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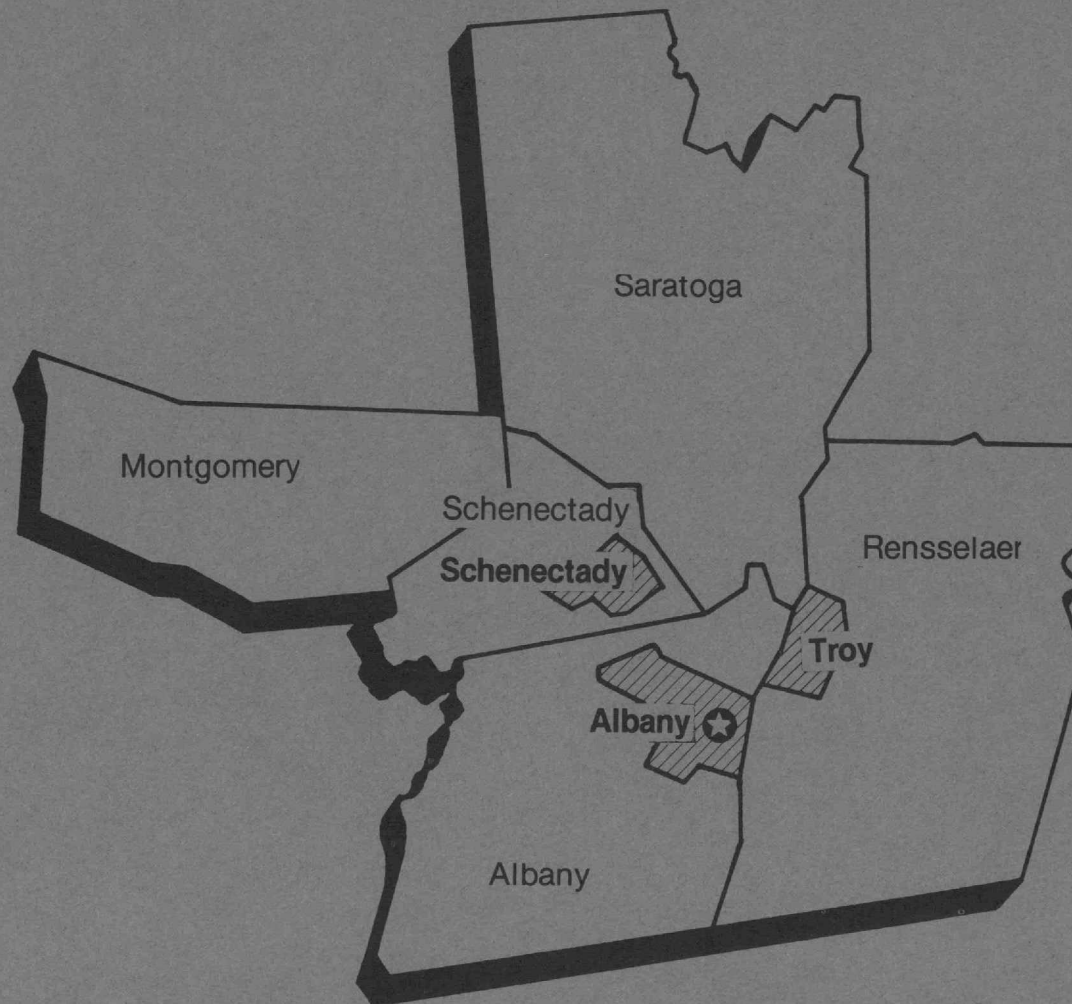
Area Wage Survey

Albany-Schenectady-Troy, New York, Metropolitan Area September 1981



U.S. Department of Labor
Bureau of Labor Statistics

Bulletin 3010-49



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Preface

This bulletin provides results of a September 1981 survey of occupational earnings in the Albany-Schenectady-Troy, N.Y., Standard Metropolitan Statistical Area. The survey was made as part of the Bureau of Labor Statistics' annual area wage survey program. It was conducted by the Bureau's regional office in New York, N.Y., under the general direction of Anthony J. Ferrara, Assistant Regional Commissioner for Operations. The survey could not have been accomplished without the cooperation of the many firms whose wage and salary data provided the basis for the statistical information in this bulletin. The Bureau wishes to express sincere appreciation for the cooperation received.

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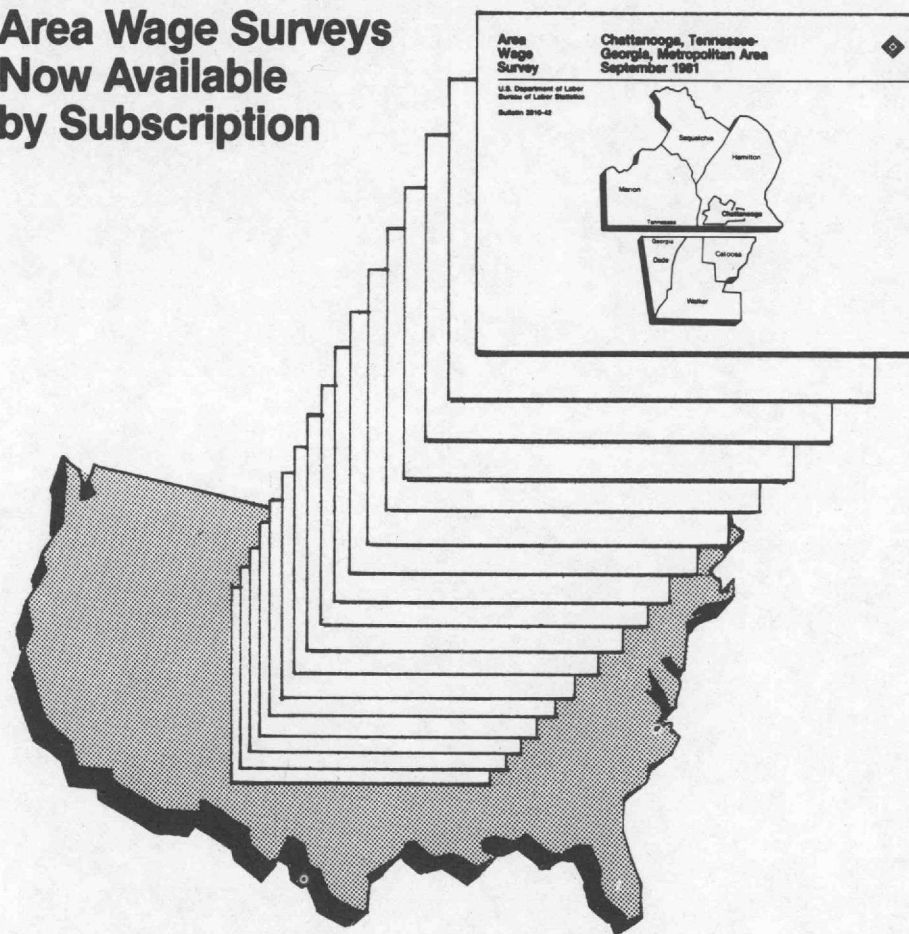
Note:

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Area Wage Survey

Albany-Schenectady-Troy, New York, Metropolitan Area September 1981



U.S. Department of Labor
Raymond J. Donovan, Secretary

Bureau of Labor Statistics
Janet L. Norwood,
Commissioner

November 1981

Bulletin 3010-49

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Introduction

This area is 1 of 71 in which the U.S. Department of Labor's Bureau of Labor Statistics conducts surveys of occupational earnings and related benefits. (See list of areas on inside back cover.) In each area, earnings data for selected occupations (A-series tables) are collected annually. Information on establishment practices and supplementary wage benefits (B-series tables) is obtained every third year. This report has no B-series tables.

Each year after all individual area wage surveys have been completed, two summary reports are issued. The first brings together data for each metropolitan area surveyed; the second presents national and regional estimates, projected from individual metropolitan area data, for all Standard Metropolitan Statistical Areas in the United States, excluding Alaska and Hawaii.

A major consideration in the area wage survey program is the need to describe the level and movement of wages in a variety of labor markets, through the analysis of (1) the level and distribution of wages by occupation, and (2) the movement of wages by occupational category and skill level. The program develops information that may be used for many purposes, including wage and salary administration, collective bargaining, and assistance in determining plant location. Survey results also are used by the U.S. Department of Labor to make wage determinations under the Service Contract Act of 1965.

A-series tables

Tables A-1 through A-6 provide estimates of straight-time weekly or hourly earnings for workers in occupations common to a variety of manufacturing and nonmanufacturing industries. Where possible, occupations with related duties (e.g. accounting clerks and payroll clerks) are clustered to facilitate comparison. The occupations are defined in appendix B. For the 31 largest survey areas, tables A-12 through A-17 provide similar data for establishments

employing 500 workers or more.

Beginning in 1981, multilevel jobs are designated numerically instead of alphabetically. A job conversion list is provided in appendix C.

Table A-7 provides indexes and percent changes in average hourly earnings for office clerical workers, electronic data processing workers, industrial nurses, skilled maintenance trades workers, and unskilled plant workers. Where possible, data are presented for all industries and for manufacturing and nonmanufacturing separately. Data are not presented for skilled maintenance workers in nonmanufacturing because the number of workers employed in this occupational group in nonmanufacturing is too small to warrant separate presentation. This table provides a measure of wage trends after elimination of changes in average earnings caused by employment shifts among establishments as well as turnover of establishments included in survey samples. For further details, see appendix A.

Tables A-8 through A-11 provide measures of pay relationships in establishments. These measures may differ considerably from the pay relationships of overall area averages published in tables A-1 through A-6. See appendix A for details.

Appendixes

Appendix A describes the methods and concepts used in the area wage survey program and provides information on the scope of the survey.

Appendix B provides job descriptions used by Bureau field representatives to classify workers by occupation.

Appendix C is an alphabetic to numeric conversion list for all multilevel jobs in the survey.

Table A-1. Weekly earnings of office workers in Albany-Schenectady-Troy, N.Y., September 1981

Occupation and industry division	Number of workers	Average weekly hours ¹ (standard)	Weekly earnings (in dollars) ¹			Number of workers receiving straight-time weekly earnings (in dollars) of —																											
			Mean ²	Median ²	Middle range ²	120 and under 130	130 — 140	140 — 150	150 — 160	160 — 170	170 — 180	180 — 190	190 — 200	200 — 210	210 — 220	220 — 230	230 — 240	240 — 260	260 — 280	280 — 300	300 — 320	320 — 340	340 — 360	360 — 380	380 — 400	400 and over							
Secretaries.....	1,472	39.5	298.00	319.50	265.00– 334.00	–	–	–	29	19	8	40	13	41	27	49	42	88	91	53	336	449	142	14	12	19							
Manufacturing.....	829	40.0	311.00	319.50	315.50– 334.00	–	–	–	–	3	–	4	6	18	9	32	23	38	34	23	229	304	92	4	3	7							
Nonmanufacturing.....	643	39.0	281.50	309.50	235.00– 326.50	–	–	–	29	16	8	36	7	23	18	17	19	50	57	30	107	145	50	10	9	–							
Transportation and utilities.....	64	37.5	334.50	341.00	287.50– 382.00	–	–	–	–	–	–	–	–	5	–	–	–	–	–	16	6	–	11	5	–	* 12							
Secretaries I.....	121	38.5	238.00	246.00	218.00– 265.00	–	–	–	5	5	–	3	3	8	8	12	10	26	36	4	1	–	–	–	–	–							
Manufacturing.....	52	39.5	236.50	234.00	218.00– 253.00	–	–	–	–	–	–	1	3	5	5	10	8	11	5	4	–	–	–	–	–	–							
Nonmanufacturing.....	69	38.0	238.50	255.50	219.50– 265.00	–	–	–	5	5	–	2	–	3	3	2	2	15	31	–	1	–	–	–	–	–							
Secretaries II.....	192	39.0	232.50	228.00	180.00– 270.00	–	–	–	24	12	–	21	3	21	7	13	18	22	7	12	21	–	6	2	–	3							
Manufacturing.....	66	39.5	239.50	231.50	211.00– 267.50	–	–	–	–	3	–	3	3	8	1	13	10	7	5	9	1	–	1	2	–	–							
Nonmanufacturing.....	126	39.0	229.00	209.50	168.00– 279.00	–	–	–	24	9	–	18	–	13	6	–	8	15	2	3	20	–	5	–	–	3							
Secretaries III.....	622	39.5	304.50	319.50	311.00– 325.50	–	–	–	–	–	8	11	–	11	6	20	11	29	21	24	297	162	17	3	1	1							
Nonmanufacturing.....	268	39.0	296.00	319.50	280.00– 326.50	–	–	–	–	–	8	11	–	7	3	12	6	12	8	19	75	92	12	3	–	–							
Secretaries IV.....	407	39.5	328.50	334.00	334.00– 334.00	–	–	–	–	2	–	4	–	1	5	3	–	4	17	11	14	287	37	2	11	9							
Nonmanufacturing.....	130	39.0	321.00	334.00	304.50– 346.00	–	–	–	–	2	–	4	–	–	5	2	–	1	12	6	10	53	16	2	9	8							
Secretaries V.....	115	39.5	336.00	347.50	347.50– 347.50	–	–	–	–	–	–	–	5	–	–	–	–	5	7	2	2	–	81	7	–	6							
Nonmanufacturing.....	35	39.0	313.00	347.50	250.00– 350.50	–	–	–	–	–	–	–	5	–	–	–	–	5	1	2	–	–	16	5	–	1							
Stenographers.....	368	39.0	268.00	311.00	192.50– 313.50	–	–	–	1	13	8	64	13	17	11	7	6	13	2	2	163	33	5	5	5	–							
Nonmanufacturing.....	249	38.5	252.00	225.50	185.00– 314.00	–	–	–	1	13	6	64	13	13	9	6	6	7	2	2	59	33	5	5	5	–							
Transportation and utilities.....	56	39.5	327.50	335.50	335.50– 340.50	–	–	–	–	–	–	–	–	1	–	–	3	–	4	1	–	–	32	5	5	–							
Stenographers I.....	116	38.5	257.00	220.00	184.50– 335.50	–	–	–	–	5	–	43	1	8	–	3	–	4	2	1	7	32	–	5	5	–							
Nonmanufacturing.....	105	38.5	255.50	208.50	184.50– 335.50	–	–	–	–	5	–	43	1	4	–	3	–	4	2	1	–	32	–	5	5	–							
Transportation and utilities.....	51	39.5	326.50	335.50	335.50– 335.50	–	–	–	–	–	–	–	–	1	–	–	3	–	4	1	–	–	32	–	5	–							
Stenographers II.....	252	39.0	273.00	313.50	210.00– 313.50	–	–	–	1	8	8	21	12	9	11	4	6	9	–	1	156	1	5	–	–	–							
Nonmanufacturing.....	144	38.5	249.50	230.00	191.50– 313.50	–	–	–	1	8	6	21	12	9	9	3	6	3	–	1	59	1	5	–	–	–							
Transcribing-machine typists.....	66	37.5	191.50	186.50	169.00– 202.00	–	–	1	–	18	8	7	15	9	3	2	–	–	–	–	3	–	–	–	–	–							
Nonmanufacturing.....	44	37.0	194.50	182.50	175.50– 204.00	–	–	1	–	8	8	7	5	7	3	2	–	–	–	–	3	–	–	–	–	–							
Typists.....	316	39.0	226.00	202.00	165.50– 309.50	–	1	23	28	44	34	13	13	12	14	11	3	2	4	15	98	1	–	–	–	–							
Manufacturing.....	131	40.0	245.00	242.00	173.50– 309.50	–	–	12	–	18	7	3	8	6	4	7	–	2	–	1	63	–	–	–	–	–							
Nonmanufacturing.....	185	38.5	212.50	179.00	163.00– 283.00	–	1	11	28	26	27	10	5	6	10	4	3	–	4	14	35	1	–	–	–	–							
Typists I.....	180	38.5	179.00	168.00	157.50– 190.50	–	1	23	28	43	27	9	11	7	12	8	–	2	–	9	–	–	–	–	–	–							
Nonmanufacturing.....	121	38.0	179.50	167.00	157.50– 187.00	–	1	11	28	25	20	6	5	5	10	1	–	–	–	9	–	–	–	–	–	–							
Typists II.....	136	40.0	288.00	309.50	296.00– 313.50	–	–	–	–	1	7	4	2	5	2	3	3	–	4	6	98	1	–	–	–	–							
Nonmanufacturing.....	64	39.5	274.50	311.50	228.00– 314.00	–	–	–	–	1	7	4	–	1	–	3	3	–	4	5	35	1	–	–	–	–							
File clerks.....	132	37.5	169.00	154.00	144.00– 188.00	17	6	36	26	9	4	3	7	8	3	1	–	–	5	4	3	–	–	–	–	–							
Nonmanufacturing.....	109	37.0	158.00	145.00	144.00– 158.00	17	6	36	24	7	2	1	2	8	–	1	–	–	5	–	–	–	–	–	–	–							
File clerks I.....	97	37.0	158.50	145.00	140.00– 162.00	17	6	30	16	8	3	3	2	6	1	–	–	–	5	–	–	–	–	–	–	–							
Nonmanufacturing.....	87	37.0	156.50	145.00	139.00– 158.00	17	6	30	14	6	1	1	1	6	–	–	–	–	5	–	–	–	–	–	–	–							
File clerks II.....	29	38.5	184.00	155.50	154.00– 197.50	–	–	6	10	1	1	–	5	2	–	–	–	–	–	4	–	–	–	–	–	–							
Messengers.....	50	39.0	228.00	208.00	150.00– 290.50	–	1	8	10	3	–	–	–	4	–	–	–	–	–	17	–	7	–	–	–	–							
Nonmanufacturing.....	30	38.5	198.00	152.00	150.00– 208.00	–	1	8	9	2	–	–	–	3	–	–	–	–	–	–	7	–	–	–	–	–							

See footnotes at end of tables.

Table A-1. Weekly earnings of office workers in Albany-Schenectady-Troy, N.Y., September 1981 —Continued

Occupation and industry division	Number of workers	Average weekly hours ¹ (standard)	Weekly earnings (in dollars) ¹			Number of workers receiving straight-time weekly earnings (in dollars) of —																							
			Mean ²	Median ²	Middle range ²	120 and under 130	130 — 140	140 — 150	150 — 160	160 — 170	170 — 180	180 — 190	190 — 200	200 — 210	210 — 220	220 — 230	230 — 240	240 — 260	260 — 280	280 — 300	300 — 320	320 — 340	340 — 360	360 — 380	380 — 400	400 and over			
Switchboard operators	63	38.5	198.00	175.00	138.00– 233.00	–	17	5	–	2	9	6	4	1	2	–	4	–	–	–	13	–	–	–	–	–	–	–	
Manufacturing	28	37.0	228.00	189.00	175.00– 313.50	–	–	–	–	1	9	6	–	1	–	–	2	–	–	–	9	–	–	–	–	–	–	–	
Nonmanufacturing	35	39.5	174.00	140.00	138.00– 192.00	–	17	5	–	1	–	–	4	–	2	–	2	–	–	–	4	–	–	–	–	–	–	–	
Switchboard operator-receptionists.....	94	39.5	207.50	197.00	180.00– 235.00	–	–	3	11	3	4	21	6	9	1	1	16	14	–	–	4	–	–	–	–	–	–	1	
Manufacturing	45	40.0	235.50	235.00	203.50– 250.50	–	–	–	1	–	1	1	3	9	–	1	15	9	–	–	4	–	–	–	–	–	1	–	
Nonmanufacturing	49	39.5	181.00	180.00	154.00– 186.50	–	–	3	10	3	3	20	3	–	1	–	1	5	–	–	–	–	–	–	–	–	–	–	
Order clerks	131	40.0	215.50	209.00	170.00– 242.50	–	–	–	8	15	29	2	9	4	17	7	5	7	3	9	6	10	–	–	–	–	–	–	
Manufacturing	59	39.5	231.50	224.50	194.50– 249.00	–	–	–	–	11	2	2	–	4	8	7	5	7	3	–	–	10	–	–	–	–	–	–	
Order clerks I	97	40.0	199.50	170.00	170.00– 227.00	–	–	–	8	15	29	2	–	4	8	7	5	7	3	9	–	–	–	–	–	–	–	–	
Manufacturing	49	39.5	210.00	216.50	175.00– 234.00	–	–	–	–	11	2	2	–	4	8	7	5	7	3	–	–	–	–	–	–	–	–	–	
Accounting clerks.....	764	39.0	225.00	209.50	168.00– 273.50	–	12	25	91	73	27	46	35	78	44	38	52	30	51	27	43	63	6	5	2	16	–		
Manufacturing	311	39.5	245.00	228.00	202.00– 313.50	–	–	–	14	17	9	3	18	60	22	13	37	15	13	2	24	48	6	5	2	3	–		
Nonmanufacturing	453	39.0	211.50	189.00	159.50– 256.50	–	12	25	77	56	18	43	17	18	22	25	15	15	38	25	19	15	–	–	–	13	–		
Transportation and utilities	50	39.0	310.00	285.00	270.00– 384.50	–	–	–	–	3	–	–	–	–	–	–	3	–	–	10	12	3	6	–	–	–	** 13	–	
Accounting clerks II.....	236	39.0	190.50	180.00	158.00– 209.50	–	–	13	60	30	13	18	11	49	7	4	7	3	1	12	2	6	–	–	–	–	–	–	
Manufacturing	99	39.5	200.50	203.00	165.50– 209.50	–	–	–	14	16	–	2	9	40	6	2	1	3	–	–	2	4	–	–	–	–	–		
Nonmanufacturing	137	39.0	183.50	167.50	155.50– 190.00	–	–	13	46	14	13	16	2	9	1	2	6	–	1	12	–	2	–	–	–	–	–	–	
Accounting clerks III.....	291	39.5	236.50	224.50	199.00– 273.50	–	–	–	6	12	11	24	23	26	33	24	39	13	32	5	26	–	3	4	–	10	–		
Manufacturing	133	40.0	243.50	235.00	209.00– 258.00	–	–	–	–	–	6	1	8	19	12	10	35	9	7	2	16	–	3	4	–	1	–		
Nonmanufacturing	158	39.5	230.50	210.00	185.00– 277.00	–	–	–	6	12	5	23	15	7	21	14	4	4	25	3	10	–	–	–	–	–	9	–	
Accounting clerks IV	148	39.0	295.50	316.00	260.50– 326.50	–	–	–	–	6	–	–	1	–	4	10	2	14	17	10	15	57	3	1	2	6	–		
Manufacturing	74	39.5	312.50	326.50	306.50– 326.50	–	–	–	–	–	–	–	1	–	4	1	1	3	6	–	6	44	3	1	2	2	–		
Nonmanufacturing	74	38.5	279.00	270.00	251.50– 316.00	–	–	–	–	6	–	–	–	–	–	–	9	1	11	11	10	9	13	–	–	–	4	–	
Payroll clerks	199	39.5	281.00	314.00	210.00– 334.00	–	–	–	–	6	7	13	6	18	10	4	3	6	14	4	16	83	–	–	3	6	–		
Manufacturing	111	40.0	268.00	276.00	209.50– 334.00	–	–	–	–	6	7	7	–	15	9	1	–	4	7	1	11	40	–	–	3	–	–		
Nonmanufacturing	88	39.5	297.50	334.00	247.00– 334.00	–	–	–	–	–	–	6	6	3	1	3	3	2	7	3	5	43	–	–	–	6	–		
Key entry operators	481	39.0	237.50	213.50	183.00– 309.50	–	–	5	32	40	36	37	29	24	41	30	12	33	9	21	81	20	–	31	–	–	–		
Manufacturing	171	39.5	240.00	213.50	200.00– 309.50	–	–	–	1	8	15	8	10	18	34	5	6	4	3	4	55	–	–	–	–	–	–		
Nonmanufacturing	310	38.5	236.50	222.50	174.50– 297.50	–	–	5	31	32	21	29	19	6	7	25	6	29	6	17	26	20	–	31	–	–	–		
Transportation and utilities	58	39.0	341.50	370.00	337.00– 370.00	–	–	–	–	–	–	–	4	–	–	–	–	2	1	–	20	–	31	–	–	–	–		
Key entry operators I	245	38.5	201.00	185.00	160.00– 213.00	–	–	5	32	38	30	33	26	15	7	12	6	10	3	7	1	20	–	–	–	–	–		
Manufacturing	66	39.0	199.00	193.00	171.00– 203.50	–	–	–	1	8	15	8	10	11	2	2	1	1	2	4	1	–	–	–	–	–	–		
Nonmanufacturing	179	38.0	202.00	184.00	160.00– 225.00	–	–	5	31	30	15	25	16	4	5	10	5	9	1	3	–	20	–	–	–	–	–		
Key entry operators II	228	39.5	275.50	297.50	222.00– 309.50	–	–	–	–	–	4	4	3	9	34	18	6	23	6	14	80	–	–	27	–	–	–		
Manufacturing	105	40.0	265.50	307.00	213.50– 309.50	–	–	–	–	–	–	–	–	7	32	3	5	3	1	–	54	–	–	–	–	–	–		
Nonmanufacturing	123	39.5	284.00	294.50	236.00– 309.50	–	–	–	–	–	4	4	3	2	2	15	1	20	5	14	26	–	–	27	–	–	–		

¹ Workers were distributed as follows: 10 at \$400.00 to \$420.00; and 2 at \$420.00 to \$440.00.

² * Workers were distributed as follows: 10 at \$400.00 to \$420.00; and 3 at \$420.00 to \$440.00.

Also see footnotes at end of tables.

Table A-2. Weekly earnings of professional and technical workers in Albany-Schenectady-Troy, N.Y., September 1981

Occupation and industry division	Number of workers	Average weekly hours ¹ (stand-ard)	Weekly earnings (in dollars) ¹			Number of workers receiving straight-time weekly earnings (in dollars) of —																									
			Mean ²	Median ²	Middle range ²	140 and under 160	160 — 180	180 — 200	200 — 220	220 — 240	240 — 260	260 — 280	280 — 300	300 — 320	320 — 340	340 — 360	360 — 380	380 — 400	400 — 420	420 — 440	440 — 460	460 — 480	480 — 520	520 — 560	560 — 600	600 and over					
Computer systems analysts (business).....	128	39.5	537.50	538.00	480.00— 605.00	-	-	-	-	-	-	3	1	-	-	1	2	5	1	3	7	4	25	17	24	* 35					
Manufacturing.....	90	40.0	552.00	547.00	480.00— 615.00	-	-	-	-	-	-	-	-	-	-	1	1	-	1	3	6	2	19	14	13	30					
Nonmanufacturing.....	38	39.0	502.00	518.00	406.00— 576.00	-	-	-	-	-	-	3	1	-	-	-	1	5	-	-	1	2	6	3	11	5					
Computer systems analysts (business) II.....	48	39.5	501.00	480.00	465.00— 538.00	-	-	-	-	-	-	-	-	-	-	1	2	1	-	1	5	4	19	8	4	3					
Manufacturing.....	34	39.5	492.50	480.00	465.50— 532.00	-	-	-	-	-	-	-	-	-	-	1	1	-	-	1	5	2	15	5	3	1					
Computer systems analysts (business) III.....	71	40.0	583.00	591.50	533.00— 633.50	-	-	-	-	-	-	-	-	-	-	-	-	4	-	-	1	-	5	9	20	32					
Computer programmers (business).....	162	39.0	379.00	405.00	319.50— 441.50	-	-	9	-	13	1	11	4	3	8	4	15	8	21	19	21	9	11	-	1	4					
Manufacturing.....	85	39.5	411.00	418.50	370.00— 441.50	-	-	-	-	-	-	1	4	1	6	3	8	5	15	14	14	5	8	-	1	-					
Nonmanufacturing.....	77	38.5	343.50	365.00	230.00— 433.00	-	-	9	-	13	1	10	-	2	2	1	7	3	6	5	7	4	3	-	-	4					
Computer programmers (business) I.....	39	39.0	244.00	230.00	221.00— 260.00	-	-	9	-	13	1	11	1	1	1	-	1	-	1	-	-	-	-	-	-	-					
Nonmanufacturing.....	35	39.0	234.00	230.00	205.50— 260.00	-	-	9	-	13	1	10	-	1	1	-	-	-	-	-	-	-	-	-	-	-					
Computer programmers (business) II.....	82	39.0	407.00	405.00	369.50— 432.00	-	-	-	-	-	-	-	3	2	7	4	13	5	19	12	6	4	3	-	-	4					
Manufacturing.....	49	39.5	390.00	405.00	346.50— 422.50	-	-	-	-	-	-	-	3	1	6	3	6	2	13	10	4	-	1	-	-	-					
Nonmanufacturing.....	33	38.5	433.00	405.50	369.50— 477.50	-	-	-	-	-	-	-	-	1	1	1	7	3	6	2	2	4	2	-	-	* * 4					
Computer programmers (business) III.....	41	39.5	451.00	441.50	438.00— 462.50	-	-	-	-	-	-	-	-	-	-	-	1	3	1	7	15	5	8	-	1	-					
Manufacturing.....	32	40.0	453.00	451.50	437.00— 479.50	-	-	-	-	-	-	-	-	-	-	-	1	3	1	4	10	5	7	-	1	-					
Computer operators.....	219	39.0	287.50	293.50	235.50— 350.00	5	10	6	20	19	12	30	13	9	35	25	34	1	-	-	-	-	-	-	-	-					
Manufacturing.....	118	39.5	312.50	334.00	263.00— 364.00	-	-	-	2	14	8	13	6	6	34	-	34	1	-	-	-	-	-	-	-	-					
Nonmanufacturing.....	101	38.5	258.50	269.00	200.00— 337.00	5	10	6	18	5	4	17	7	3	1	25	-	-	-	-	-	-	-	-	-	-					
Computer operators I.....	57	38.5	263.00	251.00	189.50— 350.00	5	5	6	2	6	5	6	-	-	-	-	22	-	-	-	-	-	-	-	-	-					
Nonmanufacturing.....	39	38.0	273.00	350.00	175.00— 350.00	5	5	6	-	-	1	-	-	-	-	-	22	-	-	-	-	-	-	-	-	-					
Computer operators II.....	97	39.0	277.50	283.00	228.00— 334.00	-	5	-	18	8	5	10	8	9	33	-	-	1	-	-	-	-	-	-	-	-					
Manufacturing.....	55	39.5	310.50	334.00	293.50— 334.00	-	-	-	-	6	4	3	2	6	33	-	-	1	-	-	-	-	-	-	-	-					
Nonmanufacturing.....	42	38.5	234.50	219.00	203.00— 270.00	-	5	-	18	2	1	7	6	3	-	-	-	-	-	-	-	-	-	-	-	-					
Computer operators III.....	65	39.5	324.00	364.00	275.00— 364.00	-	-	-	-	5	2	14	5	-	2	3	34	-	-	-	-	-	-	-	-	-					
Drafters.....	466	40.0	330.50	352.50	278.00— 389.50	-	-	10	10	25	26	48	14	31	50	21	99	129	-	3	-	-	-	-	-	-					
Nonmanufacturing.....	294	39.5	313.50	320.00	260.00— 374.00	-	-	10	10	25	23	32	14	25	42	9	34	68	-	2	-	-	-	-	-	-					
Drafters III.....	77	38.5	360.50	392.50	332.50— 392.50	-	-	-	-	3	-	-	2	-	29	-	1	42	-	-	-	-	-	-	-	-					
Drafters IV.....	189	40.0	325.50	365.00	269.00— 365.00	-	-	-	-	20	26	18	2	7	-	13	83	18	-	2	-	-	-	-	-	-					
Nonmanufacturing.....	90	40.0	302.00	275.50	240.00— 365.00	-	-	-	-	20	23	2	2	1	-	7	27	6	-	2	-	-	-	-	-	-					
Drafters V.....	176	40.0	338.50	348.00	300.00— 389.50	-	-	-	-	-	-	30	10	24	21	8	13	69	-	1	-	-	-	-	-	-					
Electronics technicians.....	178	40.0	397.00	383.00	364.00— 423.50	-	-	-	-	-	5	3	11	1	9	5	15	52	1	43	8	-	22	-	3	-					
Manufacturing.....	71	40.0	382.00	391.50	364.00— 420.00	-	-	-	-	-	-	-	8	1	7	1	13	9	-	26	6	-	-	-	-	-					
Nonmanufacturing.....	107	40.0	407.00	383.00	383.00— 437.50	-	-	-	-	-	5	3	3	-	2	4	2	43	1	17	2	-	22	-	3	-					
Electronics technicians II.....	93	40.0	410.50	383.00	383.00— 423.00	-	-	-	-	-	-	-	-	1	-	1	13	51	-	5	-	-	22	-	-	-					
Manufacturing.....	29	40.0	380.50	364.00	364.00— 391.50	-	-	-	-	-	-	-	-	1	-	1	13	9	-	5	-	-	-	-	-	-					

See footnotes at end of tables.

Table A-2. Weekly earnings of professional and technical workers in Albany-Schenectady-Troy, N.Y., September 1981 —Continued

Occupation and industry division	Number of workers	Average weekly hours ¹ (stand-ard)	Weekly earnings (in dollars) ¹			Number of workers receiving straight-time weekly earnings (in dollars) of —																					
			Mean ²	Median ²	Middle range ²	140 and under 160	160 — 180	180 — 200	200 — 220	220 — 240	240 — 260	260 — 280	280 — 300	300 — 320	320 — 340	340 — 360	360 — 380	380 — 400	400 — 420	420 — 440	440 — 460	460 — 480	480 — 520	520 — 560	560 — 600	600 and over	
Electronics technicians III.....	59	40.0	422.50	420.00	420.00- 429.50	-	-	-	-	-	-	-	-	-	2	4	2	1	1	38	8	-	-	-	-	3	-
Nonmanufacturing.....	32	40.0	420.50	423.50	390.50- 430.50	-	-	-	-	-	-	-	-	-	2	4	2	1	1	17	2	-	-	-	-	3	-
Registered industrial nurses	38	40.0	360.00	364.00	340.00- 380.00	-	-	-	-	-	2	2	1	1	4	5	13	5	2	1	-	-	1	1	-	-	-
Manufacturing	31	40.0	358.50	364.00	344.50- 369.00	-	-	-	-	-	2	2	1	1	2	4	12	4	-	1	-	-	1	1	-	-	-

* Workers were distributed as follows: 16 at \$600.00 to \$640.00; 12 at \$640.00 to \$680.00; 5 at \$680.00 to \$720.00; and 2 at \$720.00 to \$760.00.

* * All workers were at \$600.00 to \$640.00. Also see footnotes at end of tables.

Table A-3. Average weekly earnings of office, professional, and technical workers, by sex, in Albany-Schenectady-Troy, N.Y., September 1981

Sex, ¹ occupation, and industry division	Number of workers	Average (mean) ²		Sex, ¹ occupation, and industry division	Number of workers	Average (mean) ²		Sex, ¹ occupation, and industry division	Number of workers	Average (mean) ²	
		Weekly hours ¹ (standard)	Weekly earnings (in dollars) ¹			Weekly hours ¹ (standard)	Weekly earnings (in dollars) ¹			Weekly hours ¹ (standard)	Weekly earnings (in dollars) ¹
Office occupations - men				File clerks I.....	93	37.0	159.00	Computer systems analysts (business) III.....	67	40.0	584.50
Messengers.....	42	39.0	226.00	Nonmanufacturing.....	83	37.0	157.00	Manufacturing.....	50	40.0	600.00
Nonmanufacturing.....	29	38.5	200.00	Switchboard operators.....	62	38.5	198.00	Computer programmers (business).....	92	39.0	393.00
Accounting clerks:				Manufacturing.....	28	37.0	228.00	Manufacturing.....	57	40.0	411.00
Manufacturing.....	59	39.5	260.50	Nonmanufacturing.....	34	39.5	173.00	Nonmanufacturing.....	35	38.5	362.50
Accounting clerks III.....	54	40.0	246.50	Switchboard operator-receptionists.....	92	40.0	207.50	Computer programmers (business) II.....	50	39.5	395.00
Manufacturing.....	34	40.0	251.00	Manufacturing.....	45	40.0	235.50	Manufacturing.....	31	40.0	391.50
Accounting clerks IV.....	25	39.5	309.00	Nonmanufacturing.....	47	39.5	181.00	Computer programmers (business) III.....	28	39.0	450.50
Payroll clerks.....	25	39.5	291.50	Order clerks.....	86	40.0	214.50	Computer operators.....	156	39.0	282.00
Office occupations - women				Manufacturing.....	56	39.5	231.50	Manufacturing.....	93	39.5	316.50
Secretaries.....	1,431	39.5	297.50	Order clerks I.....	58	39.5	197.50	Nonmanufacturing.....	63	38.5	231.00
Manufacturing.....	829	40.0	311.00	Manufacturing.....	46	39.5	208.50	Computer operators I.....	30	39.0	211.50
Nonmanufacturing.....	602	39.0	278.50	Accounting clerks.....	654	39.0	221.50	Computer operators II.....	75	39.0	274.50
Secretaries I.....	121	38.5	238.00	Manufacturing.....	252	39.5	241.50	Manufacturing.....	43	39.5	308.50
Manufacturing.....	52	39.5	236.50	Nonmanufacturing.....	402	39.0	209.00	Nonmanufacturing.....	32	38.5	229.00
Nonmanufacturing.....	69	38.0	238.50	Transportation and utilities.....	47	39.0	303.00	Computer operators III.....	51	39.5	334.00
Secretaries II.....	192	39.0	232.50	Accounting clerks II.....	219	39.5	190.00	Drafters.....	306	40.0	335.50
Manufacturing.....	66	39.5	239.50	Manufacturing.....	93	39.5	201.50	Nonmanufacturing.....	162	40.0	310.50
Nonmanufacturing.....	126	39.0	229.00	Nonmanufacturing.....	126	39.0	181.50	Drafters III.....	26	39.5	333.00
Secretaries III.....	609	39.5	303.50	Accounting clerks III.....	237	39.5	234.00	Drafters IV.....	119	40.0	341.50
Nonmanufacturing.....	255	39.5	294.00	Manufacturing.....	99	40.0	240.50	Nonmanufacturing.....	40	40.0	327.00
Secretaries IV.....	395	40.0	326.50	Nonmanufacturing.....	138	39.5	229.50	Drafters V.....	147	40.0	340.00
Nonmanufacturing.....	118	39.0	314.00	Accounting clerks IV.....	123	39.0	293.00	Electronics technicians.....	176	40.0	397.50
Secretaries V.....	114	39.5	335.00	Nonmanufacturing.....	68	38.5	274.00	Manufacturing.....	69	40.0	383.00
Nonmanufacturing.....	34	39.0	309.00	Payroll clerks.....	174	39.5	279.50	Nonmanufacturing.....	107	40.0	407.00
Stenographers.....	368	39.0	268.00	Manufacturing.....	92	40.0	266.00	Electronics technicians II.....	92	40.0	411.00
Nonmanufacturing.....	249	38.5	252.00	Nonmanufacturing.....	82	39.5	294.50	Manufacturing.....	28	40.0	381.00
Transportation and utilities.....	56	39.5	327.50	Key entry operators.....	434	39.0	234.50	Electronics technicians III.....	59	40.0	422.50
Stenographers I.....	116	38.5	257.00	Manufacturing.....	171	39.5	240.00	Nonmanufacturing.....	32	40.0	420.50
Nonmanufacturing.....	105	38.5	255.50	Nonmanufacturing.....	263	38.5	231.00	Professional and technical occupations - women			
Transportation and utilities.....	51	39.5	326.50	Transportation and utilities.....	35	38.5	330.50	Computer programmers (business).....	64	39.5	341.00
Stenographers II.....	252	39.0	273.00	Key entry operators I.....	221	38.5	202.50	Nonmanufacturing.....	36	39.5	287.00
Nonmanufacturing.....	144	38.5	249.50	Manufacturing.....	66	39.0	199.00	Computer operators.....	63	39.0	301.50
Transcribing-machine typists.....	66	37.5	191.50	Nonmanufacturing.....	155	38.0	204.50	Manufacturing.....	25	40.0	297.50
Nonmanufacturing.....	44	37.0	194.50	Key entry operators II.....	205	39.5	267.00	Nonmanufacturing.....	38	38.0	304.00
Typists.....	312	39.0	226.50	Manufacturing.....	105	40.0	265.50	Drafters.....	160	39.5	322.00
Manufacturing.....	131	40.0	245.00	Nonmanufacturing.....	100	39.5	269.00	Nonmanufacturing.....	132	39.5	317.00
Nonmanufacturing.....	181	38.5	213.00	Professional and technical occupations - men				Drafters IV.....	70	40.0	298.50
Typists I.....	176	38.5	179.00	Computer systems analysts (business).....	104	39.5	547.00	Nonmanufacturing.....	50	40.0	282.00
Nonmanufacturing.....	117	37.5	179.50	Manufacturing.....	77	40.0	565.00	Registered industrial nurses.....	34	40.0	359.50
Typists II.....	136	40.0	288.00	Nonmanufacturing.....	27	39.0	495.50	Manufacturing.....	27	40.0	357.50
Nonmanufacturing.....	64	39.5	274.50	Computer systems analysts (business) II.....	33	39.5	492.50				
File clerks.....	122	37.5	165.50	Manufacturing.....	26	39.5	500.00				
Nonmanufacturing.....	102	37.0	157.00								

See footnotes at end of tables.

Table A-4. Hourly earnings of maintenance, toolroom, and powerplant workers in Albany-Schenectady-Troy, N.Y., September 1981

Occupation and industry division	Number of workers	Hourly earnings (in dollars)*			Number of workers receiving straight-time hourly earnings (in dollars) of —																							
		Mean²	Median²	Middle range²	Under 6.00	6.00 and under 6.20	6.20 — 6.40	6.40 — 6.60	6.60 — 6.80	6.80 — 7.00	7.00 — 13.80																	
											7.00 — 7.40	7.40 — 7.80	7.80 — 8.20	8.20 — 8.60	8.60 — 9.00	9.00 — 9.40	9.40 — 9.80	9.80 — 10.20	10.20 — 10.60	10.60 — 11.00	11.00 — 11.40	11.40 — 11.80	11.80 — 12.20	12.20 — 12.60	12.60 — 13.00	13.00 — 13.40	13.40 — 13.80	
Maintenance carpenters.....	112	8.46	9.30	6.50– 9.54	–	20	6	4	1	1	6	–	3	2	4	11	47	2	3	–	–	–	–	–	–	2	–	
Manufacturing.....	92	8.53	9.54	6.36– 9.54	–	20	6	–	1	–	1	–	3	2	4	3	47	–	3	–	–	–	–	–	–	2	–	
Maintenance electricians.....	283	9.80	9.54	9.54– 9.79	–	–	–	–	6	–	–	7	3	19	4	6	174	–	6	17	26	–	2	–	–	–	13	
Manufacturing.....	255	9.77	9.54	9.54– 9.74	–	–	–	–	6	–	–	7	3	19	4	6	155	–	3	16	23	–	–	–	–	–	13	
Maintenance painters.....	73	8.83	8.82	8.82– 9.03	2	–	1	–	–	2	–	6	–	1	41	8	6	2	2	–	–	–	–	–	–	2	–	
Manufacturing.....	67	8.92	8.82	8.82– 8.82	–	–	1	–	–	2	–	6	–	1	41	4	6	2	2	–	–	–	–	–	–	2	–	
Maintenance machinists.....	357	9.69	9.54	9.29– 9.54	–	–	–	–	12	–	8	–	3	46	12	10	189	–	2	30	24	–	1	–	–	–	20	
Manufacturing.....	344	9.70	9.54	9.54– 9.54	–	–	–	–	12	–	8	–	3	46	12	1	185	–	2	30	24	–	1	–	–	–	20	
Maintenance mechanics (machinery).....	156	8.07	7.75	6.61– 9.45	14	14	6	1	8	–	34	6	–	–	19	14	16	9	–	–	15	–	–	–	–	–	–	
Manufacturing.....	152	8.04	7.10	6.61– 9.38	14	14	6	1	8	–	34	6	–	–	18	14	13	9	–	–	15	–	–	–	–	–	–	
Maintenance mechanics (motor vehicles).....	277	10.32	10.29	8.60–12.75	–	14	–	4	–	–	3	25	15	6	12	16	14	16	25	12	13	2	23	–	75	2	–	
Manufacturing.....	54	8.53	8.53	6.21– 9.79	–	14	–	1	–	–	2	1	6	6	–	8	4	–	4	1	5	–	–	–	–	2	–	
Nonmanufacturing.....	223	10.76	10.70	9.33–12.77	–	–	–	3	–	–	1	24	9	–	12	8	10	16	21	11	8	2	23	–	75	–	–	
Transportation and utilities.....	200	10.93	11.25	9.58–12.77	–	–	–	3	–	–	–	20	9	–	4	6	10	16	21	5	8	–	23	–	75	–	–	
Maintenance pipefitters.....	310	9.67	9.56	9.56– 9.79	–	–	–	–	8	–	5	–	1	24	3	2	228	–	15	–	12	–	–	–	–	12	–	
Manufacturing.....	278	9.68	9.57	9.56– 9.79	–	–	–	–	8	–	5	–	1	24	2	2	197	–	15	–	12	–	–	–	–	12	–	
Maintenance sheet-metal workers...	42	9.60	9.54	9.43– 9.79	–	–	–	–	3	–	3	–	–	–	–	3	26	–	–	–	4	–	–	–	–	3	–	
Manufacturing.....	29	9.69	9.54	9.54– 9.79	–	–	–	–	3	–	3	–	–	–	–	–	16	–	–	–	4	–	–	–	–	3	–	
Millwrights.....	126	9.97	9.54	9.29–10.71	–	–	–	–	–	–	1	–	–	24	–	19	41	–	–	21	10	–	–	–	–	10	–	
Manufacturing.....	107	10.09	9.54	9.54–10.71	–	–	–	–	–	–	1	–	–	24	–	–	41	–	–	21	10	–	–	–	–	10	–	
Stationary engineers.....	98	9.41	9.31	8.38– 9.79	–	–	–	–	7	–	–	–	–	21	1	23	24	12	–	–	–	–	–	10	–	–	–	
Manufacturing.....	73	9.03	9.31	8.37– 9.79	–	–	–	–	7	–	–	–	–	21	–	12	21	12	–	–	–	–	–	–	–	–	–	
Boiler tenders.....	77	8.39	7.85	7.30– 9.31	–	2	–	–	2	–	21	–	18	9	–	6	5	10	–	–	–	–	4	–	–	–	–	
Manufacturing.....	71	8.39	7.85	7.30– 9.71	–	2	–	–	2	–	21	–	18	3	–	6	5	10	–	–	–	–	4	–	–	–	–	

See footnotes at end of tables.

Table A-5. Hourly earnings of material movement and custodial workers in Albany-Schenectady-Troy, N.Y., September 1981

Occupation and industry division	Number of workers	Hourly earnings (in dollars) ¹			Number of workers receiving straight-time hourly earnings (in dollars) of —																						
		Mean ²	Median ²	Middle range ²	3.20 and under 3.40	3.40	3.60	3.80	4.00	4.40	4.80	5.20	5.60	6.00	6.40	6.80	7.20	7.60	8.00	8.40	8.80	9.40	10.00	10.60	11.20	11.80	12.40
						3.60	3.80	4.00	4.40	4.80	5.20	5.60	6.00	6.40	6.80	7.20	7.60	8.00	8.40	8.80	9.40	10.00	10.60	11.20	11.80	12.40	13.00
Truckdrivers	1,147	9.97	9.90	8.37-12.77	-	-	-	-	97	8	5	4	-	9	17	32	26	17	73	183	14	96	97	3	21	22	423
Manufacturing	235	7.30	7.70	6.32- 8.64	-	-	-	-	49	4	-	2	-	8	16	31	1	12	49	15	14	13	20	-	1	-	-
Nonmanufacturing	912	10.65	11.24	8.75-12.77	-	-	-	-	48	4	5	2	-	1	1	1	25	5	24	168	-	83	77	3	20	22	423
Transportation and utilities	536	12.33	12.77	12.77-12.77	-	-	-	-	-	-	-	-	-	1	-	1	-	-	-	9	-	-	77	3	-	22	423
Truckdrivers, medium truck	228	9.87	9.27	8.75-12.77	-	-	-	-	-	8	5	4	-	7	16	-	2	-	-	68	12	11	10	1	-	-	84
Manufacturing	52	7.71	6.75	6.75- 9.27	-	-	-	-	-	4	-	2	-	6	16	-	1	-	-	-	12	11	-	-	-	-	-
Nonmanufacturing	176	10.51	10.41	8.75-12.77	-	-	-	-	-	4	5	2	-	1	-	-	1	-	-	68	-	-	10	1	-	-	84
Truckdrivers, heavy truck	121	10.19	9.63	8.15-12.77	-	-	-	-	-	-	-	-	-	-	1	-	18	-	27	9	2	9	-	-	-	13	42
Nonmanufacturing	110	10.37	10.87	8.15-12.77	-	-	-	-	-	-	-	-	-	-	1	-	18	-	18	9	-	9	-	-	-	13	42
Truckdrivers, tractor-trailer	527	11.58	12.77	10.20-12.77	-	-	-	-	-	-	-	-	-	-	-	-	6	-	14	25	-	76	80	-	20	9	297
Manufacturing	45	9.31	8.67	8.64-10.20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8	15	-	2	20	-	-	-	-
Nonmanufacturing	482	11.79	12.77	10.59-12.77	-	-	-	-	-	-	-	-	-	-	-	-	6	-	6	10	-	74	60	-	20	9	297
Transportation and utilities	366	12.42	12.77	12.77-12.77	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	-	-	60	-	-	9	297
Shippers	91	7.78	7.97	6.10- 8.59	-	1	-	-	-	-	2	-	11	16	-	1	9	6	20	4	7	7	-	-	7	-	-
Manufacturing	67	7.50	7.26	6.10- 8.28	-	-	-	-	-	-	1	-	11	16	-	1	7	6	18	-	-	-	-	-	7	-	-
Receivers	76	7.47	7.41	6.10- 9.35	-	-	2	-	-	1	-	-	13	16	-	-	7	2	10	3	14	8	-	-	-	-	-
Manufacturing	49	6.67	6.10	5.86- 7.41	-	-	-	-	-	1	-	-	13	16	-	-	7	2	7	2	1	-	-	-	-	-	-
Nonmanufacturing	27	8.92	9.35	9.35- 9.92	-	-	2	-	-	-	-	-	-	-	-	-	-	-	3	1	13	8	-	-	-	-	-
Shippers and receivers	108	7.72	8.28	7.08- 8.28	-	-	-	-	3	-	4	-	3	13	-	6	-	20	40	-	14	4	-	-	1	-	-
Manufacturing	71	7.94	8.28	8.28- 8.28	-	-	-	-	3	-	3	-	3	-	-	6	-	-	40	-	12	3	-	-	1	-	-
Warehousemen	349	8.11	8.01	8.01- 9.10	-	-	-	6	-	3	8	18	8	14	-	-	-	12	111	5	150	14	-	-	-	-	-
Manufacturing	118	7.14	7.62	5.49- 9.14	-	-	-	6	-	3	8	18	8	14	-	-	-	12	2	5	41	1	-	-	-	-	-
Nonmanufacturing	231	8.61	8.85	8.01- 9.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	109	-	109	13	-	-	-	-	-
Order fillers	444	6.03	5.49	3.45- 8.34	36	144	-	-	7	-	2	58	9	10	4	5	5	1	58	18	8	79	-	-	-	-	-
Manufacturing	147	6.70	5.87	5.49- 8.28	-	-	-	-	7	-	2	58	8	6	2	-	-	-	56	-	8	-	-	-	-	-	-
Shipping packers	136	4.93	5.33	3.45- 5.90	-	54	-	-	5	2	6	4	42	14	-	-	-	8	1	-	-	-	-	-	-	-	-
Manufacturing	79	5.90	5.90	5.70- 6.10	-	-	-	-	5	2	4	4	42	14	-	-	-	8	-	-	-	-	-	-	-	-	-
Material handling laborers	346	8.67	8.63	5.83-11.61	-	22	6	-	4	21	-	13	24	6	3	12	6	15	1	62	3	51	-	-	21	-	76
Manufacturing	159	7.22	7.88	5.71- 8.63	-	-	-	-	3	21	-	13	23	6	3	2	6	11	-	60	2	-	-	-	9	-	-
Nonmanufacturing	187	9.91	9.77	8.71-12.77	-	22	6	-	1	-	-	-	1	-	-	10	-	4	1	2	1	51	-	-	12	-	76
Transportation and utilities	88	12.61	12.77	12.77-12.77	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12	-	76
Forklift operators	286	8.19	7.97	7.20- 9.70	-	-	-	-	-	9	-	-	46	-	3	3	41	45	3	8	48	62	-	-	18	-	-
Manufacturing	186	7.73	7.46	5.61- 9.70	-	-	-	-	-	9	-	-	46	-	3	2	37	28	3	8	-	32	-	-	18	-	-
Guards	649	5.26	3.65	3.35- 8.14	179	121	32	14	19	22	11	8	6	25	4	6	28	2	123	11	29	1	-	-	8	-	-
Manufacturing	235	7.18	8.14	6.00- 8.14	-	-	8	3	13	21	5	3	4	25	2	2	27	2	71	11	29	1	-	-	8	-	-
Nonmanufacturing	414	4.17	3.45	3.35- 3.60	179	121	24	11	6	1	6	5	2	-	2	4	1	-	52	-	-	-	-	-	-	-	-
Guards I	576	4.95	3.50	3.35- 7.43	179	121	32	14	19	22	11	7	5	9	2	5	28	2	73	9	29	1	-	-	8	-	-
Manufacturing	213	7.27	8.14	5.77- 8.14	-	-	8	3	13	21	5	2	3	9	-	2	27	2	71	9	29	1	-	-	8	-	-
Nonmanufacturing	363	3.60	3.45	3.35- 3.50	179	121	24	11	6	1	6	5	2	-	2	3	1	-	2	-	-	-	-	-	-	-	-
Janitors, porters, and cleaners	1,048	5.92	6.00	3.71- 7.77	78	43	158	26	55	28	77	14	43	46	17	8	138	205	58	17	37	-	-	-	-	-	-
Manufacturing	554	7.00	7.56	6.00- 7.80	-	-	-	-	11	12	70	9	35	35	12	7	133	173	31	7	19	-	-	-	-	-	-
Nonmanufacturing	494	4.71	3.71	3.60- 5.10	78	43	158	26	44	16	7	5	8	11	5	1	5	32	27	10	18	-	-	-	-	-	-
Transportation and utilities	81	7.65	7.77	7.75- 8.29	-	-	-	-	-	5	-	-	2	4	-	1	5	27	27	10	-	-	-	-	-	-	-

See footnotes at end of tables.

Table A-6. Average hourly earnings of maintenance, toolroom, powerplant, material movement, and custodial workers, by sex, in Albany-Schenectady-Troy, N.Y., September 1981

Sex, ^a occupation, and industry division	Number of workers	Average (mean ^b) hourly earnings (in dollars) ^c	Sex, ^a occupation, and industry division	Number of workers	Average (mean ^b) hourly earnings (in dollars) ^c	Sex, ^a occupation, and industry division	Number of workers	Average (mean ^b) hourly earnings (in dollars) ^c
Maintenance, toolroom, and powerplant occupations - men			Boiler tenders	77	8.39	Order fillers	313	6.98
Maintenance carpenters	112	8.46	Manufacturing	71	8.39	Manufacturing	137	6.74
Manufacturing	92	8.53	Material movement and custodial occupations - men			Shipping packers	118	4.73
Maintenance electricians	283	9.80	Truckdrivers	1,143	9.97	Material handling laborers	318	8.51
Manufacturing	255	9.77	Manufacturing	235	7.30	Manufacturing	158	7.21
Maintenance painters	73	8.83	Nonmanufacturing	908	10.66	Nonmanufacturing	160	9.79
Manufacturing	67	8.92	Transportation and utilities	533	12.34	Transportation and utilities	71	12.57
Maintenance machinists	357	9.69	Truckdrivers, medium truck	227	9.89	Forklift operators	283	8.18
Manufacturing	344	9.70	Manufacturing	52	7.71	Manufacturing	183	7.71
Maintenance mechanics (machinery)	156	8.07	Nonmanufacturing	175	10.54	Guards	618	5.24
Manufacturing	152	8.04	Truckdrivers, heavy truck	121	10.19	Manufacturing	227	7.14
Maintenance mechanics (motor vehicles)	276	10.33	Nonmanufacturing	110	10.37	Nonmanufacturing	391	4.14
Manufacturing	54	8.53	Truckdrivers, tractor-trailer	525	11.57	Guards I	550	4.95
Nonmanufacturing	222	10.77	Manufacturing	45	9.31	Manufacturing	205	7.23
Transportation and utilities	199	10.94	Nonmanufacturing	480	11.78	Nonmanufacturing	345	3.59
Maintenance pipefitters	310	9.67	Transportation and utilities	364	12.42	Janitors, porters, and cleaners	715	6.08
Manufacturing	278	9.68	Shippers	88	7.78	Manufacturing	396	6.86
Maintenance sheet-metal workers	42	9.60	Manufacturing	64	7.48	Nonmanufacturing	319	5.10
Manufacturing	29	9.69	Receivers	73	7.58	Transportation and utilities	73	7.77
Millwrights	126	9.97	Manufacturing	48	6.66	Material movement and custodial occupations - women		
Manufacturing	107	10.09	Shippers and receivers	101	7.76	Guards	30	5.54
Stationary engineers	98	9.41	Manufacturing	71	7.94	Guards I	26	5.12
Manufacturing	73	9.03	Warehousemen	332	8.15	Janitors, porters, and cleaners	322	5.58
			Manufacturing	112	7.28	Nonmanufacturing	164	3.88

See footnotes at end of tables.

Table A-7. Indexes of earnings and percent increases for selected occupational groups, Albany-Schenectady-Troy, N.Y., selected periods

Period ^a	All industries					Manufacturing					Nonmanufacturing			
	Office clerical	Electronic data processing	Industrial nurses	Skilled maintenance	Unskilled plant	Office clerical	Electronic data processing	Industrial nurses	Skilled maintenance	Unskilled plant	Office clerical	Electronic data processing	Industrial nurses	Unskilled plant
Indexes (September 1977 = 100):														
September 1980.....	127.8	(*)	128.8	130.4	128.3	(*)	(*)	127.7	129.9	132.4	124.2	(*)	(*)	123.3
September 1981.....	139.0	(*)	138.3	140.6	139.3	(*)	(*)	136.8	140.0	143.9	134.6	(*)	(*)	133.7
Percent increases:														
March 1972 to March 1973.....	6.3	(*)	5.4	6.4	8.5	(*)	(*)	5.7	5.9	8.2	6.3	(*)	(*)	8.8
March 1973 to March 1974.....	7.3	(*)	7.3	6.1	8.1	(*)	(*)	7.0	6.0	8.9	7.0	(*)	(*)	7.3
March 1974 to September 1974:														
6-month increase.....	4.2	(*)	4.8	4.7	5.3	(*)	(*)	4.4	4.8	4.0	4.2	(*)	(*)	8.4
Annual rate of increase.....	8.6	(*)	9.8	9.6	10.9	(*)	(*)	9.0	9.8	8.2	8.6	(*)	(*)	17.5
September 1974 to September 1975.....	8.6	(*)	9.3	7.7	9.8	(*)	(*)	10.2	7.7	10.9	9.4	(*)	(*)	7.6
September 1975 to September 1976.....	10.4	(*)	9.1	11.7	9.7	(*)	(*)	9.2	12.2	10.8	8.6	(*)	(*)	8.3
September 1976 to September 1977.....	5.8	(*)	6.5	7.1	7.7	(*)	(*)	7.2	7.0	6.7	5.0	(*)	(*)	9.0
September 1977 to September 1978.....	6.5	(*)	7.0	7.9	6.1	(*)	(*)	6.3	7.9	8.0	5.9	(*)	(*)	4.3
September 1978 to September 1979.....	9.4	9.8	9.3	9.5	9.6	(*)	(*)	9.5	9.2	10.9	8.1	(*)	(*)	7.6
September 1979 to September 1980.....	9.7	8.9	10.1	10.4	10.3	(*)	(*)	9.7	10.3	10.5	8.5	(*)	(*)	9.9
September 1980 to September 1981.....	8.8	10.7	7.4	7.8	8.6	(*)	(*)	7.1	7.8	8.7	8.4	(*)	(*)	8.4

See footnotes at end of tables.

Table A-8. Pay relationships in establishments with paired office clerical occupations, Albany-Schenectady-Troy, N.Y., September 1981

Occupation for which earnings are compared	Occupation for which average earnings equal 100																			
	Secretaries					Stenographers		Transcribing-machine typists	Typists		File clerks		Messengers	Switchboard operators	Switchboard operator-receptionists	Order clerks	Accounting clerks			
	I	II	III	IV	V	I	II		I	II	I	II					I	II	III	IV
Secretaries I.....	100	90	87	77	68	(*)	(*)	119	113	(*)	128	(*)	(*)	109	103	106	114	102	86	99
Secretaries II.....	112	100	89	83	(*)	(*)	121	(*)	(*)	116	(*)	(*)	(*)	120	110	(*)	116	107	91	91
Secretaries III.....	115	113	100	94	89	110	(*)	117	126	(*)	140	(*)	(*)	(*)	118	120	110	106	97	99
Secretaries IV.....	130	121	106	100	94	(*)	(*)	136	157	(*)	189	(*)	(*)	(*)	134	149	114	110	(*)	104
Secretaries V.....	146	(*)	113	106	100	136	(*)	(*)	(*)	(*)	194	(*)	(*)	(*)	152	(*)	128	129	110	109
Stenographers I.....	(*)	(*)	91	(*)	73	100	96	(*)	(*)	103	(*)	99	(*)	99	(*)	(*)	102	90	85	92
Stenographers II.....	(*)	82	(*)	(*)	(*)	104	100	(*)	(*)	(*)	(*)	(*)	(*)	(*)	112	(*)	(*)	99	(*)	94
Transcribing-machine typists.....	84	(*)	85	74	(*)	(*)	(*)	100	114	(*)	112	(*)	(*)	(*)	(*)	(*)	102	86	74	91
Typists I.....	88	(*)	79	64	(*)	(*)	(*)	88	100	(*)	107	98	103	80	84	86	91	77	83	82
Typists II.....	(*)	86	(*)	(*)	(*)	97	(*)	(*)	(*)	100	(*)	(*)	(*)	(*)	(*)	(*)	(*)	98	(*)	94
File clerks I.....	78	(*)	72	53	52	(*)	(*)	89	94	(*)	100	(*)	101	(*)	82	(*)	92	86	75	71
File clerks II.....	(*)	(*)	(*)	(*)	(*)	101	(*)	(*)	103	(*)	(*)	100	97	79	(*)	(*)	93	80	(*)	87
Messengers.....	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	97	(*)	99	103	100	(*)	85	(*)	90	85	(*)	(*)
Switchboard operators.....	92	83	(*)	(*)	(*)	101	(*)	(*)	125	(*)	(*)	126	(*)	100	92	(*)	102	93	(*)	97
Switchboard operator-receptionists.....	98	91	85	75	66	(*)	89	(*)	119	(*)	122	(*)	118	108	100	85	110	97	87	86
Order clerks I.....	94	(*)	83	67	(*)	(*)	(*)	(*)	116	(*)	(*)	(*)	(*)	(*)	117	100	110	104	(*)	99
Accounting clerks II.....	88	86	91	87	78	98	(*)	98	109	(*)	108	107	111	99	91	100	88	84	89	101
Accounting clerks III.....	98	93	94	91	77	111	101	116	129	102	116	125	118	108	103	96	114	100	91	94
Accounting clerks IV.....	116	110	103	(*)	91	118	(*)	135	121	(*)	134	(*)	(*)	(*)	115	(*)	119	110	100	100
Payroll clerks.....	101	110	101	96	92	108	106	110	122	107	141	116	(*)	104	117	101	113	106	100	100
Key entry operators I.....	92	86	84	74	66	119	(*)	103	105	(*)	113	(*)	124	91	88	97	99	91	82	85
Key entry operators II.....	100	96	95	90	83	107	99	117	125	(*)	126	107	114	98	105	105	106	103	94	95

NOTE: This matrix table shows the average (mean) relationship of earnings in establishments between any two occupations compared. Earnings for an occupation in the table stub are expressed as a percent of the earnings for an occupation in the column heading at the point where the data lines for the two intersect. For example, reading across the Secretaries II row, the 112 in the Secretaries I column indicates that Secretaries II average 112 percent of (or 12 percent

more than) the earnings of Secretaries I.

See appendix A for method of computation.

Also see footnotes at end of tables.

Table A-9. Pay relationships in establishments with paired professional and technical occupations, Albany-Schenectady-Troy, N.Y., September 1981

Occupation for which earnings are compared	Occupation for which average earnings equal 100													
	Computer systems analysts (business)		Computer programmers (business)			Computer operators			Drafters			Electronics technicians		Registered industrial nurses
	II	III	I	II	III	I	II	III	III	IV	V	II	III	
Computer systems analysts (business) II	100	80	146	123	107	(*)	(*)	146	170	(*)	(*)	140	(*)	(*)
Computer systems analysts (business) III	125	100	(*)	146	(*)	(*)	(*)	(*)	186	172	(*)	159	147	(*)
Computer programmers (business) I	68	(*)	100	(*)	74	(*)	111	100	(*)	(*)	(*)	(*)	(*)	(*)
Computer programmers (business) II	81	69	(*)	100	90	(*)	(*)	121	137	115	(*)	118	104	(*)
Computer programmers (business) III	94	(*)	135	111	100	(*)	(*)	(*)	135	(*)	(*)	(*)	(*)	(*)
Computer operators I	(*)	(*)	(*)	(*)	(*)	100	81	(*)	(*)	(*)	(*)	(*)	(*)	(*)
Computer operators II	(*)	(*)	90	(*)	(*)	124	100	(*)	(*)	(*)	(*)	(*)	(*)	(*)
Computer operators III	69	(*)	100	83	(*)	(*)	(*)	100	(*)	(*)	(*)	(*)	82	(*)
Drafters III	59	54	(*)	73	74	(*)	(*)	(*)	100	90	85	(*)	(*)	(*)
Drafters IV	(*)	58	(*)	87	(*)	(*)	(*)	(*)	111	100	90	(*)	(*)	(*)
Drafters V	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	118	111	100	(*)	(*)	(*)
Electronics technicians II	72	63	(*)	85	(*)	(*)	(*)	(*)	(*)	(*)	(*)	100	89	104
Electronics technicians III	(*)	68	(*)	96	(*)	(*)	(*)	123	(*)	(*)	(*)	112	100	(*)
Registered industrial nurses	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	96	(*)	100

See table A-8 for description of these pay relationships and appendix A for method of computation.
Also see footnotes at end of tables.

Table A-10. Pay relationships in establishments with paired maintenance, toolroom, and powerplant occupations, Albany-Schenectady-Troy, N.Y., September 1981

Occupation for which earnings are compared	Occupation for which average earnings equal 100										
	Carpenters	Electricians	Painters	Machinists	Mechanics		Pipefitters	Sheet-metal workers	Millwrights	Stationary engineers	Boiler tenders
					Machinery	Motor vehicles					
Maintenance carpenters.....	100	98	(*)	(*)	102	101	99	(*)	100	104	106
Maintenance electricians.....	102	100	108	100	106	104	100	(*)	101	104	111
Maintenance painters.....	(*)	93	100	92	98	94	95	94	94	97	100
Maintenance machinists.....	(*)	100	108	100	105	103	100	(*)	101	(*)	111
Maintenance mechanics (machinery).....	98	95	102	95	100	100	96	97	97	99	104
Maintenance mechanics (motor vehicles).....	99	96	106	97	100	100	99	99	99	100	110
Maintenance pipefitters.....	101	100	106	100	105	101	100	100	100	103	110
Maintenance sheet-metal workers.....	(*)	(*)	106	(*)	103	101	100	100	100	102	109
Millwrights.....	100	99	107	99	103	101	100	100	100	103	112
Stationary engineers.....	96	96	103	(*)	101	100	97	98	97	100	108
Boiler tenders.....	94	90	100	90	96	91	91	91	89	93	100

See table A-8 for description of these pay relationships and appendix A for method of computation.
Also see footnotes at end of tables.

Table A-11. Pay relationships in establishments with paired material movement and custodial occupations, Albany-Schenectady-Troy, N.Y., September 1981

Occupation for which earnings are compared	Occupation for which average earnings equal 100												
	Truckdrivers			Shippers	Receivers	Shippers and receivers	Warehousemen	Order fillers	Shipping packers	Material handling laborers	Forklift operators	Guards	Janitors, porters, and cleaners
	Medium truck	Heavy truck	Tractor-trailer									I	
Truckdrivers, medium truck.....	100	(*)	(*)	(*)	110	(*)	(*)	(*)	(*)	(*)	100	127	134
Truckdrivers, heavy truck.....	(*)	100	(*)	(*)	(*)	(*)	(*)	(*)	(*)	103	(*)	128	(*)
Truckdrivers, tractor-trailer.....	(*)	(*)	100	(*)	(*)	(*)	(*)	109	(*)	105	107	129	(*)
Shippers.....	(*)	(*)	(*)	100	101	(*)	100	101	107	106	99	108	(*)
Receivers.....	91	(*)	(*)	99	100	(*)	102	103	104	102	102	112	108
Shippers and receivers.....	(*)	(*)	(*)	(*)	(*)	100	98	(*)	(*)	(*)	(*)	(*)	118
Warehousemen.....	(*)	(*)	(*)	100	98	102	100	100	(*)	100	101	126	118
Order fillers.....	(*)	(*)	92	99	97	(*)	100	100	(*)	101	99	116	106
Shipping packers.....	(*)	(*)	(*)	94	96	(*)	(*)	(*)	100	102	(*)	(*)	105
Material handling laborers.....	(*)	97	96	94	98	(*)	100	99	98	100	99	110	106
Forklift operators.....	100	(*)	93	101	98	(*)	99	101	(*)	101	100	116	108
Guards I.....	79	78	78	93	89	(*)	79	86	(*)	91	86	100	101
Janitors, porters, and cleaners.....	75	(*)	(*)	(*)	92	85	85	94	95	95	93	99	100

See table A-8 for description of these pay relationships and appendix A for method of computation.
Also see footnotes at end of tables.

Footnotes

¹ Standard hours reflect the workweek for which employees receive their regular straight-time salaries (exclusive of pay for overtime at regular and/or premium rates), and the earnings correspond to these weekly hours.

² The mean is computed for each job by totaling the earnings of all workers and dividing by the number of workers. The median designates position—half of the workers receive the same or more and half receive the same or less than the rate shown. The middle range is defined by two rates of pay; one-fourth of the workers earn the same or less than the lower of these rates and one-fourth earn the same or more than the higher rate.

³ Earnings data relate only to workers whose sex identification was provided by the establishment.

⁴ Excludes premium pay for overtime and for work on weekends, holidays, and late shifts.

⁵ Estimates for periods ending prior to 1976 relate to men only for skilled maintenance and unskilled plant workers. All other estimates relate to men and women.

⁶ Data do not meet publication criteria or data not available.

Appendix A.

Scope and Method of Survey

In each of the 71 areas¹ currently surveyed, the Bureau obtains wages and related benefits data from representative establishments within six broad industry divisions: Manufacturing; transportation, communication, and other public utilities; wholesale trade; retail trade; finance, insurance, and real estate; and services. Government operations and the construction and extractive industries are excluded. Small establishments—generally those with fewer than 50 employees—are excluded because they have few incumbents in the occupations studied. Appendix table 1 shows the number of establishments and workers estimated to be within the scope of this survey, as well as the number actually studied.

Bureau field representatives obtain data by personal visits at 3-year intervals. In each of the two intervening years, information on employment and occupational earnings only is collected by a combination of personal visit, mail questionnaire, and telephone interview from establishments participating in the previous survey.

A sample of the establishments in the scope of the survey is selected for study prior to each personal visit survey. This sample, minus establishments which go out of business or are no longer within the industrial scope of the survey, is retained for the following two annual surveys. In most cases, establishments new to the area are not considered in the scope of the survey until the selection of a sample for a personal visit survey.

The sampling procedures involve detailed stratification of all establishments within the scope of an individual area survey by industry and number of employees. From this stratified universe a probability sample is selected, with each establishment having a predetermined chance of selection. To obtain optimum accuracy at minimum cost, a greater proportion of large than small establishments is selected. When data are combined, each establishment is weighted according to its probability of selection so that unbiased estimates are generated. For example, if one out of four establishments is selected, it is given a weight of 4 to represent itself plus three others. An alternate of the same original probability is chosen in the same industry-size classification if data are not available from the original sample member. If no suitable substitute is available, additional weight is assigned to a sample member that is similar to the missing unit.

Occupations and earnings

Occupations selected for study are common to a variety of manufacturing and nonmanufacturing industries, and are of the following types: (1) Office clerical; (2) professional and technical; (3) maintenance, toolroom, and powerplant; and (4) material

movement and custodial. Occupational classification is based on a uniform set of job descriptions designed to take account of interestablishment variation in duties within the same job. Occupations selected for study are listed and described in appendix B.

Unless otherwise indicated, the earnings data following the job titles are for all industries combined. Earnings data for some of the occupations listed and described, or for some industry divisions within the scope of the survey, are not presented in the A-series tables because either (1) data were insufficient to provide meaningful statistical results, or (2) there is possibility of disclosure of individual establishment data. Separate men's and women's earnings data are not presented when the number of workers not identified by sex is 20 percent or more of the men or women identified in an occupation. Earnings data not shown separately for industry divisions are included in data for all industries combined. Likewise, for occupations with more than one level, data are included in the overall classification when a subclassification is not shown or information to subclassify is not available.

Occupational employment and earnings data are shown for full-time workers, i.e., those hired to work a regular weekly schedule. Earnings data exclude premium pay for overtime and for work on weekends, holidays, and late shifts. Nonproduction bonuses are excluded, but cost-of-living allowances and incentive bonuses are included. Weekly hours for office clerical and professional and technical occupations refer to the standard workweek (rounded to the nearest half hour) for which employees receive regular straight-time salaries (exclusive of pay for overtime at regular and/or premium rates). Average weekly earnings for these occupations are rounded to the nearest half dollar. Most A-series tables provide distributions of workers by earnings; changes in the size of earnings intervals are indicated by heavy vertical lines.

These surveys measure the level of occupational earnings in an area at a particular time. Changes in an occupational average over time reflect, in addition to earnings changes, factors such as changes in proportions of workers employed by high- or low-wage firms, or high-wage workers advancing to better jobs and being replaced by new workers at lower rates. Such shifts in employment could decrease an occupational average even though most establishments in an area increase wages during the year. Changes in earnings of occupational groups, shown in table A-7, are better indicators of wage trends than are earnings changes for individual jobs within the groups.

Average earnings reflect composite, areawide estimates. Industries and establishments differ in pay level and job staffing, and thus contribute differently to the estimates

for each job. Pay averages may fail to reflect accurately the wage differential among jobs in individual establishments.

Average pay levels for men and women in selected occupations should not be assumed to reflect differences in pay of the sexes within individual establishments. Factors which may contribute to differences include progression within established rate ranges (only the rates paid incumbents are collected) and performance of specific duties within the general survey job descriptions. Job descriptions used to classify employees in these surveys usually are more generalized than those used in individual establishments and allow for minor differences among establishments in specific duties performed.

Occupational employment 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 occupational employment obtained from the sample of establishments studied serve only to indicate the relative importance of the jobs studied. These differences in occupational structure do not affect materially the accuracy of the earnings data.

Wage trends for selected occupational groups

Indexes in table A-7 measure wages at a given time, expressed as a percent of wages during the base period. Subtracting 100 from the index yields the percent change in wages from the base period to the date of the index. The percent increases in table A-7 relate to wage changes between the indicated dates. Annual rates of increase, where shown, reflect the amount of increase for 12 months when the time span between surveys was other than 12 months. These computations are based on the assumption that wages increased at a constant rate between surveys.

The indexes and percent increases are based on changes in average hourly earnings of men and women in establishments reporting the trend jobs in both the current and previous year (matched establishments). The data are adjusted to remove the effects on average earnings of employment shifts among establishments and turnover of establishments included in survey samples. The percent increases, however, are still affected by factors other than wage increases. Turnover may affect an establishment average for an occupation when workers are paid under plans providing a range of wage rates for individual jobs. In periods of increased hiring, for example, new employees may enter at the bottom of the range, depressing the average without a change in wage rates.

Occupations used to compute wage trends are:

Office clerical

Secretaries
Stenographers, I and II
Typists, I and II
File clerks, I, II, and III
Messengers

Switchboard operators
Order clerks, I and II
Accounting clerks, I, II, III, and IV
Payroll clerks
Key entry operators, I and II

Electronic data processing

Computer systems analysts, I, II, and III

Computer programmers, I, II, and III
Computer operators, I, II, and III

Industrial nurses

Registered industrial nurses

Skilled maintenance

Carpenters
Electricians
Painters
Machinists

Mechanics (machinery)
Mechanics (motor vehicle)
Pipefitters
Tool and die makers

Unskilled plant

Janitors, porters, and cleaners

Material handling laborers

Percent changes for individual areas in the program are computed as follows:

1. Average earnings are computed for each occupation for the 2 years being compared. The averages are derived from earnings in those establishments which are in the survey both years; it is assumed that employment remains unchanged.
2. Each occupation is assigned a weight based on its proportionate employment in the occupational group.
3. These weights are used to compute group averages. Each occupation's average earnings (computed in step 1) are multiplied by its weight. The products are totaled to obtain a group average.
4. The ratio of group averages for 2 consecutive years is computed by dividing the average for the current year by the average for the earlier year. The result—expressed as a percent—less 100 is the percent change.

The index is computed by adding 100 to the most recent percent increase, multiplying the total by the previous year's index number, and dividing the product by 100 to obtain the current index value.

For a more detailed description of the method used to compute these wage trends, see "Improving Area Wage Survey Indexes," *Monthly Labor Review*, January 1973, pp. 52-57.

Pay relationships in establishments

Tables A-8 through A-11 compare average pay of occupations in individual establishments. These comparisons, expressed as pay relatives (pay for one of the occupations equals 100), yield different results than comparisons of overall survey averages, such as those shown in tables A-1 through A-6. The latter reflect differences in contributions to the survey averages by establishments with disparate pay levels; the pay relative comparisons are not affected by such differences.

The methods of computing and presenting pay relatives have changed since the last survey in this area. The following procedures are now used to compute relatives in tables A-8 through A-11:

1. Establishments employing workers in both of the paired occupations were identified.
2. Pay levels (averages) for the two occupations were weighted by the combined employment of both jobs to reflect each establishment's contribution to the totals used in this comparison.
3. The weighted pay levels of the two jobs were summed separately; each total was divided by the other and the quotients multiplied by 100 to produce the two pay relatives shown for each job pairing.

Establishment practices and supplementary wage provisions

Tabulations on selected establishment practices and supplementary wage provisions (B-series tables) are not presented in this bulletin. Information for these tabulations is collected at 3-year intervals. These tabulations on minimum entrance salaries for inexperienced office workers; shift differentials; scheduled weekly hours and days; paid holidays; paid vacations; and health, insurance, and pension plans are presented (in the B-series tables) in previous bulletins for this area.

¹ Includes 70 areas surveyed under the Bureau's regular program plus Poughkeepsie-Kingston-Newburgh, N.Y., which is surveyed under contract. In addition, the Bureau conducts more limited area studies in approximately 100 areas at the request of the Employment Standards Administration of the U.S. Department of Labor.

Appendix table 1. Establishments and workers within scope of survey and number studied in Albany-Schenectady-Troy, N.Y.,¹ September 1981

Industry division ²	Minimum employment in establishments in scope of survey	Number of establishments		Workers in establishments		
		Within scope of survey ³	Studied	Within scope of survey ⁴		Studied
				Number	Percent	
All divisions	-	488	133	112,037	100	71,052
Manufacturing	50	155	42	52,360	47	36,053
Nonmanufacturing	-	333	91	59,677	53	34,999
Transportation, communication, and other public utilities ⁵	50	43	18	12,076	11	9,776
Wholesale trade ⁶	50	59	14	6,427	6	3,392
Retail trade ⁶	50	99	20	20,869	19	11,668
Finance, insurance, and real estate ⁶	50	47	14	7,637	7	3,416
Services ⁷	50	85	25	12,668	11	6,747

¹ The Albany-Schenectady-Troy, N.Y. Standard Metropolitan Statistical Area, as defined by the Office of Management and Budget through February 1974, consists of Albany, Montgomery, Rensselaer, Saratoga, and Schenectady Counties. The "workers within scope of survey" estimates provide a reasonably accurate description of the size and composition of the labor force included in the survey. Estimates are not intended, however, for comparison with other statistical series to measure employment trends or levels since (1) planning of wage surveys requires establishment data compiled considerably in advance of the payroll period studied, and (2) small establishments are excluded from the scope of the survey.

² The 1972 edition of the *Standard Industrial Classification Manual* was used to classify establishments by industry division. All government operations are excluded from the scope of the survey.

³ Includes all establishments with total employment at or above the minimum limitation. All outlets (within the area) of nonmanufacturing companies are considered as one establishment when located within the same industry division.

⁴ Includes all workers in all establishments with total employment (within the area) at or above the minimum limitation.

⁵ Abbreviated to "transportation and utilities" in the A-series tables. Formerly referred to as "public utilities". Taxicabs and services incidental to water transportation are excluded. The major local and suburban transit system is governmentally owned and operated and is excluded by definition from the scope of the survey.

⁶ Separate data for this division are not presented in the A-series tables, but the division is represented in the 'all industries' and 'nonmanufacturing' estimates.

⁷ Hotels and motels; laundries and other personal services; business services; automobile repair, rental, and parking; motion pictures; nonprofit membership organizations (excluding religious and charitable organizations); and engineering and architectural services.

Appendix B. Occupational Descriptions

The primary purpose of preparing job descriptions for the Bureau's wage surveys is to assist its field representatives in classifying into appropriate occupations workers who are employed under a variety of payroll titles and different work arrangements from establishment to establishment and from area to area. This permits grouping occupational wage rates representing comparable job content. Because of this emphasis on interestablishment and interarea comparability of occupational content, the Bureau's job descriptions may differ significantly from those in use in individual establishments or those prepared for other purposes. In applying these job descriptions, the Bureau's field representatives are instructed to exclude working supervisors; apprentices; and part-time, temporary, and probationary workers. Handicapped workers whose earnings are reduced because of their handicap are also excluded. Learners, beginners, and trainees, unless specifically included in the job description, are excluded.

Office

SECRETARY

Assigned as a personal secretary, normally to one individual. Maintains a close and highly responsive relationship to the day-to-day activities of the supervisor. Works fairly independently receiving a minimum of detailed supervision and guidance. Performs varied clerical and secretarial duties requiring a knowledge of office routine and understanding of the organization, programs, and procedures related to the work of the supervisor.

Exclusions. Not all positions that are titled "secretary" possess the above characteristics. Examples of positions which are excluded from the definition are as follows:

- a. Positions which do not meet the "personal" secretary concept described above;
- b. Stenographers not fully trained in secretarial-type duties;
- c. Stenographers serving as office assistants to a group of professional, technical, or managerial persons;

- d. Assistant-type positions which entail more difficult or more responsible technical, administrative, or supervisory duties which are not typical of secretarial work, e.g., Administrative Assistant, or Executive Assistant;
- e. Positions which do not fit any of the situations listed in the sections below titled "Level of Supervisor," e.g., secretary to the president of a company that employs, in all, over 5,000 persons;
- f. Trainees.

Classification by level. Secretary jobs which meet the required characteristics are matched at one of five levels according to (a) the level of the secretary's supervisor within the company's organizational structure and, (b) the level of the secretary's responsibility. The tabulation following the explanations of these two factors indicates the level of the secretary for each combination of the factors.

Level of Secretary's Supervisor (LS)

LS-1

- a. Secretary to the supervisor or head of a small organizational unit (e.g., fewer than about 25 or 30 persons); or
- b. Secretary to a nonsupervisory staff specialist, professional employee, administrative officer or assistant, skilled technician or expert. (NOTE: Many companies assign stenographers, rather than secretaries as described above, to this level of supervisory or nonsupervisory worker.)

- a. Secretary to an executive or managerial person whose responsibility is not equivalent to one of the specific level situations in the definition for LS-3, but whose organizational unit normally numbers at least several dozen employees and is usually divided into organizational segments which are often, in turn, further subdivided. In some companies, this level includes a wide range of organizational echelons; in others, only one or two; or
- b. Secretary to the head of an individual plant, factory, etc., (or other equivalent level of official) that employs, in all, fewer than 5,000 persons.

LS-3

- a. Secretary to the chairman of the board or president of a company that employs, in all, fewer than 100 persons; or
- b. Secretary to a corporate officer (other than chairman of the board or president) of a company that employs, in all, over 100 but fewer than 5,000 persons; or
- c. Secretary to the head (immediately below the officer level) over either a major corporatewide functional activity (e.g., marketing, research, operations, industrial relations, etc.) or a major geographic or organizational segment (e.g., a regional headquarters; a major division) of a company that employs, in all, over 5,000 but fewer than 25,000 employees; or
- d. Secretary to the head of an individual plant, factory, etc., (or other equivalent level of official) that employs, in all, over 5,000 persons; or
- e. Secretary to the head of a large and important organizational segment (e.g., a middle management supervisor of an organizational segment often involving as many as several hundred persons) of a company that employs, in all, over 25,000 persons.

LS-4

- a. Secretary to the chairman of the board or president of a company that employs, in all, over 100 but fewer than 5,000 persons; or
- b. Secretary to a corporate officer (other than the chairman of the board or president) of a company that employs, in all, over 5,000 but fewer than 25,000 persons; or
- c. Secretary to the head, immediately below the corporate officer level, of a major segment or subsidiary of a company that employs, in all, over 25,000 persons.

NOTE: The term "corporate officer" used in the above LS definition refers to those officials who have a significant corporatewide policy-making role with regard to major company activities. The title "vice president," though normally indicative of this role, does not in all cases identify such positions. Vice presidents whose primary responsibility is to act personally on individual cases or transactions (e.g., approve or deny individual loan or credit actions; administer individual trust accounts; directly supervise a clerical staff) are not considered to be "corporate officers" for purposes of applying the definition.

Level of Secretary's Responsibility(LR)

This factor evaluates the nature of the work relationship between the secretary and the supervisor, and the extent to which the secretary is expected to exercise initiative and judgment. Secretaries should be matched at LR-1 or LR-2 described below according to their level of responsibility.

LR-1

Performs varied secretarial duties including or comparable to most of the following:

- a. Answers telephones, greets personal callers, and opens incoming mail.
- b. Answers telephone requests which have standard answers. May reply to requests by sending a form letter.
- c. Reviews correspondence, memoranda, and reports prepared by others for the supervisor's signature to ensure procedural and typographical accuracy.
- d. Maintains supervisor's calendar and makes appointments as instructed.
- e. Types, takes and transcribes dictation, and files.

LR-2

Performs duties described under LR-1 and, *in addition* performs tasks requiring greater judgment, initiative, and knowledge of office functions including or comparable to most of the following:

- a. Screens telephone and personal callers, determining which can be handled by the supervisor's subordinates or other offices.
- b. Answers requests which require a detailed knowledge of office procedures or collection of information from files or other offices. *May* sign routine correspondence in own or supervisor's name.
- c. Compiles or assists in compiling periodic reports on the basis of general instructions.
- d. Schedules tentative appointments without prior clearance. Assembles necessary background material for scheduled meetings. Makes arrangements for meetings and conferences.
- e. Explains supervisor's requirements to other employees in supervisor's unit. (Also types, takes dictation, and files.)

The following tabulation shows the level of the secretary for each LS and LR combination:

	LR-1	LR-2
LS-1.....	I	II
LS-2.....	II	III
LS-3.....	III	IV
LS-4.....	IV	V

STENOGRAPHER

Primary duty is to take dictation using shorthand, and to transcribe the dictation. May also type from written copy. May operate from a stenographic pool. May occasionally transcribe from voice recordings (if primary duty is transcribing from recordings, see Transcribing-Machine Typist). *NOTE:* This job is distinguished from that of a secretary in that a secretary normally works in a confidential relationship with only one manager or executive and performs more responsible and discretionary tasks as described in the secretary job definition.

Stenographer I

Dictation involves a normal routine vocabulary. May maintain files, keep simple records, or perform other relatively routine clerical tasks.

Stenographer II

Dictation involves a varied technical or specialized vocabulary such as in legal briefs or reports on scientific research. May also set up and maintain files, keep records, etc., *OR*

Performs stenographic duties requiring significantly greater independence and responsibility than Stenographer I, as evidenced by the following: Work requires a high degree of stenographic speed and accuracy; a thorough working knowledge of general business and office procedure and of the specific business operations, organization, policies, procedures, files, workflow, etc. Uses this knowledge in performing stenographic duties and responsible clerical tasks such as maintaining follow-up files; assembling material for reports, memoranda, and letters; composing simple letters from general instructions; reading and routing incoming mail; and answering routine questions, etc.

TRANSCRIBING-MACHINE TYPIST

Primary duty is to type copy of voice recorded dictation which does *not* involve varied technical or specialized vocabulary such as that used in legal briefs or reports on scientific research. May also type from written copy. May maintain files, keep simple records, or perform other relatively routine clerical tasks. (See Stenographer definition for workers involved with shorthand dictation.)

TYPIST

Uses a typewriter to make copies of various materials or to make out bills after calculations have been made by another person. May include typing of stencils, mats, or similar materials for use in duplicating processes. May do clerical work involving little special training, such as keeping simple records, filing records and reports, or sorting and distributing incoming mail.

Typist I

Performs *one or more of the following:* Copy typing from rough or clear drafts; or routine typing of forms, insurance policies, etc.; or setting up simple standard tabulations; or copying more complex tables already set up and spaced properly.

Typist II

Performs *one or more of the following:* Typing material in final form when it involves combining material from several sources; or responsibility for correct spelling, syllabication, punctuation, etc., of technical or unusual words or foreign language

material; or planning layout and typing of complicated statistical tables to maintain uniformity and balance in spacing. May type routine form letters, varying details to suit circumstances.

FILE CLERK

Files, classifies, and retrieves material in an established filing system. May perform clerical and manual tasks required to maintain files. Positions are classified into levels on the basis of the following definitions:

File Clerk I

Performs routine filing of material that has already been classified or which is easily classified in a simple serial classification system (e.g., alphabetical, chronological, or numerical). As requested, locates readily available material in files and forwards material; and may fill out withdrawal charge. May perform simple clerical and manual tasks required to maintain and service files.

File Clerk II

Sorts, codes, and files unclassified material by simple (subject matter) headings or partly classified material by finer subheadings. Prepares simple related index and cross-reference aids. As requested, locates clearly identified material in files and forwards material. May perform related clerical tasks required to maintain and service files.

File Clerk III

Classifies and indexes file material such as correspondence, reports, technical documents, etc., in an established filing system containing a number of varied subject matter files. May also file this material. May keep records of various types in conjunction with the files. May lead a small group of lower level file clerks.

MESSENGER

Performs various routine duties such as running errands, operating minor office machines such as sealers or mailers, opening and distributing mail, and other minor clerical work. Exclude positions that require operation of a motor vehicle as a significant duty.

SWITCHBOARD OPERATOR

Operates a telephone switchboard or console used with a private branch exchange (PBX) system to relay incoming, outgoing, and intrasystem calls. May provide information to callers, record and transmit messages, keep record of calls placed and toll charges. Besides operating a telephone switchboard or console, *may* also type or perform routine clerical work (typing or routine clerical work may occupy the major portion of the worker's time, and is usually performed while at the switchboard or console). Chief or lead operators in establishments employing more than one operator are excluded. For an operator who also acts as a receptionist, see Switchboard operator-receptionist.

SWITCHBOARD OPERATOR-RECEPTIONIST

At a single-position telephone switchboard or console, acts both as an operator—see Switchboard operator—and as a receptionist. Receptionist's work involves such duties as greeting visitors; determining nature of visitor's business and providing appropriate information; referring visitor to appropriate person in the organization or contacting that person by telephone and arranging an appointment; keeping a log of visitors.

ORDER CLERK

Receives written or verbal customers' purchase orders for material or merchandise from customers or sales people. Work typically involves some combination of the following duties: Quoting prices; determining availability of ordered items and suggesting substitutes when necessary; advising expected delivery date and method of delivery; recording order and customer information on order sheets; checking order sheets for accuracy and adequacy of information recorded; ascertaining credit rating of customer; furnishing customer with acknowledgement of receipt of order; following up to see that order is delivered by the specified date or to let customer know of a delay in delivery; maintaining order file; checking shipping invoice against original order. *Exclude workers paid on a commission basis or whose duties include any of the following:* Receiving orders for services rather than for material or merchandise; providing customers with consultative advice using knowledge gained from engineering or extensive technical training; emphasizing selling skills; handling material or merchandise as an integral part of the job.

Positions are classified into levels according to the following definitions:

Order Clerk I

Handles orders involving items which have readily identified uses and applications. May refer to a catalog, manufacturer's manual, or similar document to insure that proper item is supplied or to verify price of ordered item.

Order Clerk II

Handles orders that involve making judgments such as choosing which specific product or material from the establishment's product lines will satisfy the customer's needs, or determining the price to be quoted when pricing involves more than merely referring to a price list or making some simple mathematical calculations.

ACCOUNTING CLERK

Performs one or more accounting tasks such as posting to registers and ledgers; balancing and reconciling accounts; verifying the internal consistency, completeness, and mathematical accuracy of accounting documents; assigning prescribed accounting distribution codes; examining and verifying the clerical accuracy of various types of reports, lists, calculations, postings, etc.; preparing journal vouchers; or making entries or adjustments to accounts.

Levels I and II require a basic knowledge of routine clerical methods and office practices and procedures as they relate to the clerical processing and recording of transactions and accounting information. Levels III and IV require a knowledge and understanding of the established and standardized bookkeeping and accounting procedures and techniques used in an accounting system, or a segment of an accounting system, where there are few variations in the types of transactions handled. In addition, some jobs at each level may require a basic knowledge and understanding of the terminology, codes, and processes used in an automated accounting system.

Accounting Clerk I

Performs very simple and routine accounting clerical operations, for example, recognizing and comparing easily identified numbers and codes on similar and repetitive accounting documents, verifying mathematical accuracy, and identifying discrepancies and bringing them to the supervisor's attention. Supervisor gives clear

and detailed instructions for specific assignments. Employee refers to supervisor all matters not covered by instructions. Work is closely controlled and reviewed in detail for accuracy, adequacy, and adherence to instructions.

Accounting Clerk II

Performs one or more routine accounting clerical operations, such as: Examining, verifying, and correcting accounting transactions to ensure completeness and accuracy of data and proper identification of accounts, and checking that expenditures will not exceed obligations in specified accounts; totaling, balancing, and reconciling collection vouchers; posting data to transaction sheets where employee identifies proper accounts and items to be posted; and coding documents in accordance with a chart (listing) of accounts. Employee follows specific and detailed accounting procedures. Completed work is reviewed for accuracy and compliance with procedures.

Accounting Clerk III

Uses a knowledge of double entry bookkeeping in performing one or more of the following: Posts actions to journals, identifying subsidiary accounts affected and debit and credit entries to be made and assigning proper codes; reviews computer printouts against manually maintained journals, detecting and correcting erroneous postings, and preparing documents to adjust accounting classifications and other data; or reviews lists of transactions rejected by an automated system, determining reasons for rejections, and preparing necessary correcting material. On routine assignments, employee selects and applies established procedures and techniques. Detailed instructions are provided for difficult or unusual assignments. Completed work and methods used are reviewed for technical accuracy.

Accounting Clerk IV

Maintains journals or subsidiary ledgers of an accounting system and balances and reconciles accounts. Typical duties include one or both of the following: Reviews invoices and statements (verifying information, ensuring sufficient funds have been obligated, and if questionable, resolving with the submitting unit, determining accounts involved, coding transactions, and processing material through data processing for application in the accounting system); and/or analyzes and reconciles computer printouts with operating unit reports (contacting units and researching causes of discrepancies, and taking action to ensure that accounts balance). Employee resolves problems in recurring assignments in accordance with previous training and experience. Supervisor provides suggestions for handling unusual or nonrecurring transactions. Conformance with requirements and technical soundness of completed work are reviewed by the supervisor or are controlled by mechanisms built into the accounting system.

NOTE: Excluded from level IV are positions responsible for maintaining either a general ledger or a general ledger in combination with subsidiary accounts.

PAYROLL CLERK

Performs the clerical tasks necessary to process payrolls and to maintain payroll records. Work involves *most of the following*: Processing workers' time or production records; adjusting workers' records for changes in wage rates, supplementary benefits, or tax deductions; editing payroll listings against source records; tracing and correcting

errors in listings; and assisting in preparation of periodic summary payroll reports. In a nonautomated payroll system, computes wages. Work may require a practical knowledge of governmental regulations, company payroll policy, or the computer system for processing payrolls.

KEY ENTRY OPERATOR

Operates keyboard-controlled data entry device such as keypunch machine or key-operated magnetic tape or disk encoder to transcribe data into a form suitable for computer processing. Work requires skill in operating an alphanumeric keyboard and an understanding of transcribing procedures and relevant data entry equipment.

Positions are classified into levels on the basis of the following definitions:

Key Entry Operator I

Work is routine and repetitive. Under close supervision or following specific procedures or detailed instructions, works from various standardized source documents which have been coded and require little or no selecting, coding, or interpreting of data to be entered. Refers to supervisor problems arising from erroneous items, codes, or missing information.

Key Entry Operator II

Work requires the application of experience and judgment in selecting procedures to be followed and in searching for, interpreting, selecting, or coding items to be entered from a variety of source documents. On occasion may also perform routine work as described for level I.

NOTE: Excluded are operators above level II using the key entry controls to access, read, and evaluate the substance of specific records to take substantive actions, or to make entries requiring a similar level of knowledge.

Professional and Technical

COMPUTER SYSTEMS ANALYST, BUSINESS

Analyzes business problems to formulate procedures for solving them by use of electronic data processing equipment. Develops a complete description of all specifications needed to enable programmers to prepare required digital computer programs. Work involves *most of the following*: Analyzes subject-matter operations to be automated and identifies conditions and criteria required to achieve satisfactory results; specifies number and types of records, files, and documents to be used; outlines actions to be performed by personnel and computers in sufficient detail for presentation to management and for programming (typically this involves preparation of work and data flow charts); coordinates the development of test problems and participates in trial runs of new and revised systems; and recommends equipment changes to obtain more effective overall operations. (NOTE: Workers performing both systems analysis and programming should be classified as systems analysts if this is the skill used to determine their pay.)

Does not include employees primarily responsible for the management or supervision of other electronic data processing employees, or systems analysts primarily concerned with scientific or engineering problems.

For wage study purposes, systems analysts are classified as follows:

Computer Systems Analyst I

Works under immediate supervision, carrying out analyses as assigned, usually of a single activity. Assignments are designed to develop and expand practical experience in the application of procedures and skills required for systems analysis work. For example, may assist a higher level systems analyst by preparing the detailed specifications required by programmers from information developed by the higher level analyst.

Computer Systems Analyst II

Works independently or under only general direction on problems that are relatively uncomplicated to analyze, plan, program, and operate. Problems are of limited complexity because sources of input data are homogeneous and the output data are closely related. (For example, develops systems for maintaining depositor accounts in a bank, maintaining accounts receivable in a retail establishment, or maintaining inventory accounts in a manufacturing or wholesale establishment.) Confers with persons concerned to determine the data processing problems and advises subject-matter personnel on the implications of the data processing systems to be applied. *OR*

Works on a segment of a complex data processing scheme or system, as described for level III. Works independently on routine assignments and receives instruction and guidance on complex assignments. Work is reviewed for accuracy of judgment, compliance with instructions, and to insure proper alignment with the overall system.

Computer Systems Analyst III

Works independently or under only general direction on complex problems involving all phases of systems analysis. Problems are complex because of diverse sources of input data and multiple-use requirements of output data. (For example, develops an integrated production scheduling, inventory control, cost analysis, and sales analysis record in which every item of each type is automatically processed through the full system of records and appropriate follow-up actions are initiated by the computer.) Confers with persons concerned to determine the data processing problems and advises subject-matter personnel on the implications of new or revised systems of data processing operations. Makes recommendations, if needed, for approval of major systems installations or changes and for obtaining equipment.

May provide functional direction to lower level systems analysts who are assigned to assist.

COMPUTER PROGRAMMER, BUSINESS

Converts statements of business problems, typically prepared by a systems analyst, into a sequence of detailed instructions which are required to solve the problems by automatic data processing equipment. Working from charts or diagrams, the programmer develops the precise instructions which, when entered into the computer system in coded language, cause the manipulation of data to achieve desired results. Work involves *most of the following*: Applies knowledge of computer capabilities, mathematics, logic employed by computers, and particular subject matter involved to analyze charts and diagrams of the problem to be programmed; develops sequence of program steps; writes detailed flow charts to show order in which data will be processed; converts these charts to coded instructions for machine to follow; tests and corrects programs; prepares instructions for operating personnel during production run; analyzes, reviews, and alters programs to increase operating efficiency or adapt to new requirements; maintains records of program development and revisions. (NOTE:

Workers performing both systems analysis and programming should be classified as systems analysts if this is the skill used to determine their pay.)

Does not include employees primarily responsible for the management or supervision of other electronic data processing employees, or programmers primarily concerned with scientific and/or engineering problems.

For wage study purposes, programmers are classified as follows:

Computer Programmer I

Makes practical applications of programming practices and concepts usually learned in formal training courses. Assignments are designed to develop competence in the application of standard procedures to routine problems. Receives close supervision on new aspects of assignments; and work is reviewed to verify its accuracy and conformance with required procedures.

Computer Programmer II

Works independently or under only general direction on relatively simple programs, or on simple segments of complex programs. Programs (or segments) usually process information to produce data in two or three varied sequences or formats. Reports and listings are produced by refining, adapting, arraying, or making minor additions to or deletions from input data which are readily available. While numerous records may be processed, the data have been refined in prior actions so that the accuracy and sequencing of data can be tested by using a few routine checks. Typically, the program deals with routine recordkeeping operations. *OR*

Works on complex programs (as described for level III) under close direction of a higher level programmer or supervisor. May assist higher level programmer by independently performing less difficult tasks assigned, and performing more difficult tasks under fairly close direction.

May guide or instruct lower level programmers.

Computer Programmer III

Works independently or under only general direction on complex problems which require competence in all phases of programming concepts and practices. Working from diagrams and charts which identify the nature of desired results, major processing steps to be accomplished, and the relationships between various steps of the problem solving routine; plans the full range of programming actions needed to efficiently utilize the computer system in achieving desired end products.

At this level, programming is difficult because computer equipment must be organized to produce several interrelated but diverse products from numerous and diverse data elements. A wide variety and extensive number of internal processing actions must occur. This requires such actions as development of common operations which can be reused, establishment of linkage points between operations, adjustments to data when program requirements exceed computer storage capacity, and substantial manipulation and resequencing of data elements to form a highly integrated program.

May provide functional direction to lower level programmers who are assigned to assist.

COMPUTER OPERATOR

In accordance with operating instructions, monitors and operates the control console of a digital computer to process data. Executes runs by either serial processing

(processes one program at a time) or multiprocessing (processes two or more programs simultaneously). The following duties characterize the work of a computer operator:

- a. Studies operating instructions to determine equipment setup needed.
- b. Loads equipment with required items (tapes, cards, disks, paper, etc.).
- c. Switches necessary auxiliary equipment into system.
- d. Starts and operates computer.
- e. Responds to operating and computer output instructions.
- f. Reviews error messages and makes corrections during operation *or* refers problems.
- g. Maintains operating record.

May test-run new or modified programs. May assist in modifying systems or programs. The scope of this definition includes trainees working to become fully qualified computer operators, fully qualified computer operators, and lead operators providing technical assistance to lower level operators. It excludes workers who monitor and operate remote terminals.

For wage study purposes, computer operators are classified as follows:

Computer Operator I

Work assignments are limited to established production runs (i.e., programs which present few operating problems). Assignments may consist primarily of on-the-job training (sometimes augmented by classroom instruction). When learning to run programs, the supervisor or a higher level operator provides detailed written or oral guidance to the operator before and during the run. After the operator has gained experience with a program, however, the operator works fairly independently in applying standard operating or corrective procedures in responding to computer output instructions or error conditions, but refers problems to a higher level operator or the supervisor when standard procedures fail.

Computer Operator II

In addition to established production runs, work assignments include runs involving new programs, applications, and procedures (i.e., situations which require the operator to adapt to a variety of problems). At this level, the operator has the training and experience to work fairly independently in carrying out most assignments. Assignments may require the operator to select from a variety of standard setup and operating procedures. In responding to computer output instructions or error conditions, applies standard operating or corrective procedures, but may deviate from standard procedures when standard procedures fail if deviation does not materially alter the computer unit's production plans. Refers the problem or aborts the program when procedures applied do not provide a solution. May guide lower level operators.

Computer Operator III

In addition to work assignments described for Computer operator II (see above) the work of Computer operator III involves at least one of the following:

- a. Deviates from standard procedures to avoid the loss of information or to conserve computer time even though the procedures applied materially alter the computer unit's production plans.
- b. Tests new programs, applications, and procedures.

- c. Advises programmers and subject-matter experts on setup techniques.
- d. Assists in (1) maintaining, modifying, and developing operating systems or programs; (2) developing operating instructions and techniques to cover problem situations; and/or (3) switching to emergency backup procedures (such assistance requires a working knowledge of program language, computer features, and software systems).

An operator at this level typically guides lower level operators.

PERIPHERAL EQUIPMENT OPERATOR

Operates peripheral equipment which directly supports digital computer operations. Such equipment is uniquely and specifically designed for computer applications, but need not be physically or electronically connected to a computer. Printers, plotters, card read/punches, tape readers, tape units or drives, disk units or drives, and data display units are examples of such equipment.

The following duties characterize the work of a peripheral equipment operator:

- a. Loading printers and plotters with correct paper; adjusting controls for forms, thickness, tension, printing density, and location; and unloading hard copy.
- b. Labeling tape reels, disks, or card decks.
- c. Checking labels and mounting and dismounting designated tape reels or disks on specified units or drives.
- d. Setting controls which regulate operation of the equipment.
- e. Observing panel lights for warnings and error indications and taking appropriate action.
- f. Examining tapes, cards, or other material for creases, tears, or other defects which could cause processing problems.

This classification excludes workers (1) who monitor and operate a control console (see Computer operator) or a remote terminal, or (2) whose duties are limited to operating decollaters, bursters, separators, or similar equipment.

COMPUTER DATA LIBRARIAN

Maintains library of media (tapes, disks, cards, cassettes) used for automatic data processing applications. The following or similar duties characterize the work of a computer data librarian: Classifying, cataloging, and storing media in accordance with a standardized system; upon proper requests, releasing media for processing; maintaining records of releases and returns; inspecting returned media for damage or excessive wear to determine whether or not they need replacing. May perform minor repairs to damaged tapes.

DRAFTER

Performs drafting work requiring knowledge and skill in drafting methods, procedures, and techniques. Prepares drawings of structures, mechanical and electrical equipment, piping and duct systems and other similar equipment, systems, and assemblies. Uses recognized systems of symbols, legends, shadings, and lines having specific meanings in drawings. Drawings are used to communicate engineering ideas, designs, and information in support of engineering functions.

The following are excluded when they constitute the primary purpose of the job:

- a. Design work requiring the technical knowledge, skill, and ability to conceive or originate designs;
- b. Illustrating work requiring artistic ability;
- c. Work involving the preparation of charts, diagrams, room arrangements, floor plans, etc.;
- d. Cartographic work involving the preparation of maps or plats and related materials, and drawings of geological structures; and
- e. Supervisory work involving the management of a drafting program or the supervision of drafters.

Positions are classified into levels on the basis of the following definitions.

Drafter I

Working under close supervision, traces or copies finished drawings, making clearly indicated revisions. Uses appropriate templates to draw curved lines. Assignments are designed to develop increasing skill in various drafting techniques. Work is spot-checked during progress and reviewed upon completion.

NOTE: Exclude drafters performing elementary tasks while receiving training in the most basic drafting methods.

Drafter II

Prepares drawings of simple, easily visualized parts or equipment from sketches or marked-up prints. Selects appropriate templates and other equipment needed to complete assignments. Drawings fit familiar patterns and present few technical problems. Supervisor provides detailed instructions on new assignments, gives guidance when questions arise, and reviews completed work for accuracy.

Drafter III

Prepares various drawings of parts and assemblies, including sectional profiles, irregular or reverse curves, hidden lines, and small or intricate details. Work requires use of most of the conventional drafting techniques and a working knowledge of the terms and procedures of the industry. Familiar or recurring work is assigned in general terms; unfamiliar assignments include information on methods, procedures, sources of information, and precedents to be followed. Simple revisions to existing drawings may be assigned with a verbal explanation of the desired results; more complex revisions are produced from sketches which clearly depict the desired product.

Drafter IV

Prepares complete sets of complex drawings which include multiple views, detail drawings, and assembly drawings. Drawings include complex design features that require considerable drafting skill to visualize and portray. Assignments regularly require the use of mathematical formulas to compute weights, load capacities, dimensions, quantities of materials, etc. Working from sketches and verbal information supplied by an engineer or designer, determines the most appropriate views, detail drawings, and supplementary information needed to complete assignments. Selects required information from precedents, manufacturers' catalogs, and technical guides. Independently resolves most of the problems encountered. Supervisor or designer may suggest methods of approach or provide advice on unusually difficult problems.

NOTE: Exclude drafters performing work of similar difficulty to that described at this level but who provide support for a variety of organizations which have widely differing functions or requirements.

Drafter V

Works closely with design originators, preparing drawings of unusual, complex or original designs which require a high degree of precision. Performs unusually difficult assignments requiring considerable initiative, resourcefulness, and drafting expertise. Assures that anticipated problems in manufacture, assembly, installation, and operation are resolved by the drawings produced. Exercises independent judgment in selecting and interpreting data based on a knowledge of the design intent. Although working primarily as a drafter, may occasionally perform engineering design work in interpreting general designs prepared by others or in completing missing design details. May provide advice and guidance to lower level drafters or serve as coordinator and planner for large and complex drafting projects.

ELECTRONICS TECHNICIAN

Works on various types of electronic equipment and related devices by performing one or a combination of the following: Installing, maintaining, repairing, overhauling, troubleshooting, modifying, constructing, and testing. Work requires practical application of technical knowledge of electronics principles, ability to determine malfunctions, and skill to put equipment in required operating condition.

The equipment—consisting of either many different kinds of circuits or multiple repetition of the same kind of circuit—includes, but is not limited to, the following: (a) electronic transmitting and receiving equipment (e.g., radar, radio, television, telephone, sonar, navigational aids), (b) digital and analog computers, and (c) industrial and medical measuring and controlling equipment.

This classification excludes repairers of such standard electronic equipment as common office machines and household radio and television sets; production assemblers and testers; workers whose primary duty is servicing electronic test instruments; technicians who have administrative or supervisory responsibility; and drafters, designers, and professional engineers.

Positions are classified into levels on the basis of the following definitions:

Electronics Technician I

Applies working technical knowledge to perform simple or routine tasks in working on electronic equipment, following detailed instructions which cover virtually all procedures. Work typically involves such tasks as: Assisting higher level technicians by performing such activities as replacing components, wiring circuits, and taking test readings; repairing simple electronic equipment; and using tools and common test instruments (e.g., multimeters, audio signal generators, tube testers, oscilloscopes). Is not required to be familiar with the interrelationships of circuits. This knowledge, however, may be acquired through assignments designed to increase competence (including classroom training) so that worker can advance to higher level technician.

Receives technical guidance, as required, from supervisor or higher level technician. Work is typically spot-checked, but is given detailed review when new or advanced assignments are involved.

Electronics Technician II

Applies comprehensive technical knowledge to solve complex problems (i.e., those that typically *can* be solved solely by properly interpreting manufacturers' manuals or similar documents) in working on electronic equipment. Work involves: A familiarity with the interrelationships of circuits; and judgment in determining work sequence and in selecting tools and testing instructions, usually less complex than those used by the level III technician.

Receives technical guidance, as required, from supervisor or higher level technician, and work is reviewed for specific compliance with accepted practices and work assignments. May provide technical guidance to lower level technicians.

Electronics Technician III

Applies advanced technical knowledge to solve unusually complex problems (i.e., those that typically *cannot* be solved solely by reference to manufacturers' manuals or similar documents) in working on electronic equipment. Examples of such problems include location and density of circuitry, electromagnetic radiation, isolating malfunctions, and frequent engineering changes. Work involves: A detailed understanding of the interrelationships of circuits; exercising independent judgment in performing such tasks as making circuit analyses, calculating wave forms, tracing relationships in signal flow; and regularly using complex test instruments (e.g., dual trace oscilloscopes, Q-meters, deviation meters, pulse generators).

Work may be reviewed by supervisor (frequently an engineer or designer) for general compliance with accepted practices. May provide technical guidance to lower level technicians.

REGISTERED INDUSTRIAL NURSE

A registered nurse gives nursing service under general medical direction to ill or injured employees or other persons who become ill or suffer an accident on the premises of a factory or other establishment. Duties involve a *combination of the following*: Giving first aid to the ill or injured; attending to subsequent dressing of employees' injuries; keeping records of patients treated; preparing accident reports for compensation or other purposes; assisting in physical examinations and health evaluations of applicants and employees; and planning and carrying out programs involving health education, accident prevention, evaluation of plant environment, or other activities affecting the health, welfare, and safety of all personnel. Nursing supervisors or head nurses in establishments employing more than one nurse are excluded.

Maintenance, Toolroom, and Powerplant

MAINTENANCE CARPENTER

Performs the carpentry duties necessary to construct and maintain in good repair building woodwork and equipment such as bins, cribs, counters, benches, partitions, doors, floors, stairs, casings, and trim made of wood in an establishment. Work involves *most of the following*: Planning and laying out of work from blueprints, drawings, models, or verbal instructions; using a variety of carpenter's handtools, portable power tools, and standard measuring instruments; making standard shop computations relating to dimensions of work; and selecting materials necessary for the work. In general, the work of the maintenance carpenter requires rounded training and experience usually acquired through a formal apprenticeship or equivalent training and experience.

MAINTENANCE ELECTRICIAN

Performs a variety of electrical trade functions such as the installation, maintenance, or repair of equipment for the generation, distribution, or utilization of electric energy in an establishment. Work involves *most of the following*: Installing or repairing any of a variety of electrical equipment such as generators, transformers, switchboards, controllers, circuit breakers, motors, heating units, conduit systems, or other transmission equipment; working from blueprints, drawings, layouts, or other specifications; locating and diagnosing trouble in the electrical system or equipment; working standard computations relating to load requirements of wiring or electrical equipment; and using a variety of electrician's handtools and measuring and testing instruments. In general, the work of the maintenance electrician requires rounded training and experience usually acquired through a formal apprenticeship or equivalent training and experience.

MAINTENANCE PAINTER

Paints and redecorates walls, woodwork, and fixtures of an establishment. Work involves *the following*: Knowledge of surface peculiarities and types of paint required for different applications; preparing surface for painting by removing old finish or by placing putty or filler in nail holes and interstices; and applying paint with spray gun or brush. May mix colors, oils, white lead, and other paint ingredients to obtain proper color or consistency. In general, the work of the maintenance painter requires rounded training and experience usually acquired through a formal apprenticeship or equivalent training and experience.

MAINTENANCE MACHINIST

Produces replacement parts and new parts in making repairs of metal parts of mechanical equipment operated in an establishment. Work involves *most of the following*: Interpreting written instructions and specifications; planning and laying out of work; using a variety of machinist's handtools and precision measuring instruments; setting up and operating standard machine tools; shaping of metal parts to close tolerances; making standard shop computations relating to dimensions of work, tooling, feeds, and speeds of machining; knowledge of the working properties of the common metals; selecting standard materials, parts, and equipment required for this work; and fitting and assembling parts into mechanical equipment. In general, the machinist's work normally requires a rounded training in machine-shop practice usually acquired through a formal apprenticeship or equivalent training and experience.

MAINTENANCE MECHANIC (MACHINERY)

Repairs machinery or mechanical equipment of an establishment. Work involves *most of the following*: Examining machines and mechanical equipment to diagnose source of trouble; dismantling or partly dismantling machines and performing repairs that mainly involve the use of handtools in scraping and fitting parts; replacing broken or defective parts with items obtained from stock; ordering the production of a replacement part by a machine shop or sending the machine to a machine shop for major repairs; preparing written specifications for major repairs or for the production of parts ordered from machine shops; reassembling machines; and making all necessary adjustments for operation. In general, the work of a machinery maintenance mechanic requires rounded training and experience usually acquired through a formal apprenticeship or equivalent training and experience. Excluded from this classification are workers whose *primary duties* involve setting up or adjusting machines.

MAINTENANCE MECHANIC (MOTOR VEHICLE)

Repairs automobiles, buses, motortrucks, and tractors of an establishment. Work involves *most of the following*: Examining automotive equipment to diagnose source of trouble; disassembling equipment and performing repairs that involve the use of such handtools as wrenches, gauges, drills, or specialized equipment in disassembling or fitting parts; replacing broken or defective parts from stock; grinding and adjusting valves; reassembling and installing the various assemblies in the vehicle and making necessary adjustments; and aligning wheels, adjusting brakes and lights, or tightening body bolts. In general, the work of the motor vehicle maintenance mechanic requires rounded training and experience usually acquired through a formal apprenticeship or equivalent training and experience.

This classification does not include mechanics who repair customers' vehicles in automobile repair shops.

MAINTENANCE PIPEFITTER

Installs or repairs water, steam, gas, or other types of pipe and pipefittings in an establishment. Work involves *most of the following*: Laying out work and measuring to locate position of pipe from drawings or other written specifications; cutting various sizes of pipe to correct lengths with chisel and hammer or oxyacetylene torch or pipe-cutting machines; threading pipe with stocks and dies; bending pipe by hand-driven or power-driven machines; assembling pipe with couplings and fastening pipe to hangers; making standard shop computations relating to pressures, flow, and size of pipe required; and making standard tests to determine whether finished pipes meet specifications. In general, the work of the maintenance pipefitter requires rounded training and experience usually acquired through a formal apprenticeship or equivalent training and experience. *Workers primarily engaged in installing and repairing building sanitation or heating systems are excluded.*

MAINTENANCE SHEET-METAL WORKER

Fabricates, installs, and maintains in good repair the sheet-metal equipment and fixtures (such as machine guards, grease pans, shelves, lockers, tanks, ventilators, chutes, ducts, metal roofing) of an establishment. Work involves *most of the following*: Planning and laying out all types of sheet-metal maintenance work from blueprints, models, or other specifications; setting up and operating all available types of sheet-metal working machines; using a variety of handtools in cutting, bending, forming, shaping, fitting, and assembling; and installing sheet-metal articles as required. In general, the work of the maintenance sheet-metal worker requires rounded training and experience usually acquired through a formal apprenticeship or equivalent training and experience.

MILLWRIGHT

Installs new machines or heavy equipment, and dismantles and installs machines or heavy equipment when changes in the plant layout are required. Work involves *most of the following*: Planning and laying out work; interpreting blueprints or other specifications; using a variety of handtools and rigging; making standard shop computations relating to stresses, strength of materials, and centers of gravity; aligning and balancing equipment; selecting standard tools, equipment, and parts to be used; and installing and maintaining in good order power transmission equipment such as drives and speed reducers. In general, the millwright's work normally requires a rounded training and

experience in the trade acquired through a formal apprenticeship or equivalent training and experience.

MAINTENANCE TRADES HELPER

Assists one or more workers in the skilled maintenance trades by performing specific or general duties of lesser skill, such as keeping a worker supplied with materials and tools; cleaning working area, machine, and equipment; assisting journeyman by holding materials or tools; and performing other unskilled tasks as directed by journeyman. The kind of work the helper is permitted to perform varies from trade to trade: In some trades the helper is confined to supplying, lifting, and holding materials and tools, and cleaning working areas; and in others he is permitted to perform specialized machine operations, or parts of a trade that are also performed by workers on a full-time basis.

MACHINE-TOOL OPERATOR (TOOLROOM)

Specializes in operating one or more than one type of machine tool (e.g., jig borer, grinding machine, engine lathe, milling machine) to machine metal for use in making or maintaining jigs, fixtures, cutting tools, gauges, or metal dies or molds used in shaping or forming metal or nonmetallic material (e.g., plastic, plaster, rubber, glass). *Work typically involves:* Planning and performing difficult machining operations which require complicated setups or a high degree of accuracy; setting up machine tool or tools (e.g., install cutting tools and adjust guides, stops, working tables, and other controls to handle the size of stock to be machined; determine proper feeds, speeds, tooling, and operation sequence or select those prescribed in drawings, blueprints, or layouts); using a variety of precision measuring instruments; making necessary adjustments during machining operation to achieve requisite dimensions to very close tolerances. May be required to select proper coolants and cutting and lubricating oils, to recognize when tools need dressing, and to dress tools. In general, the work of a machine-tool operator (toolroom) at the skill level called for in this classification requires extensive knowledge of machine-shop and toolroom practice usually acquired through considerable on-the-job training and experience.

For cross-industry wage study purposes, this classification does *not* include machine-tool operators (toolroom) employed in tool and die jobbing shops.

TOOL AND DIE MAKER

Constructs and repairs jigs, fixtures, cutting tools, gauges, or metal dies or molds used in shaping or forming metal or nonmetallic material (e.g., plastic, plaster, rubber, glass). *Work typically involves:* Planning and laying out work according to models, blueprints, drawings, or other written or oral specifications; understanding the working properties of common metals and alloys; selecting appropriate materials, tools, and processes required to complete task; making necessary shop computations; setting up and operating various machine tools and related equipment; using various tool and die maker's handtools and precision measuring instruments; working to very close tolerances; heat-treating metal parts and finished tools and dies to achieve required qualities; fitting and assembling parts to prescribed tolerances and allowances. In general, the tool and die maker's work requires rounded training in machine-shop and toolroom practice usually acquired through formal apprenticeship or equivalent training and experience.

For cross-industry wage study purposes, this classification does *not* include tool and die makers who (1) are employed in tool and die jobbing shops or (2) produce forging dies (die sinkers).

STATIONARY ENGINEER

Operates and maintains one or more systems which provide an establishment with such services as heat, air-conditioning (cool, humidify, dehumidify, filter, and circulate air), refrigeration, steam or high-temperature water, or electricity. Duties involve: Observing and interpreting readings on gauges, meters, and charts which register various aspects of the system's operation; adjusting controls to insure safe and efficient operation of the system and to meet demands for the service provided; recording in logs various aspects of the system's operation; keeping the engines, machinery, and equipment of the system in good working order. May direct and coordinate activities of other workers (not stationary engineers) in performing tasks directly related to operating and maintaining the system or systems.

The classification excludes head or chief engineers in establishments employing more than one engineer; workers required to be skilled in the repair of electronic control equipment; and workers in establishments producing electricity, steam, or heated or cooled air primarily for sale.

BOILER TENDER

Tends one or more boilers to produce steam or high-temperature water for use in an establishment. Fires boiler. Observes and interprets readings on gauges, meters, and charts which register various aspects of boiler operation. Adjusts controls to insure safe and efficient boiler operation and to meet demands for steam or high-temperature water. May also do one or more of the following: Maintain a log in which various aspects of boiler operation are recorded; clean, oil, make minor repairs or assist in repairs to boilerroom equipment; and, following prescribed methods, treat boiler water with chemicals and analyze boiler water for such things as acidity, causticity, and alkalinity.

The classification excludes workers in establishments producing electricity, steam, or heated or cooled air primarily for sale.

Material Movement and Custodial

TRUCKDRIVER

Drives a truck within a city or industrial area to transport materials, merchandise, equipment, or workers between various types of establishments such as: Manufacturing plants, freight depots, warehouses, wholesale and retail establishments, or between retail establishments and customers' houses or places of business. May also load or unload truck with or without helpers, make minor mechanical repairs, and keep truck in good working order. *Salesroute and over-the-road drivers are excluded.*

For wage study purposes, truckdrivers are classified by type and rated capacity of truck, as follows:

Truckdriver, light truck

(straight truck, under 1 1/2 tons, usually 4 wheels)

Truckdriver, medium truck

(straight truck, 1 1/2 to 4 tons inclusive, usually 6 wheels)

Truckdriver, heavy truck

(straight truck, over 4 tons, usually 10 wheels)

Truckdriver, tractor-trailer

SHIPPER AND RECEIVER

Performs *clerical and physical* tasks in connection with shipping goods of the establishment in which employed and receiving incoming shipments. In performing day-to-day, routine tasks, follows established guidelines. In handling unusual nonroutine problems, receives specific guidance from supervisor or other officials. May direct and coordinate the activities of other workers engaged in handling goods to be shipped or being received.

Shippers typically are responsible for most of the following: Verifying that orders are accurately filled by comparing items and quantities of goods gathered for shipment against documents; insuring that shipments are properly packaged, identified with shipping information, and loaded into transporting vehicles; preparing and keeping records of goods shipped, e.g., manifests, bills of lading.

Receivers typically are responsible for most of the following: Verifying the correctness of incoming shipments by comparing items and quantities unloaded against bills of lading, invoices, manifests, storage receipts, or other records; checking for damaged goods; insuring that goods are appropriately identified for routing to departments within the establishment; preparing and keeping records of goods received.

For wage study purposes, workers are classified as follows:

Shipper

Receiver

Shipper and receiver

WAREHOUSEMAN

As directed, performs a *variety of warehousing* duties which require an *understanding of the establishment's storage plan*. Work involves *most of the following*: Verifying materials (or merchandise) against receiving documents, noting and reporting discrepancies and obvious damages; routing materials to prescribed storage locations; storing, stacking, or palletizing materials in accordance with prescribed storage methods; rearranging and taking inventory of stored materials; examining stored materials and reporting deterioration and damage; removing material from storage and preparing it for shipment. May operate hand or power trucks in performing warehousing duties.

Exclude workers whose *primary* duties involve shipping and receiving work (see Shipper and receiver and Shipping packer), order filling (see Order filler), or operating power trucks (see Power-truck operator).

ORDER FILLER

Fills shipping or transfer orders for finished goods from stored merchandise in accordance with specifications on sales slips, customers' orders, or other instructions. May, in addition to filling orders and indicating items filled or omitted, keep records of outgoing orders, requisition additional stock or report short supplies to supervisor, and perform other related duties.

SHIPPING PACKER

Prepares finished products for shipment or storage by placing them in shipping containers, the specific operations performed being dependent upon the type, size, and number of units to be packed, the type of container employed, and method of shipment. Work requires the placing of items in shipping containers and *may involve one or more of the following*: Knowledge of various items of stock in order to verify content; selection

of appropriate type and size of container; inserting enclosures in container; using excelsior or other material to prevent breakage or damage; closing and sealing container; and applying labels or entering identifying data on container. *Packers who also make wooden boxes or crates are excluded.*

MATERIAL HANDLING LABORER

A worker employed in a warehouse, manufacturing plant, store, or other establishment whose duties involve *one or more of the following*: Loading and unloading various materials and merchandise on or from freight cars, trucks, or other transporting devices; unpacking, shelving, or placing materials or merchandise in proper storage location; and transporting materials or merchandise by handtruck, car, or wheelbarrow. *Longshore workers, who load and unload ships, are excluded.*

POWER-TRUCK OPERATOR

Operates a manually controlled gasoline- or electric-powered truck or tractor to transport goods and materials of all kinds about a warehouse, manufacturing plant, or other establishment.

For wage study purposes, workers are classified by type of powertruck, as follows:

Forklift operator

Power-truck operator (other than forklift)

GUARD

Protects property from theft or damage, or persons from hazards or interference. Duties involve serving at a fixed post, making rounds on foot or by motor vehicle, or escorting persons or property. May be deputized to make arrests. May also help visitors and customers by answering questions and giving directions.

Guards employed by establishments which provide protective services on a contract basis are included in this occupation.

For wage study purposes, guards are classified as follows:

Guard I

Carries out instructions primarily oriented toward insuring that emergencies and security violations are readily discovered and reported to appropriate authority. Intervenes directly only in situations which require minimal action to safeguard property or persons. Duties require minimal training. Commonly, the guard is not required to demonstrate physical fitness. May be armed, but generally is not required to demonstrate proficiency in the use of firearms or special weapons.

Guard II

Enforces regulations designed to prevent breaches of security. Exercises judgment and uses discretion in dealing with emergencies and security violations encountered. Determines whether first response should be to intervene directly (asking for assistance when deemed necessary and time allows), to keep situation under surveillance, or to report situation so that it can be handled by appropriate authority. Duties require specialized training in methods and techniques of protecting security areas. Commonly, the guard is required to demonstrate continuing physical fitness and proficiency with firearms or other special weapons.

JANITOR, PORTER, OR CLEANER

Cleans and keeps in an orderly condition factory working areas and washrooms, or premises of an office, apartment house, or commercial or other establishment. Duties involve *a combination of the following*: Sweeping, mopping or scrubbing, and polishing

floors; removing chips, trash, and other refuse; dusting equipment, furniture, or fixtures; polishing metal fixtures or trimmings; providing supplies and minor maintenance services; and cleaning lavatories, showers, and restrooms. *Workers who specialize in window washing are excluded.*

Appendix C. Job Conversion Table

Beginning in 1981, multilevel jobs are identified by numeric instead of alphabetic designations. A conversion table for the affected occupations follows:

Occupation	Numeric designation (currently used)	Alphabetic designation (previously used)
Secretary.....	I II III IV V	E D C B A
Stenographer	I II	General Senior
Typist.....	I II	B A
File clerk	I II III	C B A
Order clerk.....	I II	B A
Accounting clerk	I II III IV	D C B A
Key entry operator	I II	B A

Occupation	Numeric designation (currently used)	Alphabetic designation (previously used)
Computer systems analyst (business).....	I II III	C B A
Computer programmer (business)	I II III	C B A
Computer operator	I II III	C B A
Drafter	I II III IV V	E D C B A
Electronics technician	I II III	C B A
Guard.....	I II	B A

Area Wage Surveys

A list of the latest bulletins available is presented below. Bulletins may be purchased from any of the BLS regional offices shown on the back cover, or from the Superintendent of Documents, U.S. Government Printing Office, Washington, D. C. 20402. Make checks payable to Superintendent of Documents. A directory of occupational wage surveys, covering the years 1974 through 1979, is available on request.

<i>Area</i>	<i>Bulletin number and price*</i>
Albany-Schenectady-Troy, N.Y., Sept. 1981	3010-49 \$2.50
Anaheim-Santa Ana-Garden Grove, Calif., Oct. 1980	3000-62 \$2.00
Atlanta, Ga., May 1981 ¹	3010-24 \$3.25
Baltimore, Md., Aug. 1981 ¹	3010-39 \$3.00
Billings, Mont., July 1981	3010-25 \$2.25
Boston, Mass., Aug. 1981 ¹	3010-48 \$3.25
Buffalo, N.Y., Oct. 1980	3000-52 \$2.25
Chattanooga, Tenn.—Ga., Sept. 1981 ¹	3010-42 \$3.25
Chicago, Ill., May 1980	3010-19 \$2.75
Cincinnati, Ohio—Ky.—Ind., July 1981	3010-30 \$2.75
Cleveland, Ohio, Sept. 1981 ¹	3010-44 \$3.25
Columbus, Ohio, Oct. 1980	3000-48 \$2.00
Corpus Christi, Tex., July 1981	3010-22 \$2.25
Dallas—Fort Worth, Tex., Dec. 1980 ¹	3000-67 \$3.25
Davenport—Rock Island—Moline, Iowa—Ill., Feb. 1981	3010- 7 \$2.25
Dayton, Ohio, Dec. 1980 ¹	3000-64 \$2.25
Daytona Beach, Fla., Aug. 1981	3010-38 \$2.25
Denver—Boulder, Colo., Dec. 1980 ¹	3000-68 \$3.25
Detroit, Mich., Apr. 1981	3010-12 \$2.75
Fresno, Calif., June 1981	3010-27 \$2.25
Gainesville, Fla., Sept. 1981	3010-45 \$2.50
Gary—Hammond—East Chicago, Ind., Nov. 1980 ¹	3000-56 \$1.75
Green Bay, Wis., July 1981 ¹	3010-26 \$2.75
Greensboro—Winston-Salem—High Point, N.C., Aug. 1981	3010-43 \$2.75
Greenville—Spartanburg, S.C., June 1981	3010-23 \$2.25
Hartford, Conn., Mar. 1981	3010-21 \$2.50
Houston, Tex., May. 1981	3010-14 \$2.75
Huntsville, Ala., Feb. 1981	3010- 5 \$2.25
Indianapolis, Ind., Oct. 1980	3000-47 \$2.25
Jackson, Miss., Jan. 1981	3010- 4 \$1.75
Jacksonville, Fla., Dec. 1980	3000-66 \$1.75
Kansas City, Mo.—Kans., Sept. 1981	3010-47 \$3.00
Los Angeles—Long Beach, Calif., Oct. 1980	3000-63 \$2.25
Louisville, Ky.—Ind., Nov. 1980 ¹	3000-65 \$2.25

<i>Area</i>	<i>Bulletin number and price*</i>
Memphis, Tenn.—Ark.—Miss., Nov. 1980	3000-59 \$1.75
Miami, Fla., Oct. 1980	3000-51 \$2.25
Milwaukee, Wis., May 1981 ¹	3010-16 \$3.25
Minneapolis—St. Paul, Minn.—Wis., Jan. 1981 ¹	3010- 1 \$3.75
Nassau—Suffolk, N.Y., June 1981 ¹	3010-31 \$3.00
Newark, N.J., Jan. 1981	3010- 3 \$2.25
New Orleans, La., Oct. 1981 ¹	3010-46 \$3.25
New York, N.Y.—N.J., May 1981 ¹	3010-41 \$3.25
Norfolk—Virginia Beach—Portsmouth, Va.—N.C., May 1981	3010-17 \$2.25
Northeast Pennsylvania, Aug. 1981	3010-40 \$2.25
Oklahoma City, Okla., Aug. 1981	3010-37 \$2.25
Omaha, Nebr.—Iowa, Oct. 1980 ¹	3000-57 \$2.25
Paterson—Clifton—Passaic, N.J., June 1981	3010-35 \$2.25
Philadelphia, Pa.—N.J., Nov. 1980	3000-53 \$2.25
Pittsburgh, Pa., Jan. 1981	3010- 2 \$2.25
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San Diego, Calif., Nov. 1980 ¹	3000-71 \$2.25
San Francisco—Oakland, Calif., Mar. 1981 ¹	3010-13 \$3.00
San Jose, Calif., Mar. 1981 ¹	3010-10 \$3.00
Seattle—Everett, Wash., Dec. 1980	3000-69 \$1.75
South Bend, Ind., Aug. 1981	3010-33 \$2.25
Toledo, Ohio—Mich., June 1981 ¹	3010-20 \$2.75
Trenton, N.J., Sept. 1980	3000-43 \$1.75
Washington, D.C.—Md.—Va., Mar. 1981 ¹	3010- 6 \$3.00
Wichita, Kans., Apr. 1981	3010-11 \$2.25
Worcester, Mass., Apr. 1981	3010-34 \$2.25
York, Pa., Feb. 1981 ¹	3010- 9 \$2.75

* Prices are determined by the Government Printing Office and are subject to change.

¹ Data on establishment practices and supplementary wage provisions are also presented.

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