance adjusters, examiners, and	5 0		
investigators	5.3	5.3	_
Investigators and adjusters except insurance	9.9 2.4	9.9	
General office clerks Data entry keyers	2.4 11.5	3.2 11.5	3.5
Teachers' aides	4.6	11.5	4.7
Administrative support occupations, N.E.C.	6.6	7.1	9.6
Administrative support sesapations, A.E.S.	0.0		0.0
Blue-collar occupations	2.8	3.0	3.5
Precision production, craft, and repair occupations	3.9	4.2	6.2
Supervisors, mechanics and repairers	7.4	8.2	_
Industrial machinery repairers	4.7	4.7	-
Mechanics and repairers, N.E.C.	5.6	6.0	-
Electricians	8.2	11.8	
Construction trades, N.E.C.	3.4	_	4.2
Supervisors, production occupations	8.4	8.4	-
Machinists	8.9	8.9	_
Electrical and electronic equipment assemblers Inspectors, testers, and graders	6.0 6.1	6.0 6.1	_
Machine operators, assemblers, and inspectors	4.4	4.4	_
Numerical control machine operators	6.8	7.5	_
Fabricating machine operators, N.E.C.	15.9	15.9	_
Molding and casting machine operators	14.9	14.9	-
Printing press operators	8.0	8.7	-
Packaging and filling machine operators	20.6	20.6	-
Miscellaneous machine operators, N.E.C	4.7	4.7	-
Welders and cutters	3.7	3.7	-
Assemblers	6.4	6.4	_
Miscellaneous hand working occupations, N.E.C. Production inspectors, checkers and examiners	10.8 7.1	10.8 7.1	_
Production testers	11.8	11.8	_
Transportation and material moving occupations	4.2	5.3	5.7
Truck drivers	6.2	6.6	_
Bus drivers	4.9	-	4.9
Industrial truck and tractor equipment operators	7.9	7.9	_
Handlers, equipment cleaners, helpers, and laborers	3.6	3.8	2.1
Helpers, mechanics and repairers	21.7	_	_
Construction laborers	10.7	11.8	-
Production helpers	10.5	10.5	-
Stock handlers and baggers	12.1	12.1	_
Machine feeders and offbearers	8.1	8.1	_
Freight, stock, and material handlers, N.E.C Hand packers and packagers	5.5 6.5	5.5 6.5	_
Laborers except construction, N.E.C.	4.9	4.7	_
2000.0.0 0.00pt oouuduut, 14.2.0			
Service occupations	3.7	2.4	4.1
Protective service occupations	9.4	9.4	3.2
Guards and police except public service	10.1	6.8	5.6
Food service occupations	2.5	2.4	4.3
Supervisors, food preparation and service occupations	5.2	5.2	_
Waiters and waitresses	2.7	2.7	
Cooks	3.3	2.7	6.3
Food counter, fountain, and related occupations	2.3	2.1	-

Appendix table 2. Relative standard errors of mean hourly earnings¹ for selected occupations, all industries, private industry, and State and local government, all workers², Portland-Salem, OR-WA, August 1998 — Continued

(in percent)

Occupation ³	All indus- tries	Private industry	State and local government
Service occupations (-Continued) Food service occupations (-Continued) Kitchen workers, food preparation Waiters'/Waitresses' assistants Food preparation occupations, N.E.C. Health service occupations Health aides, except nursing Nursing aides, orderlies and attendants Cleaning and building service occupations Supervisors, cleaning and building service workers Janitors and cleaners Personal service occupations Child care workers, N.E.C. Service occupations, N.E.C.	4.2 5.1 7.7 5.6	3.5 1.9 3.0 5.1 7.1 4.5 6.5 - 7.5 4.6 -	- - - - 4.8 - 4.9 8.7 6.7

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 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

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 THIS SURVEY, THE NONRESPONSE RATE FOR ALL INDUSTRIES AND PRIVATE INDUSTRY EXCEEDED REGULAR SURVEY STANDARDS FOR PUBLICATION. ACCORDINGLY, USERS SHOULD INTERPRET THESE RESULTS WITH THIS LIMITATION IN MIND.

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.

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.

Appendix table 3. Average work levels for selected occupations, all workers, full-time and part-time workers, Portland-Salem, OR-WA, August 1998

Occupation ¹	All workers	Full-time workers	Part-time workers
All occupations	6	6	4
All occupations excluding sales	6	6	4
White-collar occupations	7	7	5
White-collar occupations excluding sales	7	7	6
Professional specialty and technical occupations	9	9	8
Professional specialty occupations		9	8
Engineers, architects, and surveyors Mechanical engineers		10 10	_
Mathematical and computer scientists		10	_
Computer systems analysts and scientists		10	-
Natural scientists Health related occupations		9	9
Physicians	1	_	-
Registered nurses	9	9	8
Teachers, college and university Teachers, post secondary N.E.C.		10 8	9
Teachers, except college and university		9	7
Prekindergarten and kindergarten		_	-
Elementary school teachers		9	- 8
Teachers, special education		9	-
Teachers, N.E.C.	I .	_	9
Substitute teachers Vocational and educational counselors	6 9	9	6
Librarians, archivists, and curators	1	_	_
Social scientists and urban planners	8	8	-
PsychologistsSocial, recreation, and religious workers		9 7	_
Social workers	1	8	_
Lawyers and judges	-	_	-
Writers, authors, entertainers, athletes, and professionals, N.E.C.	9	9	
Technical occupations	1	7	6
Clinical laboratory technologists and technicians	6	6	_
Licensed practical nurses Health technologists and technicians, N.E.C		_ 6	– 5
Electrical and electronic technicians		8	-
Computer programmers	8	8	-
Technical and related occupations, N.E.C Executive, administrative, and managerial occupations		7 10	-
Executives, administrators, and managers		11	_
Administrators and officials, public administration	12	11	-
Financial managers		11 12	_
Administrators, education and related fields		11	_
Managers and administrators, N.E.C.	11	11	_
Management related occupations		8	_
Other financial officers		8 10	_
Personnel, training, and labor relations specialists		8	-
Management related occupations, N.E.C.		9	-
Sales occupations		6 8	3 -
Sales workers, apparel	3	_	_
Sales workers, other commodities		4	4
Cashiers Administrative support occupations, including clerical		3 5	3
Supervisors, general office		7	-
Secretaries		5	-
Receptionists	3 5	3 –	3
Order clerks	5	5	_
Personnel clerks except payroll and timekeeping		_	_
Library clerksRecords clerks, N.E.C.		_ 5	_
Bookkeepers, accounting and auditing clerks	5	5	-
Traffic, shipping and receiving clerks	4	4	_

Appendix table 3. Average work levels for selected occupations, all workers, full-time and part-time workers, Portland-Salem, OR-WA, August 1998 — Continued

Occupation ¹	All workers	Full-time workers	Part-time workers
White-collar occupations (-Continued)			
Administrative support occupations, including clerical			
(-Continued) Stock and inventory clerks	3	3	_
Insurance adjusters, examiners, and investigators		6	_
Investigators and adjusters except insurance		5	_
General office clerks		4	_
Data entry keyers		4	_
Teachers' aides		3	3
Administrative support occupations, N.E.C	5	6	3
Blue-collar occupations	4	5	3
Precision production, craft, and repair occupations		6	_
Supervisors, mechanics and repairers	8	8	_
Industrial machinery repairers	7	7	_
Mechanics and repairers, N.E.C.		6	_
Electricians		7	-
Construction trades, N.E.C.		5	-
Supervisors, production occupations		8	_
Machinists	1	7 4	_
Electrical and electronic equipment assemblers		5	_
Inspectors, testers, and graders Machine operators, assemblers, and inspectors		4	_
Numerical control machine operators	6	6	_
Fabricating machine operators, N.E.C.		6	_
Molding and casting machine operators		5	_
Printing press operators	6	6	_
Packaging and filling machine operators		_	_
Miscellaneous machine operators, N.E.C.	4	4	_
Welders and cutters	6	6	_
Assemblers	3	3	_
Miscellaneous hand working occupations, N.E.C		2	_
Production inspectors, checkers and examiners		4	_
Production testers		5	<u> </u>
Transportation and material moving occupations		5	4
Truck drivers	1	5	
Bus drivers	1	3	4
Industrial truck and tractor equipment operators Handlers, equipment cleaners, helpers, and laborers		3	2
Helpers, mechanics and repairers	4	4	
Construction laborers		4	_
Production helpers		3	_
Stock handlers and baggers		3	_
Machine feeders and offbearers		2	_
Freight, stock, and material handlers, N.E.C		3	_
Hand packers and packagers		2	_
Laborers except construction, N.E.C.	3	3	_
Service occupations	3	4	3
Protective service occupations	5	5	2
Guards and police except public service		3	_
Food service occupations		4	3
Supervisors, food preparation and service occupations	7	7	_
Waiters and waitresses		- .	3
Cooks		4	3
Food countage formation and and the discountage	3	-	2
Food counter, fountain, and related occupations	ا ہ	1 2	
Food counter, fountain, and related occupations Kitchen workers, food preparation Waiters'/Waitresses' assistants		3	2

Appendix table 3. Average work levels for selected occupations, all workers, full-time and part-time workers, Portland-Salem, OR-WA, August 1998 — Continued

Occupation ¹	All workers		Part-time workers
Service occupations (-Continued) Health service occupations Health aides, except nursing Nursing aides, orderlies and attendants Cleaning and building service occupations Supervisors, cleaning and building service workers Janitors and cleaners Personal service occupations Child care workers, N.E.C. Service occupations, N.E.C.	4 3 2 6 2 3 3	3 - 3 3 6 2 4 - -	3 - 3 2 - 2 3 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. 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."