National Compensation Survey Pilot Test New York-Northern New Jersey-Long Island February 1997

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

Bureau of Labor Statistics Katharine G. Abraham, Commissioner

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New York-Northern New Jersey-Long Island Consolidated Metropolitan Statistical Area

Preface

This bulletin provides results of a February 1997 survey ▲ of occupational pay in the New York-Northern New Island. NY-NJ-CT-PA. Jersev-Long Metropolitan Statistical Area (CMSA). The CMSA includes Bronx, Dutchess, Kings, Nassau, New York, Orange, Putnam, Queens, Richmond, Rockland, Suffolk, and Westchester Counties, NY; Bergen, Essex, Hudson, Hunterdon, Mercer, Middlesex, Monmouth, Morris, Ocean, Passaic, Somerset, Sussex, Union, and Warren Counties, NJ; Fairfield County, the towns of Bethlehem, Bridgewater, New Milford, Roxbury, Thomaston, Washington, Watertown, and Woodbury in Litchfield County, the towns of Clinton and Killingworth in Middlesex County, and New Haven County, CT; and Pike County, PA.

Data shown in this bulletin were collected as part of the Bureau of Labor Statistics' (BLS) new program known as the National Compensation Survey (NCS). (COMP2000 was the survey's working title.) The new program, now in its first stage of implementation, will eventually replace three separate BLS compensation series -- Occupational Compensation Survey, Employment Cost Index, and Employee Benefits Survey. This first phase, which includes only the wage and salary portion of compensation, was designed to produce data similar to those released under the Occupational Compensation Survey, which has been discontinued. See page one of this bulletin for further information on NCS.

First surveys are pilot tests

The first surveys in the new program are referred to as pilot tests, because they include major changes in survey concepts, definitions, and collection procedures from the predecessor Occupational Compensation Survey Program. The Bureau is reviewing the pilot test results to improve its data collection procedures and techniques. The survey results should therefore be interpreted with caution.

Additionally, many of the long-time participants in the Occupational Compensation Survey were asked to provide data for a much broader selection of occupations than in the past and to apply a new classification system and leveling factors to those occupations. For many other companies, this was the first time they participated in a Bureau compensation study.

Due to the limited amount of time available to initiate the first phase of this new program, a number of companies were unable to provide complete data before the publication deadline. As a result, some surveys have a high nonresponse rate for the all industries or the private industry iterations. Such instances are noted in the bulletin table footnotes.

The bulletin consists primarily of tables whose data are analyzed in the initial textual section. 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 is information on the new program, a technical note describing survey procedures, and several appendixes with detailed information on occupational classifications and the generic leveling methodology.

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. Survey data were collected and reviewed by Bureau of Labor Statistics field economists under the direction of Richard S. Scheingold, Assistant Regional Commissioner for Operations of the New York Regional Office. The Office of Compensation and Working Conditions in the BLS National Office was responsible for the survey design and data processing and analysis.

Where to find more information

For additional information regarding this survey, please contact the BLS New York Regional Office at (212) 337-2400. You may also write to the Bureau of Labor Statistics at: Division of Compensation Data Analysis and Planning, 2 Massachusetts Avenue, NE, Washington, DC 20212-0001, or call (202) 606-6220.

The data contained in this bulletin are also available on the Internet's World Wide Web through the BLS site: http://stats.bls.gov/comhome.htm Data are in three formats: an ASCII file containing the exact published table formats; an ASCII file containing positional columns of data for easy manipulation as a data base or spreadsheet; and a Portable Document Format containing the entire bulletin. The ASCII files may include tables not appearing in this bulletin.

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A New Compensation Survey

This survey represents the first phase of a new Bureau of Labor Statistics program called the National Compensation Survey (NCS). NCS integrates three existing programs: the Occupational Compensation Survey (OCS), the Employment Cost Index (ECI), and the Employee Benefits Survey (EBS), into one comprehensive compensation program. Data from the new survey will be jointly collected from one common sample of establishments. The survey has several major goals: To make the most efficient use of available resources—dollars, people, and technology; to minimize the burden of collection on respondents; and to provide a wide range of statistical outputs reflecting up-to-date economic and statistical concepts.

The streamlining of programs and the addition of data will be phased in over time. Beginning in the spring of 1996, pilot studies (under the name COMP2000) in six metropolitan areas were conducted to test various procedures of the new program. Wage data were collected based on a new method of classifying occupations and levels of work within those occupations.

Following the tests, a new area-based sample covering the Nation as a whole was put into place in Fall 1996. Initially, collection will be limited to the wage and salary portion of compensation. The larger metropolitan area collections will yield bulletins, similar to this one, which will replace the current Occupational Compensation Survey bulletins. Statistics for smaller areas may be released in summary form, if the data support publication. NCS will also yield national statistics, plus data for the nine geographic regions used in the Census of Population, once collection for all areas is completed.

Testing of the collection of benefit data, wage trend data, and other compensation characteristics is planned. Based on test results, new collection procedures for these types of statistics will be developed. Eventually, wage data and benefit information collected from the sample will be used to produce compensation indexes and statistics on

benefit provisions and incidence. These new series will supplant the current ECI and EBS programs.

National Compensation Survey versus OCS

The wage data in this bulletin differ from those in previous Occupational Compensation Survey bulletins by providing broader coverage of occupations and establishments within the survey area. The same holds for all future NCS products.

Occupations surveyed for this bulletin were selected using probability techniques from a list of all those present in each establishment. Previous OCS bulletins were limited to a preselected list of occupations, which represented a small subset of all occupations in the economy. Information in the new bulletin is published for a variety of occupation-based data. This new approach includes data on broad occupational classifications such as white-collar workers, major occupational groups such as sales workers, and individual occupations such as cashiers.

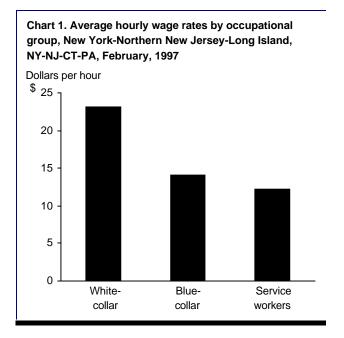
In tables containing job levels within occupational series, the levels are derived from generic standards that apply to all occupational groups. The job levels in the OCS bulletins were based on narrowly-defined descriptions that were not comparable across specific occupations.

Occupational data in this bulletin are also tabulated for other classifications such as industry group, full-time versus part-time status, union versus nonunion status, and establishment employment size. Not all of these series were generated by the OCS program.

The establishments surveyed for this bulletin were limited to those with 50 or more employees. Eventually, NCS will be expanded to cover those now-excluded establishments. Then, virtually all workers in the civilian economy will be surveyed, excluding only private household and farm workers and employees of the Federal Government.

Wages in the New York-Northern New Jersey-Long Island Consolidated Metropolitan Statistical Area

Straight-time wages in the New York-Northern New Jersey-Long Island, NY-NJ-CT-PA, Consolidated Metropolitan Statistical Area averaged \$19.23 per hour during February, 1997. White-collar workers had the highest average wage level, \$23.10 per hour. Blue-collar workers averaged \$14.05 per hour, while service workers had average earnings of \$12.17 per hour. (All comparisons in this analysis cover hourly rates for both full- and part-time workers, unless otherwise noted.)



Within each of these occupational groups, average hourly wages for individual occupations varied. For example, white-collar occupations included registered nurses at \$26.39 per hour, accountants and auditors at \$25.67, and secretaries at \$15.77. Among occupations in the blue-collar category, industrial machinery repairers averaged \$17.79 per hour while bus drivers averaged \$14.97. Finally, service workers included janitors and cleaners at \$11.06 per hour and nursing aides, orderlies and attendants, at \$9.32 per hour. Table A-1 presents earnings data for 49 detailed occupations; data for other detailed occupations surveyed could not be reported

separately due to concerns about the confidentiality of survey respondents and the reliability of the data.

Private industry workers in New York-Northern New Jersey-Long Island, NY-NJ-CT-PA, earned \$18.22 per hour, while State and local government workers averaged \$22.93. Table A-2 reports that the average hourly rate for white-collar occupations was \$22.28 in private industry and \$26.09 in State and local government. Blue-collar occupations showed an average hourly rate of \$13.50 in private industry and \$18.09 in State and local government. Service occupations within private industry averaged \$9.18 per hour while those found in State and local government averaged \$18.04.

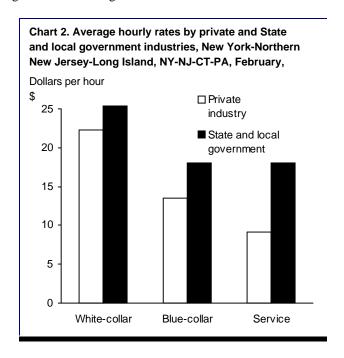
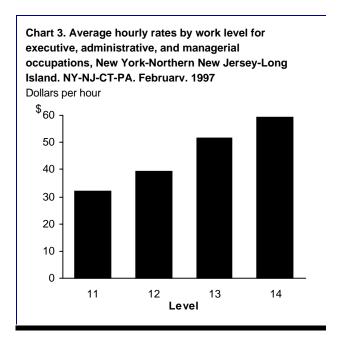


Table A-3 presents data for workers considered by the survey respondents to be either full-time or part-time. Average wages for full-time workers, all occupations, were \$20.15 per hour; compared with an average of \$11.25 per hour for part-time workers.

Data for specific work levels within major occupational groups are reported in table B-1. Wages for the higher levels of work within major occupational groups usually were greater than for the lower levels of

work. This general pattern can vary somewhat depending on the mix of specific occupations (and industries) represented by the broad group. Some levels within a group may not be published because no workers were identified at that level or because there were not enough data to guarantee confidentiality and reliability.

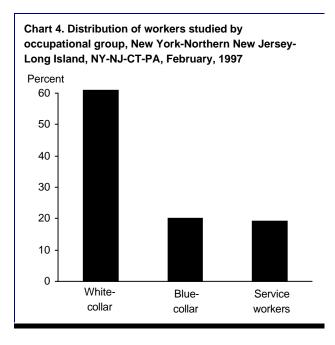
Work levels for all major groups span several levels, with professional specialty occupations and executive, administrative, and managerial occupations typically starting and ending at higher work levels than the other groups. Published data for executive, administrative, and managerial occupations ranged from level 5 to level 14. The average hourly rate was \$32.08 for level 11, \$39.28 for level 12, \$51.45 for level 13, and \$59.36 for level 14.



Surveyed union workers had an average hourly rate of \$18.60, as reported in table C-1. Wages for nonunion workers averaged \$19.69. Time workers, whose wages were based solely on an hourly rate or a salary, averaged \$19.22 per hour. (Data for incentive workers did not meet publication criteria.)

Table C-2 shows wage data for specific industry divisions within private industry. Data were publishable only for the total of goods-producing industries, construction establishments, and manufacturing firms. In the private sector, hourly wages averaged \$25.52 in construction, and \$17.68 in manufacturing.

In New York-Northern New Jersey-Long Island, NY-NJ-CT-PA, a total of 5,096,840 workers were studied, and 3,102,746 were classified in white-collar occupations, or 61 percent. Table C-4 reports that blue-collar occupations included 1,040,506 workers, or 20 percent, and service occupations covered 953,588 workers, or 19 percent.



Data are also presented in appendix table 1 on the number of establishments studied by industry group and employment size. The relative standard errors of published mean hourly earnings for all industries, private industry, and State and local government are available in appendix table 2.

Table A-1. Hourly earnings 1 for selected occupations, all workers 2 , all industries, New York-Northern New Jersey-Long Island, NY-NJ-CT-PA, February, 1997

			All ind	ustries		
Oppuration 3			F	Percentile	es	
Occupation ³	Mean					
	Ivicali	10	25	Median 50	75	90
All occupations	\$19.23	\$7.07	\$10.72	\$16.00	\$23.62	\$34.9°
All occupations excluding sales		7.40	11.00	16.29	23.95	35.2
White-collar occupations	23.10	9.45	13.33	19.03	28.70	41.8
White-collar occupations excluding sales		10.50	14.09	19.79	29.76	42.86
Professional specialty and technical occupations	28.39	14.75	19.07	25.41	34.68	46.4
Professional specialty occupations		16.00	21.37	27.51	37.36	47.9
Engineers, architects, and surveyors	28.50	19.23	22.47	26.41	34.36	40.8
Engineers, N.E.C.		19.50	22.40	29.42	37.50	42.7
Mathematical and computer scientists		19.33	25.00	31.25	39.52	46.8
Computer systems analysts and scientists		19.65	25.00	32.00	39.42	46.1
Natural scientists		-				
Health related occupations		16.42	20.25	25.12	30.73	36.0
Registered nurses		18.86	22.12	26.08	30.41	34.5
Teachers, college and university		22.30	28.37	43.36	52.33	61.7
Teachers, post secondary N.E.C.		_	20.57	-	JZ.33	- 01.7
Teachers, except college and university		15.89	24.42	34.27	45.18	54.7
Elementary school teachers		22.51	27.45	35.74	46.49	55.8
Secondary school teachers				- 33.74	-	- 55.0
Teachers, special education		_	_	_	_	
Teachers, N.E.C.		15.89	24.07	34.27	43.09	47.3
Librarians, archivists, and curators		-	24.07	34.21	45.09	47.3
Social scientists and urban planners		_	_	_	_	_
	1		16.00	10.04	22.71	
Social, recreation, and religious workers		13.29	16.00	19.04	23.71	26.3
Social workers		13.74	16.42	19.49	23.71	26.8
Lawyers and judges	-	_	_	_	_	_
Writers, authors, entertainers, athletes, and						
professionals, N.E.C.		12.76	14.04	17.60	21.02	26.0
Technical occupations		12.76	14.84	17.60	21.92	26.8
Clinical laboratory technologists and technicians	17.95	10.38	14.40	17.79	21.80	24.4
Radiological technicians		12.00		45.77		10.6
Licensed practical nurses		12.90	14.35	15.77	17.05	18.6
Health technologists and technicians, N.E.C.		11.05	13.07	15.16	16.86	21.0
Electrical and electronic technicians		_	_	_	_	_
Engineering technicians, N.E.C.		_	_	_	_	_
Computer programmers		_	_	_	_	_
Technical and related occupations, N.E.C.		16.00	24.44	07.74	20.46	F2.0
Executive, administrative, and managerial occupations		16.83	21.14 25.00	27.74	38.46	52.0
Executives, administrators, and managers		20.28		32.89	45.09	59.1 53.0
Managers and administrators, N.E.C.		20.84	24.93	32.00	42.55	
Management related occupations		15.23	17.47	21.73	27.02	35.4
Accountants and auditors		16.59	18.46	22.14	29.98	36.0
Management related occupations, N.E.C		16.16	18.78	23.08	26.20	31.2
Sales occupations		5.56	7.02	11.28	17.59	27.3
Supervisors, sales occupations		_	_	_	_	_
Sales occupations, other business services						l
Cashiers		5.25	5.75	7.72	10.80	14.4
Sales support occupations, N.E.C.						
Administrative support occupations, including clerical		8.56	10.60	13.56	16.57	19.4
Supervisors, general office		12.20	15.85	18.13	21.87	25.9
Supervisors, financial records processing		- -				
Secretaries		11.47	13.06	15.34	18.13	20.2
Receptionists		7.50	9.50	11.39	12.75	13.9
Library clerks		_	_	-	-	_
Records clerks, N.E.C.		_	_	-	-	_
Bookkeepers, accounting and auditing clerks		9.13	10.63	13.98	16.55	18.7
Billing clerks		_	_	-	-	-
Investigators and adjusters except insurance	13.22	_	_	_	-	-
General office clerks	12.96	7.75	9.79	12.55	16.53	18.2
	11.19	8.25	9.00	10.35	12.88	15.5
Data entry keyers	14.04	9.32	11.38	13.25	15.75	19.2
Data entry keyers	17.07		İ	ı	I	1
Data entry keyersAdministrative support occupations, N.E.C		6.40	0.00	40.00	47.07	20.4
Data entry keyers	14.05	6.40	9.02	13.60	17.97	l
Data entry keyersAdministrative support occupations, N.E.C	14.05 19.57	6.40 11.55	9.02 15.74	13.60 19.72	17.97 22.95	22.4 26.5

Table A-1. Hourly earnings¹ for selected occupations, all workers ², all industries, New York-Northern New Jersey-Long Island, NY-NJ-CT-PA, February, 1997 — Continued

			All ind	ustries		
Occupation ³			F	ercentile	s	
	Mean	10	25	Median 50	75	90
Blue-collar occupations (-Continued) Precision production, craft, and repair occupations (-Continued) Mechanics and repairers, N.E.C. Supervisors, production occupations Machine operators, assemblers, and inspectors Production inspectors, checkers and examiners Transportation and material moving occupations Bus drivers Handlers, equipment cleaners, helpers, and laborers Groundskeepers and gardeners except farm Freight, stock, and material handlers, N.E.C.	\$18.82 21.41 10.53 10.96 15.40 14.97 10.94 11.74 10.75	- \$5.50 - 10.25 - 5.50 - 6.76	- \$6.90 - 12.96 - 7.25 - 8.64	- \$9.71 - 15.60 - 9.66 - 9.58	- \$12.95 - 17.42 - 14.56 - 12.83	- \$16.91 - 20.13 - 18.31 - 16.23
Service occupations Protective service occupations Police and detectives, public service Food service occupations Health service occupations Health aides, except nursing Nursing aides, orderlies and attendants Cleaning and building service occupations Maids and housemen Janitors and cleaners Personal service occupations Child care workers, N.E.C.		6.00 7.02 - 4.21 6.80 7.85 6.80 6.00 7.00 5.80 6.29	6.80 12.47 - 5.05 6.80 9.81 6.80 7.75 8.10 7.45 7.00	10.58 21.02 - 7.15 8.73 11.79 7.75 11.06 11.33 10.72 8.78		22.11 28.27 - 13.88 13.84 15.24 13.65 16.62 14.73 16.62 15.99

¹ Earnings are the straight-time hourly wages or salaries paid to employees. They include incentive pay, cost-of-living adjustments, hazard pay, and on-call 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 less than the rate shown. At the 25th percentile, one-fourth of the workers earn the same as or less than the rate shown. At the 75th percentile, one-fourth earn the same as or more than the rate shown. The 10th and 90th percentiles follow the same logic.

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

3 A classification system including about 480 individual

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

Table A-2. Hourly earnings¹ for selected occupations, all workers², private and government industries, New York-Northern New Jersey-Long Island, NY-NJ-CT-PA, February, 1997

			Private	industry				State	and loca	nd local government			
Occupation ³			F	ercentile	s	Г			F	Percentile	s		
	Mean	10	25	Median 50	75	90	Mean	10	25	Median 50	75	90	
occupations	\$18.22 18.47	\$6.80 6.80	\$9.68 10.00	\$15.00 15.28	\$22.19 22.41	\$33.32 33.65	\$22.93 22.96	\$11.20 11.19	\$14.19 14.19	\$19.78 19.88	\$27.09 27.09	\$41.6 41.6	
White-collar occupations	22.28 23.29	9.00 10.00	12.78 13.71	18.26 19.23	27.56 28.75	39.42 40.53	26.09 26.17	11.98 11.98	15.16 15.26	23.00 23.16	33.81 33.93	47.7 47.7	
Professional specialty and technical													
occupations	26.52	14.40	18.32	24.00	31.80	40.75	32.23	15.33	22.08	29.17	42.94	52.	
Professional specialty occupations Engineers, architects, and surveyors	28.49 29.82	15.74 19.23	20.34 23.28	26.21 28.41	34.07 35.09	42.96 42.00	33.50	17.07	23.40	30.59	43.95	53.	
Engineers, N.E.C.	32.07	20.44	25.28	30.58	38.49	44.21	_	_	_	_	_	_	
Mathematical and computer scientists Computer systems analysts and	33.41	19.50	25.00	31.26	39.66	46.83	_	_	_	_	_	-	
scientists	33.14	19.80	25.00	32.07	39.42	46.11	-	_	_	-	-	-	
Natural scientists	30.00	_											
Health related occupations	27.27	18.20	21.43	25.64	31.04	36.33	23.27 21.51	10.38	12.43	20.45	28.41	34.	
Physicians Registered nurses	26.70	19.55	22.31	26.15	30.77	35.00	24.41	16.89	18.64	25.52	28.57	30.	
Teachers, college and university Teachers, post secondary N.E.C.		-	-	-	-	-	46.05 41.67	22.96	33.46	48.03	52.33	58.	
Teachers, except college and university	_	_	_	_	_	_	37.75	23.16	28.13	37.66	47.39	55.	
Elementary school teachers	-	_	_	_	_	_	39.52	_	-	-	_	-	
Secondary school teachers		_	_	_	_	_	42.81	_	-	-	-	-	
Teachers, special education	_	_	_	_	_	_	38.02	_	_	_	_	-	
Teachers, N.E.CLibrarians, archivists, and curators	_	_	_	_	_	_	35.74	_	_	_	_	_	
Librarians	22.44	_	_	_	_	_	_	_	_	_	_	_	
Social scientists and urban planners		_	_	_	_	_	_	_	_	_	_	-	
Social, recreation, and religious workers	18.56	12.34	13.74	18.71	22.28	24.72	-	_	_	-	-	-	
Social workers Lawyers and judges	19.12 –	_	_	-	_ _	_ _	21.51	_ _	_ _	_ _	_ _	_	
Writers, authors, entertainers, athletes, and professionals, N.E.C.	_	_	_	_	_	_	_	_	_	_	_	_	
Technical occupations	20.08	12.80	14.96	18.15	22.12	27.75	-	_	_	_	_	-	
Clinical laboratory technologists and technicians	17.65	10.17	14.40	17.82	21.58	23.80	-	_	_	_	-	-	
Radiological technicians Licensed practical nurses	21.57 16.22	_	_	_	_	_	_	_	_	_	_	-	
Health technologists and technicians, N.E.C	14.73	10.45	11.97	14.00	16.69	19.33	_	_	_	_	_	l _	
Electrical and electronic technicians	20.26	-	-	-	-	-	_	_	_	_	_	_	
Engineering technicians, N.E.C	19.13	_	_	-	_	_	_	_	_	-	_	-	
Computer programmers Technical and related occupations,	22.40	-	_	-	_	_	_	-	_	_	_	-	
N.E.C Executive, administrative, and managerial	23.19	_	-	_	-	-	-	-	-	-	-	-	
occupations Executives, administrators, and managers	33.56 37.54	16.96 20.00	21.45 24.73	29.04 32.70	40.11 45.02	54.87 60.48	_ _	_ _	_ _	_ _	_	<u>-</u>	
Administrators, education and related fields	_	_	_	-	_	_	47.01	_	_	_	_	_	
Managers and administrators, N.E.C	35.10	20.51	24.27	31.87	42.36	53.41		_	_	-	_	-	
Management related occupations	24.97	15.80	17.55	22.60	28.19	36.78	_	_	_	-	-	-	
Accountants and auditors	26.00	16.54	18.27	23.08	30.22	38.46	_	_	_	_	_	-	
N.E.C	22.77 15.12	15.93 5.55	18.27 7.00	20.69 11.25	26.05 17.50	30.77 27.83	_	_	_	_	_	-	
Supervisors, sales occupations	19.74	-	-	-	-	-	_	_	_	_	_	-	
services	21.29	_	_	_	_	_	_	_	_	_	_	-	
Cashiers	8.43	5.20	5.75	7.65	10.45	13.15	-	-	-	-	-	-	
Sales support occupations, N.E.C Administrative support occupations, including	11.68	_	_	_	_	_	_	_	_	_	_	-	
clericalSupervisors, general office	13.91 19.23	8.50 -	10.28 -	13.33	16.50 -	19.62 -	14.44 –	9.67 -	11.89 -	14.13 –	17.14 –	19. –	
Secretaries	15.73	11.16	12.98	15.00	18.27	20.81	16.00	_	_	_	_	-	
Typists	13.80	_	_	-	-	_	-	_	_	-	-	-	

Table A-2. Hourly earnings¹ for selected occupations, all workers ², private and government industries, New York-Northern New Jersey-Long Island, NY-NJ-CT-PA, February, 1997 — Continued

			Private	industry				State	and loca	al govern	ment	
Occupation ³			F	ercentile	s				F	ercentile	s	
	Mean	10	25	Median 50	75	90	Mean	10	25	Median 50	75	90
White-collar occupations (-Continued) Administrative support occupations, including clerical (-Continued) Receptionists	13.70 13.72 11.52	\$7.25 - 9.00 -	\$9.25 - 10.38 -	\$11.39 - 13.62 -	\$12.75 - 16.26 -	\$13.95 - 18.13 -	- - - -	- - -	- - - -	- - -	- - - -	- - - -
insurance		-		40.50	40.05	40.00	-	_	_	_	_	-
General office clerks	13.10 10.92	8.00 8.00	9.50 8.88	12.50 10.00	16.95 12.25	18.26 15.50	_	_	_	_	_	_
N.E.C.	14.20	8.87	11.15	13.32	16.30	20.16	_	-	_	_	_	_
Blue-collar occupations Precision production, craft, and repair	13.50	6.11	8.67	12.94	17.25	21.85	\$18.09	\$11.58	\$14.70	\$19.02	\$20.87	\$23.75
occupations	19.26	10.89	14.89	19.23	22.50	27.00	20.95	15.11	18.06	20.87	23.75	26.36
Industrial machinery repairers		-	_	_	_	-	-	-	-	-	_	-
Mechanics and repairers, N.E.C.	18.71	_	_	_	_	_	-	_	_	_	_	-
Electricians Supervisors, production occupations	25.78 21.41	_	_	_	_	_	_	_	_	_	_	_
Machine operators, assemblers, and inspectors Production inspectors, checkers and examiners	10.49	5.50	6.85	9.66	12.80	16.90	_	_	_	_	_	_
Transportation and material moving occupations Handlers, equipment cleaners, helpers, and	15.06	10.00	12.90	15.07	17.25	19.83	17.01	_	_	_	_	_
laborers Freight, stock, and material handlers,	10.34	5.50	6.90	9.13	13.00	16.88	15.47	-	_	-	_	_
N.E.C	10.75	6.76	8.64	9.58	12.83	16.23	-	-	_	_	-	-
Service occupations	-	5.50 -	6.80 -	7.78 -	11.67 –	14.71 –	18.04 22.13	9.78 14.19	12.19 18.03	16.94 21.22	22.57 25.03	26.99 29.96
Police and detectives, public service		-		-		-	22.65	_	-	-	_	-
Food service occupationsFood preparation occupations, N.E.C	7.91	4.21	5.00	6.70	10.00	13.89	10.42	_	_	_	_	-
Health service occupations	1	6.80	6.80	7.50	11.59	13.20	9.65	10.54	11.72	13.32	15.06	16.03
Health aides, except nursing	11.07	7.10	8.80	11.24	13.04	14.89	13.31	10.54	'/2	- 13.32	-	10.03
Nursing aides, orderlies and attendants	8.75	6.80	6.80	7.00	11.01	12.87	13.18	_	_	_	_	_
Cleaning and building service occupations Maids and housemen	10.92	7.00	- 8.10	- 11.33	- 14.71	- 14.73	14.52	9.86	11.18	13.14	16.62	20.51
Janitors and cleaners Personal service occupations Child care workers, N.E.C.	9.61	6.00 -	- 6.80 -	7.68 -	10.24 -	15.00 -	13.72 10.85 –	9.64 - -	11.14 - -	12.50 - -	16.37 – –	19.15 – –

¹ Earnings are the straight-time hourly wages or salaries paid to employees. They include incentive pay, cost-of-living adjustments, hazard pay, and on-call pay. Excluded are premium pay for overtime, vacations, holidays, nonproduction bonuses, and tips. The mean is computed by totaling the pay of all workers and dividing by the number of workers, weighted by hours. The 10th, 25th, 50th, 75th and 90th percentiles designate position in the earnings distribution. At the 50th percentile, the median, half of the workers receive the same as or more than the rate shown, and half receive the same as or less than the rate shown. At the 25th percentile, one-fourth of the workers earn the same as or less than the rate shown. At the 75th percentile, one-fourth earn the same as or more than the rate shown. The 10th and 90th percentiles follow the same logic.

² All workers include full-time and part-time workers. Employees are classified as

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

NOTE: Dashes indicate that no data were reported or that data did not meet publication criteria. Overall occupational groups and occupational levels may include data for categories not shown separately. N.E.C. means "not elsewhere classified." IN THIS PILOT TEST, THE NONRESPONSE RATE FOR ALL INDUSTRIES AND PRIVATE INDUSTRY EXCEEDED REGULAR SURVEY STANDARDS FOR PUBLICATION. ACCORDINGLY, USERS SHOULD INTERPRET THESE RESULTS WITH THIS LIMITATION IN MIND.

All workers include full-time and part-time workers. Employees are classified as working either a full-time or a part-time schedule based on the definition used by each establishment. Therefore, a worker with a 35-hour-per-week schedule might be

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, New York-Northern New Jersey-Long Island, NY-NJ-CT-PA, February, 1997

						All ind	ustries					
			Full-	time					Part	-time		
Occupation ³			F	ercentile	:S	,			F	Percentile	s	
	Mean	10	25	Median 50	75	90	Mean	10	25	Median 50	75	90
All occupations	\$20.15 20.27	\$8.00 8.08	\$11.77 11.89	\$16.83 16.91	\$24.53 24.72	\$35.93 36.06	\$11.25 11.90	\$5.05 5.05	\$6.25 6.50	\$8.78 9.15	\$12.50 13.01	\$19.50 20.72
White-collar occupations White-collar occupations excluding sales	23.86 24.37	10.50 11.06	14.03 14.48	19.61 20.28	29.53 30.25	42.55 43.25	14.21 –	5.50 -	7.00 -	10.00	17.00 –	26.85
Professional specialty and technical									40.00			
occupations Professional specialty occupations	28.52 30.41	14.98 16.42	19.23 21.63	25.65 27.87	34.94 37.55	46.37 47.63	26.39 29.20	11.33 13.00	16.00 17.86	21.63 24.83	29.62 34.00	50.00
Engineers, architects, and surveyors	28.51	19.50	22.56	26.41	34.36	40.38	-	-	-	-	-	-
Mathematical and computer scientists	32.59	19.23	24.94	31.05	39.42	45.93	-	-	_	-	_	-
Computer systems analysts and scientists	33.07	19.65	25.00	32.00	39.42	46.08	_	-	-	_	_	_
Natural scientists Health related occupations	29.76 26.18	- 16.00	20.08	24.75	- 30.56	- 35.52	29.33	- 18.63	- 21.63	- 26.44	34.00	46.15
Physicians	-	-	-	-	-	-	51.61	_ 40.75	-	-	-	-
Registered nurses Teachers, college and university	26.55 41.72	18.93 23.17	22.37 28.57	26.26 42.73	30.64 50.99	34.67 59.91	25.27	18.75	20.83	25.00	28.33	34.0
Teachers, except college and university	35.57	17.89	25.65	34.98	45.60	55.20	_	-	_	_	_	_
Elementary school teachers	37.93	23.12	28.13	36.79	47.35	55.95	-	-	-	_	-	-
Secondary school teachers Teachers, special education	41.58 35.85	_	_	_	_	_	_	_	_	_	_	-
Teachers, N.E.C.	35.05	_	_	_	_	_	_	_	_	_	_	_
Librarians, archivists, and curators	-	_	_	_	_	_	_	-	_	_	_	-
Social scientists and urban planners						l . -	-	-	-	-	-	-
Social, recreation, and religious workers	20.30	13.33	16.00	19.28	23.71	26.55	_	-	-	_	_	_
Social workersLawyers and judges	20.82	14.29	16.69	20.15	23.75	26.97	_	_	_	_	_	_
Writers, authors, entertainers, athletes, and	_	_	_	_	_	_	_	_	_	_	_	-
professionals, N.E.C Technical occupations	- 19.97	- 12.87	- 15.00	- 17.82	22.12	27.34	- 16.31	- 10.27	- 13.43	- 16.20	- 19.25	21.9
Clinical laboratory technologists and												
technicians Radiological technicians	18.02 22.26	11.07	14.40	17.79	21.68	24.42	_	_	_	_	_	_
Licensed practical nurses	15.85	_	_	_	_	_	16.99	_	_	_	_	_
Health technologists and technicians, N.E.C	15.66	11.51	13.29	15.16	17.04	21.68	_	_	_	_	_	_
Electrical and electronic technicians	20.26		_	_		-	_	-	-	_	_	-
Engineering technicians, N.E.C.	19.15	_	-	-	-	_	-	-	_	-	_	-
Computer programmers	21.96	_	_	_	-	_	-	-	_	_	_	-
Technical and related occupations, N.E.C.	23.62	_	_	_	_	_	_	-	-	_	_	-
Executive, administrative, and managerial occupations	32.53	16.83	21.15	27.74	38.46	52.15	_	_	_	_	_	_
Executives, administrators, and managers	37.40	20.28	25.00	32.90	45.22		_	-	_	_	_	_
Managers and administrators, N.E.C	35.17	20.84	24.91	32.07	42.26	53.00	-	-	-	-	-	-
Management related occupations	23.95	15.23	17.47	21.88	27.08	35.50	_	-	_	-	_	-
Accountants and auditors Management related occupations,	25.73	16.59	18.39	22.14	30.05	36.06	_	-	-	_	_	-
N.E.CSales occupations	23.46 17.85	16.26 6.75	18.78 9.57	23.08 14.17	26.30 19.75	31.25 31.25	7.83	- 5.05	5.50	6.50	8.50	11.00
Supervisors, sales occupations	20.24	- 0.73	- 3.57	-	- 13.73	- 31.23	- 7.03	-	-	- 0.30	- 0.50	'-'
Sales occupations, other business												
services	21.77	_	-	-	-	-	-	-	-	-	_	-
Sales workers, apparel Sales workers, other commodities	_	_	_	_	_	_	6.96 7.05	_	_			_
Cashiers	11.49	_	_	_	_	_	6.84	5.00	5.40	6.25	7.73	9.60
Sales support occupations, N.E.C	12.15	_	_	-	_	_	-	-	-	-	-	-
Administrative support occupations, including	44.55		44.55	40.00	40.00	46.75						
clerical	14.33 18.93	8.88	11.06	13.82	16.86 21.87	19.70 25.92	_	_		_	-	-
Supervisors, general office Secretaries	15.93	12.20 11.54	15.85 13.22	18.13 15.50	18.31	25.92	13.35	_	_	_	_	_
Receptionists	11.38	8.65	9.86	11.56	12.96	13.95		_	_	_	_	-
Records clerks, N.E.C.	13.69		_	-	-	_	_	-	-	-	-	-

Table A-3. Hourly earnings¹ for selected occupations, full-time and part-time workers², New York-Northern New Jersey-Long Island, NY-NJ-CT-PA, February, 1997 — Continued

						All ind	ustries					
			Full-	time					Part	-time		
Occupation ³			F	Percentile	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)												
Bookkeepers, accounting and auditing clerks	\$14.20	\$9.23	\$11.03	\$14.12	\$16.69	\$19.07		_			_	
Billing clerks		\$9.23	\$11.03	\$14.12	\$10.09	\$19.07	_	_	_	_	_	-
Stock and inventory clerks	13.22	_	_	_	_	_	_	_	_	_	_	l _
Investigators and adjusters except	10.22											
insurance	14.15	_	_	_	_	_	_	_	_	_	_	_
General office clerks	13.50	8.57	10.54	13.00	16.95	18.26	_	_	_	_	_	-
Data entry keyers	11.35	_	_	_	-	_	_	_	_	_	_	-
Administrative support occupations,												
N.E.C	14.48	10.00	11.78	13.89	16.28	19.44	_	_	-	_	-	-
Blue-collar occupations	14.43	6.50	9.40	14.19	18.75	22.41	-	-	-	_	-	_
occupations	19.57	11.70	15.76	19.67	22.95	26.64	_	_	_	-	_	-
Industrial machinery repairers	17.79	_	-	-	-	_	-	-	_	-	_	-
Mechanics and repairers, N.E.C.	18.82	_	-	_	-	_	_	_	_	-	-	-
Supervisors, production occupations	21.41	- 	7.00	0.75	12.00	16.00	_	_	_	_	_	-
Machine operators, assemblers, and inspectors	10.61	5.50	7.00	9.75	13.02	16.98	_	_	_	_	_	_
Miscellaneous machine operators, N.E.C	12.27	6.25	8.20	11.70	16.45	17.93	_				_	
Production inspectors, checkers and	12.21	0.23	0.20	11.70	10.43	17.93	_	_	_	_	_	-
examiners	10.96	_	_	_	_	_	_	_	_	_	_	l _
Transportation and material moving occupations	16.00	10.81	13.71	16.52	17.98	20.23	_	_	_	_	_	_
Truck drivers	16.07	13.13	14.24	16.33	17.42	19.83	_	_	_	_	_	_
Handlers, equipment cleaners, helpers, and												
laborers	11.48	5.55	7.45	10.57	15.62	19.02	\$8.59	\$5.35	\$6.25	\$8.50	\$9.50	\$12.5
Groundskeepers and gardeners except												
farm	12.23	_	-	_	-	_		_	_	-	_	-
Stock handlers and baggers	-	_	_	_	-	_	6.64	_	_	-	_	-
Freight, stock, and material handlers,	44.07						0.50					
N.E.C	11.37	_	_	_	-	-	9.56	_	_	_	_	-
Service occupations	13.30	6.80	7.50	11.77	16.21	23.13	7.54	4.75	5.50	7.00	9.16	11.5
Protective service occupations	19.44	7.63	14.19	21.02	24.03	28.27	9.71	-	-	-	-	-
Police and detectives, public service	22.65	_		_	_	_	_	_	_	_	_	-
Guards and police except public service	-	_	_	_	-	_	8.82	_	_	_	_	-
Food service occupations	9.77	5.00	6.80	8.90	12.17	15.58	5.97	3.67	4.75	5.25	6.70	9.4
Cooks	11.10	_	-	_	-	_	_	_	_	-	_	-
Kitchen workers, food preparation		_	_	_	-	_	6.93	_	_	-	_	-
Food preparation occupations, N.E.C	8.77	- 6 90	- 6.90	9.03	10.04	12.05	- 0.05	- 6.50	- 6.94	7 07	- 10.18	12.0
Health service occupations Health aides, except nursing	9.83	6.80 8.32	6.80		12.31	13.95	8.65 -	6.50	6.94	7.87 –	10.18	12.0
Nursing aides, orderlies and attendants	11.93	6.80	10.06	11.93 7.74	13.49 11.91	15.28 13.66	- 8.57	6.56	6.96	7.75	9.31	11.7
Cleaning and building service occupations	12.42	7.45	9.25	11.78	15.09	17.17	7.55	-	-	-	-	'-'
Maids and housemen	10.83	-	-	-	-	-	-	_	_	_	_	_
Janitors and cleaners	12.28	7.53	9.63	11.52	15.09	17.00	7.41	_	_	_	_	-
Personal service occupations	10.80	6.56	7.25	9.14	12.47	18.21	8.22	5.64	6.50	8.32	9.40	10.1
Early childhood teachers' assistants	10.54	-	-	-	-	-	_	_	_	-	_	-
Child care workers, N.E.C	8.17	_	-	_	-	_	_	_	_	-	-	-

¹ Earnings are the straight-time hourly wages or salaries paid to employees. They include incentive pay, cost-of-living adjustments, hazard pay, and on-call 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 less than the rate shown. The 10th and 90th percentiles follow the same logic.

or more than the rate shown. The 10th and 90th percentiles follow the same logic.

² All workers include full-time and part-time workers. Employees are classified as working either a full-time or a part-time schedule based on the definition used by each establishment.

Therefore, a worker with a 35-hour-per-week schedule might be

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

NOTE: Dashes indicate that no data were reported or that data did not meet publication criteria. Overall occupational groups and occupational levels may include data for categories not shown separately. N.E.C. means "not elsewhere classified." IN THIS PILOT TEST, THE NONRESPONSE RATE FOR ALL INDUSTRIES AND PRIVATE INDUSTRY EXCEEDED REGULAR SURVEY STANDARDS FOR PUBLICATION. ACCORDINGLY, USERS SHOULD INTERPRET THESE RESULTS WITH THIS LIMITATION IN MIND.

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-4. Weekly and annual earnings¹ and hours for selected white-collar occupations, full-time workers only², New York-Northern New Jersey-Long Island, NY-NJ-CT-PA, February, 1997

			All ind	ustries		
Occupation ³	Mean	Weekly	earnings	Mean	Annual e	earnings
	weekly hours ⁴	Mean	Median	annual hours	Mean	Median
White-collar occupations	38.2	\$911	\$757	1,926	\$45,959	\$38,78
White-collar occupations excluding sales	38.0	927	776	1,916	46,693	39,68
Professional specialty and technical occupations	37.4	1,068	976	1,806	51,511	48,00
Professional specialty occupations	37.3 39.4	1,135 1.124	1,053	1,773	53,924	50,44
Engineers, architects, and surveyors Civil engineers	39.4 -	1,124	1,050	2,051	58,472 52,929	54,60 –
Mathematical and computer scientists	39.0	1,010	1,212	2,029	66,120	63,00
Computer systems analysts and scientists	39.2	1,297	1,248	2,040	67,449	64,91
Natural scientists	39.5	1,175		2,054	61,123	_
Chemists, except biochemists	39.7	1,211	_	2,066	62,957	_
Health related occupations	38.9	1,019	970	2,012	52,667	50,30
Physicians	45.1	1,240	849	2,345	64,459	44,17
Registered nurses	37.8	1,003	990	1,952	51,820	51,35
Teachers, college and university	36.3	1,516	1,510	1,529	63,781	59,40
Teachers, except college and university	34.1	1,213	1,178	1,380	49,097	48,44
Elementary school teachers	35.4	1,342	1,334	1,401	53,131	53,32
Secondary school teachers	34.7	1,442	_	1,384	57,529	-
Teachers, special education	33.7	1,208	_	1,344	48,203	_
Teachers, N.E.C.	32.8	1,148	_	1,323	46,372	-
Librarians, archivists, and curators	_	_	_	_	_	-
Social scientists and urban planners	-	_		-	-	-
Social, recreation, and religious workers	37.0	751	723	1,903	38,627	37,37
Lawyers and judges	-	_	_	_	_	_
Writers, authors, entertainers, athletes, and						
professionals, N.E.C	- 37.9	- 758	685	1,970	39,337	35,50
Clinical laboratory technologists and technicians	38.1	686	687	1,970	35,653	35,50
Radiological technicians	30.1	834		1,373	43,381	- 35,73
Licensed practical nurses	37.7	597	_	1,959	31,054	_
Health technologists and technicians, N.E.C.	38.3	601	588	1,990	31,156	30,83
Electrical and electronic technicians	_	825	_	_	42,913	_
Engineering technicians, N.E.C.	_	756	_	_	39,317	_
Computer programmers	38.9	854	_	2,021	44,382	_
Technical and related occupations, N.E.C	_	899	_		46,153	_
Executive, administrative, and managerial occupations	38.9	1,266	1,096	2,013	65,484	57,09
Executives, administrators, and managers	39.4	1,472	1,308	2,031	75,951	67,99
Managers and administrators, N.E.C	39.9	1,403	1,284	2,074	72,937	66,78
Management related occupations	38.2	914	842	1,984	47,520	43,78
Accountants and auditors	38.4	988	866	1,997	51,387	45,00
Personnel, training, and labor relations						
specialists	39.1	808	_	2,029	41,958	-
Management related occupations, N.E.C	38.0	891	866	1,975	46,336	45,03
Sales occupations	39.5	705	551	2,055	36,684	28,66
Supervisors, sales occupations	40.3	815	_	2,093	42,365	-
Sales occupations, other business services	-	851	_	_	44,259	_
Sales representatives, mining, manufacturing,		014			40.000	
and wholesale	39.3	814 452	_	2,045	42,322 23,505	_
CashiersSales support occupations, N.E.C.	38.5	468	_	2,045	24,323	_
Administrative support occupations, including clerical	38.0	545	520	1,963	28,139	26,89
Supervisors, general office	37.9	717	680	1,959	37,078	34,65
Secretaries	37.7	600	589	1,939	30,757	29,99
Receptionists	38.4	438	449	1,999	22,757	23,34
Records clerks, N.E.C.	-	524	-		26,901	
Bookkeepers, accounting and auditing clerks	38.1	541	525	1,983	28,155	27,30
Billing clerks	-	445			23,136	
	39.1	517	I	2,035	26,901	

Table A-4. Weekly and annual earnings1 and hours for selected white-collar occupations, full-time workers only2, New York-Northern New Jersey-Long Island, NY-NJ-CT-PA, February, 1997 — Continued

			All ind	ustries		
Occupation ³	Mean	Weekly	earnings	Mean	Annual e	earnings
	weekly hours ⁴	Mean	Median	annual hours	Mean	Median
40 5						
Vhite-collar occupations (-Continued) Administrative support occupations, including clerical (-Continued)						
Investigators and adjusters except insurance	39.3	\$556	_	2,043	\$28,913	
General office clerks	37.7	509	\$477	1,954	26,383	\$24,78
Data entry keyers Administrative support occupations, N.E.C	39.0 37.3	443 540	493	2,030 1.934	23,030 27.991	25.64

¹ Earnings are the straight-time hourly wages or salaries paid to employees. They include incentive pay, cost-of-living adjustments, hazard pay, and on-call 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 more, and one-half

NOTE: Dashes indicate that no data were reported or that data did not meet publication criteria. Overall occupational groups and occupational levels may include data for categories not shown separately. N.E.C. means "not elsewhere classified." IN THIS PILOT TEST, THE NONRESPONSE RATE FOR ALL INDUSTRIES AND PRIVATE INDUSTRY EXCEEDED REGULAR SURVEY STAN-DARDS FOR PUBLICATION. ACCORDINGLY, USERS SHOULD INTERPRET THESE RESULTS WITH THIS LIMITATION IN MIND.

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

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

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

4 Mean weekly hours are the hours an employee is scheduled to work in a

week, exclusive of overtime.

Table B-1. Mean hourly earnings 1 by occupational group and level 2 , New York-Northern New Jersey-Long Island, NY-NJ-CT-PA, February, 1997

		All workers '	1	All ind	ustries
Occupational group ³ and level	All indus- tries	Private industry	State and local government	Full-time workers	Part-tim workers
Il occupations	\$19.23	\$18.22	\$22.93	\$20.15	\$11.25
All occupations excluding sales	19.50	18.47	22.96	20.27	11.90
White-collar occupations	22.10	22.20	26.00	23.86	14.21
Level 1	23.10 7.34	22.28 7.54	26.09	8.67	14.21 6.69
Level 2	9.27	9.02	_	10.20	6.39
Level 3	10.37	10.06	_	10.80	8.68
Level 4	12.47	12.45	12.57	12.93	9.14
Level 5	14.82	14.83	14.77	14.83	14.64
Level 6	15.95	16.15	15.08	16.07	14.22
Level 7	19.58	19.11	_	19.63	18.46
Level 8	23.88	22.12	_	23.60	27.82
Level 9	29.01	25.51	33.86	29.04	_
Level 10	28.27	29.02	26.18	28.15	_
Level 12	30.92	31.06	30.33	30.84	_
Level 12 Level 13	39.56	39.45	40.24 47.25	39.49	_
Level 14	49.13 57.37	49.44 57.90	47.25	49.07 57.51	_
Not able to be leveled	26.68	30.60	21.72	26.91	_
White-collar occupations excluding sales	23.97	23.29	26.17	24.37	_
Level 1	_	8.49	_	9.45	_
Level 2	10.32	10.09	_	10.53	8.11
Level 3	10.97	10.71	_	11.24	9.44
Level 4	12.86	12.90	_	13.11	10.07
Level 5	14.73	14.71	14.77	14.72	14.95
Level 6	16.00	16.23	15.08	16.12	14.22
Level 7	19.77	19.26	_	19.84	
Level 8	24.14	22.08	_	23.85	28.68
Level 9	29.04	25.52	33.86 26.18	29.07	_
Level 10 Level 11	28.26 30.82	29.07 30.95		28.12 30.73	_
Level 12	38.38	38.07	30.33	38.29	_
Level 13	49.13	49.44	47.25	49.07	_
Level 14	57.37	57.90	_	57.51	_
Not able to be leveled	-	_	21.72	-	_
Professional specialty and technical occupations	28.39	26.52	32.23	28.52	26.39
Professional specialty occupations	30.34	28.49	33.50	30.41	29.20
Level 5	14.36		_	14.20	-
Level 7	_	19.99	_	_	-
Level 8	20.05	23.43	24.75	20.02	31.06
Level 9 Level 10	30.85 27.19	25.41 27.34	34.75 26.92	30.93 26.73	_
Level 11	29.49	29.74	28.23	29.26	_
Level 12	36.92	36.39	40.43	36.54	_
Level 13	46.52	45.91	_	46.11	_
Level 14	52.78	51.72	_	53.02	_
Not able to be leveled	30.50	_	_	31.10	_
Engineers, architects, and surveyors	28.50	29.82	_	28.51	_
Level 9	24.35	27.03	_	24.35	-
Level 11	28.44	28.44	_	28.44	_
Level 12	34.22	22.41	_	33.92	_
Mathematical and computer scientists Level 9	33.35	33.41	_	32.59 27.64	-
Level 11	30.77	30.81	<u>-</u>	30.70	-
Level 12	37.42	37.42	_	37.42	-
Natural scientists	29.76	30.00	_	29.76	-
Health related occupations	26.56	27.27	23.27	26.18	29.33
Level 8	25.73	25.82	_	25.74	-
Level 9	24.21	24.81	21.72	24.27	23.77
Level 10		27.95	_		-
Level 11	28.79	29.32	_	27.82	-
Level 13	55.50	57.41	40.05		_
Teachers, college and university	43.01	_	46.05	41.72	_
Level 12	38.25	_	27.75	37.14	-
Teachers, except college and university	34.85	_	37.75	35.57	

Table B-1. Mean hourly earnings 1 by occupational group and level 2 , New York-Northern New Jersey-Long Island, NY-NJ-CT-PA, February, 1997 — Continued

		All workers '	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)					
Teachers, except college and university					
(-Continued)	A			***	
Level 9	\$38.78	_	\$39.56	\$38.86	_
Librarians, archivists, and curators	_	_	_	_	_
Social scientists and urban planners Social, religious, and recreation workers	20.03	- \$18.56	_	20.30	_
Level 9	19.71	21.36	_	20.30	
Lawyers and judges	-	21.50	_	_	_
Writers, authors, entertainers, athletes, and					
professionals, N.E.C.	_	_	_	_	_
Level 11	29.59	_	_	29.59	_
Technical occupations	19.69	20.08	_	19.97	\$16.31
Level 4	13.99	14.06	_	14.42	-
Level 5	15.54	15.49	_	15.52	_
Level 6	16.13	16.70	_	16.09	_
Level 8	20.55	20.48	_	20.62	_
Level 9	23.28	23.09	_	23.32	_
Executive, administrative, and managerial occupations	32.48	33.56	_	32.53	_
Level 5	15.96	15.36	_	15.96	_
Level 6	14.53	15.60	_	_	_
Level 8	20.94	21.27	_	20.94	-
Level 9	26.12	26.06	_	26.15	-
Level 10	27.96	29.01	_	27.96	-
Level 11	32.08	32.19	_	32.08	-
Level 12	39.28	39.13	_	39.32	-
Level 13	51.45	51.86	_	51.65	-
Level 14	59.36		_	59.36	-
Executives, administrators, and managers	37.33	37.54	_	37.40	-
Level 9	28.29	27.81	_	28.28	_
Level 10	29.94	-	_	29.94	_
Level 11 Level 12	33.41 39.66	33.43 39.51	_	33.41 39.71	_
Level 12	49.82	50.21	_	50.00	_
Management related occupations	23.93	24.97	_	23.95	
Level 5	16.20	15.63	_	16.20	_
Level 6	14.09	15.10	_	14.09	_
Level 7	17.66	17.87	_	17.66	_
Level 8	20.12	20.19	_	20.09	_
Level 9	22.92	23.13	_	22.95	_
Level 10	25.60	26.55	_	25.60	_
Level 11	28.77	29.29	_	28.77	-
Level 12	37.08	37.26	_	37.08	-
Not able to be leveled	25.99	_	-	26.23	-
Sales occupations	15.12	15.12	_	17.85	7.83
Level 1	6.73	6.73	_	-	6.59
Level 2	6.62	6.62	_		5.79
Level 3	8.62	8.34	_	9.09	7.80
Level 4	10.59	10.59	_	11.79	7.97
Level 5	15.63	15.63	_	15.82	-
Level 6	15.45	15.45	_	15.45	-
Level 7 Level 8	15.72	16.03	_	15.72	_
Administrative support occupations, including clerical	22.32 14.01	22.32 13.91	14.44	22.14 14.33	I
Level 1	14.01	8.49	14.44	9.45	_
Level 2	10.32	10.09	_	10.53	8.11
Level 3	10.32	10.66		11.20	9.45
Level 4	12.81	12.85	_	13.06	10.05
Level 5	14.60	14.55	14.71	14.60	-
Level 6	16.13	16.13	-	16.21	_
Level 7	18.81	18.70	_	18.69	_
			l _	21.31	l _
Level 8	21.31	21.72			
	21.31 25.08	21.72 –	_	25.08	_

Table B-1. Mean hourly earnings 1 by occupational group and level 2 , New York-Northern New Jersey-Long Island, NY-NJ-CT-PA, February, 1997 — 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-time workers
Blue-collar occupations	\$14.05	\$13.50	\$18.09	\$14.43	_
Level 1	8.20	7.86	_	8.46	_
Level 2	8.65	8.45	_	8.71	-
Level 3	11.86	11.58	47.00	11.89	\$11.54
Level 5	13.47	- 15.70	17.22	13.54	_
Level 6	15.78 15.68	15.70	_	15.80 16.11	_
Level 7	20.45	20.31	20.91	20.45	
Level 8	22.20	21.60	20.91	22.20	
Level 9	25.22	24.85	_	25.22	_
Precision production, craft, and repair occupations	19.57	19.26	20.95	19.57	_
Level 5	16.40	16.32	_	16.44	_
Level 6	15.38	14.61	_	15.38	_
Level 7	20.94	20.90	_	20.94	_
Level 8	22.14	21.37	_	22.14	_
Level 9	25.40	24.99	_	25.40	_
Machine operators, assemblers, and inspectors	10.53	10.49	_	10.61	_
Level 1	7.33	7.27	_	7.58	_
Level 2	7.84	7.84	_	7.84	_
Level 3	9.77	9.77	_	9.79	_
Level 5	13.44	13.42	_	13.44	_
Level 6	14.15	14.15	_	14.15	_
Transportation and material moving occupations	15.40	15.06	17.01	16.00	_
Level 5	16.99	17.09	_	17.02	-
Handlers, equipment cleaners, helpers, and laborers	10.94	10.34	15.47	11.48	8.59
Level 1	8.54	_	_	_	_
Level 2	9.26	_	_	-	8.82
Level 5	15.98	_	_	16.03	_
Service occupations	12.17	9.18	18.04	13.30	7.54
Level 1	9.22	_	12.14	10.68	6.76
Level 2	7.53	7.22	9.42	7.89	_
Level 3	9.41	8.59	12.38	9.76	8.05
Level 4	10.57	10.02	12.80	10.73	9.34
Level 5	13.57	12.84	14.80	13.77	-
Level 6	17.78	-	-	18.01	_
Level 7	20.36	14.25	21.26	20.44	_
Level 8	20.50 26.31	_	_	20.54 26.31	_
Level 9 Protective service occupations	18.62	_	22.13	19.44	9.71
Level 3	9.00	8.45	22.13	15.44	9.64
Level 5	15.12	- 0.40	_	15.12	
Level 7	22.25	_	22.66	22.25	_
Food service occupations	8.18	7.91	10.42	9.77	5.97
Level 1	7.22	7.02	_	_	5.61
Level 2	_	5.87	_	_	_
Level 3	7.70	7.52	_	8.61	_
Level 4	9.73	9.63	_	9.92	_
Health service occupations	9.69	9.06	13.31	9.83	8.65
Level 2	7.53	7.52	-	7.51	_
Level 3	8.85	8.60	-	8.95	8.10
Level 4	10.39	10.03	_	10.52	-
Level 5	12.69	12.20		12.71	-
Cleaning and building service occupations	11.42	_	14.52	12.42	7.55
Level 1	- 0.40	-	_	-	7.37
Level 2	9.48	9.34	12.42	10.04	_
Level 3	12.42	_	13.43	12.83	_

Table B-1. Mean hourly earnings¹ by occupational group and level², New York-Northern New Jersey-Long Island, NY-NJ-CT-PA, February, 1997 — 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
Service occupations (-Continued) Personal service occupations	\$10.00 6.80 8.11 10.22	\$9.61 6.80 - -	\$10.85 - - -	\$10.80 - - -	\$8.22 - - -

¹ Earnings are the straight-time hourly wages or salaries paid to employees. They include incentive pay, cost-of-living adjustments, hazard pay, and on-call pay. Excluded are premium pay for overtime, vacations, holidays, nonproduction bonuses, and tips. The mean is computed by totaling the pay of all workers and dividing by the number of workers, weighted by hours.
2 Each occupation for which wage data are collected in an establishment is evaluated based on 10 factors, including knowledge,

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

NOTE: Dashes indicate that no data were reported or that data did not meet publication criteria. Overall occupational groups and occupational levels may include data for categories not shown separately. N.E.C. means "not elsewhere classified." IN THIS PILOT TEST, THE NONRESPONSE RATE FOR ALL INDUSTRIES AND PRIVATE INDUSTRY EXCEEDED REGULAR SURVEY STANDARDS FOR PUBLICATION. ACCORDINGLY, USERS SHOULD INTERPRET THESE RESULTS WITH THIS LIMITATION IN MIND.

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

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

Table B-2. Mean hourly earnings¹ for selected occupations and levels², New York-Northern New Jersey-Long Island, NY-NJ-CT-PA, February, 1997

		All workers ⁴	All industries		
Occupation ³ and level	All indus- tries	Private industry	State and local government	Full-time workers	Part-tim workers
Vhite-collar occupations:					
Professional specialty and technical occupations:					
Professional specialty occupations:					
Engineers, N.E.C.	\$30.75	\$32.07	_	_	_
Computer systems analysts and scientists	33.08	33.14	_	\$33.07	_
Level 9	28.14	28.14	_	28.14	_
Level 11	30.42	30.46	_	30.42	_
Level 12	37.47	37.47	_	37.47	_
Physicians	-	_	\$21.51	-	\$51.6
Level 13	55.33	57.41	_	-	_
Registered nurses	26.39	26.70	24.41	26.55	25.2
Level 7	26.93	_	_	_	_
Level 8	26.30	26.36	_	26.47	25.5
Level 9	25.13	25.60	_	25.27	24.1
Level 11	28.63	28.17	_	28.44	-
Teachers, post secondary N.E.C.	42.32	-	41.67	-	_
Elementary school teachers	37.38	_	39.52	37.93	_
Level 9	39.51	_	39.84	39.54	_
Secondary school teachers	41.45	_	42.81	41.58	_
Teachers, special education	35.84	_	38.02	35.85	_
Level 9	37.39	_	05.74	37.42	_
Teachers, N.E.CLibrarians	33.91	22.44	35.74	35.05	_
Social workers	- 20.57	19.12	21.51	20.82	_
Level 9	19.63	21.17	21.31	20.62	_
Technical occupations:	19.03	21.17	_	_	_
Clinical laboratory technologists and technicians	17.95	17.65	_	18.02	_
Radiological technicians	21.57	21.57	_	22.26	
Licensed practical nurses	16.09	16.22	_	15.85	16.9
Level 5	15.79	-	_	15.63	_
Level 6	16.15	_	_	_	_
Health technologists and technicians, N.E.C	15.46	14.73	_	15.66	_
Electrical and electronic technicians	20.26	20.26	_	20.26	_
Level 8	20.69	20.69	_	20.69	_
Engineering technicians, N.E.C.	19.13	19.13	_	19.15	_
Computer programmers	21.96	22.40	_	21.96	_
Technical and related occupations, N.E.C	23.25	23.19	_	23.62	_
Executive, administrative, and managerial occupations:					
Administrators, education and related fields Managers, medicine and health	_	_	47.01	_	_
Level 9	28.44	_	_	28.27	_
Level 12	35.81	_	-	_	-
Managers and administrators, N.E.C	35.16	35.10	_	35.17	_
Level 9	27.31	27.30	-	27.31	-
Level 11	31.28	31.28	-	31.28	_
Level 12	38.56	39.28	_	38.56	_
Level 14	56.54	57.58	_	56.54	_
Accountants and auditors	25.67	26.00	_	25.73	_
Level 7	18.32	18.30	-	18.32	_
Level 9	21.52	21.56	-	21.55	_
Level 11	28.48	28.45	_	28.48	_
Management related occupations, N.E.C	23.39	22.77	-	23.46	_
Level 8 Level 9	21.10 23.22	24.00	1 -	21.10 23.22	_
Sales occupations:	23.22	24.00	-	23.22	_
Supervisors, sales occupations	19.74	19.74	_	20.24	_
Level 8	19.74	19.74	I _	18.62	_ _
Sales occupations, other business services	21.29	21.29	_	21.77	_
	-		_		6.9
		_	_	_	7.0
Sales workers, apparel	_		1		
Sales workers, apparelSales workers, other commodities		9.39	_	9.90	_
Sales workers, apparel	9.39 8.69	9.39 8.43	_	11.49	6.8
Sales workers, apparel Sales workers, other commodities Level 4	9.39		_ _ _		
Sales workers, apparel	9.39 8.69	8.43	- - -	11.49	6.84 7.70

Table B-2. Mean hourly earnings¹ for selected occupations and levels², New York-Northern New Jersey-Long Island, NY-NJ-CT-PA, February, 1997 — Continued

		All workers ⁴	All industries		
Occupation ³ and level	All indus- tries	Private industry	State and local government	Full-time workers	Part-tim workers
White-collar occupations: (-Continued)					
Administrative support occupations, including clerical:					
Supervisors, general office	\$18.93	\$19.23	_	\$18.93	_
Supervisors, financial records processing	20.47	_	_	_	_
Secretaries	15.77	15.73	\$16.00	15.92	\$13.3
Level 4	13.63	13.43	_	13.80	-
Level 5	14.88	14.33	_	15.01	_
Level 6 Level 7	16.44	16.48	_	16.69	_
Typists	19.44 –	19.70 13.80	_	19.43	_
Level 3	13.31	-		_	_
Receptionists	11.03	11.05	_	11.38	_
Level 3	11.42	11.42	_	11.54	_
Level 4	10.82	10.84	_	10.97	_
Library clerks	12.16	_	_		_
Records clerks, N.E.C.	13.60	13.70	_	13.69	_
Bookkeepers, accounting and auditing clerks	14.02	13.72	_	14.20	_
Level 3	10.36	10.36	_	10.40	_
Level 4	11.74	11.74	_	12.04	-
Level 5	14.05	13.28	_	14.12	-
Level 6	15.94	16.01	_	15.94	-
Level 7	17.73	17.71	_	17.73	-
Billing clerks	11.52	11.52	_	11.55	-
Level 4	11.85	11.85	_	_	_
Traffic, shipping and receiving clerks	40.55	40.55		40.55	
Level 3	10.55	10.55	_	10.55	_
Stock and inventory clerks	_ 13.22	12.00	_	13.22	_
Investigators and adjusters except insurance General office clerks	12.96	13.08 13.10	_	14.15 13.50	_
Level 3	10.81	11.19		11.22	9.2
Level 5	14.08	- 11.13	_	14.10	
Data entry keyers	11.19	10.92	_	11.35	_
Level 2	_	10.59	_	_	_
Level 3	9.87	9.87	_	9.77	_
Administrative support occupations, N.E.C	14.04	14.20	_	14.48	_
Level 4	12.56	12.53	_	12.71	-
Level 5	12.88	13.94	-	12.88	-
Blue-collar occupations:					
Precision production, craft, and repair occupations:					
Industrial machinery repairers	17.79	17.79	_	17.79	_
Mechanics and repairers, N.E.C.	18.82	18.71	_	18.82	_
Electricians	_	25.78	_	_	_
Supervisors, production occupations	21.41	21.41	_	21.41	_
Machine operators, assemblers, and inspectors:					
Miscellaneous machine operators, N.E.C	_	_	_	12.27	_
Production inspectors, checkers and examiners	10.96	10.96	_	10.96	-
Transportation and material moving occupations:					
Truck drivers			_	16.07	-
Level 5	17.28	17.28	_	17.28	-
Bus drivers	14.97	_	_	_	_
Handlers, equipment cleaners, helpers, and laborers:	14 74			10.00	
Groundskeepers and gardeners except farm Stock handlers and baggers	11.74	_		12.23	6.6
Level 2	- 7.07	7.07			
Freight, stock, and material handlers, N.E.C	10.75	10.75	I _	11.37	9.5
Level 2	9.52	9.52	-	-	-
Service occupations:					
Protective service occupations:					
Police and detectives, public service	22.65	_	22.65	22.65	_
Guards and police except public service	_	_	_		8.8
Level 3	8.61	8.45	_	_	_
Food service occupations:					
Cooks	_	_	_	11.10	-
00010				l _	6.93

Table B-2. Mean hourly earnings¹ for selected occupations and levels², New York-Northern New Jersey-Long Island, NY-NJ-CT-PA, February, 1997 — Continued

		All workers ⁴	All industries		
Occupation ³ and level	All indus- tries	Private industry	State and local government	Full-time workers	Part-time workers
Service occupations: (-Continued)					
Food service occupations: (-Continued)					
Food preparation occupations, N.E.C	_	_	\$9.65	\$8.77	_
Health service occupations:	_	_	ψ9.03	Ψ0.77	_
Health aides, except nursing	\$11.73	\$11.07	_	11.93	_
Level 4		11.50	_		_
Nursing aides, orderlies and attendants		8.75	13.18	9.44	\$8.57
Level 2		7.32	- 10.10	7.29	Ψ0.57
Level 3		8.38	_	8.72	8.18
Level 4		9.90	_	10.16	_
Level 5		_	_	_	l _
Cleaning and building service occupations:	.2.0				
Maids and housemen	10.92	10.92	_	10.83	_
Janitors and cleaners		-	13.72	12.28	7.41
Level 1	_	_	_	_	7.36
Level 2	_	_	_	10.53	
Level 3	12.73	_	13.59	12.92	_
Personal service occupations:					
Early childhood teachers' assistants	_	_	_	10.54	_
Child care workers, N.E.C.	8.50	7.99	_	8.17	_
Level 4		_	_	_	_

¹ Earnings are the straight-time hourly wages or salaries paid to employees. They include incentive pay, cost-of-living adjustments, hazard pay, and on-call 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.

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

NOTE: Dashes indicate that no data were reported or that data did not meet publication criteria. Overall occupational groups and occupational levels may include data for categories not shown separately. N.E.C. means "not elsewhere classified." IN THIS PILOT TEST, THE NONRESPONSE RATE FOR ALL INDUSTRIES AND PRIVATE INDUSTRY EXCEEDED REGULAR SURVEY STANDARDS FOR PUBLICATION. ACCORDINGLY, USERS SHOULD INTERPRET THESE RESULTS WITH THIS LIMITATION IN MIND.

rumber 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.

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.

Table C-1. Mean hourly earnings¹ by occupational group and selected characteristic, all industries, New York-Northern New Jersey-Long Island, NY-NJ-CT-PA, February, 1997

Occupational group ²	Full-time workers ³	Part-time workers ³	Union ⁴	Nonunion ⁴	Time ⁵	Incentive ⁵
All occupations	\$20.15	\$11.25	\$18.60	\$19.69	\$19.22	_
All occupations excluding sales	20.27	11.90	18.81	20.03	19.53	-
White-collar occupations	23.86	14.21	23.26	23.02	23.10	_
White-collar excluding sales	24.37	-	24.06	23.93	23.99	_
Professional specialty and technical occupations	28.52	26.39	30.16	26.94	28.39	_
Professional specialty occupations	30.41	29.20	32.02	28.92	30.34	_
Technical occupations	19.97	16.31	_	18.60	19.69	_
Executive, administrative, and managerial occupations	32.53	_	_	33.87	32.48	_
Sales occupations	17.85	7.83	11.84	15.98	13.63	_
Administrative support including clerical occupations	14.33	-	15.05	13.54	14.01	_
Blue-collar occupations	14.43	_	15.34	12.50	14.09	_
Precision production, craft, and repair occupations	19.57	_	20.49	17.75	19.57	_
Machine operators, assemblers, and inspectors	10.61	_	11.02	9.98	10.64	_
Transportation and material moving occupations	16.00	_	16.55	_	15.35	_
Handlers, equipment cleaners, helpers, and laborers		8.59	12.56	8.98	10.94	_
Service occupations	13.30	7.54	14.11	8.65	12.18	_

¹ Earnings are the straight-time hourly wages or salaries paid to employees. They include incentive pay, cost-of-living adjustments, hazard pay, and on-call 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.
A classification system including about 480 individual occupations is

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

⁵ Time workers' wages are based solely on an bourty rate or coloring

NOTE: Dashes indicate that no data were reported or that data did not meet publication criteria. Overall occupational groups and occupational levels may include data for categories not shown separately. N.E.C. means "not elsewhere classified." IN THIS PILOT TEST, THE NONRESPONSE RATE FOR ALL INDUSTRIES AND PRIVATE INDUSTRY EXCEEDED REGULAR SURVEY STANDARDS FOR PUBLICATION. ACCORDINGLY, USERS SHOULD INTERPRET THESE RESULTS WITH THIS LIMITATION IN

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

³ 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.

⁵ Time workers' wages are based solely on an hourly rate or salary; incentive workers are those whose wages are at least partially based on productivity payments such as piece rates, commissions, and production bonuses.

Table C-2. Mean hourly earnings1 by occupational group, private industry, all workers2, New York-Northern New Jersey-Long Island, NY-NJ-CT-PA, February, 1997

	Goods-producing industries ⁴				S	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	\$18.22 18.47	\$18.24 18.13	- -	\$25.52 25.52	\$17.68 17.56	<u>-</u>	_ _	- -	<u>-</u>	_ _
White-collar occupations	22.28 23.29	24.87 24.80	_ _	26.40 26.40	24.73 24.65	- -	_ _	_ _	_ _	_ _
Professional specialty and technical occupations	26.52 28.49	26.46 29.10	- -	- -	26.46 29.15	- -	- -	- -	-	- -
Technical occupations Executive, administrative, and managerial occupations	20.08 33.56	18.95 34.86	_	- 31.77	18.98 35.34	_	_	_ _	_	_
Sales occupations	15.12	_	-	-	_	-	_	_	-	_
Administrative support, including clerical occupations	13.91	14.09	_	_	14.01	_	_	_	_	_
Blue-collar occupations	13.50	12.75	_	_	11.93	_	_	_	-	_
Precision production, craft, and repair occupations	19.26	18.74	_	27.14	16.59	_	_	-	_	-
Machine operators, assemblers, and inspectors	10.49	10.67	_	_	10.67	_	_	_	_	_
Transportation and material moving occupations Handlers, equipment cleaners, helpers, and laborers	15.06 10.34	9.86	_	_	9.79	_	_	_	_	_
Service occupations	9.18	9.21	_	_	9.21	-	_	_	-	_

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

major occupational groups.

4 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

NOTE: Dashes indicate that no data were reported or that data did not meet publication criteria. Overall occupational groups and occupational levels may include data for categories not shown separately. N.E.C. means "not elsewhere classified." IN THIS PILOT TEST, THE NONRESPONSE RATE FOR ALL INDUSTRIES AND PRIVATE INDUSTRY EXCEEDED REGULAR SURVEY STANDARDS FOR PUBLICATION. ACCORDINGLY, USERS SHOULD INTERPRET THESE RESULTS WITH THIS LIMITATION IN MIND.

mean is computed by totaling the pay of all workers and dividing by the number of workers, 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 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

Table C-3. Mean hourly earnings¹ by occupational group, private industry, by establishment employment size, all workers2, New York-Northern New Jersey-Long Island, NY-NJ-CT-PA, February, 1997

			100 workers or more			
Occupational group ³		50 - 99 workers	Total	100 - 499 workers	500 workers or more	
All occupations		\$15.60 15.74	\$18.83 19.10	\$16.16 16.53	\$21.33 21.29	
White-collar occupations		19.11 20.02	22.94 23.95	19.52 21.03	25.92 26.08	
Professional specialty and technical occupations	28.49 20.08	22.95 24.54 -	27.01 29.06 20.51	24.17 26.31 18.71	28.26 30.18 21.52	
Executive, administrative, and managerial occupations Sales occupations Administrative support, including clerical occupations	15.12	31.77 14.21 12.13	33.92 15.37 14.36	30.18 13.44 13.48	37.11 - 15.24	
Blue-collar occupations Precision production, craft, and repair occupations Machine operators, assemblers, and inspectors Transportation and material moving occupations Handlers, equipment cleaners, helpers, and laborers	19.26 10.49 15.06	12.79 17.90 - - -	13.71 19.81 10.90 15.17 10.47	12.35 18.94 9.71 14.21	15.33 21.00 - - 10.90	
Service occupations	9.18	8.34	9.40	8.90	9.82	

¹ Earnings are the straight-time hourly wages or salaries paid to employees. They include incentive pay, cost-of-living adjustments, hazard pay, and on-call 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 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-burger-week schedule might be considered a

NOTE: Dashes indicate that no data were reported or that data did not meet publication criteria. Overall occupational groups and occupational levels may include data for categories not shown separately. N.E.C. means "not elsewhere classified." IN THIS PILOT TEST, THE NONRESPONSE RATE FOR ALL INDUSTRIES AND PRIVATE INDUSTRY EXCEEDED REGULAR SURVEY STANDARDS FOR PUBLICATION. ACCORDINGLY, USERS SHOULD INTERPRET THESE RESULTS WITH THIS LIMITATION IN MIND.

worker with a 35-hour-per-week schedule might be considered a full-time employee in one establishment, but classified as part-time in another firm, where a 40-hour week is the minimum full-time schedule.

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

Table C-4. Number of workers¹ studied by occupational group, New York-Northern New Jersey-Long Island, NY-NJ-CT-PA, February, 1997

	All workers			
Occupational group ²	All indus- tries	Private industry		
All occupations		3,929,457 3,594,186		
White-collar occupations	3,102,746 2,763,602	2,361,969 2,026,698		
Professional specialty and technical occupations Professional specialty occupations Technical occupations Executive, administrative, and managerial occupations Sales occupations Administrative support including clerical occupations	900,721 181,967 641,894 339,144	684,542 528,808 155,734 510,320 335,271 831,836		
Blue-collar occupations Precision production, craft, and repair occupations Machine operators, assemblers, and inspectors Transportation and material moving occupations Handlers, equipment cleaners, helpers, and laborers	247,576	920,402 194,881 245,015 230,169 250,337		
Service occupations	953,588	647,085		

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

workers in the civilian economy. Individual occupations are classified into one of nine

major occupational groups.

NOTE: Dashes indicate that no data were reported or that data did not meet publication criteria. Overall occupational groups and occupational levels may include data for categories not shown separately. N.E.C. means "not elsewhere classified." IN THIS PILOT TEST, THE NONRESPONSE RATE FOR ALL INDUSTRIES AND PRIVATE INDUSTRY EXCEEDED REGULAR SURVEY STAN-DARDS FOR PUBLICATION. ACCORDINGLY, USERS SHOULD INTERPRET THESE RESULTS WITH THIS LIMITATION IN MIND.

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. While 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, which was based on the type of data to be produced, had to be developed before data collection could begin.

Survey scope

This survey of the New York-Northern New Jersey-Long Island, NY-NJ-CT-PA, Consolidated Metropolitan Statistical Area 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 are 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 New York-Northern New Jersey-Long Island, NY-NJ-CT-PA, Consolidated Metropolitan Statistical Area includes Bronx, Dutchess, Kings, Nassau, New York, Orange, Putnam, Queens, Richmond, Rockland, Suffolk, and Westchester Counties, NY; Bergen, Essex, Hudson, Hunterdon, Mercer, Middlesex, Monmouth, Morris, Ocean, Passaic, Somerset, Sussex, Union, and Warren Counties, NJ; Fairfield County, the towns of Bethlehem, Bridgewater, New Milford, Roxbury, Thomaston, Washington, Watertown, and Woodbury in Litchfield County, the towns of Clinton and Killingworth in Middlesex County, and New Haven County, CT; and Pike County, PA.

Sampling frame

The list of establishments from which the survey sample was selected (sampling frame) was developed from the State unemployment insurance reports for the New York-Northern New Jersey-Long Island, NY-NJ-CT-PA, Consolidated Metropolitan Statistical Area. The reference month for the public sector is June 1994. Due to the volatility of industries within the private sector, sampling frames were developed using the most recent month of reference available at the time the sample was selected. The reference month for the private sector is December 1994. 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 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 Weights were applied to each chance of selection. 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.

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 establishment.

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

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

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

(Early in survey collection, a different schedule may have been used for some establishments.)

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, first 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 MOG's:

- 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

A complete list of all individual occupations, classified by the MOG to which they belong, is contained in appendix B.

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 workers, 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, is an attempt to account for the effect of supervisory duties. It is considered experimental. The 10 factors were:

- Knowledge
- Supervisions 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. 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 nota-bly 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 was collected from November 1996 through June 1997. The average payroll reference month was February 1997. For each establishment in the survey, the data reflect the establishment's practices on the day of collection.

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, and
- On-call pay.

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, and
- Payments made by third parties (e.g., tips, bonuses given by manufacturers to department store salespeople, referral incentives in real estate).

In order to calculate earnings for various time periods (hourly, daily, 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 requirements of the position. (See the description in the technical note and the example for more details on the leveling process.)

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

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

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

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

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

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

Processing and Analyzing the Data

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

Weighting and nonresponse

Sample weights were calculated for each establishment/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 establishment/occupations into the various data series. Of the establishments surveyed, 30.7 percent 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 which were additionally defined by major occupation group and

Establishments which were determined to be out of business or outside the scope of the survey (5.1 percent of the total sample) 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.

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.

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 95-percent level, the confidence interval for this estimate is \$13.71 to \$11.87 (\$12.79 plus and minus 2 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 95 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 group and employment size, and number represented by industry group, New York-Northern New Jersey-Long Island, NY-NJ-CT-PA, February, 1997

			Number o	ts studied				
Industry	Within scope			100 workers or more				
	of survey	Total studied	50 - 99 workers	Total	100 - 499 workers	500 workers or more		
All industries	22.910	650	156	494	245	249		
Private industry	,	561	153	408	226	182		
Goods-producing industries	, -	127	38	89	56	33		
Mining		6	3	3	3	_		
Construction		15	7	8	7	1		
Manufacturing	3,912	106	28	78	46	32		
Service-producing industries	17,213	434	115	319	170	149		
Tranportation and public utilities	1,882	40	12	28	14	14		
Wholesale and retail trade	6,269	105	47	58	50	8		
Finance, insurance and real estate	2,294	46	12	34	15	19		
Services	6,768	243	44	199	91	108		
State and local government	1,204	89	3	86	19	67		

NOTE: Dashes indicate that no data were reported. Overall industry and industry groups may include data for categories not shown separately. Due to insufficient data, weights for the nonresponding occupations in the following Major Occupational Group/Work Level Category could not be fully adjusted: Sales Occupations (MOG C) Level 5. Because of this, worker counts for these categories may be slightly underestimated.

Appendix table 2. Relative standard errors of mean hourly earnings¹ for selected occupations, all workers², New York-Northern New Jersey-Long Island, NY-NJ-CT-PA, February, 1997

(in percent)

Occupation ³	All indus- tries	Private industry	State and local government
All occupations	1.6	1.9	2.2
All occupations excluding sales	1.7	2.0	2.2
White-collar occupations	1.6 1.6	2.0 2.0	2.9 2.9
Professional specialty and technical occupations	1.6	1.9	3.2
Professional specialty occupations	1.6	2.0	3.0
Engineers, architects, and surveyors Engineers, N.E.C.	3.7 5.7	3.8 4.7	_
Mathematical and computer scientists	4.4	4.4	_
Computer systems analysts and scientists	4.6	4.6	_
Natural scientists	5.4	5.6	
Health related occupations	1.9	2.0	4.4
Registered nurses Teachers, college and university	1.6 3.9	1.7	3.9
Teachers, except college and university	3.6	_	3.5
Elementary school teachers	4.2	_	4.2
Secondary school teachers	5.5	_	5.5
Teachers, special education	5.2	_	4.3
Teachers, N.E.C.	5.2	_	_
Librarians, archivists, and curators	_	- 5.6	_
Social scientists and urban planners	_	5.6	_
Social, recreation, and religious workers	4.9	5.0	_
Social workers	5.2	4.8	_
Lawyers and judges	-	_	_
Writers, authors, entertainers, athletes, and			
professionals, N.E.C.	_ 2.5	-	_
Technical occupations Clinical laboratory technologists and technicians	3.5 4.6	3.6 5.1	_
Radiological technicians	3.1	3.1	_
Licensed practical nurses	1.7	2.0	_
Health technologists and technicians, N.E.C	3.0	3.0	_
Electrical and electronic technicians	5.4	5.4	_
Engineering technicians, N.E.C.	5.5 4.7	5.5 4.7	_
Computer programmers Technical and related occupations, N.E.C	4.7	5.1	_
Executive, administrative, and managerial occupations	2.5	2.7	_
Executives, administrators, and managers	3.0	3.3	_
Administrators, education and related fields	_	_	6.0
Managers and administrators, N.E.C.	3.7	3.8	_
Management related occupations	3.8 5.2	4.2 5.5	_
Management related occupations, N.E.C.	3.2	4.0	_
Sales occupations	6.1	6.2	_
Supervisors, sales occupations	9.2	9.2	_
Sales occupations, other business services	11.9	11.9	_
Cashiers	5.4	5.0	_
Sales support occupations, N.E.C.	10.9	10.9	_
Administrative support occupations, including clerical Supervisors, general office	1.5 4.2	1.7 5.0	3.0
Supervisors, financial records processing	5.9		_
Secretaries	1.7	1.9	3.6
Typists		5.6	_
Receptionists	3.1	3.3	_
Library clerks Records clerks, N.E.C	5.1 5.0	- 5.9	_
Bookkeepers, accounting and auditing clerks	5.0 2.8	2.8	_
Billing clerks	4.3	4.3	_
Investigators and adjusters except insurance	2.7	2.6	_
General office clerks	4.8	5.5	_
Data entry keyers	3.9	4.1	_
Administrative support occupations, N.E.C	4.5	5.5	_

Appendix table 2. Relative standard errors of mean hourly earnings1 for selected occupations, all workers², New York-Northern New Jersey-Long Island, NY-NJ-CT-PA, February, 1997 — Continued

(in percent)

Occupation ³	All indus- tries	Private industry	State and local govern-ment
Blue-collar occupations Precision production, craft, and repair occupations Industrial machinery repairers Mechanics and repairers, N.E.C. Electricians Supervisors, production occupations Machine operators, assemblers, and inspectors Production inspectors, checkers and examiners Transportation and material moving occupations Bus drivers Handlers, equipment cleaners, helpers, and laborers Groundskeepers and gardeners except farm Freight, stock, and material handlers, N.E.C.	3.3 5.0 - 5.8 4.3 6.3 2.4 7.2 4.9	2.7 2.8 3.3 6.5 6.8 5.9 4.3 6.3 2.4 - 4.9 - 4.6	4.0 3.9 - - - - - - 7.1 - 4.9
Service occupations Protective service occupations Police and detectives, public service Food service occupations Food preparation occupations, N.E.C. Health service occupations Health aides, except nursing Nursing aides, orderlies and attendants Cleaning and building service occupations Maids and housemen Janitors and cleaners Personal service occupations Child care workers, N.E.C.	5.1 4.9 5.1 - 3.6 3.3 3.9 5.5 6.7 6.8 5.3	2.9 - 5.6 - 3.5 3.6 3.5 - 6.7 - 6.7 4.7	3.5 3.2 4.9 5.6 3.1 2.4 - 2.9 4.0 - 4.2 6.9

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

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

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

N.E.C. means "not elsewhere classified." IN THIS PILOT TEST, THE NONRESPONSE RATE FOR ALL IN-DUSTRIES AND PRIVATE INDUSTRY EXCEEDED REGULAR SURVEY STANDARDS FOR PUBLICATION. ACCORDINGLY, USERS SHOULD INTERPRET THESE RESULTS WITH THIS LIMITATION IN MIND.

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.

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

as partition in initial minimum full-time schedule.

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

Appendix B. Occupational Classifications

NOTE: The 4-digit code before each occupation title is used to classify it into one of three major groups. **White-collar** workers include those classified in Major groups A through D. **Blue-collar** workers include those classified in Major groups E through H. **Service** workers are classified in Major group K.

Major group A:

PROFESSIONAL SPECIALTY AND TECHNICAL OCCUPATIONS

PROFESSIONAL SPECIALTY OCCUPATIONS

ENGINEERS. ARCHITECTS. AND SURVEYORS

A043 Architects

A044 Aerospace Engineers

A045 Metallurgical and Materials Engineers

A046 Mining Engineers

A047 Petroleum Engineers

A048 Chemical Engineers

A049 Nuclear Engineers

A053 Civil Engineers

A054 Agricultural Engineers

A055 Electrical and Electronic Engineers

A056 Industrial Engineers

A057 Mechanical Engineers

A058 Marine Engineers and Naval Architects

A059 Engineers, n.e.c.¹

A063 Surveyors and Mapping Scientists

MATHEMATICAL AND COMPUTER SCIENTISTS

A064 Computer Systems Analysts and Scientists

A065 Operations and Systems Researchers and

Analysts

A066 Actuaries

A067 Statisticians

A068 Mathematical Scientists, n.e.c.

NATURAL SCIENTISTS

A069 Physicists and Astronomers

A073 Chemists, Except Biochemists

A074 Atmospheric and Space Scientists

A075 Geologists and Geodesists

A076 Physical Scientists, n.e.c.

A077 Agricultural and Food Scientists

A078 Biological and Life Scientists
A079 Forestry and Conservation Scientists

A083 Medical Scientists

HEALTH RELATED OCCUPATIONS

A084 Physicians

A085 Dentists

A086 Veterinarians

A087 Optometrists

A088 Podiatrists

A089 Health Diagnosing Practitioners, n.e.c.

A095 Registered Nurses

A096 Pharmacists

A097 Dietitians

A098 Respiratory Therapists

A099 Occupational Therapists

A103 Physical Therapists

A104 Speech Therapists

A105 Therapists, n.e.c.

A106 Physicians' Assistants

TEACHERS, COLLEGE AND UNIVERSITY

A113 Earth, Environmental and Marine Science Teachers

¹ n.e.c. in an occupation title means not elsewhere classified.

A114 Biological Science Teachers	SOCIAL, RECREATION, AND RELIGIOUS
A115 Chemistry Teachers	WORKERS
A116 Physics Teachers	
A117 Natural Science Teachers, n.e.c.	A174 Social Workers
A118 Psychology Teachers	A175 Recreation Workers
A119 Economics Teachers	A176 Clergy
A123 History Teachers	A177 Religious Workers, n.e.c.
A124 Political Science Teachers	
A125 Sociology Teachers	LAWYERS AND JUDGES
A126 Social Science Teachers, n.e.c.	
A127 Engineering Teachers	A178 Lawyers
A128 Mathematical Science Teachers	A179 Judges
A129 Computer Science Teachers	-
A133 Medical Science Teachers	WRITERS, AUTHORS, ENTERTAINERS,
A134 Health Specialties Teachers	ATHLETES AND PROFESSIONALS, N.E.C.
A135 Business, Commerce and Marketing Teachers	
A136 Agriculture and Forestry Teachers	A183 Authors
A137 Art, Drama, and Music Teachers	A184 Technical Writers
A138 Physical Education Teachers	A185 Designers
A139 Education Teachers	A186 Musicians and Composers
A143 English Teachers	A187 Actors and Directors
A144 Foreign Language Teachers	A188 Painters, Sculptors, Craft-Artists, and Artist
A145 Law Teachers	Print-Makers
A146 Social Work Teachers	A189 Photographers
A147 Theology Teachers	A193 Dancers
A148 Trade and Industrial Teachers	A194 Artists, Performers, and Related Workers,
A149 Home Economics Teachers	n.e.c.
A153 Teachers, Post Secondary, n.e.c.	A195 Editors and Reporters
A154 Post Secondary Teachers, Subject not	A197 Public Relations Specialists
specified	A198 Announcers
SP	A199 Athletes
TEACHERS, EXCEPT COLLEGE AND	A999 Professional Occupations, n.e.c.
UNIVERSITY	
OTT VERBITT	TECHNICAL OCCUPATIONS
A155 Prekindergarten and Kindergarten Teachers	
A156 Elementary School Teachers	HEALTH TECHNOLOGISTS AND TECHNICIANS
A157 Secondary School Teachers	TELLETT TECHNOLOGISTS THAT TECHNAL
A158 Teachers, Special Education	A203 Clinical Laboratory Technologists and
A159 Teachers, n.e.c.	Technicians
A160 Substitute Teachers	A204 Dental Hygienists
A163 Vocational and Educational Counselors	A205 Health Record Technologists and Technicians
11105 Vocational and Educational Counselois	A206 Radiologic Technicians
LIBRARIANS, ARCHIVISTS AND CURATORS	A207 Licensed Practical Nurses
EIDIN IN INCITIVISTS AND CONTIONS	A208 Health Technologists and Technicians, n.e.c.
A164 Librarians	11200 Treath Teemologists and Teemhelans, n.e.e.
A165 Archivists and Curators	ENGINEERING AND RELATED TECHNOLOGISTS
ATOS ATCHIVISTS and Curators	AND TECHNICIANS
SOCIAL SCIENTISTS AND URBAN PLANNERS	That Termaenad
SOUR SOLENIES AND ORDAN I LANNERS	A213 Electrical and Electronic Technicians
A166 Economists	A214 Industrial Engineering Technicians
A167 Psychologists	A215 Mechanical Engineering Technicians
A168 Sociologists	A216 Engineering Technicians, n.e.c.
A169 Social Scientists, n.e.c.	A217 Drafters
A109 Social Scientists, n.e.c. A173 Urban Planners	A217 Dratters A218 Surveying and Mapping Technicians
AT 13 UTUALI FIAILIEIS	A210 But veying and mapping reclinicians

SCIENCE TECHNICIANS

- A223 Biological Technicians
- A224 Chemical Technicians
- A225 Science Technicians, n.e.c.

MISCELLANEOUS TECHNICIANS

- A226 Airplane Pilots and Navigators
- A227 Air Traffic Controllers
- A228 Broadcast Equipment Operators
- A229 Computer Programmers
- A233 Tool Programmers, Numerical Control
- A234 Legal Assistants
- A235 Technical and Related Occupations, n.e.c.

Major group B:

EXECUTIVE, ADMINISTRATIVE, AND MANAGERIAL OCCUPATIONS

EXECUTIVES, ADMINISTRATORS, AND MANAGERS

- **B003** Legislators
- B004 Chief Executives and General Administrators, Public Administration
- B005 Administrators and Officials, Public Administration
- **B007** Financial Managers
- B008 Personnel and Labor Relations Managers
- **B009** Purchasing Managers
- B013 Managers; Marketing, Advertising and Public Relations
- B014 Administrators, Education and Related Fields
- B015 Managers, Medicine and Health
- B016 Postmasters and Mail Superintendents
- B017 Managers, Food Serving and Lodging Establishments
- B018 Managers, Properties and Real Estate
- **B019** Funeral Directors
- B021 Managers, Service Organizations, n.e.c.
- B022 Managers and Administrators, n.e.c.

MANAGEMENT RELATED OCCUPATIONS

- B023 Accountants and Auditors
- B024 Underwriters
- **B025** Other Financial Officers
- **B026** Management Analysts
- B027 Personnel, Training, and Labor Relations Specialists

- B028 Purchasing Agents and Buyers, Farm Products
- B029 Buyers, Wholesale and Retail Trade, Except Farm Products
- B033 Purchasing Agents and Buyers, n.e.c.
- **B034** Business and Promotion Agents
- **B035** Construction Inspectors
- B036 Inspectors and Compliance Officers, Except Construction
- B037 Management Related Occupations, n.e.c.

Major group C:

SALES OCCUPATIONS

C243 Supervisors: Sales Occupations

FINANCE AND BUSINESS SERVICES, SALES REPRESENTATIVES

- C253 Insurance Sales Occupations
- C254 Real Estate Sales Occupations
- C255 Securities and Financial Services Sales Occupations
- C256 Advertising and Related Sales Occupations
- C257 Sales Occupations, Other Business Services

SALES REPRESENTATIVES, COMMODITIES EXCEPT RETAIL

- C258 Sales Engineers
- C259 Sales Representatives; Mining, Manufacturing, and Wholesale

RETAIL AND PERSONAL SERVICES SALES WORKERS

- C263 Sales Workers, Motor Vehicles and Boats
- C264 Sales Workers, Apparel
- C265 Sales Workers, Shoes
- C266 Sales Workers, Furniture and Home Furnishings
- C267 Sales Workers, Radio, TV, Hi-Fi, and Appliances
- C268 Sales Workers, Hardware and Building Supplies
- C269 Sales Workers, Parts
- C274 Sales Workers, Other Commodities
- C275 Sales Counter Clerks
- C276 Cashiers
- C277 Street and Door-To-Door Sales Workers
- C278 News Vendors

SALES RELATED OCCUPATIONS

C283 Demonstrators, Promoters, and Models, Sales

C284 Auctioneers

C285 Sales Support Occupations, n.e.c.

Major group D:

ADMINISTRATIVE SUPPORT OCCUPATIONS, INCLUDING CLERICAL

SUPERVISORS, CLERICAL AND ADMINISTRATIVE SUPPORT

D303 Supervisors: General Office

D304 Supervisors: Computer Equipment Operators

D305 Supervisors: Financial Records Processing

D306 Chief Communications Operators

D307 Supervisors: Distribution, Scheduling, and

Adjusting Clerks

COMPUTER EQUIPMENT OPERATORS

D308 Computer Operators

D309 Peripheral Equipment Operators

SECRETARIES, STENOGRAPHERS, AND TYPISTS

D313 Secretaries

D314 Stenographers

D315 Typists

INFORMATION CLERKS

D316 Interviewers

D317 Hotel Clerks

D318 Transportation Ticket and Reservation Agents

D319 Receptionists

D323 Information Clerks, n.e.c.

RECORDS PROCESSING CLERKS, EXCEPT FINANCIAL

D325 Classified-Ad Clerks

D326 Correspondence Clerks

D327 Order Clerks

D328 Personnel Clerks, Except Payroll and Timekeeping

D329 Library Clerks

D335 File Clerks

D336 Records Clerks, n.e.c.

FINANCIAL RECORDS PROCESSING CLERKS

D337 Bookkeepers, Accounting and Auditing Clerks

D338 Payroll and Timekeeping Clerks

D339 Billing Clerks

D343 Cost and Rate Clerks

D344 Billing, Posting, and Calculating Machine Operators

DUPLICATING, MAIL, AND OTHER OFFICE MACHINE OPERATORS

D345 Duplicating Machine Operators

D346 Mail Preparing and Paper Handling Machine Operators

D347 Office Machine Operators, n.e.c.

COMMUNICATIONS EQUIPMENT OPERATORS

D348 Telephone Operators

D353 Communications Equipment Operators, n.e.c.

MAIL AND MESSAGE DISTRIBUTING OCCUPATIONS

D354 Postal Clerks, Except Mail Carriers

D355 Mail Carriers, Postal Service

D356 Mail Clerks, Except Postal Service

D357 Messengers

MATERIAL RECORDING, SCHEDULING, AND DISTRIBUTING CLERKS

D359 Dispatchers

D363 Production Coordinators

D364 Traffic, Shipping, and Receiving Clerks

D365 Stock and Inventory Clerks

D366 Meter Readers

D368 Weighers, Measurers, Checkers, and Samplers

D373 Expeditors

D374 Material Recording, Scheduling, and Distributing Clerks, n.e.c.

ADJUSTERS AND INVESTIGATORS

D375 Insurance Adjusters, Examiners, and Investigators

D376 Investigators and Adjusters, Except Insurance

D377 Eligibility Clerks, Social Welfare

D378 Bill and Account Collectors

MISCELLANEOUS ADMINISTRATIVE SUPPORT OCCUPATIONS

D379 General Office Clerks

D383 Bank Tellers

D384 Proofreaders

D385 Data Entry Keyers

D386 Statistical Clerks

D387 Teachers' Aides

D389 Administrative Support Occupations, n.e.c.

Major group E:

PRECISION PRODUCTION, CRAFT, AND REPAIR OCCUPATIONS

MECHANICS AND REPAIRERS

E503 Supervisors: Mechanics and Repairers

E505 Automobile Mechanics

E506 Automobile Mechanic Apprentices

E507 Bus, Truck, and Stationary Engine Mechanics

E508 Aircraft Engine Mechanics

E509 Small Engine Repairers

E514 Automobile Body and Related Repairers

E515 Aircraft Mechanics, Except Engine

E516 Heavy Equipment Mechanic

E517 Farm Equipment Mechanics

E518 Industrial Machinery Repairers

E519 Machinery Maintenance Occupations

E523 Electronic Repairers, Communications and Industrial Equipment

E525 Data Processing Equipment Repairers

E526 Household Appliance and Power Tool Repairers

E527 Telephone Line Installers and Repairers

E529 Telephone Installers and Repairers

E534 Heating, Air Conditioning, and Refrigeration Mechanics

E535 Camera, Watch, and Musical Instrument Repairers

E536 Locksmiths and Safe Repairers

E538 Office Machine Repairers

E539 Mechanical Controls and Valve Repairers

E543 Elevator Installers and Repairers

E544 Millwrights

E547 Mechanics and Repairers, n.e.c.

SUPERVISORS, CONSTRUCTION TRADES

E553 Supervisors: Brickmasons, Stonemasons, and Tilesetters

E554 Supervisors: Carpenters and Related Workers

E555 Supervisors: Electricians and Power Transmission Installers

E556 Supervisors: Painters, Paperhangers, and Plasterers

E557 Supervisors: Plumbers, Pipefitters, and Steamfitters

E558 Supervisors: Construction Trades, n.e.c.

CONSTRUCTION TRADES OCCUPATIONS

E563 Brickmasons and Stonemasons

E564 Brickmason and Stonemason Apprentices

E565 Tile Setters, Hard and Soft

E566 Carpet Installers

E567 Carpenters

E569 Carpenter Apprentices

E573 Drywall Installers

E575 Electricians

E576 Electrician Apprentices

E577 Electrical Power Installers and Repairers

E579 Painters, Construction and Maintenance

E583 Paperhangers

E584 Plasterers

E585 Plumbers, Pipefitters, and Steamfitters

E587 Plumber, Pipefitter, and Steamfitter Apprentices

E588 Concrete and Terrazzo Finishers

E589 Glaziers

E593 Insulation Workers

E594 Paving, Surfacing, and Tamping Equipment Operators

E595 Roofers

E596 Sheetmetal Duct Installers

E597 Structural Metal Workers

E598 Drillers, Earth

E599 Construction Trades, n.e.c.

EXTRACTIVE OCCUPATIONS

E613 Supervisors: Extractive Occupations

E614 Drillers, Oil Well

E615 Explosives Workers

E616 Mining Machine Operators

E617 Mining Occupations, n.e.c.

PRECISION PRODUCTION OCCUPATIONS

E628 Supervisors: Production Occupations

PRECISION METAL WORKING OCCUPATIONS

E634 Tool and Die Makers

E635 Tool and Die Maker Apprentices

E636 Precision Assemblers, Metal

E637 Machinists

E639 Machinist Apprentices

E643 Boilermakers

E644 Precision Grinders, Filers, and Tool Sharpeners

E645 Patternmakers and Modelmakers, Metal

E646 Layout Workers

E647 Precious Stones and Metals Workers	Major group F:
E649 Engravers, Metal	
E653 Sheet Metal Workers	MACHINE OPERATORS, ASSEMBLERS, AND
E654 Sheet Metal Worker Apprentices	INSPECTORS
PRECISION WOODWORKING OCCUPATIONS	METALWORKING AND PLASTIC WORKING MACHINE OPERATORS
E656 Patternmakers and Modelmakers, Wood	
E657 Cabinet Makers and Bench Carpenters	F703 Lathe and Turning-Machine Set-Up Operators
E658 Furniture and Wood Finishers	F704 Lathe and Turning-Machine Operators
	F705 Milling and Planing Machine Operators
PRECISION TEXTILE, APPAREL, AND	F706 Punching and Stamping Press Operators
FURNISHINGS MACHINE WORKERS	F707 Rolling Machine Operators
	F708 Drilling and Boring Machine Operators
E666 Dressmakers	F709 Grinding, Abrading, Buffing, and Polishing
E667 Tailors	Machine Operators
E668 Upholsterers	F713 Forging Machine Operators
E669 Shoe Repairers	F714 Numerical Control Machine Operators
•	F717 Fabricating Machine Operators, n.e.c.
PRECISION WORKERS, ASSORTED MATERIALS	F719 Molding and Casting Machine Operators
	F723 Metal Plating Machine Operators
E675 Hand Molders and Shapers, Except Jewelers	F724 Heat Treating Equipment Operators
E676 Patternmakers, Layout Workers, and Cutters	
E677 Optical Goods Workers	WOODWORKING MACHINE OPERATORS
E678 Dental Laboratory and Medical Appliance	
Technicians	F726 Wood Lathe, Routing, and Planing Machine
E679 Bookbinders	Operators
E683 Electrical and Electronic Equipment	F727 Sawing Machine Operators
Assemblers	F728 Shaping and Joining Machine Operators
E684 Miscellaneous Precision Workers, n.e.c.	F729 Nailing and Tacking Machine Operators
PRECISION FOOD PRODUCTION OCCUPATIONS	PRINTING MACHINE OPERATORS
E685 Precision Food Production Occupations, n.e.c	. F734 Printing Press Operators
E686 Butchers and Meat Cutters	F735 Photoengravers and Lithographers
E687 Bakers	F736 Typesetters and Compositors
E688 Food Batchmakers	
	TEXTILE, APPAREL, AND FURNISHINGS
PRECISION INSPECTORS, TESTERS, AND RELATED WORKERS	MACHINE OPERATORS
	F738 Winding and Twisting Machine Operators
E689 Inspectors, Testers, and Graders	F739 Knitting, Looping, Taping, and Weaving
E690 Precision Inspectors, Testers, and Related	Machine Operators
Workers, n.e.c.	F743 Textile Cutting Machine Operators
E693 Adjusters and Calibrators	F744 Textile Sewing Machine Operators
	F745 Shoe Machine Operators
PLANT AND SYSTEM OPERATORS	F747 Pressing Machine Operators
	F748 Laundering and Dry Cleaning Machine
E694 Water and Sewage Treatment Plant Operators	S Operators
E695 Power Plant Operators	-
E696 Stationary Engineers	MACHINE OPERATORS, ASSORTED MATERIALS
E699 Miscellaneous Plant and System Operators,	
n.e.c.	F753 Cementing and Gluing Machine Operators

F754 Packaging and Filling Machine Operators G806 Driver-Sales Workers F755 Extruding and Forming Machine Operators G808 Bus Drivers F756 Mixing and Blending Machine Operators G809 Taxicab Drivers and Chauffeurs F757 Separating, Filtering, and Clarifying Machine G813 Parking Lot Attendants Operators G814 Motor Transportation Occupations, n.e.c. F758 Compressing and Compacting Machine RAILROAD TRANSPORTATION OCCUPATIONS Operators F759 Painting and Paint Spraying Machine Operators G823 Railroad Conductors and Yardmasters F763 Roasting and Baking Machine Operators, Food G824 Locomotive Operating Occupations F764 Washing, Cleaning, and Pickling Machine G825 Railroad Brake, Signal, and Switch Operators Operators G826 Rail Vehicle Operators, n.e.c. F765 Folding Machine Operators F766 Furnace, Kiln, and Oven Operators, Except WATER TRANSPORTATION OCCUPATIONS F768 Crushing and Grinding Machine Operators G828 Ship Captains and Mates, Except Fishing F769 Slicing and Cutting Machine Operators Boats F773 Motion Picture Projectionists G829 Sailors and Deckhands F774 Photographic Process Machine Operators G833 Marine Engineers F777 Miscellaneous Machine Operators, n.e.c. G834 Bridge, Lock, and Lighthouse Tenders FABRICATORS, ASSEMBLERS, AND HAND MATERIAL MOVING EQUIPMENT OPERATORS WORKING OCCUPATIONS G843 Supervisors: Material Moving Equipment F783 Welders and Cutters **Operators** F784 Solderers and Braziers **G844** Operating Engineers G845 Longshore Equipment Operators F785 Assemblers G848 Hoist and Winch Operators F786 Hand Cutting and Trimming Occupations G849 Crane and Tower Operators F787 Hand Molding, Casting, and Forming Occupations G853 Excavating and Loading Machine Operators F789 Hand Painting, Coating, and Decorating G855 Grader, Dozer, and Scraper Operators G856 Industrial Truck and Tractor Equipment Occupations **Operators** F793 Hand Engraving and Printing Occupations F795 Miscellaneous Hand Working Occupations, G859 Miscellaneous Material Moving Equipment Operators, n.e.c. n.e.c. PRODUCTION INSPECTORS, TESTERS, SAMPLERS, AND WEIGHERS Major group H: F796 Production Inspectors, Checkers, and HANDLERS, EQUIPMENT CLEANERS, HELPERS, AND LABORERS Examiners F797 Production Testers F798 Production Samplers and Weighers FARM, FISHING AND FORESTRY OCCUPATIONS -F799 Graders and Sorters, Except Agricultural NONFARM SECTOR F800 Hand Inspectors, n.e.c. H483 Marine Life Cultivation Workers H484 Nursery Workers Major group G: H485 Supervisors, Agriculture-Related Workers H486 Groundskeepers and Gardeners, Except Farm H487 Animal Caretakers, Except Farm TRANSPORTATION AND MATERIAL MOVING **OCCUPATIONS** H489 Inspectors, Agricultural Products H494 Supervisors, Forestry and Logging Workers H495 Forestry Workers, Except Logging MOTOR VEHICLE OPERATORS H496 Timber Cutting and Logging Occupations H497 Captains and Other Officers, Fishing Vessels G803 Supervisors: Motor Vehicle Operators

H498 Fishers, Hunters, and Trappers

G804 Truck Drivers

HELPERS, HANDLERS, AND LABORERS

H864 Supervisors: Handlers, Equipment Cleaners, and Laborers, n.e.c.

H865 Helpers, Mechanics and Repairers

H866 Helpers, Construction Trades

H867 Helpers, Surveyor

H868 Helpers, Extractive Occupations

H869 Construction Laborers

H874 Production Helpers

H875 Garbage Collectors

H876 Stevedores

H877 Stock Handlers and Baggers

H878 Machine Feeders and Offbearers

H883 Freight, Stock, and Material Handlers, n.e.c.

H885 Garage and Service Station Related Occupations

H887 Vehicle Washers and Equipment Cleaners

H888 Hand Packers and Packagers

H889 Laborers, Except Construction, n.e.c.

Major group K:

SERVICE OCCUPATIONS, EXCEPT PRIVATE HOUSEHOLD

PROTECTIVE SERVICE OCCUPATIONS

K413 Supervisors: Firefighting and Fire Prevention Occupations

K414 Supervisors: Police and Detectives

K415 Supervisors: Guards

K416 Fire Inspection and Fire Prevention Occupations

K417 Firefighting Occupations

K418 Police and Detectives, Public Service

K423 Sheriffs, Bailiffs, and Other Law Enforcement Officers

K424 Correctional Institution Officers

K425 Crossing Guards

K426 Guards and Police, Except Public Service

K427 Protective Service Occupations, n.e.c.

FOOD SERVICE OCCUPATIONS

K433 Supervisors: Food Preparation and Service Occupations

K434 Bartenders

K435 Waiters and Waitresses

K436 Cooks

K438 Food Counter, Fountain, and Related Occupation

K439 Kitchen Workers, Food Preparation

K443 Waiters'/Waitresses' Assistants

K444 Food Preparation Occupations, n.e.c.

HEALTH SERVICE OCCUPATIONS

K445 Dental Assistants

K446 Health Aides, Except Nursing

K447 Nursing Aides, Orderlies, and Attendants

CLEANING AND BUILDING SERVICE OCCUPATIONS

K448 Supervisors: Cleaning and Building Service Workers

K449 Maids and Housemen

K453 Janitors and Cleaners

K454 Elevator Operators

K455 Pest Control Occupations

PERSONAL SERVICE OCCUPATIONS

K456 Supervisors: Personal Service Occupations

K457 Barbers

K458 Hairdressers and Cosmetologists

K459 Attendants, Amusement and Recreation Facilities

K461 Guides

K462 Ushers

K463 Public Transportation Attendants

K464 Baggage Porters and Bellhops

K465 Welfare Service Aides

K467 Early Childhood Teacher's Assistants

K468 Child Care Workers, n.e.c.

K469 Service Occupations, n.e.c.

Appendix C. Generic Leveling Criteria

Below are the 10 criteria for the generic leveling of occupations. The description of each level within a factor is included. An example of using these criteria for leveling a job follows in appendix D.

Knowledge measures the nature and extent of information or facts which the workers must understand to do acceptable work (e.g., steps, procedures, practices, rules, policies, theories, principles, and concepts) and the nature and extent of the skills needed to apply those knowledge's. To be used as a basis for selecting a level under this factor, a knowledge must be required and applied.

1. Knowledge of simple, routine, or repetitive tasks or operations which typically includes following step-by-step instructions and requires little or no previous training or experience;

OR

Skill to operate simple equipment or equipment which operates repetitively, requiring little or no previous training or experience;

OR

Equivalent knowledge and skill.

2. Knowledge of basic or commonly-used rules, procedures, or operations

which typically requires some previous training or experience;

OR

Basic skill to operate equipment requiring some previous training or

experience, such as keyboard equipment;

OR

Equivalent knowledge and skill.

3. Knowledge of a body of standardized rules, procedures, operations, goods, services, tools, or equipment requiring considerable training and experience to perform the full range of standard clerical assignments and resolve recurring problems;

OR

Skill, acquired through considerable training and experience, to operate and adjust varied equipment for purposes such as performing numerous standardized tests or operations;

OR

Equivalent knowledge and skill.

4. Knowledge of an extensive body of rules, procedures, operations, products or services requiring extended training and experience to perform a wide variety of interrelated or nonstandard procedural assignments and resolve a wide range of problems;

OR

Practical knowledge of standard procedures in a technical field, requiring extended training or experience, to perform such work as: adapting equipment when this requires considering the functioning characteristics of equipment; interpreting results of tests based on previous experience and observations (rather than directly reading instruments or other measures); or extracting information from various sources when this requires considering the applicability of information and the characteristics and quality of the sources;

OR

Comprehensive knowledge of a blue-collar skill, usually acquired through a formal apprenticeship;

OR

Equivalent knowledge and skill;

5. Knowledge (such as would be acquired through a pertinent baccalaureate educational program or its equivalent in experience, training, or independent study) of basic principles, concepts, and methodology of a professional or administrative occupation, and skill in applying this knowledge in carrying out elementary assignments, operations, or procedures;

OR

In addition to the practical knowledge of standard procedures in Level 4, practical knowledge of technical methods to perform assignments such as carrying out limited projects which involve use of specialized, complicated techniques;

OR

Advanced knowledge of a blue-collar skill to solve unusually complex problems;

OR

Equivalent knowledge and skill.

6. Knowledge of the principles, concepts, and methodology of a professional or administrative occupation as described at Level 5 which has been either: (a) supplemented by skill gained through job experience to permit independent performance of recurring assignments, or (b) supplemented by expanded professional or

administrative knowledge gained through relevant graduate study or experience, which has provided skill in carrying out assignments, operations, and procedures in the occupation which are significantly more difficult and complex than those covered by Level 5;

OR

Practical knowledge of a wide range of technical methods, principles, and practices similar to a narrow area of a professional field, and skill in applying this knowledge to such assignments as the design and planning of difficult, but well-precedented projects;

OR

Equivalent knowledge and skill.

7. Knowledge of a wide range of concepts, principles, and practices in a professional or administrative occupation, such as would be gained through extended graduate study or experience, and skill in applying this knowledge to difficult and complex work assignments;

OR

A comprehensive, intensive, practical knowledge of a technical field and skill in applying this knowledge to the development of new methods, approaches, or procedures;

OR

Equivalent knowledge and skill.

8. Mastery of a professional or administrative field to:

Apply experimental theories and new developments to problems not susceptible to treatment by accepted methods OR

Make decisions or recommendations significantly changing, interpreting, or developing important policies or programs;

OR

Equivalent knowledge and skill

9 . Mastery of a professional field to generate and develop new hypotheses and theories;

OR

Equivalent knowledge and skill.

Supervision Received covers the nature and extent of direct or indirect controls exercised by the supervisor, the employee's responsibility and the review of completed work. Controls are exercised by the supervisor in the way assignments are made, instructions are given to the employee, priorities and deadlines are set, and objectives and boundaries are defined. Responsibility of the employee depends upon the extent to which the employee is expected to develop the sequence and timing of various aspects of the work, to modify or recommend modification of instructions, and to participate in establishing priorities and defining objectives. The degree of review of completed work depends upon the nature and extent of the review, e.g., close and detailed review of each phase of the assignment; detailed review of the finished assignment;

spot-check of finished work for accuracy; or review only for adherence to policy.

1. For both one-of-a-kind and repetitive tasks the supervisor makes specific assignments that are accompanied by clear, detailed, and specific instructions.

The employee works as instructed and consults with the supervisor as needed on all matters not specifically covered in the original instructions or guidelines.

For all positions the work is closely controlled. For some positions, the control is through the structured nature of the work itself; for others, it may be controlled by the circumstances in which it is performed. In some situations, the supervisor maintains control through review of the work which may include checking progress or reviewing completed work for accuracy, adequacy, and adherence to instructions and established procedures.

2. The supervisor provides continuing or individual assignments by indicating generally what is to be done, limitations, quality and quantity expected, deadlines, and priority of assignments. The supervisor provides additional, specific instructions for new, difficult, or unusual assignments including suggested work methods or advice on source material available.

The employee uses initiative in carrying out recurring assignments independently without specific instruction, but refers deviations, problems, and unfamiliar situations not covered by instructions to the supervisor for decision or help.

The supervisor assures that finished work and methods used are technically accurate and in compliance with instructions or established procedures. Review of the work increases with more difficult assignments if the employee has not previously performed similar assignments.

3. The supervisor makes assignments by defining objectives, priorities, and deadlines; and assists employee with unusual situations which do not have clear precedents.

The employee plans and carries out the successive steps and handles problems and deviations in the work assignment in accordance with instructions, policies, previous training, or accepted practices in the occupation.

Completed work is usually evaluated for technical soundness, appropriateness, and conformity to policy and requirements. The methods used in arriving at the end results are not usually reviewed in detail.

4. The supervisor sets the overall objectives and resources available. The employee and supervisor, in consultation, develop the deadlines, projects, and work to be done. At this level, the employee, having developed expertise in the line of work, is responsible for planning and carrying out the assignment; resolving most of the conflicts which arise; coordinating the work with others as

necessary; and interpreting policy on own initiative in terms of established objectives. In some assignments, the employee also determines the approach to be taken and the methodology to be used. The employee keeps the supervisor informed of progress, potentially controversial matters, or far-reaching implications.

Completed work is reviewed only from an overall standpoint in terms of feasibility, compatibility with other work, or effectiveness in meeting requirements or expected results.

5. The supervisor provides administrative direction with assignments in terms of broadly defined missions or functions.

The employee has responsibility for planning, designing, and carrying out programs, projects, studies, or other work independently.

Results of the work are considered as technically authoritative and are normally accepted without significant change. If the work should be reviewed, the review concerns such matters as fulfillment of program objectives, effect of advice and influence of the overall program, or the contribution to the advancement of technology. Recommendations for new projects and alteration of objectives are usually evaluated for such considerations as availability of funds and other resources, broad program goals or priorities.

Guidelines covers the nature of guidelines and the judgment needed to apply them. Guides used include, for example: desk manuals, established procedures and policies, traditional practices, and reference materials such as dictionaries, style manuals, engineering handbooks, and the pharmacopoeia.

Individual jobs in different occupations vary in the specificity, applicability and availability of the guidelines for performance of assignments. Consequently, the constraints and judgmental demands placed upon employees also vary. For example, the existence of specific instructions, procedures, and policies may limit the opportunity of the employee to make or recommend decisions or actions. However, in the absence of procedures or under broadly stated objectives, employees in some occupations may use considerable judgment in researching literature and developing new methods.

Guidelines should not be confused with the knowledge's described under Factor 1, Knowledge. Guidelines either provide reference data or impose certain constraints on the use of knowledge's. For example, in the field of medical technology, for a particular diagnosis there may be three or four standardized tests set forth in a technical manual. A medical technologist is expected to know these diagnostic tests. However, in a given laboratory the policy may be to use only one of the tests; or the policy may state specifically under what conditions one or the other of these tests may be used.

- 1. Specific, detailed guidelines covering all important aspects of the assignment are provided to the employee. The employee works in strict adherence to the guidelines; deviations must be authorized by the supervisor.
- **2.** Procedures for doing the work have been established and a number of specific guidelines are available.

The number and similarity of guidelines and work situations requires the employee to use judgment in locating and selecting the most appropriate guidelines, references, and procedures for application, and in making minor deviations to adapt the guidelines in specific cases. At this level, the employee may also determine which of several established alternatives to use. Situations to which the existing guidelines cannot be applied or significant proposed deviations from the guidelines are referred to the supervisor.

3. Guidelines are available, but are not completely applicable to the work or have gaps in specificity.

The employee uses judgment in interpreting and adapting guidelines such as policies, regulations, precedents, and work directions for application to specific cases or problems. The employee analyzes results and recommends changes.

4. Administrative policies and precedents are applicable but are stated in general terms. Guidelines for performing the work are scarce or of limited use.

The employee uses initiative and resourcefulness in deviating from traditional methods or researching trends and patterns to develop new methods, criteria, or proposed new policies.

5. Guidelines are broadly stated and nonspecific, e.g., broad policy statements and basic legislation which require extensive interpretation.

The employee must use judgment and ingenuity in interpreting the intent of the guides that do exist and in developing applications to specific areas of work. Frequently, the employee is recognized as a technical authority in the development and interpretation of guidelines.

Complexity covers the nature, number, variety, and intricacy of tasks, steps, processes, or methods in the work performed; the difficulty in identifying what needs to be done; and the difficulty and originality involved in performing the work.

1. The work consists of tasks that are clear-cut and directly related.

There is little or no choice to be made in deciding what needs to be done.

Actions to be taken or responses to be made are readily discernible. The work is quickly mastered.

2. The work consists of duties that involve related steps, processes, or methods.

The decision regarding what needs to be done involves various choices requiring the employee to recognize the existence of and differences among a few easily recognizable situations.

Actions to be taken or responses to be made differ in such things as the source of information, the kind of transactions or entries, or other differences of a factual nature.

3. The work includes various duties involving different and unrelated processes and methods.

The decision regarding what needs to be done depends upon the analysis of the subject, phase, or issues involved in each assignment, and the chosen course of action may have to be selected from many alternatives.

The work involves conditions and elements that must be identified and analyzed to discern interrelationships.

4. The work typically includes varied duties requiring many different and unrelated processes and methods such as those relating to well-established aspects of an administrative or professional field.

Decisions regarding what needs to be done include the assessment of unusual circumstances, variations in approach, and incomplete or conflicting data.

The work requires making many decisions concerning such things as the interpreting of considerable data, planning of the work, or refining the methods and techniques to be used.

5. The work includes varied duties requiring many different and unrelated processes and methods applied to a broad range of activities or substantial depth of analysis, typically for an administrative or professional field.

Decisions regarding what needs to be done include major areas of uncertainty in approach, methodology, or interpretation and evaluation processes resulting from such elements as continuing changes in program, technological developments, unknown phenomena, or conflicting requirements.

The work requires originating new techniques, establishing criteria, or developing new information.

6. The work consists of broad functions and processes of an administrative or professional field. Assignments are characterized by breadth and intensity of effort and involve several phases being pursued concurrently or sequentially with the support of others within or outside of the organization.

Decisions regarding what needs to be done include largely undefined issues and elements, requiring extensive probing and analysis to determine the nature and scope of the problems. The work requires continuing efforts to establish concepts, theories, or programs, or to resolve unyielding problems.

Scope and Effect covers the relationship between the nature of the work, i.e., the purpose, breadth, and depth of the assignment, and the effect of work products or services both within and outside the organization.

Effect measures such things as whether the work output facilitates the work of others, provides timely services of a personal nature, or impacts on the adequacy of research conclusions. The concept of effect alone does not provide sufficient information to properly understand and evaluate the impact of the position. The scope of the work completes the picture, allowing consistent evaluations. Only the effect of properly performed work is to be considered.

1. The work involves the performance of specific, routine operations that include a few separate tasks or procedures.

The work product or service is required to facilitate the work of others; however, it has little impact beyond the immediate organizational unit or beyond the timely provision of limited services to others.

2. The work involves the execution of specific rules, regulations, or procedures and typically comprises a complete segment of an assignment or project of broader scope.

The work product or service affects the accuracy, reliability, or acceptability of further processes or services.

3. The work involves treating a variety of conventional problems, questions, or situations in conformance with established criteria.

The work product or service affects the design or operation of systems, programs, or equipment; the adequacy of such activities as field investigations, testing operations, or research conclusions; or the social, physical, and economic well-being of persons.

4. The work involves establishing criteria; formulating projects; assessing program effectiveness; or investigating or analyzing variety of unusual conditions, problems, or questions.

The work product or service affects a wide range of establishment activities, major activities of industrial concerns, or the operation of other organizations.

5. The work involves isolating and defining unknown conditions, resolving critical problems, or developing new theories.

The work product or service affects the work of other experts, the development of major aspects of administrative or scientific programs or missions, or the well-being of substantial numbers of people.

6. The work involves planning, developing, and carrying out vital administrative or scientific programs.

The programs are essential to the missions of the overall organization or affect large numbers of people on a long-term or continuing basis.

Personal Contact includes face-to-face contacts and telephone and radio dialogue with persons not in the supervisory chain. (NOTE: Personal contacts with supervisors are covered under Factor 2, Supervision Received.) Levels described under this factor are based on what is required to make the initial contact, the difficulty of communicating with those contacted, and the setting in which the contact takes place (e.g., the degree to which the employee and those contacted recognize their relative roles and authorities).

Above the lowest level, points should be credited under this factor only for contacts which are essential for successful performance of the work and which have a demonstrable impact on the difficulty and responsibility of the work performed.

The relationship of Factors 6 (Personal Contacts) and 7 (Purpose of Contacts) presumes that the same contacts will be evaluated for both factors. Therefore, use the personal contacts which serve as the basis for the level selected for Factor 7 as the basis for selecting a level for Factor 6.

1. The personal contacts are with employees within the immediate organization, office, project, or work unit, and in related or support units;

AND/OR

The contacts are with members of the general public in very highly structured situations (e.g., the purpose of the contact and the question of with whom to deal are relatively clear). Typical of contacts at this level are purchases of admission tickets at a ticket window.

2. The personal contacts are with employees in the same overall organization, but outside the immediate organization. People contacted generally are engaged in different functions, missions, and kinds of work, e.g., representatives from various levels within the overall organizations such as headquarters, district offices, or local offices, plants, stores, or other operating units in the immediate installation.

AND/OR

The contacts are with members of the general public, as individuals or groups, in a moderately structured setting (e.g., the contacts are generally established on a routine basis, usually at the employee's work place; the exact purpose of the contact may be unclear at first to one or more of the parties; and one or more of the parties may be uninformed concerning the role and authority of other participants).

3. The personal contacts are with individuals or groups from outside the employing establishment in a moderately

unstructured setting (e.g., the contacts are not established on a routine basis; the purpose and extent of each contact is different and the role and authority of each party is identified and developed during the course of the contact). Typical of contacts at this level are those with persons in their capacities as attorneys; contractors; or representatives of professional organizations, the news media, or public action groups.

4. The personal contacts are with high-ranking officials from outside the employing establishment at national or international levels in highly unstructured settings (e.g., contacts are characterized by problems such as: the officials may be relatively inaccessible; arrangements may have to be made for accompanying staff members; appointments may have to be made well in advance; each party may be very unclear as to the role and authority of the other; and each contact may be conducted under different ground rules). Typical of contacts at this level are those with presidents of large national or international firms, nationally recognized representatives of the news media, presidents of national unions, members of Congress, leading representatives of foreign governments, State governors, or mayors of large cities.

Purpose of Contacts ranges from factual exchanges of information to situations involving significant or controversial issues and differing viewpoints, goals, or objectives. The personal contacts which serve as the basis for the level selected for this factor must be the same as the contacts which are the basis for the level selected for Factor 6.

- 1. The purpose is to obtain, clarify, or give facts or information regardless of the nature of those facts, i.e., the facts or information may range from easily understood to highly technical.
- **2**. The purpose is to plan, coordinate, or advise on work efforts or to resolve operating problems by influencing or motivating individuals or groups who are working toward mutual goals and who have basically cooperative attitudes.
- **3**. The purpose is to influence, motivate, convince, or question persons or groups. Those contacted may be hesitant or skeptical, so the employee must be skillful in approaching the individual or group in order to obtain the desired response.

OR

The purpose is to interrogate or control persons or groups who may be fearful, uncooperative, or dangerous. Therefore, the employee must be skillful in approaching the individual or group in order to obtain the desired effect, such as, gaining compliance with established policies and regulations by persuasion or negotiation, or gaining information by establishing rapport with a suspicious informant.

4. The purpose is to justify, defend, negotiate, or settle matters involving significant or controversial issues. Work at this level usually involves active participation in conferences, meetings, hearings, or presentations involving problems or issues of considerable consequence or

importance. The persons contacted typically have diverse viewpoints, goals, or objectives requiring the employee to achieve a common understanding of the problem and a satisfactory solution by convincing them, arriving at a compromise, or developing suitable alternatives.

Physical Demands covers the requirements and physical demands placed on the employee by the work assignment. This includes physical characteristics and abilities (e.g., specific agility and dexterity requirements) and the physical exertion involved in the work (e.g., climbing, lifting, pushing, balancing, stooping, kneeling, crouching, crawling, or reaching). To some extent the frequency or intensity of physical exertion must also be considered, e.g., a job requiring prolonged standing involves more physical exertion than a job requiring intermittent standing.

- 1. The work is sedentary. Typically, the employee may sit comfortably to do the work. However, there may be some walking; standing; bending; carrying of light items such as papers, books, small parts; driving an automobile, etc. No special physical demands are required to perform the work.
- 2. The work requires some physical exertion such as long periods of standing; walking over rough, uneven, or rocky surfaces; recurring bending, crouching, stooping, stretching, reaching, or similar activities; recurring lifting of moderately heavy items such as personal computers and record boxes. The work may require specific, but common, physical characteristics and abilities such as above-average agility and dexterity.
- **3**. The work requires considerable and strenuous physical exertion such as frequent climbing of tall ladders, lifting heavy objects over 50 pounds, crouching or crawling in restricted areas and defending oneself or others against physical attack.

Work Environment considers the risks and discomforts in the employee's physical surroundings or the nature of the work assignment and the safety regulations required. Although the use of safety precautions can practically eliminate a certain danger or discomfort, such situations typically place additional demands upon the employee in carrying out safety regulations and techniques.

- 1. The work environment involves everyday risks or discomforts which require normal safety precautions typical of such places as offices, meeting and training rooms, libraries, and residences or commercial vehicles, e.g., use of safe work practices with office equipment, avoidance of trips and falls, observance of fire regulations and traffic signals, etc. The work area is adequately lighted, heated, and ventilated.
- 2. The work involves moderate risks or discomforts which require special safety precautions, e.g., working around moving parts, carts, or machines; with contagious diseases or irritant chemicals; etc. Employees may be required to use protective clothing or gear such as masks, gowns, coats, boots, goggles, gloves, or shields.
- 3. The work environment involves high risks with exposure to potentially dangerous situations or unusual environmental stress which require a range of safety and other precautions, e.g., working at great heights under extreme outdoor weather conditions, subject to possible physical attack or mob conditions, or similar situations where conditions cannot be controlled.

Supervisory Duties describes the level of supervisory responsibility for a position.

- 1. No supervisory responsibility.
- **2.** A nonsupervisory position. Incumbent sets the pace of work for the group and shows other workers in the group how to perform assigned tasks. Commonly performs the same work as the group, in addition to lead duties. Can also be called group leader, team leader, or lead worker.
- **3**. Directs staff through face to face meetings. Organizational structure is not complex and internal and administrative procedures are simple. Performing the same work as subordinates is not the principal duty. Typically, this is the first supervisory level.
- **4.** Directs staff through intermediate supervisors. Internal procedures and administrative controls are formal. Organizational structure is complex and is divided into subordinate groups that may differ from each other as to subject matter and function
- 5. Directs staff through two or more subordinate supervisory levels with several subdivisions at each level. Programs are usually inter-locked on a direct and continuing basis with other organizational segments, requiring constant attention to extensive formal coordination, clearances, and procedural controls.

Appendix D. Evaluating Your Firm's Jobs

To compare data on their firm's jobs with statistics contained in this bulletin, data users need to be able to determine their jobs' work levels. Using the example of a dental hygienist, this appendix will go through the procedure for determining the work level of a particular job.

To determine the work level of a job, it must be evaluated using the generic leveling factors. With the information available, such as a written position description and other knowledge of the job, each factor must be reviewed. Comparing that information to the descriptions of each level within a factor as shown in Appendix C, the level best matching the job should be chosen and recorded. (Note that the number of levels varies by factor.)

Generic leveling: an example

Knowledge

Hygienist must have a dental hygienist license which requires 2 years of schooling and passage of a technical exam. This is a mid-level hygienist job, which means a worker must have at least 3 years of experience. The procedures are essentially the same every day, such as cleaning teeth, checking gums, and taking x-rays.

Level 4.

Supervision received

Most of the tasks are performed without supervision. For more complicated procedures, such as tooth filling, the dental hygienist assists the dentist.

Level 2.

Guidelines

A hygienist knows which procedure to use for different dental problems. Unusual situations are handled after checking with the supervisor.

Level 2.

Complexity

Each procedure performed leads to the next, for example, examining gums, scraping plaque, then cleaning teeth.

Level 2.

Scope and effect

In terms of process, the dentist's work follows the hygienist's. In terms of effect, the hygienist doing a thorough cleaning in preparation for the dentist's work allows the dentist to do a complete exam and properly treat the patient.

Level 2.

Personal contacts

Patients come to the clinic or occasionally the hygienist will travel to perform work or give a talk at a school.

Level 2.

Purpose of contacts

Most of hygienist's interaction is with patients; no planning or coordination work is involved.

Level 1.

Physical demands

The work is sedentary.

Level 1.

Work environment

Hygienist must take precautions not to be exposed to x-rays, punctures, etc.

Level 2.

Supervisory duties

A dental hygienist at this level does not supervise anyone.

Level 1.

Assigning points

Once the correct level has been identified within each factor, the points associated with each level are recorded. Summing the points for all factors gives the total points for the job. Using the factors above and the table at the end of this section showing the points associated with each

level within a factor, a sample worksheet was filled out for the dental hygienist position.

Generic leveling worksheet

Company job title: Dental Hygienist

used to rank Federal civil service white-collar jobs, each identified by a point range. The 1,020 total points for the dental hygienist job puts it in level 5.

Point ranges by work level

Range of Generic Level Points

				Καησρ ατ (πρηρι	ac Level Points		
Factor	Level	Points	Kange of Generic Level Points				
		_	Level	Low	High		
Knowledge	4	550	1	190	254		
			2	255	454		
Supervision	2	125	3	455	654		
received			4	655	854		
G : 1 11		10.5	5	855	1104		
Guidelines	2	125	6	1105	1354		
C 1 1	2	7.5	7	1355	1604		
Complexity	2	75	8	1605	1854		
C 1 - fC 4	2	75	9	1855	2104		
Scope and effect	2	75	10	2105	2354		
Personal contacts	2	25	11	2355	2754		
Personal contacts	2	23	12	2755	3154		
Purpose of contacts	2	20	13	3155	3604		
r urpose of contacts	2	20	14	3605	4054		
Physical demands	1	5	15	4055			
i nysicai ucinanus	1	<i>-</i>		and up			
Work environment	2	20					
	_						
Supervisory duties	1	0	Co	mparing wages			

1020

Determining the work level

Total

5

The following chart takes the point total determined using the worksheet and converts it to an overall work level for the job. There are 15 work levels, based on those

Comparing wages

Once the work level has been identified for a job, wages for that job can be compared to wages for similar jobs at the same work level. BLS publishes hourly wage rates by work level within nine major occupational groups, which are combinations of similar individual occupations. The groups and work levels available vary by area. Employers can also use the data on work levels to compare different jobs in their establishment.

Points associated with each factor level

Factor	1	2	3	4	5	6	7	8	9
Knowledge	50	200	350	550	750	950	1250	1550	1850
Supervision received	25	125	275	450	650	X	X	X	X
Guidelines	25	125	275	450	650	X	X	X	X
Complexity	25	75	150	225	325	450	X	X	X
Scope and effect	25	75	150	225	325	450	X	X	X
Personal contacts	10	25	60	110	X	X	X	X	X
Purpose of contacts	20	50	120	220	X	X	X	X	X
Physical demands	5	20	50	X	X	X	X	X	X
Work environment	5	20	50	X	X	X	X	X	X
Supervisory duties	0	0	0	0	0	X	X	X	X

Note: X indicates that a level is not associated with a given factor. For example, for physical demands, point levels 1, 2, and 3 are the only choices.