Raleigh-Durham-Chapel Hill, NC National Compensation Survey July 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 Raleigh-Durham-Chapel Hill, NC 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 1 for selected occupations, all workers 2 , all industries, Raleigh-Durham-Chapel Hill, NC, July 1998

			All in	dustries					
Occupation ³		Percentiles							
·	Mean	10	25	Median 50	75	90			
All occupations	\$16.55	\$7.23	\$9.31	\$13.46	\$20.58	\$29.8			
All occupations excluding sales	16.58	7.28	9.34	13.34	20.66	29.8			
3 G									
White-collar occupations	20.03	9.23	11.53	16.82	25.14	33.9			
White-collar occupations excluding sales	20.42	9.50	11.69	17.09	25.63	34.5			
Professional specialty and technical occupations	24.45	13.76	16.73	22.01	29.07	37.0			
Professional specialty occupations	26.32	14.90	18.27	23.72	30.47	38.3			
Engineers, architects, and surveyors	28.41	17.61	21.19	28.01	34.13	41.2			
Civil engineers	23.03	17.61 17.47	19.25 17.47	20.42	24.00 34.13	34.6 41.2			
Industrial engineers	26.77		30.02	27.76	41.88	44.6			
Engineers, N.E.C Mathematical and computer scientists	35.29 28.72	23.72 19.33	23.04	36.57 28.37	32.85	38.3			
Computer systems analysts and scientists	28.71	19.33	23.22	28.51	33.01	38.3			
Operations and systems researchers and	20.71	19.55	23.22	20.51	33.01	30.3			
analysts	28.45	19.99	22.12	25.06	30.27	47.1			
Natural scientists	26.05	18.78	21.01	24.96	30.62	36.8			
Chemists, except biochemists	27.09	15.25	22.12	26.13	33.51	39.2			
Medical scientists	23.94	19.16	19.55	24.96	24.96	32.4			
Health related occupations	17.98	13.10	15.65	16.75	20.47	23.1			
Registered nurses	19.21	15.17	16.19	18.64	22.31	23.1			
Teachers, college and university	-		-						
Teachers, except college and university	19.50	14.34	15.70	18.59	22.73	25.9			
Elementary school teachers	20.03	15.10	16.17	19.24	22.99	26.4			
Secondary school teachers	19.02	13.63	14.22	18.00	22.45	25.7			
Librarians, archivists, and curators	-	-	_	-	_				
Social scientists and urban planners	25.96	22.52	23.55	26.00	29.82	30.5			
Social, recreation, and religious workers	13.85	10.20	10.97	13.70	15.78	18.4			
Social workers	13.85	10.20	10.97	13.70	15.78	18.4			
Lawyers and judges	_	_	_	_	_	_			
Writers, authors, entertainers, athletes, and									
professionals, N.E.C.	17.80	11.55	14.42	16.11	19.92	24.4			
Professional occupations, N.E.C.	23.09	14.42	16.32	20.19	26.60	34.1			
Technical occupations	17.34	10.76	13.39	16.73	19.92	25.9			
Clinical laboratory technologists and technicians	15.66	12.07	12.07	15.70	17.70	20.1			
Electrical and electronic technicians	21.34	15.63	16.95	22.02	22.81	29.7			
Engineering technicians, N.E.C.	16.88	11.70	13.76	17.52	21.36	22.3			
Computer programmers	22.61	16.18	19.07	22.65	26.65	29.3			
Technical and related occupations, N.E.C	12.67	8.20	9.07	10.78	16.15	19.5			
Executive, administrative, and managerial occupations	27.63	15.55	18.51	25.17	33.70	41.8			
Executives, administrators, and managers	34.15	21.39	25.96	31.50	39.91	48.1			
Administrators and officials, public administration	24.09	14.26	18.51	18.65	26.44	41.7			
Financial managers	33.17	26.44	28.04	30.34	35.07	45.6			
Managers, marketing, advertising and public	40.04	27.72	27.00	20.70	44.00	F0.7			
relations	40.21 27.69	27.72 12.49	37.09 16.08	38.70 26.04	41.83 37.17	52.7 40.5			
Managers, service organizations, N.E.C	37.08	21.73	25.17		44.31	59.3			
Management related occupations	20.35	14.29	16.12	19.47	23.97	28.5			
Accountants and auditors	26.12	18.53	21.01	25.87	30.77	33.3			
Other financial officers	18.78	12.60	15.53	19.12	20.06	26.3			
Personnel, training, and labor relations	10.70	12.00	10.00	13.12	20.00	20.0			
specialists	19.50	14.01	16.12	20.52	22.14	25.1			
Purchasing agents and buyers, N.E.C.	19.98	15.15	16.38	18.44	21.15	27.6			
Management related occupations, N.E.C	17.58	12.95	15.55	16.34	19.13	20.7			
Sales occupations	16.07	6.50	8.18	14.72	18.93	29.1			
Advertising and related sales occupations	30.27	14.42	26.44	29.90	33.99	45.0			
Cashiers	7.16	6.00	6.30	6.60	7.00	8.5			
Administrative support occupations, including clerical	11.26	8.52	9.40	10.82	12.50	14.5			
Supervisors, general office	17.40	11.30	11.30	17.09	23.53	25.3			
Secretaries	12.87	10.03	11.69	12.29	14.42	16.0			
Order clerks	12.60	8.25	10.58	13.70	16.33	16.5			
Records clerks, N.E.C.	11.85	9.23	10.50	12.02	13.24	14.6			
Bookkeepers, accounting and auditing clerks	10.83	8.35	9.00	10.72	12.07	13.8			
Traffic, shipping and receiving clerks	10.16	8.05	8.50	8.80	11.99	13.3			
Investigators and adjusters except insurance	11.20	9.43	9.76	10.72	11.39	14.4			
General office clerks	10.74	8.52	9.40	10.54	12.02	13.3			

Table A-1. Hourly earnings¹ for selected occupations, all workers², all industries, Raleigh-Durham-Chapel Hill, NC, July 1998 — Continued

			All in	dustries		
Occupation ³				Percentil	es	
·	Mean	10	25	Median 50	75	90
White-collar occupations (-Continued) Administrative support occupations, including clerical (-Continued)						
Data entry keyersAdministrative support occupations, N.E.C	\$9.90 13.16	\$8.89 8.77	\$9.35 10.82	\$9.64 14.56	\$10.10 14.56	\$11.44 16.74
Blue-collar occupations Precision production, craft, and repair occupations Mechanics and repairers, N.E.C. Supervisors, production occupations Electrical and electronic equipment assemblers Machine operators, assemblers, and inspectors Packaging and filling machine operators Miscellaneous machine operators, N.E.C. Assemblers Transportation and material moving occupations Truck drivers Bus drivers Handlers, equipment cleaners, helpers, and laborers Stock handlers and baggers Freight, stock, and material handlers, N.E.C. Hand packers and packagers Laborers except construction, N.E.C.	11.49 14.52 13.99 17.66 8.30 10.59 10.96 12.25 10.22 10.75 13.01 7.88 8.76 8.69 9.13 7.69	7.00 7.96 10.40 9.25 7.13 6.90 9.62 8.43 7.45 6.50 8.00 6.50 6.50 5.75 6.85	7.96 11.26 11.00 10.25 7.38 8.02 10.31 9.08 8.02 7.00 9.32 7.00 7.25 6.75 7.10 6.10 7.25	10.50 14.54 14.57 18.97 7.94 10.41 10.39 11.55 10.02 9.40 10.81 7.50 8.00 8.72 7.80 7.30	14.21 17.15 15.89 22.69 8.65 12.51 11.24 14.49 11.44 12.05 17.96 8.39 9.95 10.00 10.63 9.40 8.00	17.50 20.76 17.01 24.38 11.46 14.59 14.19 18.49 13.81 18.36 21.15 10.07 11.32 10.50 11.31 9.90 9.87
Service occupations Protective service occupations Supervisors, police and detectives Firefighting occupations Police and detectives, public service Food service occupations Waiters and waitresses Kitchen workers, food preparation Food preparation occupations, N.E.C. Health service occupations Nursing aides, orderlies and attendants Cleaning and building service occupations Maids and housemen Janitors and cleaners Personal service occupations	8.83 11.42 22.12 17.10 15.97 6.97 3.86 7.67 7.22 8.18 8.26 7.74 7.83 7.26 9.13	5.82 6.71 17.20 8.54 11.30 2.57 2.13 6.00 5.82 6.50 6.00 5.75 6.00 5.75 6.75	6.50 7.36 21.99 8.97 12.44 5.94 2.13 7.00 5.95 7.37 7.99 6.15 6.08 6.00 7.00	7.67 9.37 22.80 14.41 16.78 6.80 2.57 7.50 6.75 8.00 8.14 7.00 6.98 7.00 8.05	9.63 12.90 22.81 23.69 19.29 8.00 6.50 8.75 8.12 8.78 8.93 8.63 9.07 7.95	13.19 20.60 24.89 26.85 20.60 10.49 6.80 9.00 10.50 9.45 9.85 9.95 11.02 9.63 10.78

¹ Earnings are the straight-time hourly wages or salaries paid tearnings are the straight-time nounry 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 the pay of the property of the payments. 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

establishment, but classified as part-time in another firm, where 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."

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

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

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

Table A-2. Hourly earnings¹ for selected occupations, all workers², private industry and State and local government, Raleigh-Durham-Chapel Hill, NC, July 1998

			Private	e industry				State	and loc	al govern	ment	
Occupation ³				Percentil	es				F	Percentile	s	
	Mean	10	25	Median 50	75	90	Mean	10	25	Median 50	75	90
All occupationsAll occupations excluding sales		\$7.00 7.00	\$8.75 8.75	\$13.04 12.85	\$20.69 20.79	\$30.58 30.93	\$17.28 17.28	\$8.77 8.76	\$10.34 10.34	\$14.22 14.22	\$20.49 20.52	\$26.85 26.85
White-collar occupations	20.72	8.87	12.07	17.55	27.16	35.19	18.69	9.41	10.71	15.50	21.98	28.04
White-collar occupations excluding sales	21.46	9.60	12.50	18.53	27.88	36.74	18.70	9.41	10.71	15.51	21.98	28.04
Professional specialty and technical		40.40										
occupations Professional specialty occupations	24.62 26.44	13.46 14.88	17.30 19.23	22.93 25.63	30.53 32.41	37.23 38.36	24.15 26.11	14.15 15.10	16.55 17.54	20.09	25.04 25.74	36.70
Engineers, architects, and surveyors	29.41	17.52	22.85	29.54	34.33	41.88	20.11	-	-	-	25.74	- 42.1
Industrial engineers	26.77	17.47	17.47	27.76	34.13	41.21	-	_	_	-	_	-
Engineers, N.E.C.	35.09	22.89	28.45	36.57	41.88	44.87	-	-	-	-	-	-
Mathematical and computer scientists	28.72	19.33	23.04	28.37	32.85	38.36	-	_	_	-	-	-
Computer systems analysts and scientists	28.71	19.33	23.22	28.51	33.01	38.36	_	-	_	_	_	_
Operations and systems researchers	20.45	10.00	22.42	25.00	20.27	47.47						
and analysts Natural scientists	28.45 26.39	19.99 18.10	22.12 20.02	25.06 23.85	30.27 33.51	47.17 37.69	_	_	_	_	_	_
Chemists, except biochemists	27.18	15.25	22.12	26.29	33.51	39.28	_	_	_	_	_	_
Medical scientists		18.10	19.16	21.01	23.56	34.57	-	_	_	-	_	-
Health related occupations		-	_	-	_	-	19.46	14.68	15.60	18.36	21.56	24.9
Registered nurses Teachers, college and university	_	_	_	_	_	_	19.67	15.18	16.65	18.99	22.07	24.69
Teachers, except college and university	_	_	_	_	_	_	19.85	14.82	15.80	19.03	22.82	26.1
Elementary school teachers	_	-	_	_	_	_	20.03	15.10	16.17	19.24	22.99	26.4
Secondary school teachers	-	-	_	-	_	-	19.02	13.63	14.22	18.00	22.45	25.7
Librarians, archivists, and curators	-	-	-	_	-	-	-	-	-	-	-	-
Social scientists and urban planners Social, recreation, and religious workers	_	_	_	_	_	_	14.68	- 10.70	- 11.82	14.00	- 16.42	19.30
Social workers	_	_	_	_	_	_	14.68	10.70	11.82	14.00	16.42	19.3
Lawyers and judges	-	-	-	-	-	_	-	-	-	-	-	-
Writers, authors, entertainers, athletes, and professionals, N.E.C	17.80	11.55	14.42	16.11	19.92	24.45	_	-	_	_	_	_
Professional occupations, N.E.C	23.09	14.42	16.32	20.19	26.60	34.18	-	-		-	-	-
Technical occupations Electrical and electronic technicians	17.87 21.34	11.70 15.63	13.48 16.95	16.88 22.02	21.01 22.81	26.59 29.76	16.37	9.02	12.14	16.73	18.75	24.0
Engineering technicians, N.E.C.	16.88	11.70	13.76	17.52	21.36	22.39	_	_	_	_	_	_
Computer programmers Technical and related occupations,	21.69	15.61	17.93	19.14	25.96	30.13	-	-	-	-	-	-
N.E.CExecutive, administrative, and managerial	14.80	9.77	10.64	10.92	18.75	27.61	-	_	_	_	_	_
occupations	28.98	15.38	18.56	25.96	36.51	45.67	23.60	16.12	18.26	21.21	28.04	35.0
Executives, administrators, and managers	35.26	21.39	25.86	32.79	41.83	50.48	29.74	20.34	26.44	28.04	35.07	38.0
Administrators and officials, public		21.33	25.00	32.19	41.03	30.46						
administration Financial managers	34.57	- 26.41	- 26.44	30.34	- 45.67	50.48	24.09	14.26 -	18.51 –	18.65	26.44	41.72
Managers, marketing, advertising and		.= =	.=									
public relations	40.21	27.72	37.09	38.70	41.83	52.71	-	_	_	-	_	-
Managers and administrators, N.E.C. Management related occupations	37.51 20.87	21.63 13.58	25.17 15.55	32.79 19.04	45.36 25.19	59.33 30.55	19.20	15.92	16.32	19.47	20.70	22.14
Accountants and auditors	27.32	19.04	24.00	27.45	31.25	33.78	-	-	-	-	-	
Other financial officers	18.50	12.60	13.70	16.88	20.79	26.39	-	-	-	-	-	-
Personnel, training, and labor	10.65	14.04	11 10	24.45	24.00	25.40						
relations specialists	19.65 16.10	14.01 6.50	14.43 8.18	21.15 14.72	24.99 18.93	25.19 29.17	_	_	_	_	_	
Advertising and related sales	. 5.15	0.00	5.10	2	. 0.00							
occupations	30.27	14.42	26.44	29.90	33.99	45.05	-	_	-	-	_	-
Cashiers	7.02	6.00	6.30	6.55	7.00	8.20	-	_	-	-	-	-
Administrative support occupations, including clerical	11.61	8.21	9.06	11.28	13.68	15.53	10.82	8.86	9.56	10.56	11.69	13.2
Secretaries	13.15	10.29	11.76	13.22	14.71	16.31	12.39	9.88	11.69	11.69	13.56	15.6
Order clerks	12.60	8.25	10.58	13.70	16.33	16.59	-	-	-	-	-	-
Records clerks, N.E.C.	10.74	7.21	8.24	10.50	12.55	14.38	-	_	_	-	-	-
Bookkeepers, accounting and auditing	10.74	0 20	0.64	10.50	11 50	12.60	11.05	10.70	11.00	11.07	10.40	12.0
clerks	10.74	8.32	8.64	10.53	11.50	13.63	11.95	10.79	11.00	11.07	13.13	13.8

Table A-2. Hourly earnings¹ for selected occupations, all workers², private industry and State and local government, Raleigh-Durham-Chapel Hill, NC, July 1998 — Continued

			Private	e industry	,			State	and loca	al govern	ment	
Occupation ³				Percentil	es				F	Percentile	s	
	Mean	10	25	Median 50	75	90	Mean	10	25	Median 50	75	90
White-collar occupations (-Continued) Administrative support occupations, including clerical (-Continued)												
Traffic, shipping and receiving clerks Investigators and adjusters except	\$10.16	\$8.05	\$8.50	\$8.80	\$11.99	\$13.31	_	-	-	_	_	-
insurance	11.20	9.43	9.76	10.72	11.39	14.47	-	-	-	-	_	-
General office clerks Administrative support occupations,	10.83	8.00	8.59	10.94	12.66	14.81	\$10.70	\$8.52	\$9.47	\$10.43	\$11.76	\$12.92
N.E.C	13.14	8.77	10.82	14.56	14.56	16.74	_	-	-	_	_	-
Blue-collar occupations Precision production, craft, and repair	11.38	7.00	7.80	10.39	13.79	18.11	12.63	8.31	9.58	13.51	14.85	15.93
occupations	14.52	7.94	10.40	14.57	17.94	21.38	14.51	13.04	13.51	14.49	15.35	16.44
Mechanics and repairers, N.E.C	14.08	10.40	11.00	14.57	15.98	17.01	-	_	_	-	_	-
Supervisors, production occupations Electrical and electronic equipment	17.66	9.25	10.25	18.97	22.69	24.38	_	_	-	_	_	-
assemblers Machine operators, assemblers, and	8.30	7.13	7.38	7.94	8.65	11.46	-	-	_	-	-	_
inspectors	10.64	6.95	8.02	10.47	12.61	14.59	-	-	-	_	-	_
Packaging and filling machine operators	10.96	9.62	10.31	10.39	11.24	14.19	_	_	_	_	_	_
Miscellaneous machine operators, N.E.C	12.25	8.43	9.08	11.55	14.49	18.49	_	_	_	_	_	_
Assemblers	10.22	7.45	8.02	10.02	11.44	13.81	-	-	_	-	_	-
Transportation and material moving												
occupations	10.92	6.50	7.00	9.91	12.05	19.20	8.91	7.10	7.85	8.47	10.07	10.76
Truck drivers	13.01	8.00	9.32	10.81	17.96	21.15	- 0.01	7 10	- 7.85	8.47	10.07	10.76
Bus drivers Handlers, equipment cleaners, helpers, and	_	_	_	_	_	_	8.91	7.10	7.65	0.47	10.07	10.76
laborers	8.67	6.50	7.25	8.00	9.95	11.21	10.01	8.33	8.74	9.31	10.96	13.59
Stock handlers and baggers	8.68	6.00	6.50	9.00	10.00	10.50	-	-	-	-	-	-
Freight, stock, and material handlers,												
N.E.C	9.13	6.50	7.10	7.80	10.63	11.31	-	_	_	-	_	-
Hand packers and packagers Laborers except construction, N.E.C.	7.69 7.76	5.75 6.85	6.10 7.00	7.30 7.30	9.40 8.00	9.90 9.87	_	_		_	_	-
•												
Service occupations		5.67	6.25	7.12	8.50	10.07	11.61	6.07	7.79	10.71	12.85	20.60
Protective service occupations		_	_	_	_	-	15.23	11.07	11.55	12.82	19.52	23.40
Supervisors, police and detectives Firefighting occupations		_	_	_	_	_	22.12 17.10	17.20 8.54	21.99 8.97	22.80 14.41	22.81 23.69	24.89 26.85
Police and detectives, public service		_	_	_	_	_	15.97	11.30	12.44	16.78	19.29	20.60
Food service occupations		2.57	6.00	7.00	8.50	10.50	- 15.57	-	-	-		-
Waiters and waitresses	3.86	2.13	2.13	2.57	6.50	6.80	_	_	_	_	_	-
Kitchen workers, food preparation	7.79	5.75	6.80	7.50	8.75	9.85	-	_	-	-	_	-
Food preparation occupations, N.E.C.	7.66	5.84	6.15	7.25	8.67	10.67	-	-	-	_	-	-
Health service occupations	-	_	_	_	_	_	-	_	_	-	_	-
Cleaning and building service occupations	7.65	5.75	6.00	6.75	8.50	10.00	8.23	7.14	7.42	8.01	8.66	9.50
Maids and housemen	7.65	6.00	6.08	6.75	8.50 9.07	11.02	0.23	7.14	7.42	0.01	8.66	9.50
Janitors and cleaners		5.75	6.00	6.50	7.50	9.63	8.23	7.14	7.42	8.01	8.66	9.50
Personal service occupations		5.65	7.00	7.00	9.06	10.78	8.79	6.87	7.67	8.05	9.59	12.19

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 gate shown. The 10th and 90th percentiles follow the same logic.

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."

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

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

Table A-3. Hourly earnings¹ for selected occupations, full-time and part-time workers², all industries, Raleigh-Durham-Chapel Hill, NC, July 1998

						All indu	stries					
_		-	Fu	II-time					Part	-time		
Occupation ³				Percenti	es				F	Percentile	s	
	Mean	10	25	Median 50	75	90	Mean	10	25	Median 50	75	90
All occupations	\$17.05 17.03	\$7.60 7.63	\$9.75 9.73	\$14.01 13.82	\$21.15 21.15	\$30.08 30.12	\$8.44 8.62	\$5.60 5.50	\$6.14 6.00	\$6.76 6.97	\$8.25 8.50	\$13.63 15.45
White-collar occupations White-collar occupations excluding sales	20.27 20.52	9.47 9.60	11.69 11.69	16.97 17.20	25.43 25.79	34.13 34.62	11.67 15.02	6.00 6.00	6.50 8.21	8.18 13.50	15.12 20.47	23.13 23.13
Professional specialty and technical	04.50	40.04	40.70	00.00	00.00	07.00	04.00	40.50	45.00	00.47	00.40	00.40
occupations Professional specialty occupations	24.50 26.41	13.84 14.94	16.79 18.32	22.02 23.93	29.28 30.56	37.02 38.36	21.23	13.50 14.46	15.62 16.25	20.47 20.47	23.13 23.13	23.13
Engineers, architects, and surveyors	28.41	17.61	21.19	28.01	34.13	41.21		-	-	20.47	25.15	25.27
Civil engineers	23.03	17.61	19.25	20.42	24.00	34.62	_	_	_	_	_	_
Industrial engineers	26.77	17.47	17.47	27.76	34.13	41.21	-	_	_	_	_	_
Engineers, N.E.C.	35.29	23.72	30.02	36.57	41.88	44.63	-	_	_	-	-	-
Mathematical and computer scientists	28.72	19.33	23.04	28.37	32.85	38.36	-	_	_	-	-	-
Computer systems analysts and scientists	28.71	19.33	23.22	28.51	33.01	38.36	_	_	_	_	-	_
Operations and systems researchers and analysts	28.45	19.99	22.12	25.06	30.27	47.17	_	_	_		_	
Natural scientists	25.57	18.52	21.01		27.84	34.94	-	_	_	_	_	_
Chemists, except biochemists	27.09	15.25	22.12	26.13	33.51	39.28	_	_	_	_	_	_
Medical scientists		19.16	19.55	24.96	24.96	32.41	-	_	_	_	_	_
Health related occupations	17.45	12.01	15.39	16.50	19.12	22.93	20.47	15.45	17.73	20.92	23.13	23.13
Registered nurses	18.64	15.07	16.00	17.77	20.47	23.81	21.09	16.81	19.38	23.13	23.13	23.13
Teachers, college and university	-	-		-	-	-	-	_	_	-	-	-
Teachers, except college and university	19.50	14.34	15.70	18.59	22.73	25.98	_	_	_	_	_	-
Elementary school teachersSecondary school teachers	20.03 19.02	15.10 13.63	16.17 14.22	19.24 18.00	22.99 22.45	26.40 25.74	_	_	_		_	_
Librarians, archivists, and curators	19.02	13.03	14.22	10.00	22.43	25.74	-	_	_		_	_
Social scientists and urban planners	25.96	22.52	23.55	26.00	29.82	30.59	_	_	_	_	_	_
Social, recreation, and religious workers	13.85	10.20	10.97	13.70	15.78	18.43	_	_	_	_	_	_
Social workers	13.85	10.20	10.97	13.70	15.78	18.43	-	_	_	_	_	-
Lawyers and judges	-	_	_	_	_	_	-	_	_	-	-	-
Writers, authors, entertainers, athletes,	40.00	40.40										
and professionals, N.E.C.	18.09	12.12	14.42	16.76	20.02	25.25	_	_	_	_	_	-
Professional occupations, N.E.C Technical occupations	23.09 17.36	14.42 10.76	16.32 13.39	20.19	26.60 19.95	34.18 25.96	_	_	_	_	_	_
Clinical laboratory technologists and technicians	15.66	12.07	12.07	15.70	17.70	20.12	_	_	_		_	_
Electrical and electronic technicians	21.34	15.63	16.95	22.02	22.81	29.76	_	_	_	_	_	_
Engineering technicians, N.E.C	16.88	11.70	13.76	17.52	21.36	22.39	_	_	_	_	_	_
Computer programmers	22.61	16.18	19.07	22.65	26.65	29.33	_	_	_	_	_	_
Technical and related occupations,												
N.E.C	12.67	8.20	9.07	10.78	16.15	19.59	-	_	-	-	-	-
Executive, administrative, and managerial occupations	27.67	15.55	18.55	25.17	33.70	41.97	_	_	-	_	_	_
Executives, administrators, and managers	34.15	21.39	25.96	31.50	39.91	48.12	_	-	-	_	-	_
Administrators and officials, public administration	24.09	14.26	18.51	18.65	26.44	41.72	_	_	_	_	_	_
Financial managers	33.17	26.44	28.04		35.07	45.67	_	_	_	_	_	_
Managers, marketing, advertising and	33.17	_5		55.54	55.01	.5.5,						
public relations	40.21	27.72	37.09	38.70	41.83	52.71	_	_	-	-	_	-
N.E.C.	27.69	12.49	16.08	26.04	37.17	40.58	_	-	_	-	_	-
Managers and administrators, N.E.C.	37.08	21.73	25.17	32.79	44.31	59.33	_	_	_	-	_	-
Management related occupations	20.37	14.29	16.12		23.97	28.56	_	_	-	-	-	-
Accountants and auditors	26.18	19.04	21.21		30.77	33.38	-	_	-	-	_	-
Other financial officers Personnel, training, and labor	18.82	12.60	15.53		20.79	26.39	_	_	_	_	_	_
relations specialists Purchasing agents and buyers,	19.50	14.01	16.12		22.14	25.19	_	_	_	_	_	_
N.E.CManagement related occupations,	19.98	15.15	16.38	18.44	21.15	27.68	_	_	_	_	_	_
N.E.C	17.58	12.95	15.55	16.34	19.13	20.70	_	_	-	-	_	-

Table A-3. Hourly earnings¹ for selected occupations, full-time and part-time workers², all industries, Raleigh-Durham-Chapel Hill, NC, July 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
White-collar occupations (-Continued) Sales occupations	\$17.43	\$7.00	\$11.50	\$16.44	\$21.13	\$29.90	\$7.32	\$6.00	\$6.45	\$6.55	\$7.30	\$8.89
Advertising and related sales	ψ17.43	Ψ1.00	ψ11.50	Ψ10.44	Ψ21.13	Ψ23.30	Ψ1.52	Ψ0.00	ψ0.43	ψ0.55	Ψ1.50	ψ0.03
occupations	30.27	14.42	26.44	29.90	33.99	45.05	-	_	_	_	-	_
Sales workers, other commodities		6.00	7.50	11.25	13.15	24.79	-	-	_	-	-	_
Cashiers	7.73	5.75	6.25	6.95	8.00	13.52	6.55	6.00	6.30	6.50	6.65	7.00
Administrative support occupations, including	11.33	8.52	9.49	10.86	12.55	14.57	8.42	6.00	6.67	8.21	9.23	10.50
clerical Supervisors, general office	17.40	11.30	11.30	17.09	23.53	25.35	0.42	0.00	0.07	0.21	9.23	10.50
Secretaries	12.89	10.19	11.69		14.42	16.08	_	_	_	_	_	_
Order clerks	13.29	9.26	11.02	13.70	16.33	16.59	_	_	_	_	_	_
Records clerks, N.E.C.	12.14	9.52	10.61	12.24	13.32	14.97	_	_	_	-	_	_
Bookkeepers, accounting and auditing												
clerks	10.86	8.32	8.87	10.72	12.07	13.85	-	-	-	-	-	_
Traffic, shipping and receiving clerks	10.16	8.05	8.50	8.80	11.99	13.31	-	-	_	-	-	_
Investigators and adjusters except insurance	11.20	9.43	9.76	10.72	11.39	14.47	_	_	_	_	_	_
General office clerks	10.81	8.52	9.41	10.72	12.03	13.32	_		_	_	_	_
Administrative support occupations,	10.01	0.02	0.11	10.00	12.00	10.02						
N.E.C	13.31	9.60	10.82	14.56	14.56	16.83	_	_	_	_	_	_
Blue-collar occupations	11.67	7.00	8.02	10.80	14.29	17.92	7.64	5.50	6.50	6.75	8.31	10.3
Precision production, craft, and repair	4450	7.00	44.00	4454	47.45	00.70						
occupations Mechanics and repairers, N.E.C	14.52 13.99	7.96 10.40	11.26 11.00	14.54 14.57	17.15 15.89	20.76 17.01	_	-	_	-	-	_
Supervisors, production occupations	17.66	9.25	10.25	18.97	22.69	24.38	_	_	_	_	_	_
Electrical and electronic equipment	17.00	3.23	10.23	10.37	22.03	24.50	_	_		_	_	_
assemblers	8.30	7.13	7.38	7.94	8.65	11.46	_	_	_	_	_	_
Machine operators, assemblers, and												
inspectors	10.59	6.90	8.02	10.41	12.51	14.59	-	-	_	_	-	_
Packaging and filling machine												
operators	10.96	9.62	10.31	10.39	11.24	14.19	-	-	_	-	-	_
Miscellaneous machine operators,	10.05	0.40	0.00	11 55	1110	10.40						
N.E.C Assemblers	12.25 10.22	8.43 7.45	9.08 8.02	11.55 10.02	14.49 11.44	18.49 13.81	_	_	_		_	_
Transportation and material moving	10.22	7.43	0.02	10.02	11.44	13.01	_	_		_	_	_
occupations	12.07	7.00	8.54	10.91	15.70	21.15	7.09	5.50	6.50	6.75	7.32	8.8
Truck drivers	13.01	8.00	9.32	10.81	17.96	21.15	_	_	_	_	_	_
Handlers, equipment cleaners, helpers, and												
laborers	8.76	6.50	7.30	8.04	9.95	11.31	8.90	5.50	6.00	7.75	10.25	18.00
Stock handlers and baggers	9.13	6.50	8.00	9.03	10.00	10.96	6.38	5.45	5.75	6.00	6.80	8.00
Freight, stock, and material handlers,	0.00	0.50	7.00	7.00	40.00	44.00						
N.E.C		6.50 5.75	7.00 6.10	7.63 7.30	10.39 9.40	11.30 9.90	_	_	_	_	_	_
Hand packers and packagers Laborers except construction, N.E.C.	7.79	6.85	7.25	7.30	8.00	9.87	_		_	_	_	_
Edborors except construction, N.E.O.	7.75	0.00	7.20	7.50	0.00	3.07						
Service occupations	9.45	6.00	6.97	8.00	10.67	14.55	6.73	5.50	6.00	6.50	7.50	8.50
Protective service occupations	12.10	6.76	7.75		14.22	21.72	-	-	-	-	_	_
Supervisors, police and detectives	22.12	17.20	21.99	22.80	22.81	24.89	-	-	-	-	-	_
Firefighting occupations	17.10	8.54	8.97	14.41	23.69	26.85	_	-	_	_	_	_
Police and detectives, public service Guards and police except public	15.97	11.30	12.44	16.78	19.29	20.60	-	_	_	-	_	_
service	8.85	6.19	6.97	7.87	11.07	11.78	_	_	_	_	_	_
Food service occupations		2.57	6.05		8.75	10.67	5.84	2.13	5.50	6.00	6.80	7.5
Kitchen workers, food preparation		6.80	7.25	7.65	8.75	9.85			-		-	-
Food preparation occupations, N.E.C.	7.58	5.85	5.94	7.02	8.67	10.67	6.39	5.30	6.00	6.25	7.00	7.2
• • • •												

Table A-3. Hourly earnings¹ for selected occupations, full-time and part-time workers², all industries, Raleigh-Durham-Chapel Hill, NC, July 1998 — Continued

	All industries											
	Full-time						Part-time					
Occupation ³		Percentiles						F	Percentile	s		
	Mean	10	25	Median 50	75	90	Mean	10	25	Median 50	75	90
Service occupations (-Continued) Health service occupations Cleaning and building service	\$8.16	\$6.50	\$7.37	\$8.00	\$8.78	\$9.45	_	-	-	_	-	_
occupations	8.16 7.66 9.28	5.95 5.75 6.84	6.35 6.49 7.00	7.43 7.35 7.97	9.27 8.76 9.24	10.07 9.63 11.62	\$6.63 - 8.33	\$5.50 - 6.42	\$6.00 - 6.99	\$6.25 - 8.68	\$6.75 - 9.06	\$8.50 - 10.78

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. 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

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."

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

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.

 $\label{eq:continuous} \textbf{Table A-4. Weekly and annual earnings}^1 \ and \ hours \ for \ selected \ occupations, \ full-time \ workers \ only^2, \ all \ industries, \ Raleigh-Durham-Chapel \ Hill, \ NC, \ July \ 1998$

			All ind	ustries		
Occupation ³	Mean	Weekly	earnings	Mean	Annual e	arnings
	weekly hours ⁴	Mean	Median	annual hours	Mean	Median
All occupations	39.9	\$680	\$552	2,042	\$34,801	\$28.119
All occupations excluding sales	39.8	677	545	2,033	34,604	27,747
White-collar occupations	39.8	807	675	2,025	41,036	34,099
White-collar occupations excluding sales	39.6	812	670	2,009	41,230	33,987
Professional specialty and technical occupations	39.3	964	860	1,968	48,233 51,794	41,995
Professional specialty occupations Engineers, architects, and surveyors	39.2 40.0	1,034 1,137	930 1,120	1,961 2,081	59,126	46,010 58,261
Civil engineers	40.0	921	817	2,080	47,907	42,474
Industrial engineers	39.4	1,054	1,110	2,047	54,802	57,741
Engineers, N.E.C.	40.4	1,427	1,452	2,103	74,219	75,504
Mathematical and computer scientists	40.1	1,152	1,135	2,086	59,904	59,010
Computer systems analysts and scientists	40.1	1,150	1,138	2,083	59,800	59,197
Operations and systems researchers and	44.0	4 407		0.400	00.000	E4 00E
analysts	41.0	1,167	992	2,132	60,663	51,605
Natural scientists Chemists, except biochemists	39.8 40.0	1,017 1,084	998 1,045	2,068 2,080	52,875 56,349	51,917 54,350
Medical scientists	40.0	957	998	2,080	49,789	51,917
Health related occupations	39.3	685	660	1,904	33,222	33,280
Registered nurses	38.8	724	694	1,880	35,029	34,320
Teachers, college and university	-		_	-	-	-
Teachers, except college and university	35.9	701	675	1,586	30,922	29,961
Elementary school teachers	35.3	706	678	1,537	30,777	29,567
Secondary school teachers	36.9	701	663	1,599	30,416	28,744
Librarians, archivists, and curators	- .					
Social scientists and urban planners	40.0	1,038	1,040	2,078	53,962	54,080
Social, recreation, and religious workers	38.5	534	514	2,003	27,754	26,715
Social workers	38.5 —	534	514	2,003	27,754	26,715 –
Lawyers and judges Writers, authors, entertainers, athletes, and	_	_	_	_	_	_
professionals, N.E.C.	40.6	734	670	2,110	38,184	34,861
Professional occupations, N.E.C.	40.0	924	808	2,080	48,024	41,995
Technical occupations	40.0	694	669	1,995	34,633	34,798
Clinical laboratory technologists and technicians	40.0	626	628	1,938	30,353	31,658
Electrical and electronic technicians	40.0	854	881	2,080	44,396	45,802
Engineering technicians, N.E.C.	40.0	675	701	2,080	35,102	36,442
Computer programmers	40.0	904	906	2,080	47,019	47,112
Technical and related occupations, N.E.C	40.4 40.3	513 1,116	1,008	2,103 2,096	26,652 58,003	22,214 52,395
Executive, administrative, and managerial occupations Executives, administrators, and managers	40.6	1,385	1,312	2,106	71,913	67,496
Administrators and officials, public administration	39.9	961	948	2,073	49,950	49,296
Financial managers	40.1	1,330	1,214	2,085	69,143	63,107
Managers, marketing, advertising and public		,	,	<u> </u>		,
relations	39.9	1,604	1,548	2,075	83,425	80,496
Managers, service organizations, N.E.C	39.4	1,092	977	2,051	56,789	50,778
Managers and administrators, N.E.C.	41.5	1,537	1,336	2,156	79,945	69,469
Management related occupations	40.1 40.2	817	779	2,086	42,499	40,498
Accountants and auditors Other financial officers	40.2	1,053 759	1,036 798	2,092 2,097	54,768 39,468	53,872 41,517
Personnel, training, and labor relations	10.0	100	'00	2,007	00,100	11,017
specialists	40.2	785	821	2,093	40,815	42,682
Purchasing agents and buyers, N.E.C	39.9	797	731	2,073	41,419	38,002
Management related occupations, N.E.C	40.0	702	654	2,078	36,523	33,987
Sales occupations	42.6	743	699	2,217	38,623	36,351
Advertising and related sales occupations	39.0	1,180	1,196	2,028	61,382	62,192
Sales workers, other commodities	40.5	571	450	2,104	29,698	23,400
Cashiers	40.0	309	278	2,080	16,078	14,456
Administrative support occupations, including clerical	39.6 40.9	449 712	430 769	2,033 2,127	23,037 37,013	22,298 39,991
Supervisors, general office Secretaries	40.9 39.5	509	492	2,127	26,055	25,428
Order clerks	40.0	532	548	2,021	27,640	28,496
Records clerks, N.E.C.	39.9	485	490	2,075	25,199	25,459
Bookkeepers, accounting and auditing clerks	40.0	434	429	2,077	22,555	22,298
Traffic, shipping and receiving clerks	40.0	406	352	2,080	21,135	18,304
Investigators and adjusters except insurance	40.0	448	429	2,080	23,301	22,298
General office clerks	39.9	431	422	2,073	22,412	21,965

Table A-4. Weekly and annual earnings¹ and hours for selected occupations, full-time workers only², all industries, Raleigh-Durham-Chapel Hill, NC, July 1998 — Continued

			All ind	ustries		
Occupation ³	Mean weekly	Weekly	earnings	Mean annual	Annual e	earnings
	hours ⁴	Mean	Median	hours	Mean	Median
White-collar occupations (-Continued) Administrative support occupations, including clerical (-Continued) Administrative support occupations, N.E.C	40.0	\$532	\$582	2,079	\$27,672	\$30,285
Blue-collar occupations Precision production, craft, and repair occupations Mechanics and repairers, N.E.C. Supervisors, production occupations Electrical and electronic equipment assemblers Machine operators, assemblers, and inspectors Packaging and filling machine operators Miscellaneous machine operators, N.E.C. Assemblers Transportation and material moving occupations Truck drivers Handlers, equipment cleaners, helpers, and laborers Stock handlers and baggers Freight, stock, and material handlers, N.E.C. Hand packers and packagers Laborers except construction, N.E.C.	40.1 40.3 40.0 43.8 40.0 40.0 39.9 40.4 40.0 40.2 40.4 40.0 40.0 40.0 40.0	468 586 560 773 332 424 437 495 409 485 525 350 365 357 307 312	434 582 583 860 317 416 416 452 401 436 432 321 361 305 292 292	2,087 2,097 2,080 2,276 2,080 2,076 2,101 2,080 2,090 2,100 2,080 2,080 2,080 2,080 2,080	24,350 30,459 29,104 40,183 17,269 22,027 22,748 25,725 21,261 25,218 27,322 18,212 18,991 18,556 15,988 16,206	22,589 30,243 30,306 44,694 16,507 21,632 21,611 23,525 20,842 22,688 22,475 16,714 18,782 15,866 15,184
Service occupations Protective service occupations Supervisors, police and detectives Firefighting occupations Police and detectives, public service Guards and police except public service Food service occupations Kitchen workers, food preparation Food preparation occupations, N.E.C. Health service occupations Cleaning and building service occupations Janitors and cleaners Personal service occupations	40.0 41.7 41.5 49.4 41.8 40.0 39.0 38.4 39.7 38.7 39.6 39.5 38.7	378 504 918 845 667 354 293 309 301 316 323 303 360	315 462 958 764 674 315 278 292 278 302 294 290 319	2,043 2,165 2,159 2,570 2,174 2,077 1,968 1,689 2,064 1,924 2,020 2,008 1,996	19,312 26,190 47,745 43,935 34,709 18,379 14,811 13,595 15,652 15,705 16,476 15,380 18,535	16,328 24,024 49,799 39,709 35,071 16,370 14,014 14,149 14,456 15,600 15,142 15,038 16,744

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 include incertive pay, cost-of-living adjustments, and hazard pay. Excluded are premium pay for overtime, vacations, holidays, nonproduction bonuses, and tips. The mean is computed by totaling the pay of all workers and dividing by the number of workers, weighted by hours. The median designates position--one-half of the workers receive the same as or more, and one-half receive the same as or less than the rate shown.

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.

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

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, Raleigh-Durham-Chapel Hill, NC, July 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-time workers
All accumulations	¢16 55	¢16.00	¢17.00	¢17.05	¢0 44
All occupations All occupations excluding sales	\$16.55 16.58	\$16.28 16.30	\$17.28 17.28	\$17.05 17.03	\$8.44 8.62
7 iii oocapations excitating sales	10.00	10.50	17.20	17.00	0.02
White-collar occupations	20.03	20.72	18.69	20.27	11.67
Level 2	8.09	7.73	_	8.84	6.93
Level 3	9.97	9.88	10.01	9.98	9.80
Level 4	11.02	10.95	11.16	11.14	8.29
Level 5	13.87	14.03	12.73	13.89	_
Level 6 Level 7	14.70 18.45	13.87 18.14	16.04 19.12	14.70 18.45	_
Level 8	19.52	20.31	17.56	19.52	
Level 9	23.06	25.21	20.40	23.13	20.96
Level 10	27.53	27.54	_	27.56	_
Level 11	28.16	28.00	28.49	28.16	_
Level 12	37.30	34.18	42.64	37.30	_
Level 13	39.24	39.16	_	39.24	_
Level 14	51.24	51.15	-	51.31	_
Not able to be leveled	13.89	13.89			-
White-collar occupations excluding sales	20.42	21.46	18.70	20.52	15.02
Level 2 Level 3	8.94	8.78	10.01	9.09	8.16
Level 4	10.02 10.80	10.02 10.54	10.01 11.16	10.03 10.89	8.44
Level 5	13.21	13.30	12.70	13.22	- 0.44
Level 6	14.74	13.83	16.03	14.74	_
Level 7	18.48	18.15	19.12	18.48	_
Level 8	18.98	19.63	17.56	18.97	_
Level 9	23.08	25.28	20.40	23.16	20.96
Level 10	27.94	27.95	_	27.98	_
Level 11	27.66	27.20	28.49	27.66	-
Level 12	37.30	34.17	42.64	37.30	_
Level 13	39.24	39.16	_	39.24	-
Level 14 Not able to be leveled	51.24 13.89	51.15 13.89	_	51.31	_
Professional specialty and technical occupations	24.45	24.62	24.15	24.50	21.23
Professional specialty occupations	26.32	26.44	26.11	26.41	21.23
Level 5	15.02	15.47		15.02	
Level 6	16.49	14.64	18.50	16.51	_
Level 7	20.15	20.10	20.23	20.15	_
Level 8	20.91	22.88	17.31	20.89	_
Level 9	22.71	26.05	19.76	22.80	_
Level 10	25.99	25.99	_	26.02	_
Level 11	26.90	26.00	-	26.90	_
Level 12 Level 13	37.65	32.83	_	37.65 38.24	_
Level 14	38.24 46.08	38.13 46.08	_	38.24 45.79	-
Engineers, architects, and surveyors	28.41	29.41	_	28.41	_
Level 11	31.89	30.99	_	31.89	_
Level 12	33.83	33.83	_	33.83	_
Level 13	39.69	39.69	-	39.69	-
Mathematical and computer scientists	28.72	28.72	_	28.72	-
Level 7	22.06	22.06	_	22.06	-
Level 9	28.10	28.10	-	28.10	-
Level 10	25.54	25.54	_	25.54	_
Level 11 Natural scientists	27.56 26.05	27.56 26.39	_	27.56 25.57	_
Level 11	26.05 24.60	26.39	_	25.57	_
Health related occupations	17.98		19.46	17.45	20.47
Level 6	14.48	_	-	- 17.43	
Level 8	18.57	_	_	_	_
Level 9	19.73	_	19.98	19.08	-
Teachers, college and university	-	_	-	_	-
Teachers, except college and university	19.50	-	19.85	19.50	-
Level 9	19.69	l –	I –	19.69	l –
Librarians, archivists, and curators	-			l	1

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, Raleigh-Durham-Chapel Hill, NC, July 1998 — Continued

		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
Vhite-collar occupations (-Continued)					
Social scientists and urban planners	\$25.96	_	_	\$25.96	_
Social, religious, and recreation workers	13.85	_	\$14.68	13.85	_
Lawyers and judges	-	_	_	_	_
Writers, authors, entertainers, athletes, and professionals, N.E.C.	17.80	\$17.80		18.09	
Level 7	17.53	17.53	_	17.53	_
Technical occupations	17.33	17.33	16.37	17.36	
Level 4	12.58	12.48	- 10.07	12.58	_
Level 5	13.74	13.96	_	13.73	_
Level 6	16.86	16.96	_	16.86	_
Level 7	16.02	15.81	16.21	16.02	_
Level 8	16.42	16.23	_	16.42	_
Level 9	22.73	23.31	_	22.73	_
Executive, administrative, and managerial occupations	27.63	28.98	23.60	27.67	_
Level 7	17.90	17.24	-	17.90	_
Level 8	19.41	20.09	18.21	19.41	_
Level 9	24.94	24.91	25.16	24.97	_
Level 10	32.36	32.36	_	32.36	_
Level 11	29.21	29.86	28.31	29.21	_
Level 12	36.42	36.15	38.78	36.42	_
Level 13	42.31	42.31	_	42.31	_
Level 14	62.26	62.32	_	62.26	_
Executives, administrators, and managers	34.15	35.26	29.74	34.15	_
Level 8	21.46	21.92	_	21.46	_
Level 9	27.01	27.04	26.82	27.01	_
Level 11	30.49	30.87	30.02	30.49	_
Level 12	38.83	38.84	38.78	38.83	_
Level 13	42.69	42.69	_	42.69	_
Level 14	62.34	62.41	-	62.34	_
Management related occupations	20.35	20.87	19.20	20.37	_
Level 7	17.96	17.31	_	17.96	_
Level 8 Level 9	18.77	19.20	_	18.77	_
Level 11	19.83 25.13	20.01 27.20	_	19.86 25.13	_
Sales occupations	16.07	16.10	_	17.43	- \$7.3
Level 2	6.78	6.78	_	- 17.43	φ7.3 6.5
Level 4	12.37	12.40	_	12.68	0.5
Level 6	14.22	14.16	_	14.22	_
Level 8	25.01	25.01	_	25.01	_
Level 11	34.89	34.89	_	34.89	_
Administrative support occupations, including clerical	11.26	11.61	10.82	11.33	8.4
Level 2	8.80	8.78	-	9.04	8.1
Level 3	9.99	10.01	9.99	10.01	_
Level 4	10.68	10.38	11.10	10.78	8.4
Level 5	12.41	12.57	11.37	12.42	_
Level 6	12.93	12.38	13.66	12.93	_
Level 7	15.99	15.99	_	15.99	_
	44.40	44.00	40.00	44.07	
e-collar occupations	11.49	11.38	12.63	11.67	7.6
Level 2	7.47	7.46	_	7.57	6.9
Level 2 Level 3	9.34 10.60	9.28 10.89	8.34	9.38 10.75	_
Level 4	11.28	11.30	10.40	11.28	l
Level 5	12.83	12.83	12.67	12.75	_
Level 6	15.21	15.25		15.21	_
Level 7	16.14	16.72	14.68	16.14	_
Level 8	18.38	18.36	-	18.38	_
Level 9	20.64	20.64	_	20.64	_
Precision production, craft, and repair occupations	14.52	14.52	14.51	14.52	-
Level 4	10.12	10.13	-	10.12	-
Level 5	11.42	11.36	_	11.42	-
Level 6	15.74	15.83	-	15.74	-
LCVCI O					

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, Raleigh-Durham-Chapel Hill, NC, July 1998 — Continued

		All workers 4	All industries		
Occupational group ³ and level	All indus- tries	Private industry	State and local government	Full-time workers	Part-time workers
Blue-collar occupations (-Continued) Precision production, craft, and repair occupations (-Continued) Level 8	\$18.80	\$18.79	_	\$18.80	_
Level 9	20.64	20.64	_	20.64	_
Machine operators, assemblers, and inspectors	10.59	10.64	l _	10.59	_
Level 1	7.88	7.88	_	7.88	_
Level 2	10.27	10.27	_	10.27	_
Level 3	10.27	10.27	_	10.27	_
Level 4	11.02	11.02	_	11.02	_
Level 5	_	13.41	_	13.41	_
	13.41	_		_	
Transportation and material moving occupations	10.75	10.92	\$8.91	12.07	\$7.09
Level 2	8.49	8.49	_		_
Level 3	12.43	13.87	_	13.87	_
Level 4	14.03	14.14	_	14.07	
Handlers, equipment cleaners, helpers, and laborers	8.76	8.67	10.01	8.76	8.90
Level 1	7.45	7.43	_	7.40	7.94
Level 2	8.93	8.61	_	8.99	_
Level 3	9.62	9.63	_	9.61	_
Level 4	11.75	11.84	_	11.75	_
Service occupations	8.83	7.65	11.61	9.45	6.73
Level 1	6.74	6.72	6.80	7.00	6.25
Level 2	7.34	7.28	7.68	7.57	6.17
Level 3	7.52	7.38	8.06	7.70	7.03
Level 4	8.63	7.42		9.59	7.09
Level 5	12.17	_	11.55	12.17	_
Level 6	13.28	_	13.50	12.63	_
Level 7	12.89	_	11.76	12.89	_
Protective service occupations	11.42	_	15.23	12.10	_
Level 5	11.50	_	11.50	11.50	_
Level 6	14.26	_	13.50	13.50	_
Level 7	12.54		_	12.54	
Food service occupations	6.97	7.06	_	7.53	5.84
Level 1	6.21	6.30	_		6.25
Level 2	6.69	6.69	_	7.06	_
Level 3	6.61	6.51	_	7.11	5.04
Level 4	6.90	6.90	_		-
Health service occupations	8.18	_	_	8.16	_
Cleaning and building service occupations	7.74	7.65	8.23	8.16	6.63
Level 1	6.76	6.62	-	7.05	_
Level 3	9.69	_	-	9.50	_
Personal service occupations	9.13	9.63	8.79	9.28	8.33

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 Each occupation for which wage data are collected in an

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."

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 pace information.

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

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

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

Table B-2. Mean hourly earnings¹ for selected occupations and levels², all industries, private industry, State and local government, full-time and part-time workers, Raleigh-Durham-Chapel Hill, NC, July 1998

		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:						
Professional specialty and technical occupations:						
Professional specialty occupations:						
Civil engineers	\$23.03	_	_	\$23.03	_	
Industrial engineers	26.77	\$26.77	_	26.77	_	
Engineers, N.E.C.	35.29	35.09	_	35.29	_	
Computer systems analysts and scientists	28.71	28.71	_	28.71	_	
Level 7	22.22	22.22	_	22.22	_	
Level 9	28.17	28.17	_	28.17	_	
Level 11	27.84	27.84	_	27.84	_	
Operations and systems researchers and						
analysts	28.45	28.45	_	28.45	_	
Chemists, except biochemists	27.09	27.18	_	27.09	_	
Medical scientists	23.94	23.22	_	23.94	_	
Registered nurses	19.21	_	\$19.67	18.64	\$21.0	
Level 9	19.73	_	19.98	19.08	· –	
Elementary school teachers	20.03	_	20.03	20.03	_	
Secondary school teachers	19.02	_	19.02	19.02	_	
Social workers	13.85	_	14.68	13.85	_	
Technical occupations:						
Clinical laboratory technologists and technicians	15.66	_	_	15.66	_	
Electrical and electronic technicians	21.34	21.34	_	21.34	_	
Engineering technicians, N.E.C.	16.88	16.88	_	16.88	_	
Computer programmers	22.61	21.69	_	22.61	_	
Technical and related occupations, N.E.C	12.67	14.80	_	12.67	_	
Executive, administrative, and managerial occupations:						
Administrators and officials, public administration	24.09	_	24.09	24.09	_	
Financial managers	33.17	34.57	_	33.17	_	
Managers, marketing, advertising and public						
relations	40.21	40.21	_	40.21	_	
Managers, service organizations, N.E.C	27.69	_	_	27.69	-	
Managers and administrators, N.E.C	37.08	37.51	_	37.08	-	
Level 9	26.31	_	_	26.31	-	
Accountants and auditors	26.12	27.32	_	26.18	-	
Other financial officers	18.78	18.50	_	18.82	_	
Personnel, training, and labor relations						
specialists	19.50	19.65	_	19.50	_	
Purchasing agents and buyers, N.E.C	19.98	_	_	19.98	_	
Management related occupations, N.E.C	17.58	_	_	17.58	_	
Sales occupations:						
Advertising and related sales occupations	30.27	30.27	_	30.27	-	
Sales workers, other commodities			_	14.12		
Cashiers	7.16	7.02	_	7.73	6.5	
Level 2	6.78	6.78	_	_	6.5	
Administrative support occupations, including clerical:	.=					
Supervisors, general office	17.40		_	17.40	_	
Secretaries		13.15	12.39	12.89	_	
Level 4	11.41	11.32	_	11.40	_	
Level 5	13.70	13.73	_	13.70	_	
Level 7	15.42	-	_	15.42	_	
Order clerks	12.60	12.60	_	13.29	_	
Records clerks, N.E.C.	11.85	10.74	14.05	12.14	-	
Bookkeepers, accounting and auditing clerks	10.83	10.74	11.95	10.86	-	
Level 4	9.82	9.66	-	9.84	_	
Traffic, shipping and receiving clerks	10.16	10.16	_	10.16	_	
Investigators and adjusters except insurance	11.20	11.20	10.70	11.20	_	
General office clerks	10.74	10.83	10.70	10.81	_	
Level 4	9.78	9.52	9.85	9.78	_	
Level 4 Data entry kevers	11.11 9.90	_	11.23	11.33	_	
Administrative support occupations, N.E.C	9.90 13.16	13.14	_	13.31	-	
Professional occupations, N.E.C.	23.09	23.09	_	23.09	_	
Fivicooloriai occupationo, N.E.C	23.09	23.09		23.09		

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, Raleigh-Durham-Chapel Hill, NC, July 1998 — Continued

		All workers ⁴	All ind	ustries	
Occupation ³ and level		Private industry	State and local government	Full-time workers	Part-time workers
Blue-collar occupations:					
Precision production, craft, and repair occupations:					
Mechanics and repairers, N.E.C	\$13.99	\$14.08	_	\$13.99	_
Supervisors, production occupations	17.66	17.66	_	17.66	_
Electrical and electronic equipment assemblers	8.30	8.30	_	8.30	_
Machine operators, assemblers, and inspectors:					
Packaging and filling machine operators	10.96	10.96	_	10.96	_
Level 2	9.88	9.88	_	9.88	_
Miscellaneous machine operators, N.E.C	12.25	12.25	_	12.25	_
Assemblers	10.22	10.22	_	10.22	_
Level 4	10.90	10.90	_	10.90	_
Transportation and material moving occupations:					
Truck drivers	13.01	13.01	_	13.01	_
Bus drivers	7.88	_	\$8.91	_	_
Handlers, equipment cleaners, helpers, and laborers:			, , , ,		
Stock handlers and baggers	8.69	8.68	_	9.13	\$6.38
Level 1	6.29	6.29	_	_	_
Freight, stock, and material handlers, N.E.C	9.13	9.13	_	8.92	_
Level 1	7.97	7.97	_	_	_
Hand packers and packagers	7.69	7.69	_	7.69	_
Laborers except construction, N.E.C.	7.79	7.76	_	7.79	_
Level 1	7.28	7.27	-	7.28	_
Service occupations:					
Protective service occupations:					
Supervisors, police and detectives	22.12	_	22.12	22.12	_
Firefighting occupations	17.10	_	17.10	17.10	_
Police and detectives, public service	15.97	_	15.97	15.97	_
Level 6	13.56	_	13.56	13.56	_
Guards and police except public service	_	_	_	8.85	_
Food service occupations:					
Waiters and waitresses	3.86	3.86	_	_	_
Kitchen workers, food preparation	7.67	7.79	_	8.05	_
Level 3	7.99	_	_	_	_
Food preparation occupations. N.E.C.	7.22	7.66	_	7.58	6.39
Level 1	6.30	-	_	-	
Health service occupations:	3.30				
Nursing aides, orderlies and attendants	8.26	_	l _	l _	_
Cleaning and building service occupations:	0.20				
Maids and housemen	7.83	7.83	_	l _	_
Janitors and cleaners	7.26	7.03	8.23	7.66	_
Level 1	6.72	6.55		7.03	_
201011	0.72	0.00		7.00	

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

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."

nolicays, nonproduction bonuses, and tips. The mean is computed by totaling the pay of all workers and dividing by the number of workers, weighted by hours.

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

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

Table C-1. Mean hourly earnings1 by occupational group and selected characteristics, all industries, Raleigh-Durham-Chapel Hill, NC, July 1998

Occupational group ²	Full-time workers ³	Part-time workers ³	Union ⁴	Nonunion ⁴	Time ⁵	Incentive ⁵
All occupations	\$17.05	\$8.44	\$13.39	\$16.71	\$16.55	\$16.95
All occupations excluding sales		8.62	13.39	16.75	16.59	16.24
White-collar occupations	20.27	11.67	_	20.04	20.11	17.48
White-collar excluding sales	20.52	15.02	-	20.44	20.41	_
Professional specialty and technical occupations	24.50	21.23	_	24.49	24.45	_
Professional specialty occupations	26.41	21.80	_	26.36	26.32	_
Technical occupations	17.36	_	_	17.04	17.34	_
Executive, administrative, and managerial occupations	27.67	_	_	27.63	27.62	_
Sales occupations	17.43	7.32	_	16.07	15.59	17.10
Administrative support including clerical occupations	11.33	8.42	-	11.22	11.26	_
Blue-collar occupations	11.67	7.64	12.20	11.36	11.45	_
Precision production, craft, and repair occupations	14.52	_	16.58	14.39	14.49	_
Machine operators, assemblers, and inspectors	10.59	_	11.43	10.26	10.64	_
Transportation and material moving occupations	12.07	7.09	_	9.96	10.54	_
Handlers, equipment cleaners, helpers, and laborers		8.90	9.96	8.52	8.76	_
Service occupations	9.45	6.73	-	8.78	8.83	_

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

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

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

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

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

classified into one of nine major occupational groups.

3 Employees are classified as working either a full-time or a part-time schedule based on the definition used by each establishment. Therefore, a worker with a 35-hour-per-week schedule might be considered a full-time employee in one establishment, but classified as part-time in another firm,

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

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

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

Table C-2. Mean hourly earnings¹ by occupational group and industry division, private industry, all workers², Raleigh-Durham-Chapel Hill, NC, July 1998

		Goods-producing industries ⁴				Service-producing industries 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	\$16.28 16.30	\$18.28 18.05			\$18.59 18.35	\$14.97 15.04	\$20.46 20.09	\$11.11 10.50	\$15.92 15.71	
White-collar occupations White-collar excluding sales	20.72 21.46	25.57 25.55	_ _	_ _	25.57 25.55	18.27 19.11	23.92 23.81	12.73 13.09	16.34 16.13	_ _
Professional specialty and technical occupations Professional specialty occupations	24.62 26.44	26.90 28.55	_ _	- -	26.90 28.55	22.87 24.59	24.04 25.23	- -	25.25 -	_ _
Technical occupations	17.87	17.87	_	_	17.87	17.87	-	_	-	-
Executive, administrative, and managerial occupations	28.98	33.33	_	_	33.33	26.04	_	_	22.78	-
Sales occupations	16.10	25.82	_	_	25.82	14.39	_	12.49	_	-
Administrative support, including clerical occupations	11.61	12.89	_	_	12.89	11.23	13.90	10.17	11.12	_
Blue-collar occupations	11.38	11.46	_	_	11.34	11.24	13.92	10.69	_	_
Precision production, craft, and repair occupations	14.52	14.32	_	_	14.15	14.92	17.37	13.37	_	_
Machine operators, assemblers, and inspectors	10.64	10.82	_	_	10.82	_	_	_	_	_
Transportation and material moving occupations	10.92	10.10	_	_	10.10	11.16	_	12.68	_	_
Handlers, equipment cleaners, helpers, and laborers	8.67	8.59	_	_	8.58	8.76	11.10	7.92	_	_
Service occupations	7.65	_	_	_	_	7.65	_	7.19	_	_

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

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

weighted by hours.

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

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

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

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

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

Table C-3. Mean hourly earnings¹ by occupational group and establishment employment size, private industry, all workers², Raleigh-Durham-Chapel Hill, NC, July 1998

			100 workers or more			
Occupational group ³	All private industry workers	50 - 99 workers	Total	100 - 499 workers	500 workers or more	
All occupations	\$16.28 16.30	\$11.62 11.19	\$17.16 17.18	\$14.72 14.54	\$20.09 20.00	
White-collar occupations		15.82 16.88	21.24 21.79	19.35 20.35	22.77 22.68	
Professional specialty and technical occupations	26.44 17.87 28.98	18.98 19.35 - 28.81 14.26 10.48	24.84 26.77 17.93 29.00 16.82 11.75	25.08 26.46 16.59 27.42 16.08 11.55	24.73 26.94 18.26 30.05 – 11.95	
Blue-collar occupations	14.52 10.64 10.92	10.77 - - - - 8.62	11.51 14.57 10.78 11.01 8.69	11.02 13.77 10.24 11.09 8.07	12.59 16.30 11.67 – 9.81	
Service occupations	7.65	7.92	7.47	6.90	_	

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

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

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

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

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

schedule. $\frac{3}{3}$ A classification system including about 480 individual occupations is used to cover all workers in the civilian economy.

Table C-4. Number of workers¹ represented by occupational group, Raleigh-Durham-Chapel Hill, NC, July 1998

		All workers	
Occupational group ²	All industries	Private industry	State and local govern- ment
All occupations All occupations excluding sales	288,239 271,488	207,115 190,506	81,124 80,982
White-collar occupations	178,507 161,756	114,226 97,617	64,281 64,139
Professional specialty and technical occupations	66,181 16,913	49,662 39,149 10,513 17,558 16,609 30,397	33,431 27,031 6,400 6,123 - 24,585
Blue-collar occupations	21,833 19,448	61,350 18,308 19,202 8,037 15,804	6,673 3,525 - 1,800 1,101
Service occupations	41,709	31,539	10,170

¹ Both full-time and part-time workers were included in the survey. Employees are classified as working either a full-time or a part-time schedule based on the definition used by each establishment. Therefore, a worker with a 35-hour-per-week schedule might be considered a full-time employee in one establishment, but classified as part-time in another establishment, where a 40-hour week is the minimum full-time schedule.

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

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

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

Appendix A: Technical Note

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

Planning for the survey

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

Survey scope

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

The Raleigh-Durham-Chapel Hill, NC, Metropolitan Statistical Area includes Chatham, Durham, Franklin, Johnston, Orange and Wake Counties, NC

Sampling frame

The list of establishments from which the survey sample was selected (sampling frame) was developed from State unemployment insurance reports. Due to the volatility of industries within the private sector, sampling frames were developed using the most recent month of reference available at the time the sample was selected. The sampling frame was reviewed prior to the survey and, when necessary, missing establishments were added, out-of-business and out-of-scope establishments were removed, and addresses, employment levels, industry classification, and other information were updated.

Sample design

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

Data collection

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

Occupational selection and classification

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

- 1. Probability-proportional-to-size selection of establishment jobs.
- 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 es-

tablishment.

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

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

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

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

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

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

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

Generic leveling through point factor analysis

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

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

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

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

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

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

Collection period

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

Earnings

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

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

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

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

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

Definition of terms

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

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

Level. A ranking of an occupation based on the require-

ments of the position. (See the description in the technical note and the example for more details on the leveling process.)

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

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

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

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

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

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

Processing and analyzing the data

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

Weighting and nonresponse

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

Establishments that were determined to be out of 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	220
Responding	149
Out of business or not in	
survey scope	17
Unable or refused to pro-	
vide data	54

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, Raleigh-Durham-Chapel Hill, NC, July 1998

			Number o	of establishmen	ts studied	
Industry	Number of establish-		50.00	10	0 workers or m	ore
	ments rep- resented	Total studied	al studied 50 - 99 workers	Total	100 - 499 workers	500 workers or more
All industries Private industry Goods-producing industries Construction Manufacturing Service-producing industries Tranportation and public utilities Wholesale and retail trade Finance, insurance and real estate Services State and local government	1,216 292 55 237 924 122 370 74 358	146 116 45 1 44 71 8 25 7 31	36 32 6 1 5 26 2 14 2 8	110 84 39 - 39 45 6 11 5 23 26	67 58 22 - 22 36 5 10 3 18	43 26 17 - 17 9 1 1 2 5

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, Raleigh-Durham-Chapel Hill, NC, July 1998

(in percent)

Occupation ³	All indus- tries	Private industry	State and local government
III occupations	3.3	3.5	7.6
All occupations excluding sales	3.4	3.6	7.6
White-collar occupations	3.5 3.6	3.1 3.2	8.6 8.6
Professional specialty and technical occupations	4.5	3.2	11.1
Professional specialty occupations	4.9	3.4	12.1
Engineers, architects, and surveyors Civil engineers	4.4 8.2	3.7	_
Industrial engineers	14.2	14.2	_
Engineers, N.E.C.	4.6	5.4	_
Mathematical and computer scientists	3.6	3.6	_
Computer systems analysts and scientists Operations and systems researchers and	3.9	3.9	-
analysts Natural scientists	10.2 6.9	10.2 8.6	_
Chemists, except biochemists	10.3	10.3	_
Medical scientists	7.2	11.3	_
Health related occupations	5.4	_	5.9
Registered nurses	4.3	_	5.2
Teachers, college and university	-	_	
Teachers, except college and university Elementary school teachers	2.0 1.6	_	1.4 1.6
Secondary school teachers	3.5	_	3.5
Librarians, archivists, and curators	-	_	-
Social scientists and urban planners	5.4	_	_
Social, recreation, and religious workers	6.8	_	7.9
Social workers	6.8	_	7.9
Lawyers and judges	_	_	_
Writers, authors, entertainers, athletes, and professionals, N.E.C.	6.4	6.4	_
Professional occupations, N.E.C.	11.5	11.5	_
Technical occupations	5.5	5.3	12.4
Clinical laboratory technologists and technicians	7.7	_	_
Electrical and electronic technicians	9.9	9.9	_
Engineering technicians, N.E.C.	8.1	8.1	_
Computer programmers Technical and related occupations, N.E.C	5.8 13.8	7.3 14.3	_
Executive, administrative, and managerial occupations	4.5	5.1	8.5
Executives, administrators, and managers	4.3	5.1	4.2
Administrators and officials, public administration	11.7	_	11.7
Financial managers Managers, marketing, advertising and public	6.3	10.6	_
relations Managers, service organizations, N.E.C	7.6 20.0	7.6	_
Managers and administrators, N.E.C.	8.7	9.2	
Management related occupations	3.2	4.5	2.9
Accountants and auditors	3.8	3.3	_
Other financial officers	8.5	11.3	_
Personnel, training, and labor relations	4.0	7.0	
specialists Purchasing agents and buyers, N.E.C	4.2 8.4	7.0 –	
Management related occupations, N.E.C	5.0	_	_
Sales occupations	8.3	8.4	_
Advertising and related sales occupations	6.6	6.6	_
Cashiers	5.3	5.1	
Administrative support occupations, including clerical	1.7	2.6	2.1
Supervisors, general office	14.5 2.8	_ 2.8	- 4.6
Order clerks	∠.o 11.7	11.7	4.6
Records clerks, N.E.C.	5.7	8.6	_
Bookkeepers, accounting and auditing clerks	3.4	3.7	3.6
Traffic, shipping and receiving clerks	6.1	6.1	-
Investigators and adjusters except insurance	4.3	4.3	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, Raleigh-Durham-Chapel Hill, NC, July 1998 — Continued

(in percent)

Mite-collar occupations (-Continued) Administrative support occupations, including clerical (-Continued) General office clerks	(iii percent)			
Administrative support occupations, including clerical (-Continued) General office clerks	Occupation ³			local govern-
Administrative support occupations, including clerical (-Continued) General office clerks				
Administrative support occupations, including clerical (-Continued) General office clerks				
(-Continued) 2.7 4.9 3.3 Data entry keyers 3.0 - - Administrative support occupations, N.E.C. 6.2 6.5 - Blue-collar occupations 3.5 3.8 5.7 Precision production, craft, and repair occupations 4.9 5.8 0.8 Mechanics and repairers, N.E.C. 8.6 9.1 - Supervisors, production occupations 10.2 10.2 - Electrical and electronic equipment assemblers 4.5 4.5 - Machine operators, assemblers, and inspectors 4.9 4.9 - Packaging and filling machine operators 4.1 4.1 - Miscellaneous machine operators, N.E.C. 11.4 11.4 - Assemblers 6.7 6.7 - - Transportation and material moving occupations 12.0 13.2 3.1 Truck drivers 5.7 - 3.1 Handlers, equipment cleaners, helpers, and laborers 3.7 3.9 4.2 Stock handlers and p				
General office clerks				
Data entry keyers				
Administrative support occupations, N.E.C. 6.2 6.5			4.9	3.3
Blue-collar occupations			_	_
Precision production, craft, and repair occupations 4.9 5.8 0.8 Mechanics and repairers, N.E.C. 8.6 9.1 - Supervisors, production occupations 10.2 10.2 - Electrical and electronic equipment assemblers 4.5 4.5 - Machine operators, assemblers, and inspectors 4.9 4.9 - Packaging and filling machine operators 4.1 4.1 - Miscellaneous machine operators, N.E.C. 11.4 4.1 - Assemblers 6.7 6.7 6.7 - Transportation and material moving occupations 12.0 13.2 3.1 Truck drivers 15.0 15.0 - - Bus drivers 5.7 - 3.1 + 4.2 - - 3.1 + 4.2 - - - - - 3.1 + 4.2 - - - 3.1 + 4.2 - - 4.2 - - - 4.2 <	Administrative support occupations, N.E.C	6.2	6.5	_
Precision production, craft, and repair occupations 4.9 5.8 0.8 Mechanics and repairers, N.E.C. 8.6 9.1 - Supervisors, production occupations 10.2 10.2 - Electrical and electronic equipment assemblers 4.5 4.5 - Machine operators, assemblers, and inspectors 4.9 4.9 - Packaging and filling machine operators 4.1 4.1 - Miscellaneous machine operators, N.E.C. 11.4 4.1 - Assemblers 6.7 6.7 6.7 - Transportation and material moving occupations 12.0 13.2 3.1 Truck drivers 15.0 15.0 - - Bus drivers 5.7 - 3.1 + 4.2 - - 3.1 + 4.2 - - - - - 3.1 + 4.2 - - - 3.1 + 4.2 - - 4.2 - - - 4.2 <	Rivo-collar accumations	2.5	2.0	5.7
Mechanics and repairers, N.E.C. 8.6 9.1 - Supervisors, production occupations 10.2 10.2 - Electrical and electronic equipment assemblers 4.5 4.5 - Machine operators, assemblers, and inspectors 4.9 4.9 - Packaging and filling machine operators 4.1 4.1 - Miscellaneous machine operators, N.E.C. 11.4 11.4 - Assemblers 6.7 6.7 - Transportation and material moving occupations 12.0 13.2 3.1 Truck drivers 15.0 15.0 - Bus drivers 5.7 - 3.1 Handlers, equipment cleaners, helpers, and laborers 3.7 3.9 4.2 Stock handlers and baggers 4.1 4.4 - Freight, stock, and material handlers, N.E.C. 8.6 8.6 - Hand packers and packagers 9.9 9.9 - Laborers except construction, N.E.C. 3.4 3.4 - Service occupations 10.2<				_
Supervisors, production occupations		-		
Electrical and electronic equipment assemblers				
Machine operators, assemblers, and inspectors 4.9 4.9 - Packaging and filling machine operators 4.1 4.1 - Miscellaneous machine operators, N.E.C. 11.4 11.4 - Assemblers 6.7 6.7 - - Transportation and material moving occupations 12.0 13.2 3.1 Truck drivers 15.0 15.0 - - Bus drivers 5.7 - 3.1 Handlers, equipment cleaners, helpers, and laborers 3.7 3.9 4.2 Stock handlers and baggers 4.1 4.4 - Freight, stock, and material handlers, N.E.C. 8.6 8.6 - Hand packers and packagers 9.9 9.9 - Laborers except construction, N.E.C. 3.4 3.4 - Service occupations 4.3 3.6 8.4 Protective service occupations 10.2 - 8.8 Supervisors, police and detectives 3.7 - 3.7 Firefighting occupations				_
Packaging and filling machine operators 4.1 4.1 - Miscellaneous machine operators, N.E.C. 11.4 11.4 - Assemblers 6.7 6.7 - Transportation and material moving occupations 12.0 13.2 3.1 Truck drivers 15.0 15.0 - Bus drivers 5.7 - 3.1 Handlers, equipment cleaners, helpers, and laborers 3.7 3.9 4.2 Stock handlers and baggers 4.1 4.4 - Freight, stock, and material handlers, N.E.C. 8.6 8.6 - Hand packers and packagers 9.9 9.9 - Laborers except construction, N.E.C. 3.4 3.4 - Service occupations 4.3 3.6 8.4 Protective service occupations 10.2 - 8.8 Supervisors, police and detectives 3.7 - 3.7 Firefighting occupations 20.1 - 20.1 Police and detectives, public service 9.3 -		-		_
Miscellaneous machine operators, N.E.C. 11.4 11.4 - Assemblers 6.7 6.7 - Transportation and material moving occupations 12.0 13.2 3.1 Truck drivers 15.0 15.0 - Bus drivers 5.7 - 3.1 Handlers, equipment cleaners, helpers, and laborers 3.7 3.9 4.2 Stock handlers and baggers 4.1 4.4 - Freight, stock, and material handlers, N.E.C. 8.6 8.6 - Hand packers and packagers 9.9 9.9 - Laborers except construction, N.E.C. 3.4 3.4 - Service occupations 10.2 - 8.8 Supervisors, police and detectives 3.7 - 3.7 Firefighting occupations 10.2 - 8.8 Supervisors, police and detectives 9.3 - 9.3 Food service occupations 20.1 - 20.1 Police and detectives, public service 9.3 - 9.3 <td></td> <td>-</td> <td></td> <td></td>		-		
Assemblers				
Transportation and material moving occupations 12.0 13.2 3.1 Truck drivers 15.0 15.0 - - Bus drivers 5.7 - 3.1 Handlers, equipment cleaners, helpers, and laborers 3.7 3.9 4.2 Stock handlers and baggers 4.1 4.4 - Freight, stock, and material handlers, N.E.C. 8.6 8.6 - Hand packers and packagers 9.9 9.9 - Laborers except construction, N.E.C. 3.4 3.4 - Service occupations 4.3 3.6 8.4 Protective service occupations 10.2 - 8.8 Supervisors, police and detectives 3.7 - 3.7 Firefighting occupations 20.1 - 20.1 Police and detectives, public service 9.3 - 9.3 Food service occupations 5.7 6.4 - Waiters and waitresses 18.8 18.8 - Kitchen workers, food preparation 5.1 6.6	· · · · · · · · · · · · · · · · · · ·			_
Truck drivers 15.0 15.0 - Bus drivers 5.7 - 3.1 Handlers, equipment cleaners, helpers, and laborers 3.7 3.9 4.2 Stock handlers and baggers 4.1 4.4 - Freight, stock, and material handlers, N.E.C. 8.6 8.6 - Hand packers and packagers 9.9 9.9 - Laborers except construction, N.E.C. 3.4 3.4 - Service occupations 4.3 3.6 8.4 Protective service occupations 10.2 - 8.8 Supervisors, police and detectives 3.7 - 3.7 Firefighting occupations 20.1 - 20.1 Police and detectives, public service 9.3 - 9.3 Food service occupations 5.7 6.4 - Waiters and waitresses 18.8 18.8 18.8 Kitchen workers, food preparation 5.1 6.6 - Food preparation occupations, N.E.C. 8.4 8.4 - <		-	-	
Bus drivers		-		3.1
Handlers, equipment cleaners, helpers, and laborers				
Stock handlers and baggers 4.1 4.4 - Freight, stock, and material handlers, N.E.C. 8.6 8.6 - Hand packers and packagers 9.9 9.9 - Laborers except construction, N.E.C. 3.4 3.4 - Service occupations 4.3 3.6 8.4 Protective service occupations 10.2 - 8.8 Supervisors, police and detectives 3.7 - 3.7 Firefighting occupations 20.1 - 20.1 Police and detectives, public service 9.3 - 9.3 Food service occupations 5.7 6.4 - Waiters and waitresses 18.8 18.8 - Kitchen workers, food preparation 5.1 6.6 - Food preparation occupations, N.E.C. 8.4 8.4 - Health service occupations 2.2 - - Nursing aides, orderlies and attendants 3.0 - - Cleaning and building service occupations 6.3 7.3				_
Freight, stock, and material handlers, N.E.C.				4.2
Hand packers and packagers				_
Laborers except construction, N.E.C. 3.4 3.4 - Service occupations 4.3 3.6 8.4 Protective service occupations 10.2 - 8.8 Supervisors, police and detectives 3.7 - 3.7 Firefighting occupations 20.1 - 20.1 Police and detectives, public service 9.3 - 9.3 Food service occupations 5.7 6.4 - Waiters and waitresses 18.8 18.8 - Kitchen workers, food preparation 5.1 6.6 - Food preparation occupations, N.E.C. 8.4 8.4 - Health service occupations 2.2 - - Nursing aides, orderlies and attendants 3.0 - - Cleaning and building service occupations 6.3 7.3 2.6 Maids and housemen 9.9 9.9 - Janitors and cleaners 5.5 6.2 2.6				_
Service occupations 4.3 3.6 8.4 Protective service occupations 10.2 - 8.8 Supervisors, police and detectives 3.7 - 3.7 Firefighting occupations 20.1 - 20.1 Police and detectives, public service 9.3 - 9.3 Food service occupations 5.7 6.4 - Waiters and waitresses 18.8 18.8 - Kitchen workers, food preparation 5.1 6.6 - Food preparation occupations, N.E.C. 8.4 8.4 - Health service occupations 2.2 - - Nursing aides, orderlies and attendants 3.0 - - Cleaning and building service occupations 6.3 7.3 2.6 Maids and housemen 9.9 9.9 - Janitors and cleaners 5.5 6.2 2.6		9.9	9.9	_
Protective service occupations 10.2 - 8.8 Supervisors, police and detectives 3.7 - 3.7 Firefighting occupations 20.1 - 20.1 Police and detectives, public service 9.3 - 9.3 Food service occupations 5.7 6.4 - Waiters and waitresses 18.8 18.8 - Kitchen workers, food preparation 5.1 6.6 - Food preparation occupations, N.E.C. 8.4 8.4 - Health service occupations 2.2 - - Nursing aides, orderlies and attendants 3.0 - - Cleaning and building service occupations 6.3 7.3 2.6 Maids and housemen 9.9 9.9 - Janitors and cleaners 5.5 6.2 2.6	Laborers except construction, N.E.C	3.4	3.4	_
Protective service occupations 10.2 - 8.8 Supervisors, police and detectives 3.7 - 3.7 Firefighting occupations 20.1 - 20.1 Police and detectives, public service 9.3 - 9.3 Food service occupations 5.7 6.4 - Waiters and waitresses 18.8 18.8 - Kitchen workers, food preparation 5.1 6.6 - Food preparation occupations, N.E.C. 8.4 8.4 - Health service occupations 2.2 - - Nursing aides, orderlies and attendants 3.0 - - Cleaning and building service occupations 6.3 7.3 2.6 Maids and housemen 9.9 9.9 - Janitors and cleaners 5.5 6.2 2.6	Comice econoctions	4.0	2.6	0.4
Supervisors, police and detectives 3.7 - 3.7 Firefighting occupations 20.1 - 20.1 Police and detectives, public service 9.3 - 9.3 Food service occupations 5.7 6.4 - Waiters and waitresses 18.8 18.8 - Kitchen workers, food preparation 5.1 6.6 - Food preparation occupations, N.E.C. 8.4 8.4 - Health service occupations 2.2 - - Nursing aides, orderlies and attendants 3.0 - - Cleaning and building service occupations 6.3 7.3 2.6 Maids and housemen 9.9 9.9 - Janitors and cleaners 5.5 6.2 2.6		-	3.6	_
Firefighting occupations 20.1 - 20.1 Police and detectives, public service 9.3 - 9.3 Food service occupations 5.7 6.4 - Waiters and waitresses 18.8 18.8 - Kitchen workers, food preparation 5.1 6.6 - Food preparation occupations, N.E.C. 8.4 8.4 - Health service occupations 2.2 - - Nursing aides, orderlies and attendants 3.0 - - Cleaning and building service occupations 6.3 7.3 2.6 Maids and housemen 9.9 9.9 - Janitors and cleaners 5.5 6.2 2.6		-	_	
Police and detectives, public service 9.3 - 9.3 Food service occupations 5.7 6.4 - Waiters and waitresses 18.8 18.8 - Kitchen workers, food preparation 5.1 6.6 - Food preparation occupations, N.E.C. 8.4 8.4 - Health service occupations 2.2 - - Nursing aides, orderlies and attendants 3.0 - - Cleaning and building service occupations 6.3 7.3 2.6 Maids and housemen 9.9 9.9 - Janitors and cleaners 5.5 6.2 2.6			_	
Food service occupations 5.7 6.4 - Waiters and waitresses 18.8 18.8 - Kitchen workers, food preparation 5.1 6.6 - Food preparation occupations, N.E.C. 8.4 8.4 - Health service occupations 2.2 - - Nursing aides, orderlies and attendants 3.0 - - Cleaning and building service occupations 6.3 7.3 2.6 Maids and housemen 9.9 9.9 - Janitors and cleaners 5.5 6.2 2.6		-	_	-
Waiters and waitresses 18.8 18.8 - Kitchen workers, food preparation 5.1 6.6 - Food preparation occupations, N.E.C. 8.4 8.4 - Health service occupations 2.2 - - Nursing aides, orderlies and attendants 3.0 - - Cleaning and building service occupations 6.3 7.3 2.6 Maids and housemen 9.9 9.9 - Janitors and cleaners 5.5 6.2 2.6			-	9.3
Kitchen workers, food preparation 5.1 6.6 - Food preparation occupations, N.E.C. 8.4 8.4 - Health service occupations 2.2 - - Nursing aides, orderlies and attendants 3.0 - - Cleaning and building service occupations 6.3 7.3 2.6 Maids and housemen 9.9 9.9 - Janitors and cleaners 5.5 6.2 2.6				_
Food preparation occupations, N.E.C. 8.4 8.4 - Health service occupations 2.2 - - Nursing aides, orderlies and attendants 3.0 - - Cleaning and building service occupations 6.3 7.3 2.6 Maids and housemen 9.9 9.9 - Janitors and cleaners 5.5 6.2 2.6				_
Health service occupations				_
Nursing aides, orderlies and attendants 3.0 - - Cleaning and building service occupations 6.3 7.3 2.6 Maids and housemen 9.9 9.9 - Janitors and cleaners 5.5 6.2 2.6			8.4	_
Cleaning and building service occupations 6.3 7.3 2.6 Maids and housemen 9.9 9.9 - Janitors and cleaners 5.5 6.2 2.6			_	_
Maids and housemen 9.9 9.9 - Janitors and cleaners 5.5 6.2 2.6			_	
Janitors and cleaners				2.6
				l
Personal service occupations 8.3 16.2 6.0			-	
	Personal service occupations	8.3	16.2	6.0

¹ The relative standard error is the standard error expressed as a percent of the estimate. Hourly

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."

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 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 a 33-nour-per-week scrieduler might be considered a full-time employee in one establishment, but classified as part-time in another firm, where a 40-hour week is the minimum full-time schedule.

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

the civilian economy. Individual occupations are

Appendix table 3. Average work levels for selected occupations, all workers, full-time and part-time workers, Raleigh-Durham-Chapel Hill, NC, July 1998

Occupation ¹	All workers	Full-time workers	Part-time workers
All occupations	6	6	3
All occupations excluding sales		6	3
White-collar occupations	7	8	5
White-collar occupations excluding sales	8	8	6
Professional specialty and technical occupations	9	9	9
Professional specialty occupations Engineers, architects, and surveyors		10 10	9
Civil engineers		8	_
Industrial engineers	10	10	_
Engineers, N.E.C.		12	_
Mathematical and computer scientists	10	10	_
Computer systems analysts and scientists Operations and systems researchers and analysts	10 10	10 10	_
Natural scientists	10	10	_
Chemists, except biochemists		10	_
Medical scientists	11	11	_
Health related occupations	9	9	9
Registered nurses		8	9
Teachers, college and university		_ 8	_
Teachers, except college and university Elementary school teachers		8	_
Secondary school teachers		7	_
Librarians, archivists, and curators			_
Social scientists and urban planners		11	-
Social, recreation, and religious workers		7	-
Social workers	7	7	_
Lawyers and judges	_	_	_
N.E.C.	7	7	_
Professional occupations, N.E.C.	9	9	_
Technical occupations	7	7	_
Clinical laboratory technologists and technicians		8	_
Electrical and electronic technicians		8	_
Engineering technicians, N.E.C.		6 9	_
Computer programmers Technical and related occupations, N.E.C		5	_
Executive, administrative, and managerial occupations		10	_
Executives, administrators, and managers		11	_
Administrators and officials, public administration	9	9	_
Financial managers		11	_
Managers, marketing, advertising and public relations Managers, service organizations, N.E.C		11 11	_
Managers and administrators, N.E.C.		11	_
Management related occupations		8	_
Accountants and auditors		10	_
Other financial officers		7	_
Personnel, training, and labor relations specialists		8	_
Purchasing agents and buyers, N.E.C		8 8	_
Sales occupations		6	2
Advertising and related sales occupations		10	_
Sales workers, other commodities		5	-
Cashiers		2	2
Administrative support occupations, including clerical		4	3
Supervisors, general office Secretaries		7 5	_
Order clerks		4	_
Records clerks, N.E.C.		5	_
Bookkeepers, accounting and auditing clerks		4	_
Traffic, shipping and receiving clerks	4	4	_
Investigators and adjusters except insurance		6	_
General office clerks		4	_
Data entry keyers Administrative support occupations, N.E.C		_ 6	_
Administrative support occupations, N.L.O.			-
Blue-collar occupations	4	4	2
Precision production, craft, and repair occupations		6	I

Appendix table 3. Average work levels for selected occupations, all workers, full-time and part-time workers, Raleigh-Durham-Chapel Hill, NC, July 1998 — Continued

Occupation ¹	All workers	Full-time workers	Part-time workers
Blue-collar occupations (-Continued)			
Precision production, craft, and repair occupations			
(-Continued)			
Mechanics and repairers, N.E.C.	6	6	_
Supervisors, production occupations		8	_
Electrical and electronic equipment assemblers		3	_
Machine operators, assemblers, and inspectors	_	3	_
Packaging and filling machine operators		3	_
Miscellaneous machine operators, N.E.C.		4	_
Assemblers		3	_
Transportation and material moving occupations	3	3	2
Truck drivers	3	3	_
Bus drivers		_	_
Handlers, equipment cleaners, helpers, and laborers		2	2
Stock handlers and baggers		3	2
Freight, stock, and material handlers, N.E.C		2	_
Hand packers and packagers		2	_
Laborers except construction, N.E.C.	2	2	-
Service occupations	3	3	2
Protective service occupations	5	5	_
Supervisors, police and detectives	10	10	_
Firefighting occupations	8	8	_
Police and detectives, public service	8	8	_
Guards and police except public service		3	-
Food service occupations		3	2
Waiters and waitresses		_	_
Kitchen workers, food preparation		3	_
Food preparation occupations, N.E.C		2	2
Health service occupations		2	_
Nursing aides, orderlies and attendants		_	_
Cleaning and building service occupations		2	2
Maids and housemen	_	_	_
Janitors and cleaners	I	2	_
Personal service occupations	3	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."