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1950-7

Area Wage Survey

Newark, New Jersey,
Metropolitan Area, January 1977



Bulletin 1950-7

U.S. Department of Labor
Bureau of Labor Statistics

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Preface

This bulletin provides results of a January 1977 survey of occupational earnings in the Newark, New Jersey, 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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the Bureau of Labor Statistics and cite the name and number of this publication.

Note:

A current report on occupational earnings in the Newark area is available for the moving and storage industry. Also available are listings of union wage rates for building trades, printing trades, local-transit operating employees, local truckdrivers and helpers, and grocery store employees. Free copies of these are available from the Bureau's regional offices. (See back cover for addresses.)

Area Wage Survey

Newark, New Jersey, Metropolitan Area, January 1977

U.S. Department of Labor
Ray Marshall, Secretary
Bureau of Labor Statistics
Julius Shiskin, Commissioner

May 1977

Bulletin 1950- 7



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Introduction

This area is 1 of 74 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, occupational earnings data (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 bulletins 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. For the 31 largest survey areas, tables A-8 through A-13 provide similar data for establishments employing 500 workers or more.

Table A-7 provides percent changes in average hourly earnings of 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.

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 economists to classify workers by occupation.

A. Earnings

Table A-1. Weekly earnings of office workers in Newark, N.J., January 1977

Occupation and industry division	Number of workers	Average weekly hours ¹ (standard)	Weekly earnings ¹ (standard)			Number of workers receiving straight-time weekly earnings of—																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
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See footnotes at end of tables.

Table A-1. Weekly earnings of office workers in Newark, N.J., January 1977—Continued

Occupation and industry division	Number of worken	Average weekly hour ¹ (standard)	Weekly earnings ¹ (standard)			Number of workers receiving straight-time weekly earnings of—																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
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See footnotes at end of tables.

Table A-1. Weekly earnings of office workers in Newark, N.J., January 1977—Continued

Occupation and industry division	Number of workers	Average weekly hours ¹ (standard)	Weekly earnings ¹ (standard)			Number of workers receiving straight-time weekly earnings of—																							
			Mean ²	Median ²	Middle range ²	\$ 90	\$ 100	\$ 110	\$ 120	\$ 130	\$ 140	\$ 150	\$ 160	\$ 170	\$ 180	\$ 190	\$ 200	\$ 210	\$ 220	\$ 230	\$ 240	\$ 260	\$ 280	\$ 300	\$ 320	\$ 340			
						and under	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
						100	110	120	130	140	150	160	170	180	190	200	210	220	230	240	260	280	300	320	340	over			
ALL WORKERS-- CONTINUED																													
SWITCHBOARD OPERATORS -----	331	38.5	\$ 164.50	\$ 152.00	\$ 125.00-196.00	-	19	4	76	27	25	29	23	26	3	19	6	22	1	33	11	6	1	-	-	-	-		
MANUFACTURING -----	80	39.0	174.50	166.00	150.00-194.50	-	-	2	-	11	5	16	8	14	2	3	5	2	-	8	2	1	1	-	-	-	-		
NONMANUFACTURING -----	251	38.5	161.50	146.50	121.00-196.00	-	19	2	76	16	20	13	15	12	1	16	1	20	1	25	9	5	-	-	-	-	-		
FINANCE -----	109	37.0	135.50	124.00	120.00-146.50	-	15	-	41	9	19	6	8	4	1	5	1	-	-	-	-	-	-	-	-	-	-		
SWITCHBOARD OPERATOR-RECEPTIONISTS-	546	37.5	155.50	155.00	135.00-172.50	-	-	53	45	50	58	91	98	72	27	36	2	6	3	-	4	1	-	-	-	-	-		
MANUFACTURING -----	322	37.5	157.00	159.00	141.00-172.50	-	-	14	21	37	46	43	64	70	10	10	-	-	3	-	4	-	-	-	-	-	-		
NONMANUFACTURING -----	224	37.5	153.50	153.00	127.50-167.00	-	-	39	24	13	12	48	34	2	17	26	2	6	-	-	-	1	-	-	-	-	-		
WHOLESALE TRADE -----	81	37.5	167.00	158.00	152.50-191.00	-	-	-	5	7	-	32	7	1	7	15	-	6	-	-	-	1	-	-	-	-	-		
FINANCE -----	67	37.5	137.00	120.00	116.00-160.00	-	-	33	9	-	-	6	10	1	4	4	-	-	-	-	-	-	-	-	-	-	-		
SERVICES -----	61	36.5	154.50	155.00	135.00-164.00	-	-	5	7	5	12	6	13	-	6	7	-	-	-	-	-	-	-	-	-	-	-		
ORDER CLERKS -----	442	38.0	165.00	160.50	132.00-185.00	-	62	28	12	34	35	38	58	48	27	27	25	4	4	-	-	22	-	18	-	-	-		
MANUFACTURING -----	263	38.0	172.50	168.00	144.00-191.00	-	-	-	4	33	34	26	36	36	25	21	25	4	4	-	-	15	-	-	-	-	-		
NONMANUFACTURING -----	179	38.5	154.50	117.00	108.00-169.00	-	62	28	8	1	12	22	12	2	6	-	-	-	-	-	-	7	-	18	-	-	-		
WHOLESALE TRADE -----	166	38.5	157.00	113.00	108.00-172.00	-	60	27	-	-	-	12	22	12	2	6	-	-	-	-	-	7	-	18	-	-	-		
ACCOUNTING CLERKS -----	2,291	38.0	178.00	165.00	144.00-203.50	-	17	46	158	222	265	265	284	198	73	140	189	58	34	44	115	70	62	44	2	5	-		
MANUFACTURING -----	1,116	38.0	171.50	165.00	147.00-191.00	-	2	5	41	114	150	166	170	124	47	76	84	35	23	17	38	10	10	4	-	-	-		
NONMANUFACTURING -----	1,175	37.5	184.50	168.00	140.00-210.00	-	15	41	117	108	115	99	114	74	26	64	105	23	11	27	77	60	52	40	2	5	-		
PUBLIC UTILITIES -----	278	38.0	231.50	223.00	207.50-273.00	-	-	-	3	3	1	6	-	11	5	9	98	1	4	10	38	42	45	2	-	-	-		
WHOLESALE TRADE -----	231	38.0	205.00	190.00	153.00-250.00	-	1	4	3	10	35	18	26	14	1	21	-	10	2	12	23	15	7	29	-	-	-		
RETAIL TRADE -----	58	38.5	157.00	153.00	139.00-172.00	-	2	2	3	9	6	13	6	7	3	3	2	1	-	1	-	-	-	-	-	-	-		
FINANCE -----	444	36.5	147.00	141.00	128.00-165.00	-	12	34	88	78	61	37	53	36	16	11	1	5	4	4	4	-	-	-	-	-	-		
SERVICES -----	164	39.0	186.50	167.00	149.50-201.50	-	-	1	20	8	12	25	29	6	1	20	4	6	1	-	12	3	-	9	2	5	-		
ACCOUNTING CLERKS, CLASS A -----	940	38.0	195.00	183.00	164.00-219.50	-	-	3	27	49	78	44	139	121	39	90	66	49	20	29	74	51	10	44	2	5	-		
MANUFACTURING -----	557	38.0	185.00	176.50	162.00-202.00	-	-	-	9	44	54	20	79	86	21	71	61	29	11	12	38	9	9	4	-	-	-		
NONMANUFACTURING -----	383	38.0	210.00	192.00	165.00-256.00	-	-	3	18	5	24	24	60	35	18	19	5	20	9	17	36	42	1	40	2	5	-		
WHOLESALE TRADE -----	78	38.5	253.00	251.50	211.50-312.00	-	-	-	-	2	2	6	2	-	-	-	-	8	-	6	16	4	1	29	-	-	-		
FINANCE -----	139	36.0	168.50	165.00	147.00-181.50	-	-	3	17	-	16	11	34	20	14	7	1	4	4	4	4	-	-	-	-	-	-		
SERVICES -----	70	39.5	231.00	215.00	170.50-275.50	-	-	-	-	-	1	-	16	6	1	6	2	6	1	-	12	3	-	9	2	5	-		
ACCOUNTING CLERKS, CLASS B -----	1,351	37.5	166.00	155.00	138.00-182.50	-	17	43	131	173	187	221	145	77	34	50	123	9	14	15	41	19	52	-	-	-	-		
MANUFACTURING -----	559	38.0	157.50	155.00	140.00-166.50	-	2	5	32	70	96	146	91	38	26	5	23	6	12	5	-	1	1	-	-	-	-		
NONMANUFACTURING -----	792	37.5	172.00	155.50	132.50-207.50	-	15	38	99	103	91	75	54	39	8	45	100	3	2	10	41	18	51	-	-	-	-		
PUBLIC UTILITIES -----	223	37.5	224.50	207.50	207.50-251.00	-	-	-	3	3	1	6	-	11	5	6	98	-	-	4	34	7	45	-	-	-	-		
WHOLESALE TRADE -----	153	38.0	180.50	165.00	146.00-195.50	-	1	4	3	8	33	16	20	12	1	21	-	2	2	6	7	11	6	-	-	-	-		
FINANCE -----	305	36.5	137.50	133.00	125.00-144.00	-	12	31	71	78	45	26	19	16	2	4	-	1	-	-	-	-	-	-	-	-	-		
SERVICES -----	94	38.5	153.00	152.00	130.00-165.00	-	-	1	20	8	11	25	13	-	-	14	2	-	-	-	-	-	-	-	-	-	-		
BOOKKEEPING-MACHINE OPERATORS -----	160	36.5	144.00	145.50	114.50-165.00	-	26	32	11	-	16	-	44	11	8	1	-	11	-	-	-	-	-	-	-	-	-		
NONMANUFACTURING -----	115	36.5	137.00	115.50	112.00-161.00	-	26	32	6	-	16	-	8	8	-	-	-	11	-	-	-	-	-	-	-	-	-		
FINANCE -----	59	36.5	116.50	114.50	100.00-115.50	-	26	19	1	-	7	-	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
BOOKKEEPING-MACHINE OPERATORS, CLASS B -----	147	36.5	139.50	140.00	114.00-165.00	-	26	32	11	-	14	-	44	8	8	-	-	4	-	-	-	-	-	-	-	-	-		
NONMANUFACTURING -----	106	36.5	132.00	115.50	112.00-161.00	-	26	32	6	-	14	-	8	8	8	-	-	4	-	-	-	-	-	-	-	-	-		
FINANCE -----	59	36.5	116.50	114.50	100.00-115.50	-	26	19	1	-	7	-	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
MACHINE BILLERS -----	90	37.5	168.50	155.00	135.00-205.00	-	4	5	6	12	14	12	7	-	6	-	12	-	-	4	-	4	-	4	-	-	-		

See footnotes at end of tables.

Table A-1. Weekly earnings of office workers in Newark, N.J., January 1977—Continued

Occupation and industry division	Number of workers	Average weekly hours ¹ (standard)	Weekly earnings ¹ (standard)			Number of workers receiving straight-time weekly earnings of—																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
			Mean ²	Median ²	Middle range ²	\$ 90 and under	\$ 100	\$ 110	\$ 120	\$ 130	\$ 140	\$ 150	\$ 160	\$ 170	\$ 180	\$ 190	\$ 200	\$ 210	\$ 220	\$ 230	\$ 240	\$ 260	\$ 280	\$ 300	\$ 320	\$ 340	\$ 360	\$ 380	\$ 400	\$ 420	\$ 440	\$ 460	\$ 480	\$ 500	\$ 520	\$ 540	\$ 560	\$ 580	\$ 600	\$ 620	\$ 640	\$ 660	\$ 680	\$ 700	\$ 720	\$ 740	\$ 760	\$ 780	\$ 800	\$ 820	\$ 840	\$ 860	\$ 880	\$ 900	\$ 920	\$ 940	\$ 960	\$ 980	\$ 1,000	\$ 1,020	\$ 1,040	\$ 1,060	\$ 1,080	\$ 1,100	\$ 1,120	\$ 1,140	\$ 1,160	\$ 1,180	\$ 1,200	\$ 1,220	\$ 1,240	\$ 1,260	\$ 1,280	\$ 1,300	\$ 1,320	\$ 1,340	\$ 1,360	\$ 1,380	\$ 1,400	\$ 1,420	\$ 1,440	\$ 1,460	\$ 1,480	\$ 1,500	\$ 1,520	\$ 1,540	\$ 1,560	\$ 1,580	\$ 1,600	\$ 1,620	\$ 1,640	\$ 1,660	\$ 1,680	\$ 1,700	\$ 1,720	\$ 1,740	\$ 1,760	\$ 1,780	\$ 1,800	\$ 1,820	\$ 1,840	\$ 1,860	\$ 1,880	\$ 1,900	\$ 1,920	\$ 1,940	\$ 1,960	\$ 1,980	\$ 2,000	\$ 2,020	\$ 2,040	\$ 2,060	\$ 2,080	\$ 2,100	\$ 2,120	\$ 2,140	\$ 2,160	\$ 2,180	\$ 2,200	\$ 2,220	\$ 2,240	\$ 2,260	\$ 2,280	\$ 2,300	\$ 2,320	\$ 2,340	\$ 2,360	\$ 2,380	\$ 2,400	\$ 2,420	\$ 2,440	\$ 2,460	\$ 2,480	\$ 2,500	\$ 2,520	\$ 2,540	\$ 2,560	\$ 2,580	\$ 2,600	\$ 2,620	\$ 2,640	\$ 2,660	\$ 2,680	\$ 2,700	\$ 2,720	\$ 2,740	\$ 2,760	\$ 2,780	\$ 2,800	\$ 2,820	\$ 2,840	\$ 2,860	\$ 2,880	\$ 2,900	\$ 2,920	\$ 2,940	\$ 2,960	\$ 2,980	\$ 3,000	\$ 3,020	\$ 3,040	\$ 3,060	\$ 3,080	\$ 3,100	\$ 3,120	\$ 3,140	\$ 3,160	\$ 3,180	\$ 3,200	\$ 3,220	\$ 3,240	\$ 3,260	\$ 3,280	\$ 3,300	\$ 3,320	\$ 3,340	\$ 3,360	\$ 3,380	\$ 3,400	\$ 3,420	\$ 3,440	\$ 3,460	\$ 3,480	\$ 3,500	\$ 3,520	\$ 3,540	\$ 3,560	\$ 3,580	\$ 3,600	\$ 3,620	\$ 3,640	\$ 3,660	\$ 3,680	\$ 3,700	\$ 3,720	\$ 3,740	\$ 3,760	\$ 3,780	\$ 3,800	\$ 3,820	\$ 3,840	\$ 3,860	\$ 3,880	\$ 3,900	\$ 3,920	\$ 3,940	\$ 3,960	\$ 3,980	\$ 4,000	\$ 4,020	\$ 4,040	\$ 4,060	\$ 4,080	\$ 4,100	\$ 4,120	\$ 4,140	\$ 4,160	\$ 4,180	\$ 4,200	\$ 4,220	\$ 4,240	\$ 4,260	\$ 4,280	\$ 4,300	\$ 4,320	\$ 4,340	\$ 4,360	\$ 4,380	\$ 4,400	\$ 4,420	\$ 4,440	\$ 4,460	\$ 4,480	\$ 4,500	\$ 4,520	\$ 4,540	\$ 4,560	\$ 4,580	\$ 4,600	\$ 4,620	\$ 4,640	\$ 4,660	\$ 4,680	\$ 4,700	\$ 4,720	\$ 4,740	\$ 4,760	\$ 4,780	\$ 4,800	\$ 4,820	\$ 4,840	\$ 4,860	\$ 4,880	\$ 4,900	\$ 4,920	\$ 4,940	\$ 4,960	\$ 4,980	\$ 5,000	\$ 5,020	\$ 5,040	\$ 5,060	\$ 5,080	\$ 5,100	\$ 5,120	\$ 5,140	\$ 5,160	\$ 5,180	\$ 5,200	\$ 5,220	\$ 5,240	\$ 5,260	\$ 5,280	\$ 5,300	\$ 5,320	\$ 5,340	\$ 5,360	\$ 5,380	\$ 5,400	\$ 5,420	\$ 5,440	\$ 5,460	\$ 5,480	\$ 5,500	\$ 5,520	\$ 5,540	\$ 5,560	\$ 5,580	\$ 5,600	\$ 5,620	\$ 5,640	\$ 5,660	\$ 5,680	\$ 5,700	\$ 5,720	\$ 5,740	\$ 5,760	\$ 5,780	\$ 5,800	\$ 5,820	\$ 5,840	\$ 5,860	\$ 5,880	\$ 5,900	\$ 5,920	\$ 5,940	\$ 5,960	\$ 5,980	\$ 6,000	\$ 6,020	\$ 6,040	\$ 6,060	\$ 6,080	\$ 6,100	\$ 6,120	\$ 6,140	\$ 6,160	\$ 6,180	\$ 6,200	\$ 6,220	\$ 6,240	\$ 6,260	\$ 6,280	\$ 6,300	\$ 6,320	\$ 6,340	\$ 6,360	\$ 6,380	\$ 6,400	\$ 6,420	\$ 6,440	\$ 6,460	\$ 6,480	\$ 6,500	\$ 6,520	\$ 6,540	\$ 6,560	\$ 6,580	\$ 6,600	\$ 6,620	\$ 6,640	\$ 6,660	\$ 6,680	\$ 6,700	\$ 6,720	\$ 6,740	\$ 6,760	\$ 6,780	\$ 6,800	\$ 6,820	\$ 6,840	\$ 6,860	\$ 6,880	\$ 6,900	\$ 6,920	\$ 6,940	\$ 6,960	\$ 6,980	\$ 7,000	\$ 7,020	\$ 7,040	\$ 7,060	\$ 7,080	\$ 7,100	\$ 7,120	\$ 7,140	\$ 7,160	\$ 7,180	\$ 7,200	\$ 7,220	\$ 7,240	\$ 7,260	\$ 7,280	\$ 7,300	\$ 7,320	\$ 7,340	\$ 7,360	\$ 7,380	\$ 7,400	\$ 7,420	\$ 7,440	\$ 7,460	\$ 7,480	\$ 7,500	\$ 7,520	\$ 7,540	\$ 7,560	\$ 7,580	\$ 7,600	\$ 7,620	\$ 7,640	\$ 7,660	\$ 7,680	\$ 7,700	\$ 7,720	\$ 7,740	\$ 7,760	\$ 7,780	\$ 7,800	\$ 7,820	\$ 7,840	\$ 7,860	\$ 7,880	\$ 7,900	\$ 7,920	\$ 7,940	\$ 7,960	\$ 7,980	\$ 8,000	\$ 8,020	\$ 8,040	\$ 8,060	\$ 8,080	\$ 8,100	\$ 8,120	\$ 8,140	\$ 8,160	\$ 8,180	\$ 8,200	\$ 8,220	\$ 8,240	\$ 8,260	\$ 8,280	\$ 8,300	\$ 8,320	\$ 8,340	\$ 8,360	\$ 8,380	\$ 8,400	\$ 8,420	\$ 8,440	\$ 8,460	\$ 8,480	\$ 8,500	\$ 8,520	\$ 8,540	\$ 8,560	\$ 8,580	\$ 8,600	\$ 8,620	\$ 8,640	\$ 8,660	\$ 8,680	\$ 8,700	\$ 8,720	\$ 8,740	\$ 8,760	\$ 8,780	\$ 8,800	\$ 8,820	\$ 8,840	\$ 8,860	\$ 8,880	\$ 8,900	\$ 8,920	\$ 8,940	\$ 8,960	\$ 8,980	\$ 9,000	\$ 9,020	\$ 9,040	\$ 9,060	\$ 9,080	\$ 9,100	\$ 9,120	\$ 9,140	\$ 9,160	\$ 9,180	\$ 9,200	\$ 9,220	\$ 9,240	\$ 9,260	\$ 9,280	\$ 9,300	\$ 9,320	\$ 9,340	\$ 9,360	\$ 9,380	\$ 9,400	\$ 9,420	\$ 9,440	\$ 9,460	\$ 9,480	\$ 9,500	\$ 9,520	\$ 9,540	\$ 9,560	\$ 9,580	\$ 9,600	\$ 9,620	\$ 9,640	\$ 9,660	\$ 9,680	\$ 9,700	\$ 9,720	\$ 9,740	\$ 9,760	\$ 9,780	\$ 9,800	\$ 9,820	\$ 9,840	\$ 9,860	\$ 9,880	\$ 9,900	\$ 9,920	\$ 9,940	\$ 9,960	\$ 9,980	\$ 10,000	\$ 10,020	\$ 10,040	\$ 10,060	\$ 10,080	\$ 10,100	\$ 10,120	\$ 10,140	\$ 10,160	\$ 10,180	\$ 10,200	\$ 10,220	\$ 10,240	\$ 10,260	\$ 10,280	\$ 10,300	\$ 10,320	\$ 10,340	\$ 10,360	\$ 10,380	\$ 10,400	\$ 10,420	\$ 10,440	\$ 10,460	\$ 10,480	\$ 10,500	\$ 10,520	\$ 10,540	\$ 10,560	\$ 10,580	\$ 10,600	\$ 10,620	\$ 10,640	\$ 10,660	\$ 10,680	\$ 10,700	\$ 10,720	\$ 10,740	\$ 10,760	\$ 10,780	\$ 10,800	\$ 10,820	\$ 10,840	\$ 10,860	\$ 10,880	\$ 10,900	\$ 10,920	\$ 10,940	\$ 10,960	\$ 10,980	\$ 11,000	\$ 11,020	\$ 11,040	\$ 11,060	\$ 11,080	\$ 11,100	\$ 11,120	\$ 11,140	\$ 11,160	\$ 11,180	\$ 11,200	\$ 11,220	\$ 11,240	\$ 11,260	\$ 11,280	\$ 11,300	\$ 11,320	\$ 11,340	\$ 11,360	\$ 11,380	\$ 11,400	\$ 11,420	\$ 11,440	\$ 11,460	\$ 11,480	\$ 11,500	\$ 11,520	\$ 11,540	\$ 11,560	\$ 11,580	\$ 11,600	\$ 11,620	\$ 11,640	\$ 11,660	\$ 11,680	\$ 11,700	\$ 11,720	\$ 11,740	\$ 11,760	\$ 11,780	\$ 11,800	\$ 11,820	\$ 11,840	\$ 11,860	\$ 11,880	\$ 11,900	\$ 11,920	\$ 11,940	\$ 11,960	\$ 11,980	\$ 12,000	\$ 12,020	\$ 12,040	\$ 12,060	\$ 12,080	\$ 12,100	\$ 12,120	\$ 12,140	\$ 12,160	\$ 12,180	\$ 12,200	\$ 12,220	\$ 12,240	\$ 12,260	\$ 12,280	\$ 12,300	\$ 12,320	\$ 12,340	\$ 12,360	\$ 12,380	\$ 12,400	\$ 12,420	\$ 12,440	\$ 12,460	\$ 12,480	\$ 12,500	\$ 12,520	\$ 12,540	\$ 12,560	\$ 12,580	\$ 12,600	\$ 12,620	\$ 12,640	\$ 12,660	\$ 12,680	\$ 12,700	\$ 12,720	\$ 12,740	\$ 12,760	\$ 12,780	\$ 12,800	\$ 12,820	\$ 12,840	\$ 12,860	\$ 12,880	\$ 12,900	\$ 12,920	\$ 12,940	\$ 12,960	\$ 12,980	\$ 13,000	\$ 13,020	\$ 13,040	\$ 13,060	\$ 13,080	\$ 13,100	\$ 13,120	\$ 13,140	\$ 13,160	\$ 13,180	\$ 13,200	\$ 13,220	\$ 13,240	\$ 13,260	\$ 13,280	\$ 13,300	\$ 13,320	\$ 13,340	\$ 13,360	\$ 13,380	\$ 13,400	\$ 13,420	\$ 13,440	\$ 13,460	\$ 13,480	\$ 13,500	\$ 13,520	\$ 13,540	\$ 13,560	\$ 13,580	\$ 13,600	\$ 13,620	\$ 13,640	\$ 13,660	\$ 13,680	\$ 13,700	\$ 13,720	\$ 13,740	\$ 13,760	\$ 13,780	\$ 13,800	\$ 13,820	\$ 13,840	\$ 13,860	\$ 13,880	\$ 13,900	\$ 13,920	\$ 13,940	\$ 13,960	\$ 13,980	\$ 14,000	\$ 14,020	\$ 14,040	\$ 14,060	\$ 14,080	\$ 14,100	\$ 14,120	\$ 14,140	\$ 14,160	\$ 14,180	\$ 14,200	\$ 14,220	\$ 14,240	\$ 14,260	\$ 14,280	\$ 14,300	\$ 14,320	\$ 14,340	\$ 14,360	\$ 14,380	\$ 14,400	\$ 14,420	\$ 14,440	\$ 14,460	\$ 14,480	\$ 14,500	\$ 14,520	\$ 14,540	\$ 14,560	\$ 14,580	\$ 14,600	\$ 14,620	\$ 14,640	\$ 14,660	\$ 14,680	\$ 14,700	\$ 14,720	\$ 14,740	\$ 14,760	\$ 14,780	\$ 14,800	\$ 14,820	\$ 14,840	\$ 14,860	\$ 14,880	\$ 14,900	\$ 14,920	\$ 14,940	\$ 14,960	\$ 14,980	\$ 15,000	\$ 15,020	\$ 15,040	\$ 15,060	\$ 15,080	\$ 15,100	\$ 15,120	\$ 15,140	\$ 15,160	\$ 15,180	\$ 15,200	\$ 15,220	\$ 15,240	\$ 15,260	\$ 15,280	\$ 15,300	\$ 15,320	\$ 15,340	\$ 15,360	\$ 15,380	\$ 15,400	\$ 15,420	\$ 15,440	\$ 15,460	\$ 15,480	\$ 15,500	\$ 15,520	\$ 15,540	\$ 15,560	\$ 15,580	\$ 15,600	\$ 15,620	\$ 15,640	\$ 15,660	\$ 15,680	\$ 15,700	\$ 15,720	\$ 15,740	\$ 15,760	\$ 15,780	\$ 15,800	\$ 15,820	\$ 15,840	\$ 15,860	\$ 15,880	\$ 15,900	\$ 15,920	\$ 15,940	\$ 15,960	\$ 15,980	\$ 16,000	\$ 16,020	\$ 16,040	\$ 16,060	\$ 16,080	\$ 16,100	\$ 16,120	\$ 16,140	\$ 16,160	\$ 16,180	\$ 16,200	\$ 16,220	\$ 16,240	\$ 16,260	\$ 16,280	\$ 16,300	\$ 16,320	\$ 16,340	\$ 16,360	\$ 16,380	\$ 16,400	\$ 16,420	\$ 16,440	\$ 16,460	\$ 16,480	\$ 16,500	\$ 16,520	\$ 16,540	\$ 16,560	\$ 16,580	\$ 16,600	\$ 16,620	\$ 16,640	\$ 16,660	\$ 16,680	\$ 16,700	\$ 16,720	\$ 16,740	\$ 16,760	\$ 16,780	\$ 16,800	\$ 16,820	\$ 16,840	\$ 16,860	\$ 16,880	\$ 16,900	\$ 16,920	\$ 16,940	\$ 16,960	\$ 16,980	\$ 17,000	\$ 17,020	\$ 17,040	\$ 17,060	\$ 17,080	\$ 17,100	\$ 17,120	\$ 17,140	\$ 17,160	\$ 17,180	\$ 17,200	\$ 17,220	\$ 17,240	\$ 17,260	\$ 17,280	\$ 17,300	\$ 17,320	\$ 17,340	\$ 17,360	\$ 17,380	\$ 17,400	\$ 17,420	\$ 17,440	\$ 17,460	\$ 17,480	\$ 17,500	\$ 17,520	\$ 17,540	\$ 17,560	\$ 17,580	\$ 17,600	\$ 17,620	\$ 17,640	\$ 17,660	\$ 17,680	\$ 17,700	\$ 17,720	\$ 17,740	\$ 17,760	\$ 17,780	\$ 17,800	\$ 17,820	\$ 17,840	\$ 17,860	\$ 17,880	\$ 17,900	\$ 17,920	\$ 17,940	\$ 17,960	\$ 17,980	\$ 18,000	\$ 18,020	\$ 18,040	\$ 18,060	\$ 18,080	\$ 18,100	\$ 18,120	\$ 18,140	\$ 18,160	\$ 18,180	\$ 18,200	\$ 18,220	\$ 18,240	\$ 18,260	\$ 18,280	\$ 18,300	\$ 18,320	\$ 18,340	\$ 18,360	\$ 18,380	\$ 18,400	\$ 18,420	\$ 18,440	\$ 18,460	\$ 18,480	\$ 18,500	\$ 18,520	\$ 18,540	\$ 18,560	\$ 18,580	\$ 18,600	\$ 18,620	\$ 18,640	\$ 18,660	\$ 18,680	\$ 18,700	\$ 18,720	\$ 18,740	\$ 18,760	\$ 18,780	\$ 18,800	\$ 18,820	\$ 18,840	\$ 18,860	\$ 18,880	\$ 18,900	\$ 18,920	\$ 18,940	\$ 18,960	\$ 18,980	\$ 19,000	\$ 19,020	\$ 19,040	\$ 19,060	\$ 19,080	\$ 19,100	\$ 19,120	\$ 19,140	\$ 19,160	\$ 19,180	\$ 19,200	\$ 19,220	\$ 19,240	\$ 19,260	\$ 19,280	\$ 19,300	\$ 19,320	\$ 19,340	\$ 19,360	\$ 19,380	\$ 19,400	\$ 19,420	\$ 19,440	\$ 19,460	\$ 19,480	\$ 19,500	\$ 19,520	\$ 19,540	\$ 19,560	\$ 19,580	\$ 19,600	\$ 19,620	\$ 19,640	\$ 19,660	\$ 19,680	\$ 19,700	\$ 19,720	\$ 19,740	\$ 19,760	\$ 19,780	\$ 19,800	\$ 19,820	\$ 19,840	\$ 19,860	\$ 19,880	\$ 19,900	\$ 19,920	\$ 19,940	\$ 19,960	\$ 19,980	\$ 20,000	\$ 20,020	\$ 20,040	\$ 20,060	\$ 20,080	\$ 20,100	\$ 20,120	\$ 20,140	\$ 20,160	\$ 20,180	\$ 20,200	\$ 20,220	\$ 20,240	\$ 20,260	\$ 20,280	\$ 20,300	\$ 20,320	\$ 20,340	\$ 20,360	\$ 20,380	\$ 20,400	\$ 20,420	\$ 20,440	\$ 20,460	\$ 20,480	\$ 20,500	\$ 20,520	\$ 20,540	\$ 20,560	\$ 20,580	\$ 20,600	\$ 20,620	\$ 20,640	\$ 20,660	\$ 20,680	\$ 20,700	\$ 20,720	\$ 20,740	\$ 20,760	\$ 20,780	\$ 20,800	\$ 20,820	\$ 20,840	\$ 20,860	\$ 20,880	\$ 20,900	\$ 20,920	\$ 20,940	\$ 20,960	\$ 20,980	\$ 21,000	\$ 21,020	\$ 21,040	\$ 21,060	\$ 21,080	\$ 21,100	\$ 21,120	\$ 21,140	\$ 21,160	\$ 21,180	\$ 21,200	\$ 21,220	\$ 21,240	\$ 21,260	\$ 21,280	\$ 21,300	\$ 21,320	\$

See footnotes at end of tables.

Table A-2. Weekly earnings of professional and technical workers in Newark, N.J., January 1977

Occupation and industry division	Number of workers	Average weekly hours ¹ (standard)	Weekly earnings ¹ (standard)			Number of workers receiving straight-time weekly earnings of—																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
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						Under \$140	140	150	160	170	180	190	200	220	240	260	280	300	320	340	360	380	400	440	480	520	and over																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
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See footnotes at end of tables.

Table A-2. Weekly earnings of professional and technical workers in Newark, N.J., January 1977—Continued

Occupation and industry division	Number of workers	Average weekly hours ¹ (standard)	Weekly earnings ¹ (standard)			Number of workers receiving straight-time weekly earnings of—																					
			Mean ²	Median ²	Middle range ²																						
						Under \$ 140	\$ 140	\$ 150	\$ 160	\$ 170	\$ 180	\$ 190	\$ 200	\$ 220	\$ 240	\$ 260	\$ 280	\$ 300	\$ 320	\$ 340	\$ 360	\$ 380	\$ 400	\$ 440	\$ 480	\$ 520	
						Under \$ 140	140	150	160	170	180	190	200	220	240	260	280	300	320	340	360	380	400	440	480	520	over
ALL WORKERS-- CONTINUED																											
COMPUTER OPERATORS - CONTINUED																											
COMPUTER OPERATORS, CLASS A -----	253	37.5	\$242.50	\$232.00	\$211.00-270.00	-	-	-	-	4	5	19	52	69	37	20	21	10	8	2	6	-	-	-	-	-	
MANUFACTURING -----	70	39.0	232.50	231.00	210.00-237.00	-	-	-	-	-	1	8	11	35	5	6	1	1	1	1	-	-	-	-	-		
NONMANUFACTURING -----	183	37.0	246.50	234.50	212.50-275.50	-	-	-	-	4	4	11	41	34	32	14	20	9	7	1	6	-	-	-	-		
FINANCE -----	107	36.5	225.50	223.50	205.50-240.00	-	-	-	-	4	4	10	33	29	14	5	6	2	-	-	-	-	-	-	-		
COMPUTER OPERATORS, CLASS B -----	527	37.5	225.50	219.00	189.50-243.50	8	7	9	24	25	59	60	81	116	35	45	13	10	8	1	9	2	15	-	-		
MANUFACTURING -----	141	39.5	215.00	210.00	185.00-228.00	-	-	2	6	6	22	20	39	23	6	11	2	-	-	1	1	2	-	-	-		
NONMANUFACTURING -----	386	37.0	229.50	225.50	190.50-254.00	8	7	7	18	19	37	40	42	93	29	34	11	10	8	-	8	-	15	-	-		
WHOLESALE TRADE -----	72	38.5	303.50	303.00	250.00-371.50	-	-	-	-	1	11	-	2	1	10	9	-	7	8	-	8	-	15	-	-		
FINANCE -----	157	37.0	188.00	188.50	169.50-201.50	8	7	7	18	15	26	32	31	8	1	4	-	-	-	-	-	-	-	-	-		
COMPUTER OPERATORS, CLASS C -----	176	38.0	190.00	175.50	160.00-209.50	11	10	23	21	24	22	14	18	10	3	8	12	-	-	-	-	-	-	-	-		
NONMANUFACTURING -----	140	37.5	190.50	175.50	159.50-209.50	9	10	21	17	16	13	14	11	8	1	8	12	-	-	-	-	-	-	-	-		
FINANCE -----	68	36.0	160.50	162.50	149.50-175.50	*9	10	14	13	10	8	4	-	-	-	-	-	-	-	-	-	-	-	-	-		
DRAFTERS -----	1,147	38.5	259.00	255.00	214.50-306.50	18	7	26	43	24	35	38	139	141	117	150	75	132	72	63	24	27	13	3	-		
MANUFACTURING -----	592	39.0	240.50	240.50	202.00-275.00	6	7	25	41	11	25	31	68	76	86	80	45	48	15	22	1	1	1	3	-		
NONMANUFACTURING -----	555	38.0	279.00	276.00	222.50-325.50	12	-	1	2	13	10	7	71	65	31	70	30	84	57	41	23	26	12	-	-		
SERVICES -----	343	39.0	259.50	264.00	220.00-306.50	12	-	1	2	13	7	7	41	49	21	58	23	48	36	25	-	-	-	-	-		
DRAFTERS, CLASS A -----	373	38.5	299.50	290.00	258.00-344.00	-	-	-	-	-	-	2	15	34	46	70	38	47	19	47	13	26	13	3	-		
MANUFACTURING -----	232	39.5	282.00	275.00	254.00-304.50	-	-	-	-	-	-	2	9	22	46	48	34	34	10	22	1	-	1	3	-		
NONMANUFACTURING -----	141	37.5	328.00	344.00	269.00-382.00	-	-	-	-	-	-	-	6	12	-	22	4	13	9	25	12	26	12	-	-		
DRAFTERS, CLASS B -----	533	38.5	259.00	252.00	216.50-307.00	-	-	-	10	12	11	18	87	83	61	54	34	82	53	16	11	1	-	-	-		
MANUFACTURING -----	214	39.5	236.00	231.00	205.00-257.50	-	-	-	10	-	4	12	51	44	40	22	11	14	5	-	-	1	-	-	-		
NONMANUFACTURING -----	319	38.0	274.50	286.50	222.50-313.50	-	-	-	-	12	7	6	36	39	21	32	23	68	48	16	11	-	-	-	-		
PUBLIC UTILITIES -----	79	37.0	320.00	313.50	310.00-351.00	-	-	-	-	-	-	-	-	9	-	-	-	32	12	15	11	-	-	-	-		
SERVICES -----	227	38.5	260.00	267.00	216.50-306.00	-	-	-	-	12	7	6	34	29	17	26	23	36	36	1	-	-	-	-	-		
DRAFTERS, CLASS C -----	230	38.5	198.50	190.00	165.50-230.00	12	7	25	33	12	24	17	36	22	10	26	3	3	-	-	-	-	-	-	-		
MANUFACTURING -----	136	38.5	182.00	170.00	160.00-190.00	-	7	25	31	11	21	16	7	8	-	10	-	-	-	-	-	-	-	-	-		
NONMANUFACTURING -----	94	38.0	222.50	218.50	217.50-256.50	**12	-	-	2	1	3	1	29	14	10	16	3	3	-	-	-	-	-	-	-		
ELECTRONICS TECHNICIANS -----	665	39.5	235.00	228.00	195.50-256.00	-	-	-	-	95	38	42	130	121	88	34	8	10	74	12	13	-	-	-	-		
MANUFACTURING -----	531	39.5	217.50	215.00	190.00-235.50	-	-	-	-	93	38	40	116	117	84	31	5	5	-	-	2	-	-	-	-		
ELECTRONICS TECHNICIANS, CLASS A-----	163	39.5	262.00	252.00	234.50-263.00	-	-	-	-	-	-	-	6	49	58	26	4	2	-	6	12	-	-	-	-		
MANUFACTURING -----	132	39.5	251.00	250.00	234.50-259.00	-	-	-	-	-	-	-	2	45	54	24	4	2	-	-	1	-	-	-	-		
ELECTRONICS TECHNICIANS, CLASS B-----	309	39.5	250.00	229.50	214.00-321.00	-	-	-	-	-	18	18	95	72	30	8	3	2	74	6	1	-	-	-	-		
MANUFACTURING -----	214	39.5	224.50	220.00	208.50-235.50	-	-	-	-	-	18	18	85	72	30	7	-	1	-	-	1	-	-	-	-		
REGISTERED INDUSTRIAL NURSES -----	177	38.5	246.50	247.00	223.50-264.50	-	-	1	-	2	2	14	21	38	45	20	12	18	2	2	-	-	-	-	-		
MANUFACTURING -----	138	39.0	243.00	242.50	217.00-263.00	-	-	-	2	-	14	14	20	31	34	16	6	12	1	2	-	-	-	-	-		

* Workers were distributed as follows: 6 at \$120 to \$130; and 3 at \$130 to \$140.

** Workers were distributed as follows: 6 at \$120 to \$130; and 6 at \$130 to \$140.

See footnotes at end of tables.

Table A-3. Average weekly earnings of office, professional, and technical workers, by sex, in Newark, N.J., January 1977

Sex, ³ occupation, and industry division	Number of workers	Average (mean ²)		Sex, ³ occupation, and industry division	Number of workers	Average (mean ²)		Sex, ³ occupation, and industry division	Number of workers	Average (mean ²)					
		Weekly hours ¹ (standard)	Weekly earnings ¹ (standard)			Weekly hours ¹ (standard)	Weekly earnings ¹ (standard)			Weekly hours ¹ (standard)	Weekly earnings ¹ (standard)				
OFFICE OCCUPATIONS - MEN				OFFICE OCCUPATIONS - WOMEN--CONTINUED				OFFICE OCCUPATIONS - WOMEN--CONTINUED							
MESSENGERS -----	210	38.0	\$ 148.50	SECRETARIES - CONTINUED				FILE CLERKS - CONTINUED							
MANUFACTURING -----	74	39.0	152.50					FILE CLERKS, CLASS A -----							
NONMANUFACTURING -----	136	37.0	146.50									NONMANUFACTURING -----			
FINANCE -----	67	36.0	118.50												
ORDER CLERKS -----	87	39.0	205.50	SECRETARIES, CLASS D -----				FILE CLERKS, CLASS B -----							
NONMANUFACTURING -----	59	39.5	213.00									MANUFACTURING -----			
WHOLESALE TRADE -----	59	39.5	213.00	NONMANUFACTURING -----				FINANCE -----							
ACCOUNTING CLERKS -----	287	39.0	225.50									FINANCE -----			
MANUFACTURING -----	97	39.0	205.50	STENOGRAPHERS -----				MANUFACTURING -----							
NONMANUFACTURING -----	190	38.5	236.00									MANUFACTURING -----			
PUBLIC UTILITIES -----	67	39.5	255.00	PUBLIC UTILITIES -----				FINANCE -----							
WHOLESALE TRADE -----	64	39.0	252.00									WHOLESALE TRADE -----			
ACCOUNTING CLERKS, CLASS A -----	165	39.0	239.00	FINANCE -----				NONMANUFACTURING -----							
MANUFACTURING -----	71	39.0	213.50									SERVICES -----			
NONMANUFACTURING -----	94	38.5	258.50	STENOGRAPHERS, GENERAL -----				MESSENGERS -----							
ACCOUNTING CLERKS, CLASS B -----	122	39.0	207.50									MANUFACTURING -----			
NONMANUFACTURING -----	96	38.5	214.00	NONMANUFACTURING -----				NONMANUFACTURING -----							
PUBLIC UTILITIES -----	42	39.5	249.50									PUBLIC UTILITIES -----			
OFFICE OCCUPATIONS - WOMEN				FINANCE -----				SWITCHBOARD OPERATORS -----							
SECRETARIES -----	6,381	38.0	203.50									STENOGRAPHERS, SENIOR -----			
MANUFACTURING -----	3,786	38.5	203.00	MANUFACTURING -----				NONMANUFACTURING -----							
NONMANUFACTURING -----	2,595	37.0	204.00									NONMANUFACTURING -----			
PUBLIC UTILITIES -----	260	37.0	244.50	PUBLIC UTILITIES -----				SWITCHBOARD OPERATOR-RECEPTIONISTS-----							
WHOLESALE TRADE -----	311	38.0	226.50									FINANCE -----			
RETAIL TRADE -----	92	37.5	175.50	SERVICES -----				NONMANUFACTURING -----							
FINANCE -----	1,291	36.5	178.00									TRANSCRIBING-MACHINE TYPISTS -----			
SERVICES -----	641	38.0	232.50	NONMANUFACTURING -----				FINANCE -----							
SECRETARIES, CLASS A -----	216	37.5	242.50									TYPISTS -----			
MANUFACTURING -----	92	38.0	243.00	MANUFACTURING -----				ORDER CLERKS -----							
NONMANUFACTURING -----	124	37.0	242.50									NONMANUFACTURING -----			
SECRETARIES, CLASS B -----	1,036	38.0	225.50	PUBLIC UTILITIES -----				ACCOUNTING CLERKS -----							
MANUFACTURING -----	456	38.5	240.00									WHOLESALE TRADE -----			
NONMANUFACTURING -----	580	37.0	213.50	FINANCE -----				NONMANUFACTURING -----							
PUBLIC UTILITIES -----	55	38.0	255.50									FINANCE -----			
WHOLESALE TRADE -----	51	38.0	242.50	SERVICES -----				WHOLESALE TRADE -----							
RETAIL TRADE -----	50	37.5	174.00									TYPISTS, CLASS A -----			
FINANCE -----	323	36.5	198.00	MANUFACTURING -----				FINANCE -----							
SERVICES -----	101	38.0	246.50									NONMANUFACTURING -----			
SECRETARIES, CLASS C -----	2,400	38.0	214.00	PUBLIC UTILITIES -----				ACCOUNTING CLERKS, CLASS A -----							
MANUFACTURING -----	1,387	38.5	213.50									WHOLESALE TRADE -----			
NONMANUFACTURING -----	1,013	37.5	215.00	FINANCE -----				NONMANUFACTURING -----							
PUBLIC UTILITIES -----	166	36.5	235.00									FILE CLERKS -----			
WHOLESALE TRADE -----	215	38.5	226.00	MANUFACTURING -----				PUBLIC UTILITIES -----							
FINANCE -----	376	36.5	185.00									NONMANUFACTURING -----			
SERVICES -----	238	38.5	242.50	PUBLIC UTILITIES -----				FINANCE -----							
												WHOLESALE TRADE -----			
				FINANCE -----											
			</												

See footnotes at end of tables.

Table A-3. Average weekly earnings of office, professional, and technical workers, by sex, in Newark, N.J., January 1977—Continued

Sex, ³ occupation, and industry division	Number of workers	Average (mean ²)		Sex, ³ occupation, and industry division	Number of workers	Average (mean ²)		Sex, ³ occupation, and industry division	Number of workers	Average (mean ²)	
		Weekly hours ¹ (standard)	Weekly earnings ¹ (standard)			Weekly hours ¹ (standard)	Weekly earnings ¹ (standard)			Weekly hours ¹ (standard)	Weekly earnings ¹ (standard)
OFFICE OCCUPATIONS - WOMEN--CONTINUED				PROFESSIONAL AND TECHNICAL OCCUPATIONS - MEN--CONTINUED				PROFESSIONAL AND TECHNICAL OCCUPATIONS - MEN--CONTINUED			
BOOKKEEPING-MACHINE OPERATORS -----	160	36.5	144.00	COMPUTER SYSTEMS ANALYSTS (BUSINESS) - CONTINUED				COMPUTER OPERATORS - CONTINUED			
NONMANUFACTURING -----	115	36.5	137.00					COMPUTER OPERATORS, CLASS B -----	418	38.0	\$ 227.00
FINANCE -----	59	36.5	116.50					MANUFACTURING -----	133	39.5	214.00
				COMPUTER SYSTEMS ANALYSTS (BUSINESS), CLASS A -----	407	37.0	\$ 414.00	NONMANUFACTURING -----	285	37.5	233.00
BOOKKEEPING-MACHINE OPERATORS, CLASS B -----	147	36.5	139.50	MANUFACTURING -----	146	38.5	407.50	PUBLIC UTILITIES -----	29	35.5	239.00
NONMANUFACTURING -----	106	36.5	132.00	NONMANUFACTURING -----	261	36.5	418.00	WHOLESALE TRADE -----	70	38.5	304.50
FINANCE -----	59	36.5	116.50	FINANCE -----	147	36.5	383.50	FINANCE -----	130	37.0	187.50
MACHINE BILLERS -----	81	37.0	164.50	COMPUTER SYSTEMS ANALYSTS (BUSINESS), CLASS B -----	466	37.0	355.50	COMPUTER OPERATORS, CLASS C -----	131	38.0	195.50
BILLING-MACHINE BILLERS -----	69	37.0	170.50	MANUFACTURING -----	137	39.0	343.50	NONMANUFACTURING -----	103	37.5	197.00
PAYROLL CLERKS -----	146	37.0	174.00	NONMANUFACTURING -----	329	36.5	360.50	FINANCE -----	51	35.5	159.00
MANUFACTURING -----	82	37.0	166.50	FINANCE -----	187	36.5	327.00	DRAFTERS -----	1,043	38.5	263.50
NONMANUFACTURING -----	64	36.5	183.50	COMPUTER SYSTEMS ANALYSTS (BUSINESS), CLASS C -----	84	37.5	311.50	MANUFACTURING -----	553	39.0	243.00
PUBLIC UTILITIES -----	30	35.0	200.50					NONMANUFACTURING -----	490	38.0	286.00
KEYPUNCH OPERATORS -----	1,536	37.5	175.00	COMPUTER PROGRAMMERS (BUSINESS) -----	678	37.5	288.50	SERVICES -----	287	39.0	266.00
MANUFACTURING -----	501	39.0	173.50	MANUFACTURING -----	172	38.5	307.50	DRAFTERS, CLASS A -----	358	38.5	302.00
NONMANUFACTURING -----	1,035	37.0	175.50	NONMANUFACTURING -----	506	37.0	282.50	MANUFACTURING -----	219	39.5	285.50
PUBLIC UTILITIES -----	239	35.5	210.50	PUBLIC UTILITIES -----	47	35.0	340.00	NONMANUFACTURING -----	139	38.0	328.50
WHOLESALE TRADE -----	223	38.0	200.50	WHOLESALE TRADE -----	53	39.0	344.00	DRAFTERS, CLASS B -----	481	38.5	262.00
FINANCE -----	428	36.0	152.00	FINANCE -----	343	36.5	261.00	MANUFACTURING -----	206	39.5	236.50
SERVICES -----	55	38.5	174.50	COMPUTER PROGRAMMERS (BUSINESS), CLASS A -----	201	37.5	323.00	NONMANUFACTURING -----	275	38.0	281.00
KEYPUNCH OPERATORS, CLASS A -----	635	37.5	189.50	MANUFACTURING -----	73	38.5	324.00	SERVICES -----	186	38.5	265.50
MANUFACTURING -----	225	39.0	181.00	NONMANUFACTURING -----	128	37.0	322.00	DRAFTERS, CLASS C -----	193	38.0	200.50
NONMANUFACTURING -----	410	37.0	194.00	FINANCE -----	60	36.0	287.00	MANUFACTURING -----	118	38.5	183.00
WHOLESALE TRADE -----	115	38.5	221.50	COMPUTER PROGRAMMERS (BUSINESS), CLASS B -----	349	37.5	284.50	NONMANUFACTURING -----	75	37.5	228.00
FINANCE -----	178	35.5	166.50	MANUFACTURING -----	90	39.0	298.50	ELECTRONICS TECHNICIANS -----	654	39.5	235.50
KEYPUNCH OPERATORS, CLASS B -----	901	37.5	164.50	NONMANUFACTURING -----	259	37.0	279.50	MANUFACTURING -----	520	39.5	217.50
MANUFACTURING -----	276	39.0	167.50	FINANCE -----	194	36.5	269.00	ELECTRONICS TECHNICIANS, CLASS A -----	161	39.5	262.00
NONMANUFACTURING -----	625	36.5	163.50	COMPUTER PROGRAMMERS (BUSINESS), CLASS C -----	128	36.5	247.50	MANUFACTURING -----	130	39.5	251.00
PUBLIC UTILITIES -----	185	35.5	197.00	NONMANUFACTURING -----	119	36.5	246.50	ELECTRONICS TECHNICIANS, CLASS B -----	309	39.5	250.00
WHOLESALE TRADE -----	108	38.0	178.00	FINANCE -----	89	36.5	225.50	MANUFACTURING -----	214	39.5	224.50
RETAIL TRADE -----	54	38.5	120.50	COMPUTER OPERATORS -----	783	38.0	226.50	PROFESSIONAL AND TECHNICAL OCCUPATIONS - WOMEN			
FINANCE -----	250	36.5	142.00	MANUFACTURING -----	230	39.0	216.50	COMPUTER SYSTEMS ANALYSTS (BUSINESS) -----	194	36.5	366.50
TABULATING-MACHINE OPERATORS -----	65	36.5	165.00	NONMANUFACTURING -----	553	37.5	231.00	NONMANUFACTURING -----	173	36.0	368.50
NONMANUFACTURING -----	62	36.5	163.50	WHOLESALE TRADE -----	120	38.5	291.50	COMPUTER SYSTEMS ANALYSTS (BUSINESS), CLASS B -----	131	36.5	351.50
PROFESSIONAL AND TECHNICAL OCCUPATIONS - MEN				FINANCE -----	274	36.5	195.50	NONMANUFACTURING -----	120	36.0	354.50
COMPUTER SYSTEMS ANALYSTS (BUSINESS) -----	957	37.0	376.50	SERVICES -----	106	39.0	235.00				
MANUFACTURING -----	320	39.0	367.00	COMPUTER OPERATORS, CLASS A -----	234	37.5	243.00				
NONMANUFACTURING -----	637	36.5	381.00	MANUFACTURING -----	69	39.0	231.50				
FINANCE -----	353	36.5	350.00	NONMANUFACTURING -----	165	37.0	248.00				
				FINANCE -----	93	36.5	227.50				

See footnotes at end of tables.

Table A-3. Average weekly earnings of office, professional, and technical workers, by sex, in Newark, N.J., January 1977—Continued

Sex, ³ occupation, and industry division	Number of workers	Average (mean ²)		Sex, ³ occupation, and industry division	Number of workers	Average (mean ²)		Sex, ³ occupation, and industry division	Number of workers	Average (mean ²)	
		Weekly hours ¹ (standard)	Weekly earnings ¹ (standard)			Weekly hours ¹ (standard)	Weekly earnings ¹ (standard)			Weekly hours ¹ (standard)	Weekly earnings ¹ (standard)
PROFESSIONAL AND TECHNICAL OCCUPATIONS - WOMEN--CONTINUED			\$	PROFESSIONAL AND TECHNICAL OCCUPATIONS - WOMEN--CONTINUED				PROFESSIONAL AND TECHNICAL OCCUPATIONS - WOMEN--CONTINUED			\$
COMPUTER PROGRAMMERS (BUSINESS) ----	278	37.5	265.00	COMPUTER PROGRAMMERS (BUSINESS) - CONTINUED				DRAFTERS -----	104	39.0	217.00
MANUFACTURING -----	66	38.5	295.00					NONMANUFACTURING -----	65	38.5	226.00
NONMANUFACTURING -----	212	37.0	255.50					SERVICES -----	56	39.0	224.50
PUBLIC UTILITIES -----	25	35.0	306.00	COMPUTER PROGRAMMERS (BUSINESS), CLASS C -----	92	38.0	223.50	DRAFTERS, CLASS B -----	52	39.0	233.00
FINANCE -----	148	37.0	250.00	NONMANUFACTURING -----	76	37.5	222.00	REGISTERED INDUSTRIAL NURSES -----	172	38.5	246.00
COMPUTER PROGRAMMERS (BUSINESS), CLASS A -----	61	37.0	307.50	COMPUTER OPERATORS -----	173	36.0	210.00	MANUFACTURING -----	133	39.0	242.00
COMPUTER PROGRAMMERS (BUSINESS), CLASS B -----	125	37.5	274.50	NONMANUFACTURING -----	156	36.0	210.00				
NONMANUFACTURING -----	98	37.0	273.00	FINANCE -----	58	36.0	188.50				
FINANCE -----	79	37.0	265.00								

See footnotes at end of tables.

Table A-4. Hourly earnings of maintenance, toolroom, and powerplant workers in Newark, N.J., January 1977

Occupation and industry division	Number of workers	Hourly earnings ⁴			Number of workers receiving straight-time hourly earnings of—																									
		Mean ²	Median ²	Middle range ²	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
					4.00	4.20	4.40	4.60	4.80	5.00	5.20	5.40	5.60	5.80	6.00	6.20	6.40	6.80	7.20	7.60	8.00	8.40	8.80	9.20	9.60	10.00	and under	over		
					4.00	4.20	4.40	4.60	4.80	5.00	5.20	5.40	5.60	5.80	6.00	6.20	6.40	6.80	7.20	7.60	8.00	8.40	8.80	9.20	9.60	10.00	over			
ALL WORKERS																														
MAINTENANCE CARPENTERS -----	338	7.24	7.53	6.21- 7.72	-	-	-	-	-	-	3	12	9	41	20	7	12	37	35	126	13	6	3	-	-	-	-	-	-	14
MANUFACTURING -----	226	7.14	7.72	6.58- 7.72	-	-	-	-	-	-	3	10	9	6	20	7	9	33	2	119	2	6	-	-	-	-	-	-	-	-
NONMANUFACTURING -----	112	7.46	7.53	5.97- 7.87	-	-	-	-	-	-	-	2	-	35	-	-	3	4	33	7	11	-	3	-	-	-	-	-	*14	
MAINTENANCE ELECTRICIANS -----	901	7.06	6.96	6.18- 7.72	-	-	-	-	-	16	-	9	103	33	91	71	86	99	27	211	59	84	-	3	-	-	-	-	9	
MANUFACTURING -----	777	6.94	6.77	6.13- 7.72	-	-	-	-	-	16	-	9	93	33	91	71	76	75	27	178	21	84	-	3	-	-	-	-	-	
NONMANUFACTURING -----	124	7.81	7.73	7.08- 8.38	-	-	-	-	-	-	-	-	10	-	-	-	10	24	-	33	38	-	-	-	-	-	-	-	9	
PUBLIC UTILITIES -----	70	7.84	8.38	7.19- 8.38	-	-	-	-	-	-	-	-	-	-	-	-	4	20	-	8	38	-	-	-	-	-	-	-	-	
MAINTENANCE PAINTERS -----	183	7.04	6.85	6.54- 7.66	-	-	-	3	-	2	-	-	8	2	8	4	18	33	41	12	15	12	21	-	-	-	-	4	-	
MANUFACTURING -----	152	6.81	6.85	6.32- 7.24	-	-	-	3	-	2	-	-	8	2	8	4	18	26	41	11	15	3	11	-	-	-	-	-	-	
MAINTENANCE MACHINISTS -----	626	6.89	6.58	6.13- 7.72	-	-	-	-	-	16	-	39	24	10	106	48	107	39	45	98	9	85	-	-	-	-	-	-	-	
MANUFACTURING -----	611	6.88	6.58	6.13- 7.72	-	-	-	-	-	16	-	39	24	10	106	48	107	31	44	93	8	85	-	-	-	-	-	-	-	
MAINTENANCE MECHANICS (MACHINERY) -	1,530	6.51	6.18	5.54- 7.28	-	-	-	20	24	14	32	236	96	63	133	195	38	128	146	87	44	64	201	-	-	-	-	3	6	
MANUFACTURING -----	1,302	6.46	6.18	5.47- 6.81	-	-	-	20	-	14	26	230	84	33	127	177	38	119	145	57	7	24	201	-	-	-	-	-	-	
NONMANUFACTURING -----	228	6.81	7.28	5.75- 7.95	-	-	-	-	24	-	6	6	12	30	6	18	-	9	1	30	37	40	-	-	-	-	-	3	6	
MAINTENANCE MECHANICS (MOTOR VEHICLES) -----	935	7.40	7.61	6.85- 7.83	-	-	-	-	-	-	10	58	24	5	28	19	34	89	39	475	58	96	-	-	-	-	-	-	-	
MANUFACTURING -----	149	6.91	6.51	6.18- 7.72	-	-	-	-	-	-	-	-	-	20	-	18	14	24	30	-	12	-	31	-	-	-	-	-	-	
NONMANUFACTURING -----	786	7.49	7.66	7.55- 7.83	-	-	-	-	-	-	10	58	4	5	10	5	10	59	39	463	58	65	-	-	-	-	-	-	-	
PUBLIC UTILITIES -----	635	7.65	7.70	7.61- 7.83	-	-	-	-	-	-	-	-	-	-	-	9	-	10	59	27	463	49	18	-	-	-	-	-	-	
WHOLESALE TRADE -----	112	7.20	7.78	5.50- 8.45	-	-	-	-	-	-	-	-	36	4	4	-	-	-	-	12	-	9	47	-	-	-	-	-	-	
MAINTENANCE PIPEFITTERS -----	750	7.29	7.70	6.32- 7.72	-	-	-	-	-	1	24	-	31	5	101	69	28	55	31	327	3	33	-	-	-	-	-	-	42	
MANUFACTURING -----	692	7.25	7.70	6.32- 7.72	-	-	-	-	-	-	24	-	31	5	95	69	24	50	13	312	-	33	-	-	-	-	-	-	36	
NONMANUFACTURING -----	58	7.67	7.53	7.08- 7.95	-	-	-	-	-	1	-	-	-	-	6	-	4	5	18	15	3	-	-	-	-	-	-	-	6	
MAINTENANCE SHEET-METAL WORKERS -----	95	7.01	6.81	6.28- 7.70	-	-	-	-	-	-	-	-	15	-	9	4	12	16	8	18	-	13	-	-	-	-	-	-	-	
MANUFACTURING -----	88	6.97	6.81	6.18- 7.70	-	-	-	-	-	-	-	-	15	-	9	4	12	16	1	18	-	13	-	-	-	-	-	-	-	
MILLWRIGHTS -----	327	7.25	7.61	6.32- 7.77	-	-	-	-	-	-	-	4	8	6	10	93	3	17	13	105	-	68	-	-	-	-	-	-	-	
MANUFACTURING -----	309	7.23	7.61	6.32- 7.77	-	-	-	-	-	-	-	4	8	6	10	93	3	17	-	100	-	68	-	-	-	-	-	-	-	
MAINTENANCE TRADES HELPERS -----	166	5.06	4.76	4.72- 5.46	2	6	14	9	59	13	1	12	10	-	31	5	4	-	-	-	-	-	-	-	-	-	-	-	-	
MANUFACTURING -----	77	4.82	4.74	4.74- 5.16	-	6	8	3	28	12	1	10	9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
NONMANUFACTURING -----	89	5.26	4.76	4.72- 5.96	2	-	6	6	31	1	-	2	1	-	31	5	4	-	-	-	-	-	-	-	-	-	-	-	-	
MACHINE-TOOL OPERATORS (TOOLROOM) -	254	7.32	6.58	6.58- 8.62	-	-	-	-	10	-	8	7	9	-	2	13	4	80	-	-	-	2	119	-	-	-	-	-	-	
MANUFACTURING -----	254	7.32	6.58	6.58- 8.62	-	-	-	-	10	-	8	7	9	-	2	13	4	80	-	-	-	2	119	-	-	-	-	-	-	
TOOL AND DIE MAKERS -----	792	7.18	7.05	6.48- 7.89	-	-	-	-	-	-	-	-	4	12	16	60	74	133	151	86	139	24	46	47	-	-	-	-	-	
MANUFACTURING -----	676	7.11	6.96	6.40- 7.47	-	-	-	-	-	-	-	-	4	12	10	60	74	127	139	86	47	24	46	47	-	-	-	-	-	
STATIONARY ENGINEERS -----	355	7.86	7.89	6.69- 8.79	-	-	1	-	-	-	-	-	4	9	21	5	31	30	31	12	66	17	42	1	61	1	23	-	-	
MANUFACTURING -----	209	7.93	8.12	6.58- 9.44	-	-	-	-	-	-	-	-	4	8	6	5	24	19	19	6	-	17	36	1	61	1	2	-	-	
NONMANUFACTURING -----	146	7.77	7.89	6.96- 7.95	-	-	1	-	-	-	-	-	-	1	15	-	7	11	12	6	66	-	6	-	-	-	-	**21	-	
BOILER TENDERS -----	211	6.26	5.92	5.64- 6.31	10	-	1	8	-	12	-	9	6	44	20	15	34	2	11	6	4	-	-	5	16	-	-	-	8	
MANUFACTURING -----	183	6.21	5.87	5.65- 6.29	-	-	-	8	-	12	-	9	6	44	20	12	33	2	11	6	4	-	-	-	16	-	-	-	-	

* Workers were distributed as follows: 4 at \$10 to \$10.40; 8 at \$10.40 to \$10.80; and 2 at \$10.80 to \$11.20.

** Workers were distributed as follows: 2 at \$10 to \$10.40; and 19 at \$10.40 to \$10.80.

See footnotes at end of tables.

Table A-5. Hourly earnings of material movement and custodial workers in Newark, N.J., January 1977

Occupation and industry division	Number of workers	Hourly earnings ⁴			Number of workers receiving straight-time hourly earnings of—																											
		Mean ²	Median ²	Middle range ²	\$ 2.40	\$ 2.60	\$ 2.80	\$ 3.00	\$ 3.20	\$ 3.40	\$ 3.60	\$ 3.80	\$ 4.00	\$ 4.20	\$ 4.40	\$ 4.80	\$ 5.20	\$ 5.60	\$ 6.00	\$ 6.40	\$ 6.80	\$ 7.20	\$ 7.60	\$ 8.00	\$ 8.40	\$ 8.80	\$ 9.20					
					and under	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	and over
					2,60	2,80	3,00	3,20	3,40	3,60	3,80	4,00	4,20	4,40	4,80	5,20	5,60	6,00	6,40	6,80	7,20	7,60	8,00	8,40	8,80	9,20						
ALL WORKERS																																
TRUCKDRIVERS -----	4,981	\$ 7.41	\$ 7.78	\$ 6.71- 7.79	-	-	-	12	-	18	62	14	43	20	135	268	267	157	107	456	70	208	2031	307	-	660	146					
MANUFACTURING -----	1,007	7.08	6.71	5.10- 7.57	-	-	-	-	-	-	50	14	9	12	51	177	69	51	35	142	30	144	77	-	-	-	*	146				
NONMANUFACTURING -----	3,974	7.50	7.78	7.38- 7.79	-	-	-	12	-	18	12	-	34	8	84	91	198	106	72	314	40	64	1954	307	-	660	-					
PUBLIC UTILITIES -----	1,855	7.67	7.78	7.68- 7.78	-	-	-	-	-	-	-	-	-	1	-	1	3	30	57	-	-	10	1753	-	-	-	-					
WHOLESALE TRADE -----	1,968	7.53	7.78	6.75- 9.06	-	-	-	-	14	12	-	17	6	35	88	195	17	15	314	33	54	201	307	-	660	-						
SERVICES -----	91	4.47	4.50	4.00- 4.60	-	-	-	12	-	4	-	-	17	1	43	-	-	7	-	-	7	-	-	-	-	-	-					
TRUCKDRIVERS, MEDIUM TRUCK -----	1,103	7.48	6.75	6.66- 7.79	-	-	-	12	-	4	-	14	11	9	74	89	12	31	10	311	7	10	363	-	-	-	146					
MANUFACTURING -----	286	9.35	11.70	5.10-13.50	-	-	-	-	-	-	-	14	5	8	39	15	12	20	10	11	-	6	-	-	-	-	146					
NONMANUFACTURING -----	817	6.82	6.75	6.75- 7.79	-	-	-	12	-	4	-	-	6	1	35	74	-	11	-	300	7	10	357	-	-	-	-					
TRUCKDRIVERS, HEAVY TRUCK (TRAILER) -----	1,887	7.50	7.78	7.78- 7.78	-	-	-	-	-	-	40	-	5	4	8	16	17	83	20	25	48	196	1236	189	-	-	-	-				
MANUFACTURING -----	389	6.58	7.20	5.76- 7.57	-	-	-	-	-	-	40	-	4	4	8	16	11	30	20	23	18	144	71	-	-	-	-					
NONMANUFACTURING -----	1,498	7.74	7.78	7.78- 7.78	-	-	-	-	-	-	-	-	1	-	-	-	6	53	-	2	30	52	1165	189	-	-	-	-				
PUBLIC UTILITIES -----	981	7.78	7.78	7.78- 7.78	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	981	-	-	-	-					
WHOLESALE TRADE -----	464	7.88	7.78	7.78- 8.31	-	-	-	-	-	-	-	-	-	-	-	-	6	1	-	2	30	52	184	189	-	-	-	-				
TRUCKDRIVERS, HEAVY TRUCK (OTHER THAN TRAILER) -----	985	6.43	6.71	5.20- 7.68	-	-	-	-	-	-	10	-	15	-	49	110	234	-	19	108	-	2	429	9	-	-	-					
MANUFACTURING -----	261	5.81	5.55	5.10- 6.71	-	-	-	-	-	-	10	-	-	-	-	94	45	-	4	108	-	-	-	-	-	-	-					
NONMANUFACTURING -----	724	6.66	7.68	5.20- 7.68	-	-	-	-	-	-	-	-	15	-	49	16	189	-	15	-	-	2	429	9	-	-	-					
PUBLIC UTILITIES -----	415	7.68	7.68	7.68- 7.68	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	415	-	-	-	-					
SHIPPING CLERKS -----	177	5.53	5.38	4.80- 5.77	-	-	-	-	-	-	-	3	-	2	36	35	44	21	14	-	-	-	16	3	3	-	-					
MANUFACTURING -----	162	5.54	5.38	4.80- 5.77	-	-	-	-	-	-	-	3	-	2	31	34	43	19	8	-	-	-	16	3	3	-	-					
RECEIVING CLERKS -----	234	5.38	5.28	4.57- 6.01	-	-	-	-	6	9	13	3	3	1	50	28	35	12	28	17	-	14	15	-	-	-	-					
MANUFACTURING -----	154	5.64	5.28	4.77- 6.74	-	-	-	-	-	-	-	3	3	-	41	28	22	11	1	16	-	14	15	-	-	-	-					
NONMANUFACTURING -----	80	4.87	5.30	3.75- 6.01	-	-	-	-	6	9	13	-	-	1	9	-	13	1	27	1	-	-	-	-	-	-	-					
SHIPPING AND RECEIVING CLERKS -----	254	5.37	5.21	4.79- 5.78	-	-	-	2	-	2	10	6	11	-	37	57	56	27	4	-	20	20	2	-	-	-	-					
MANUFACTURING -----	196	5.05	5.00	4.77- 5.59	-	-	-	-	-	-	10	6	9	-	37	57	51	20	-	-	6	-	-	-	-	-	-					
NONMANUFACTURING -----	58	6.47	6.91	5.93- 7.45	-	-	-	2	-	2	-	-	2	-	-	-	5	7	4	-	14	20	2	-	-	-	-					
WAREHOUSEMEN -----	2,997	6.13	7.44	4.79- 7.48	1	4	7	53	28	8	15	52	131	111	534	311	87	106	38	1	-	1208	302	-	-	-	-					
MANUFACTURING -----	899	6.24	7.44	4.71- 7.44	-	-	-	50	-	3	10	15	32	92	40	17	84	29	38	1	-	298	190	-	-	-	-					
NONMANUFACTURING -----	2,098	6.08	5.88	4.79- 7.48	1	4	7	3	28	5	5	37	99	19	494	294	3	77	-	-	-	910	112	-	-	-	-					
ORDER FILLERS -----	925	5.31	5.60	3.80- 6.82	-	15	50	35	2	114	11	22	32	15	65	70	20	146	26	52	107	143	-	-	-	-	-					
MANUFACTURING -----	250	5.33	5.60	5.09- 5.60	-	-	-	-	-	-	-	-	-	6	36	62	-	120	26	-	-	-	-	-	-	-	-					
NONMANUFACTURING -----	675	5.30	5.55	3.50- 6.82	-	15	50	35	2	114	11	22	32	9	29	8	20	26	-	52	107	143	-	-	-	-	-					
PUBLIC UTILITIES -----	50	5.66	5.91	5.55- 5.91	-	-	-	-	-	-	-	-	-	2	1	1	20	26	-	-	-	-	-	-	-	-	-					
WHOLESALE TRADE -----	374	4.25	3.51	3.50- 4.60	-	15	26	35	2	114	11	22	32	7	28	7	-	-	-	52	15	8	-	-	-	-	-					
SHIPPING PACKERS -----	516	4.57	4.43	4.21- 5.00	3	2	2	3	46	6	21	18	17	128	61	113	63	22	-	7	-	-	4	-	-	-	-					
MANUFACTURING -----	341	4.89	5.00	4.35- 5.20	-	-	-	2	4	-	5	13	-	62	51	113	63	19	-	5	-	-	4	-	-	-	-					
NONMANUFACTURING -----	175	3.95	4.00	3.30- 4.38	3	2	2	1	42	6	16	5	17	66	10	-	-	3	-	2	-	-	-	-	-	-	-					
MATERIAL HANDLING LABORERS -----	2,259	5.39	5.18	4.33- 6.85	41	45	46	65	81	48	98	35	69	46	333	271	127	58	232	69	132	249	214	-	-	-	-					
MANUFACTURING -----	1,041	4.69	4.54	4.11- 5.18	14	20	10	50	14	9	79	21	59	45	277	206	71	50	9	54	51	-	2	-	-	-	-					
NONMANUFACTURING -----	1,218	5.98	6.36	4.79- 7.48	27	25	36	15	67	39	19	14	10	1	56	65	56	8	223	15	81	249	212	-	-	-	-					
PUBLIC UTILITIES -----	671	6.95	7.48	6.21- 7.60	-	-	-	-	-	-	-	-	-	-	44	1	1	-	220	1	-	192	212	-	-	-	-					
WHOLESALE TRADE -----	275	4.62	3.75	3.30- 6.85	-	1	27	13	56	31	12	10	7	-	9	24	-	-	-	10	75	-	-	-	-	-	-					
RETAIL TRADE -----	172	4.77	3.74	2.72- 7.47	27	24	9	2	11	8	7	4	3	1	2	8	-	1	-	2	6	57	-	-	-	-	-					

* Workers were distributed as follows: 2 at \$9.60 to \$10; 1 at \$11.20 to \$11.60; 3 at \$11.60 to \$12; 4 at \$12 to \$12.40; 6 at \$12.40 to \$12.80; 14 at \$12.80 to \$13.20; 79 at \$13.20 to \$13.60; 35 at \$13.60 to \$14; and 2 at \$14 to \$14.40.

See footnotes at end of tables.

Table A-5. Hourly earnings of material movement and custodial workers in Newark, N.J., January 1977—Continued

Occupation and industry division	Number of workers	Hourly earnings ⁴			Number of workers receiving straight-time hourly earnings of—																									
		Mean ²	Median ²	Middle range ²	\$ 2.40	\$ 2.60	\$ 2.80	\$ 3.00	\$ 3.20	\$ 3.40	\$ 3.60	\$ 3.80	\$ 4.00	\$ 4.20	\$ 4.40	\$ 4.80	\$ 5.20	\$ 5.60	\$ 6.00	\$ 6.40	\$ 6.80	\$ 7.20	\$ 7.60	\$ 8.00	\$ 8.40	\$ 8.80	\$ 9.20			
					and under	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
					2.60	2.80	3.00	3.20	3.40	3.60	3.80	4.00	4.20	4.40	4.80	5.20	5.60	6.00	6.40	6.80	7.20	7.60	8.00	8.40	8.80	9.20				
ALL WORKERS-- CONTINUED																														
FORKLIFT OPERATORS -----	1,671	\$ 5.81	\$ 5.36	\$ 5.16- 6.82	-	-	-	-	-	2	52	13	10	1	78	424	423	45	37	163	191	40	192	-	-	-	-	-		
MANUFACTURING -----	1,181	5.44	5.29	4.92- 5.59	-	-	-	-	-	-	50	12	10	-	75	345	405	39	21	78	119	7	20	-	-	-	-	-		
NONMANUFACTURING -----	490	6.71	6.91	6.20- 7.69	-	-	-	-	-	2	2	1	-	1	3	79	18	6	16	85	72	33	172	-	-	-	-	-		
PUBLIC UTILITIES -----	243	6.96	7.69	5.14- 7.69	-	-	-	-	-	-	-	-	-	-	-	66	-	1	4	-	-	-	172	-	-	-	-	-		
WHOLESALE TRADE -----	154	6.35	6.41	6.41- 6.92	-	-	-	-	-	2	2	1	-	1	3	6	3	5	7	85	39	-	-	-	-	-	-	-		
POWER-TRUCK OPERATORS (OTHER THAN FORKLIFT) -----	55	4.52	4.76	4.35- 4.86	-	4	-	-	-	-	-	-	-	19	11	18	3	-	-	-	-	-	-	-	-	-	-	-		
GUARDS AND WATCHMEN -----	4,875	3.18	2.75	2.50- 3.25	1571	1172	278	564	108	85	176	76	80	195	136	83	85	115	41	52	50	8	-	-	-	-	-			
MANUFACTURING -----	572	4.82	4.44	4.31- 5.43	24	30	-	4	-	12	15	2	18	181	24	55	75	31	14	49	38	-	-	-	-	-	-			
NONMANUFACTURING -----	4,303	2.96	2.65	2.50- 3.00	1547	1142	278	560	108	73	161	74	62	14	112	28	10	84	27	3	12	8	-	-	-	-	-			
WHOLESALE TRADE -----	71	5.18	6.10	3.92- 6.10	-	4	1	12	-	-	-	2	2	-	2	12	-	-	24	-	12	-	-	-	-	-	-			
RETAIL TRADE -----	106	3.35	3.13	3.08- 3.61	-	2	7	53	8	9	10	8	3	2	3	-	1	-	-	-	-	-	-	-	-	-	-			
FINANCE -----	249	4.04	4.05	3.60- 4.60	2	-	8	16	22	14	19	30	16	10	107	5	-	-	-	-	-	-	-	-	-	-	-			
SERVICES -----	3,859	2.83	2.60	2.50- 2.90	1545	1136	262	479	78	50	132	34	41	2	-	7	9	84	-	-	-	-	-	-	-	-	-			
GUARDS: -----																														
MANUFACTURING -----	450	5.12	4.85	4.31- 5.71	-	-	-	4	-	-	7	2	7	170	24	55	63	31	-	49	38	-	-	-	-	-	-			
WATCHMEN: -----																														
MANUFACTURING -----	122	3.71	3.45	2.60- 4.36	24	30	-	-	-	12	8	-	11	11	-	-	12	-	14	-	-	-	-	-	-	-	-			
JANITORS, PORTERS, AND CLEANERS ---	6,608	3.61	3.10	2.50- 4.51	1812	633	586	348	230	317	402	149	200	167	297	508	493	275	22	108	12	27	22	-	-	-	-			
MANUFACTURING -----	1,547	5.00	5.08	4.50- 5.32	-	9	27	13	4	43	19	43	80	104	265	318	301	195	3	81	12	8	22	-	-	-	-			
NONMANUFACTURING -----	5,061	3.18	2.80	2.50- 3.55	1812	624	559	335	226	274	383	106	120	63	32	190	192	80	19	27	-	19	-	-	-	-				
PUBLIC UTILITIES -----	363	5.51	5.34	5.34- 5.63	-	-	-	-	-	-	-	-	-	10	4	61	192	52	19	6	-	19	-	-	-	-				
WHOLESALE TRADE -----	162	4.37	4.23	3.50- 5.76	12	1	14	6	-	16	6	17	4	20	8	17	-	28	-	13	-	-	-	-	-	-				
RETAIL TRADE -----	258	3.19	3.03	2.75- 3.35	40	40	37	21	66	14	19	-	6	5	1	1	-	-	-	8	-	-	-	-	-	-				
FINANCE -----	353	3.64	3.75	3.32- 3.75	-	1	1	8	90	10	198	35	5	3	2	-	-	-	-	-	-	-	-	-	-	-				
SERVICES -----	3,925	2.88	2.67	2.50- 3.00	1760	592	507	300	70	234	160	54	105	25	17	111	-	-	-	-	-	-	-	-	-	-				

See footnotes at end of tables.

Table A-6. Average hourly earnings of maintenance, toolroom, powerplant, material movement, and custodial workers, by sex, in Newark, N.J., January 1977

Sex, ³ occupation, and industry division	Number of workers	Average (mean ²) hourly earnings ⁴	Sex, ³ occupation, and industry division	Number of workers	Average (mean ²) hourly earnings ⁴	Sex, ³ occupation, and industry division	Number of workers	Average (mean ²) hourly earnings ⁴
MAINTENANCE, TOOLROOM, AND POWERPLANT OCCUPATIONS - MEN			MATERIAL MOVEMENT AND CUSTODIAL OCCUPATIONS - MEN			MATERIAL MOVEMENT AND CUSTODIAL OCCUPATIONS - MEN--CONTINUED		
MAINTENANCE CARPENTERS -----	338	7.24	TRUCKDRIVERS -----	4,976	7.41	FORKLIFT OPERATORS -----	1,671	\$ 5.81
MANUFACTURING -----	226	7.14	MANUFACTURING -----	1,006	7.08	MANUFACTURING -----	1,181	5.44
NONMANUFACTURING -----	112	7.46	NONMANUFACTURING -----	3,970	7.50	NONMANUFACTURING -----	490	6.71
MAINTENANCE ELECTRICIANS -----	901	7.06	PUBLIC UTILITIES -----	1,854	7.67	PUBLIC UTILITIES -----	243	6.96
MANUFACTURING -----	777	6.94	WHOLESALE TRADE -----	1,965	7.53	WHOLESALE TRADE -----	154	6.35
NONMANUFACTURING -----	124	7.81	SERVICES -----	91	4.47			
PUBLIC UTILITIES -----	70	7.84	TRUCKDRIVERS, MEDIUM TRUCK -----	1,103	7.48	POWER-TRUCK OPERATORS (OTHER THAN FORKLIFT) -----	55	4.52
MAINTENANCE PAINTERS -----	181	7.04	MANUFACTURING -----	286	9.35			
MANUFACTURING -----	150	6.81	NONMANUFACTURING -----	817	6.82	GUARDS AND WATCHMEN -----	4,675	3.18
MAINTENANCE MACHINISTS -----	626	6.89	TRUCKDRIVERS, HEAVY TRUCK (TRAILER) -----	1,884	7.50	MANUFACTURING -----	549	4.82
MANUFACTURING -----	611	6.88	MANUFACTURING -----	389	6.58	NONMANUFACTURING -----	4,126	2.97
MAINTENANCE MECHANICS (MACHINERY) -----	1,530	6.51	NONMANUFACTURING -----	1,495	7.74	WHOLESALE TRADE -----	71	5.18
MANUFACTURING -----	1,302	6.46	PUBLIC UTILITIES -----	981	7.78	RETAIL TRADE -----	104	3.31
NONMANUFACTURING -----	228	6.81	WHOLESALE TRADE -----	461	7.88	FINANCE -----	248	4.05
MAINTENANCE MECHANICS (MOTOR VEHICLES) -----	935	7.40	TRUCKDRIVERS, HEAVY TRUCK (OTHER THAN TRAILER) -----	985	6.43	SERVICES -----	3,685	2.82
MANUFACTURING -----	149	6.91	MANUFACTURING -----	261	5.81	GUARDS: MANUFACTURING -----	427	5.14
NONMANUFACTURING -----	786	7.49	NONMANUFACTURING -----	724	6.66	WATCHMEN: MANUFACTURING -----	122	3.71
PUBLIC UTILITIES -----	635	7.65	PUBLIC UTILITIES -----	415	7.68	JANITORS, PORTERS, AND CLEANERS -----	4,917	3.72
WHOLESALE TRADE -----	112	7.20	SHIPPING CLERKS -----	169	5.54	MANUFACTURING -----	1,337	5.01
MAINTENANCE PIPEFITTERS -----	750	7.29	MANUFACTURING -----	154	5.56	NONMANUFACTURING -----	3,580	3.24
MANUFACTURING -----	692	7.25	RECEIVING CLERKS -----	231	5.38	PUBLIC UTILITIES -----	297	5.56
NONMANUFACTURING -----	58	7.67	MANUFACTURING -----	151	5.65	WHOLESALE TRADE -----	147	4.48
MAINTENANCE SHEET-METAL WORKERS -----	95	7.01	NONMANUFACTURING -----	80	4.87	RETAIL TRADE -----	214	3.25
MANUFACTURING -----	88	6.97	SHIPPING AND RECEIVING CLERKS -----	250	5.40	SERVICES -----	2,684	2.87
MILLWRIGHTS -----	327	7.25	MANUFACTURING -----	196	5.05			
MANUFACTURING -----	309	7.23	NONMANUFACTURING -----	54	6.69	MATERIAL MOVEMENT AND CUSTODIAL OCCUPATIONS - WOMEN		
MAINTENANCE TRADES HELPERS -----	165	5.06	WAREHOUSEMEN -----	2,996	6.13	SHIPPING PACKERS -----	63	4.92
MANUFACTURING -----	77	4.82	MANUFACTURING -----	899	6.24	MANUFACTURING -----	52	5.13
NONMANUFACTURING -----	88	5.27	NONMANUFACTURING -----	2,097	6.08	GUARDS AND WATCHMEN -----	200	3.09
MACHINE-TOOL OPERATORS (TOOLROOM) -----	254	7.32	ORDER FILLERS -----	808	5.58	NONMANUFACTURING -----	177	2.88
MANUFACTURING -----	254	7.32	MANUFACTURING -----	250	5.33	SERVICES -----	174	2.85
TOOL AND DIE MAKERS -----	792	7.18	NONMANUFACTURING -----	558	5.69	JANITORS, PORTERS, AND CLEANERS -----	1,691	3.28
MANUFACTURING -----	676	7.11	PUBLIC UTILITIES -----	48	5.72	MANUFACTURING -----	210	4.91
STATIONARY ENGINEERS -----	355	7.86	WHOLESALE TRADE -----	283	4.48	NONMANUFACTURING -----	1,481	3.05
MANUFACTURING -----	209	7.93	SHIPPING PACKERS -----	453	4.52	SERVICES -----	1,241	2.90
NONMANUFACTURING -----	146	7.77	MANUFACTURING -----	289	4.84			
BOILER TENDERS -----	209	6.26	NONMANUFACTURING -----	164	3.96			
MANUFACTURING -----	181	6.21	MATERIAL HANDLING LABORERS -----	2,185	5.45			
			MANUFACTURING -----	1,037	4.69			
			NONMANUFACTURING -----	1,148	6.13			
			PUBLIC UTILITIES -----	671	6.95			
			WHOLESALE TRADE -----	215	4.94			
			RETAIL TRADE -----	163	4.85			

See footnotes at end of tables.

Table A-7. Percent increases in average hourly earnings, adjusted for employment shifts, for selected occupational groups in Newark, N.J., for selected periods

Industry and occupational group ⁵	January 1975 to January 1976	January 1976 to January 1977
All industries:		
Office clerical	7.5	6.0
Electronic data processing	7.0	5.1
Industrial nurses	7.9	7.7
Skilled maintenance trades	8.7	8.0
Unskilled plant workers	6.8	6.2
Manufacturing:		
Office clerical	6.4	6.5
Electronic data processing	4.0	5.3
Industrial nurses	7.1	7.7
Skilled maintenance trades	7.7	8.0
Unskilled plant workers	9.2	6.6
Nonmanufacturing:		
Office clerical	8.6	5.6
Electronic data processing	8.2	5.0
Industrial nurses	(⁶)	(⁶)
Unskilled plant workers	5.5	5.9

See footnotes at end of tables.

Table A-8. Weekly earnings of office workers—large establishments in Newark, N.J., January 1977

Occupation and industry division	Number of workers	Average weekly hours ¹ (standard)	Weekly earnings ¹ (standard)			Number of workers receiving straight-time weekly earnings of—																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
			Mean ²	Median ²	Middle range ²	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$

* Workers were distributed as follows: 9 at \$340 to \$360; 1 at \$360 to \$380; and 1 at \$440 to \$460.

See footnotes at end of tables.

Table A-8. Weekly earnings of office workers—large establishments in Newark, N.J., January 1977—Continued

Occupation and industry division	Number of workers	Average weekly hours ¹ (standard)	Weekly earnings ¹ (standard)			Number of workers receiving straight-time weekly earnings of—																							
			Mean ²	Median ²	Middle range ²	\$ 90 and under	\$ 100	\$ 110	\$ 120	\$ 130	\$ 140	\$ 150	\$ 160	\$ 170	\$ 180	\$ 190	\$ 200	\$ 210	\$ 220	\$ 230	\$ 240	\$ 260	\$ 280	\$ 300	\$ 320	\$ 340 and over			
						100	110	120	130	140	150	160	170	180	190	200	210	220	230	240	260	280	300	320	340				
ALL WORKERS-- CONTINUED																													
TYPISTS - CONTINUED																													
TYPISTS, CLASS A -----	487	37.0	\$ 152.50	\$ 142.50	\$ 130.50-166.50	-	-	36	83	99	72	48	51	26	13	17	3	8	15	6	2	7	1	-	-	-	-	-	
MANUFACTURING -----	139	39.5	156.00	149.00	137.00-166.00	-	-	-	13	27	35	22	14	6	5	2	2	1	12	-	-	-	-	-	-	-	-		
NONMANUFACTURING -----	348	36.0	151.00	139.50	126.00-167.00	-	-	36	70	72	37	26	37	20	8	15	1	7	3	6	2	7	1	-	-	-	-		
FINANCE -----	297	36.0	141.00	136.50	125.00-156.00	-	-	36	69	71	37	21	31	19	4	9	-	-	-	-	-	-	-	-	-	-	-		
TYPISTS, CLASS B -----	816	37.5	145.50	136.00	122.00-161.00	1	31	144	120	140	81	88	44	26	71	32	10	5	-	-	21	2	-	-	-	-	-		
MANUFACTURING -----	230	39.0	140.00	134.00	128.50-151.00	-	2	23	40	79	21	26	19	8	6	6	-	-	-	-	-	-	-	-	-	-	-		
NONMANUFACTURING -----	586	36.5	148.00	140.00	119.00-170.50	1	29	121	80	61	60	62	25	18	65	26	10	5	-	-	21	2	-	-	-	-	-		
PUBLIC UTILITIES -----	86	37.0	190.50	189.50	184.50-197.50	-	-	-	-	1	6	3	8	35	18	8	2	-	-	-	3	2	-	-	-	-	-		
FINANCE -----	395	36.0	131.50	127.50	114.00-146.50	-	28	118	69	44	45	53	19	10	7	2	-	-	-	-	-	-	-	-	-	-	-		
FILE CLERKS -----	568	37.5	137.00	127.50	114.00-150.00	8	79	119	101	71	48	59	20	12	8	3	5	1	3	2	29	-	-	-	-	-	-		
MANUFACTURING -----	76	39.5	157.00	129.50	116.00-188.00	-	8	16	15	3	3	5	2	2	-	2	1	1	2	13	-	-	-	-	-	-			
NONMANUFACTURING -----	492	37.0	124.00	127.00	114.00-147.00	8	71	103	86	68	45	56	15	10	6	3	3	-	2	16	-	-	-	-	-	-			
FINANCE -----	351	36.5	124.50	120.00	110.00-137.00	8	67	93	59	51	27	36	5	1	2	2	-	-	-	-	-	-	-	-	-	-			
FILE CLERKS, CLASS A -----	83	37.0	168.50	155.00	140.00-194.00	-	3	9	3	5	14	15	8	3	2	-	2	1	1	2	15	-	-	-	-	-			
NONMANUFACTURING -----	63	36.5	147.00	148.00	134.50-156.50	-	3	9	3	5	14	15	8	3	1	-	-	-	-	2	-	-	-	-	-	-			
FILE CLERKS, CLASS B -----	199	37.5	141.50	130.00	122.50-143.00	6	2	31	47	50	18	13	7	5	-	-	-	2	-	13	-	-	-	-	-	-			
MANUFACTURING -----	182	37.0	141.50	130.00	122.00-143.00	6	2	28	43	49	15	12	5	3	4	-	-	-	2	13	-	-	-	-	-	-			
FINANCE -----	120	36.0	126.50	127.00	118.00-131.50	6	2	27	32	40	9	2	1	-	1	-	-	-	-	-	-	-	-	-	-	-			
FILE CLERKS, CLASS C -----	286	37.5	125.00	116.00	109.50-136.50	2	74	79	51	16	16	31	5	4	1	3	3	-	-	1	-	-	-	-	-	-			
NONMANUFACTURING -----	247	37.0	125.50	116.00	109.50-139.00	2	66	66	40	14	16	29	2	4	1	3	3	-	-	1	-	-	-	-	-	-			
FINANCE -----	184	37.0	120.00	113.00	107.00-127.50	2	62	57	24	7	7	23	-	-	-	2	-	-	-	-	-	-	-	-	-	-			
MESSENGERS -----	274	38.0	150.00	139.50	125.00-164.50	-	23	22	56	37	23	26	34	-	14	2	27	-	-	10	-	-	-	-	-	-			
MANUFACTURING -----	101	39.0	144.00	133.00	125.00-154.00	-	-	10	26	22	13	8	13	-	-	-	8	-	-	1	-	-	-	-	-	-			
NONMANUFACTURING -----	173	37.5	153.50	144.50	124.00-183.50	-	23	12	30	15	10	18	21	-	14	2	19	-	-	9	-	-	-	-	-	-			
FINANCE -----	62	36.0	122.00	119.50	109.00-129.50	-	23	8	16	7	3	4	1	-	-	-	-	-	-	-	-	-	-	-	-	-			
SWITCHBOARD OPERATORS -----	221	39.0	176.50	168.00	144.00-213.00	-	4	2	27	19	14	28	23	23	3	6	2	22	1	33	11	2	1	-	-	-			
MANUFACTURING -----	70	39.0	177.00	166.00	150.00-192.00	-	-	-	-	7	5	16	8	14	2	3	1	2	-	8	2	1	1	-	-	-			
NONMANUFACTURING -----	151	38.5	176.00	168.00	134.50-215.50	-	4	2	27	12	9	12	15	9	1	3	1	20	1	25	9	1	-	-	-	-			
ORDER CLERKS -----	111	39.0	168.00	161.00	138.00-188.00	-	2	1	12	15	13	7	14	9	14	6	6	4	-	-	-	8	-	-	-	-			
MANUFACTURING -----	91	38.5	166.50	161.00	144.00-184.50	-	-	-	4	14	12	7	14	9	14	6	6	4	-	-	-	1	-	-	-	-			
ACCOUNTING CLERKS -----	1,312	38.0	187.00	176.00	150.50-207.50	-	3	33	81	116	84	129	136	113	67	72	160	29	16	38	96	67	48	17	2	5			
MANUFACTURING -----	564	39.0	179.00	172.00	155.00-201.00	-	-	5	24	31	36	81	86	66	41	46	57	20	9	17	29	10	2	4	-	-			
NONMANUFACTURING -----	748	37.5	192.50	183.00	142.50-242.50	-	3	28	57	85	48	48	50	47	26	26	103	9	7	21	67	57	46	13	2	5			
PUBLIC UTILITIES -----	274	38.0	231.00	219.50	207.50-273.00	-	-	-	3	3	1	6	-	11	5	9	98	1	4	10	34	42	45	2	-	-			
WHOLESALE TRADE -----	120	38.0	192.00	168.00	148.50-250.00	-	1	4	3	10	13	18	14	8	1	-	-	2	2	6	23	12	1	2	-	-			
FINANCE -----	259	36.5	150.00	138.00	129.00-168.00	-	-	21	45	64	26	16	28	19	16	10	1	5	-	4	4	-	-	-	-	-			
ACCOUNTING CLERKS, CLASS A -----	531	38.5	202.00	191.00	166.00-240.00	-	-	3	19	21	32	27	50	58	33	57	39	23	14	23	55	51	2	17	2	5			
MANUFACTURING -----	285	39.0	193.00	190.00	166.00-215.00	-	-	-	9	16	15	12	27	35	15	41	34	17	9	12	29	9	1	4	-	-			
NONMANUFACTURING -----	246	38.0	212.00	195.00	165.00-267.50	-	-	3	10	5	17	15	23	23	18	16	5	6	5	11	26	42	1	13	2	5			
FINANCE -----	91	36.0	172.50	169.00	152.00-186.50	-	-	3	9	-	10	7	17	12	14	6	1	4	-	4	4	-	-	-	-	-			

See footnotes at end of tables.

Table A-8. Weekly earnings of office workers—large establishments in Newark, N.J., January 1977—Continued

Occupation and industry division	Number of workers	Average weekly hours ¹ (standard)	Weekly earnings ¹ (standard)			Number of workers receiving straight-time weekly earnings of—																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
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See footnotes at end of tables.

Table A-9. Weekly earnings of professional and technical workers—large establishments in Newark, N.J., January 1977

Occupation and industry division	Number of workers	Average weekly hours ¹ (standard)	Weekly earnings ¹ (standard)			Number of workers receiving straight-time weekly earnings of—																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
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See footnotes at end of tables.

Table A-9. Weekly earnings of professional and technical workers—large establishments in Newark, N.J., January 1977—Continued

Occupation and industry division	Number of workers	Average weekly hours ¹ (standard)	Weekly earnings ¹ (standard)			Number of workers receiving straight-time weekly earnings of—																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
			Mean ²	Median ²	Middle range ²	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$

* Workers were distributed as follows: 6 at \$120 to \$130; and 3 at \$130 to \$140.

See footnotes at end of tables.

**Table A-10. Average weekly earnings of office, professional, and technical workers, by sex—
large establishments in Newark, N.J., January 1977**

Sex, ³ occupation, and industry division	Number of workers	Average (mean ²)		Sex, ³ occupation, and industry division	Number of workers	Average (mean ²)		Sex, ³ occupation, and industry division	Number of workers	Average (mean ²)	
		Weekly hours ¹ (standard)	Weekly earnings ¹ (standard)			Weekly hours ¹ (standard)	Weekly earnings ¹ (standard)			Weekly hours ¹ (standard)	Weekly earnings ¹ (standard)
OFFICE OCCUPATIONS - MEN				OFFICE OCCUPATIONS - WOMEN--CONTINUED				OFFICE OCCUPATIONS - WOMEN--CONTINUED			
MESSENGERS -----	135	38.0	\$ 152.50	STENOGRAPHERS - CONTINUED	442	38.0	\$ 198.00	ACCOUNTING CLERKS -----	1,128	38.0	\$ 181.50
NONMANUFACTURING -----	89	37.0	157.00					MANUFACTURING -----	516	39.0	178.00
ACCOUNTING CLERKS -----	184	38.5	220.50					NONMANUFACTURING -----	612	37.5	184.00
NONMANUFACTURING -----	136	38.5	231.00					PUBLIC UTILITIES -----	211	37.5	224.00
PUBLIC UTILITIES -----	63	39.5	254.50					WHOLESALE TRADE -----	95	38.0	183.00
ACCOUNTING CLERKS, CLASS A -----	94	38.5	228.00	FINANCE -----	224	36.5	146.50	ACCOUNTING CLERKS, CLASS A -----	437	38.5	196.00
NONMANUFACTURING -----	59	38.5	244.00	TRANSCRIBING-MACHINE TYPISTS -----	69	36.5	155.00	MANUFACTURING -----	250	39.0	192.00
ACCOUNTING CLERKS, CLASS B -----	90	38.5	213.00	NONMANUFACTURING -----	65	36.5	149.00	NONMANUFACTURING -----	187	38.0	201.50
NONMANUFACTURING -----	77	38.5	221.00	FINANCE -----	55	36.0	148.50	FINANCE -----	72	36.0	167.50
PUBLIC UTILITIES -----	42	39.5	249.50	TYPISTS -----	1,291	37.0	147.50	ACCOUNTING CLERKS, CLASS B -----	691	38.0	172.00
OFFICE OCCUPATIONS - WOMEN				MANUFACTURING -----	366	39.5	145.50	MANUFACTURING -----	266	39.0	165.00
SECRETARIES -----	4,907	38.0	206.50	NONMANUFACTURING -----	925	36.5	148.50	NONMANUFACTURING -----	425	37.0	176.50
MANUFACTURING -----	2,986	39.0	205.50	PUBLIC UTILITIES -----	102	37.0	197.00	PUBLIC UTILITIES -----	181	37.0	219.00
NONMANUFACTURING -----	1,921	37.0	208.00	FINANCE -----	690	36.0	135.50	WHOLESALE TRADE -----	71	38.0	167.50
PUBLIC UTILITIES -----	256	37.0	245.00	TYPISTS, CLASS A -----	483	37.0	151.50	FINANCE -----	152	36.5	136.50
WHOLESALE TRADE -----	187	38.5	233.50	MANUFACTURING -----	136	39.5	154.50	PAYROLL CLERKS -----	51	36.5	203.50
RETAIL TRADE -----	78	38.0	181.00	NONMANUFACTURING -----	347	36.0	150.50	NONMANUFACTURING:			
FINANCE -----	957	36.5	177.00	FINANCE -----	297	36.0	141.00	PUBLIC UTILITIES -----	30	35.0	200.50
SECRETARIES, CLASS A -----	88	37.5	283.00	TYPISTS, CLASS B -----	808	37.5	145.00	KEYPUNCH OPERATORS -----	1,199	37.5	175.50
NONMANUFACTURING -----	56	36.5	280.50	MANUFACTURING -----	230	39.0	140.00	MANUFACTURING -----	363	39.0	176.50
SECRETARIES, CLASS B -----	766	38.0	236.50	NONMANUFACTURING -----	578	36.5	147.00	NONMANUFACTURING -----	836	36.5	175.50
MANUFACTURING -----	379	39.0	247.50	PUBLIC UTILITIES -----	82	37.0	188.00	PUBLIC UTILITIES -----	235	35.5	211.00
NONMANUFACTURING -----	387	37.0	225.50	FINANCE -----	393	36.0	131.50	WHOLESALE TRADE -----	146	38.0	196.50
PUBLIC UTILITIES -----	53	38.0	257.50	FILE CLERKS -----	545	37.5	136.50	FINANCE -----	342	36.0	151.50
FINANCE -----	222	36.5	204.00	MANUFACTURING -----	69	39.5	155.00	KEYPUNCH OPERATORS, CLASS A -----	516	37.5	185.50
SECRETARIES, CLASS C -----	1,924	38.5	217.00	NONMANUFACTURING -----	476	37.0	133.50	MANUFACTURING -----	176	39.0	180.50
MANUFACTURING -----	1,160	39.0	216.00	FINANCE -----	346	36.5	124.50	NONMANUFACTURING -----	340	36.5	188.00
NONMANUFACTURING -----	764	37.5	219.00	FILE CLERKS, CLASS A -----	80	37.0	167.00	FINANCE -----	151	35.5	165.50
PUBLIC UTILITIES -----	166	36.5	235.00	NONMANUFACTURING -----	63	36.5	147.00	KEYPUNCH OPERATORS, CLASS B -----	683	37.0	168.50
WHOLESALE TRADE -----	130	38.5	228.00	FILE CLERKS, CLASS B -----	191	37.5	141.00	MANUFACTURING -----	187	39.0	173.00
FINANCE -----	281	36.5	182.00	NONMANUFACTURING -----	175	37.0	141.00	NONMANUFACTURING -----	496	36.5	166.50
SECRETARIES, CLASS D -----	2,121	38.0	183.00	FINANCE -----	117	36.0	126.50	PUBLIC UTILITIES -----	181	35.5	197.50
MANUFACTURING -----	1,415	39.0	184.00	FILE CLERKS, CLASS C -----	274	37.5	124.50	WHOLESALE TRADE -----	67	37.5	193.00
NONMANUFACTURING -----	706	37.0	180.50	NONMANUFACTURING -----	238	37.0	125.00	FINANCE -----	191	36.5	141.00
FINANCE -----	434	36.5	156.00	MANUFACTURING -----	182	37.0	119.50	TABULATING-MACHINE OPERATORS -----	65	36.5	165.00
STENOGRAPHERS -----	875	38.0	187.00	MESSENGERS -----	139	38.0	147.50	NONMANUFACTURING -----	62	36.5	163.50
MANUFACTURING -----	223	39.0	185.00	MANUFACTURING -----	55	38.5	144.00	PROFESSIONAL AND TECHNICAL OCCUPATIONS - MEN			
NONMANUFACTURING -----	652	37.5	187.50	NONMANUFACTURING -----	84	37.5	149.50	COMPUTER SYSTEMS ANALYSTS			
PUBLIC UTILITIES -----	169	36.5	209.50	SWITCHBOARD OPERATORS -----	220	39.0	176.50	(BUSINESS) -----	860	37.0	374.50
FINANCE -----	197	36.0	147.00	MANUFACTURING -----	69	39.0	177.50	MANUFACTURING -----	276	39.0	367.50
STENOGRAPHERS, GENERAL -----	433	38.0	175.50	NONMANUFACTURING -----	151	38.5	176.00	NONMANUFACTURING -----	584	36.0	378.00
MANUFACTURING -----	69	39.5	156.50	ORDER CLERKS -----	95	39.0	163.00	FINANCE -----	332	36.5	348.00
NONMANUFACTURING -----	364	37.5	179.00	MANUFACTURING -----	77	38.5	162.00	COMPUTER SYSTEMS ANALYSTS			
PUBLIC UTILITIES -----	141	37.0	208.00					(BUSINESS), CLASS A -----	364	37.0	410.50
FINANCE -----	95	36.0	137.00					MANUFACTURING -----	127	38.5	408.00
								NONMANUFACTURING -----	237	36.0	412.00
								FINANCE -----	135	36.5	379.00

See footnotes at end of tables.

Table A-10. Average weekly earnings of office, professional, and technical workers, by sex—large establishments in Newark, N.J., January 1977—Continued

Sex, ³ occupation, and industry division	Number of workers	Average (mean ²)		Sex, ³ occupation, and industry division	Number of workers	Average (mean ²)		Sex, ³ occupation, and industry division	Number of workers	Average (mean ²)	
		Weekly hours ¹ (standard)	Weekly earnings ¹ (standard)			Weekly hours ¹ (standard)	Weekly earnings ¹ (standard)			Weekly hours ¹ (standard)	Weekly earnings ¹ (standard)
PROFESSIONAL AND TECHNICAL OCCUPATIONS - MEN--CONTINUED				PROFESSIONAL AND TECHNICAL OCCUPATIONS - MEN--CONTINUED				PROFESSIONAL AND TECHNICAL OCCUPATIONS - WOMEN			
COMPUTER SYSTEMS ANALYSTS (BUSINESS) - CONTINUED				COMPUTER OPERATORS - CONTINUED				COMPUTER SYSTEMS ANALYSTS (BUSINESS) -----	182	36.5	\$ 371.50
COMPUTER SYSTEMS ANALYSTS (BUSINESS), CLASS B -----	416	37.0	355.50	COMPUTER OPERATORS, CLASS A -----	186	37.0	243.50	NONMANUFACTURING -----	165	36.0	372.50
MANUFACTURING -----	112	39.0	346.00	MANUFACTURING -----	53	39.0	229.50	COMPUTER SYSTEMS ANALYSTS (BUSINESS), CLASS B -----	119	36.5	357.50
NONMANUFACTURING -----	304	36.0	359.00	NONMANUFACTURING -----	133	36.5	249.00	NONMANUFACTURING -----	112	36.0	358.50
FINANCE -----	178	36.5	327.50	FINANCE -----	83	36.0	229.00	COMPUTER PROGRAMMERS (BUSINESS) -----	221	37.5	272.50
COMPUTER SYSTEMS ANALYSTS (BUSINESS), CLASS C -----	80	37.5	311.50	COMPUTER OPERATORS, CLASS B -----	303	38.0	216.50	MANUFACTURING -----	62	38.5	301.00
COMPUTER PROGRAMMERS (BUSINESS) -----	515	37.0	285.00	MANUFACTURING -----	96	39.5	221.00	NONMANUFACTURING -----	159	37.0	261.50
MANUFACTURING -----	138	38.5	308.50	NONMANUFACTURING -----	207	37.0	214.00	PUBLIC UTILITIES -----	25	35.0	306.00
NONMANUFACTURING -----	377	36.5	276.50	FINANCE -----	119	37.0	188.50	FINANCE -----	129	37.0	251.50
PUBLIC UTILITIES -----	47	35.0	340.00	COMPUTER OPERATORS, CLASS C -----	83	37.0	172.50	COMPUTER PROGRAMMERS (BUSINESS), CLASS A -----	52	37.0	310.00
FINANCE -----	300	36.5	264.50	NONMANUFACTURING -----	55	36.0	164.00	COMPUTER PROGRAMMERS (BUSINESS), CLASS B -----	104	37.5	278.50
COMPUTER PROGRAMMERS (BUSINESS), CLASS A -----	147	37.5	315.50	DRAFTERS -----	618	38.5	282.00	NONMANUFACTURING -----	77	37.0	277.50
MANUFACTURING -----	69	38.5	324.50	MANUFACTURING -----	288	40.0	261.00	COMPUTER PROGRAMMERS (BUSINESS), CLASS C -----	65	37.5	233.00
NONMANUFACTURING -----	78	36.5	308.00	NONMANUFACTURING -----	330	37.5	300.00	NONMANUFACTURING -----	53	37.0	232.00
COMPUTER PROGRAMMERS (BUSINESS), CLASS B -----	263	37.5	279.00	DRAFTERS, CLASS A -----	202	38.5	324.50	COMPUTER OPERATORS -----	157	36.0	213.00
MANUFACTURING -----	60	39.0	297.50	MANUFACTURING -----	138	40.0	300.00	NONMANUFACTURING -----	144	35.5	214.00
NONMANUFACTURING -----	203	37.0	274.00	DRAFTERS, CLASS B -----	278	38.5	284.00	FINANCE -----	57	36.0	189.00
FINANCE -----	180	36.5	271.00	MANUFACTURING -----	82	40.0	251.50	DRAFTERS -----	55	39.5	224.00
COMPUTER PROGRAMMERS (BUSINESS), CLASS C -----	105	36.5	257.00	NONMANUFACTURING -----	196	38.0	297.50	REGISTERED INDUSTRIAL NURSES -----	141	38.5	244.50
NONMANUFACTURING -----	96	36.5	256.50	DRAFTERS, CLASS C -----	127	38.5	219.00	MANUFACTURING -----	102	39.0	238.50
FINANCE -----	76	36.5	230.00	MANUFACTURING -----	58	40.0	197.50				
COMPUTER OPERATORS -----	572	37.5	219.00	NONMANUFACTURING -----	69	37.5	237.50				
MANUFACTURING -----	177	39.5	218.50	ELECTRONICS TECHNICIANS -----	529	40.0	237.50				
NONMANUFACTURING -----	395	36.5	219.00	ELECTRONICS TECHNICIANS, CLASS A -----	127	40.0	265.00				
WHOLESALE TRADE -----	50	37.5	257.50	MANUFACTURING -----	96	40.0	251.00				
FINANCE -----	251	36.5	196.50	ELECTRONICS TECHNICIANS, CLASS B -----	240	40.0	257.50				

See footnotes at end of tables.

Table A-11. Hourly earnings of maintenance, toolroom, and powerplant workers—large establishments in Newark, N.J., January 1977

Occupation and industry division	Number of workers	Hourly earnings ¹			Number of workers receiving straight-time hourly earnings of—																											
		Mean ²	Median ²	Middle range ²	\$ 3.80	\$ 4.00	\$ 4.20	\$ 4.40	\$ 4.60	\$ 4.80	\$ 5.00	\$ 5.20	\$ 5.40	\$ 5.60	\$ 5.80	\$ 6.00	\$ 6.20	\$ 6.40	\$ 6.80	\$ 7.20	\$ 7.60	\$ 8.00	\$ 8.40	\$ 8.80	\$ 9.20	\$ 9.60	\$ 10.00					
					and under	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
					4.00	4.20	4.40	4.60	4.80	5.00	5.20	5.40	5.60	5.80	6.00	6.20	6.40	6.80	7.20	7.60	8.00	8.40	8.80	9.20	9.60	10.00						
ALL WORKERS																																
MAINTENANCE CARPENTERS -----	220	7.17	7.00	6.02- 7.77	-	-	-	-	-	-	-	-	12	2	41	8	7	12	37	35	30	13	6	3	-	-	-	-	-	14		
MANUFACTURING -----	108	6.87	6.81	6.32- 7.62	-	-	-	-	-	-	-	-	10	2	6	8	7	9	33	2	23	2	6	-	-	-	-	-	-	-		
NONMANUFACTURING -----	112	7.46	7.53	5.97- 7.87	-	-	-	-	-	-	-	-	2	-	35	-	-	3	4	33	7	11	-	3	-	-	-	-	-	*14		
MAINTENANCE ELECTRICIANS -----	539	7.29	7.11	6.34- 8.38	-	-	-	-	-	-	-	-	9	26	33	9	63	61	93	13	95	47	81	-	-	-	-	-	-	9		
MANUFACTURING -----	431	7.09	6.81	6.32- 7.77	-	-	-	-	-	-	-	-	9	26	33	9	63	57	69	13	62	9	81	-	-	-	-	-	-	-		
NONMANUFACTURING -----	108	8.08	7.73	7.19- 8.38	-	-	-	-	-	-	-	-	-	-	-	-	-	4	24	-	33	38	-	-	-	-	-	-	-	9		
PUBLIC UTILITIES -----	70	7.84	8.38	7.19- 8.38	-	-	-	-	-	-	-	-	-	-	-	-	-	4	20	-	8	38	-	-	-	-	-	-	-	-		
MAINTENANCE PAINTERS -----	148	7.08	6.71	6.32- 7.77	-	-	-	-	-	2	-	-	8	2	8	4	18	33	17	10	12	9	21	-	-	-	-	-	4	-		
MANUFACTURING -----	117	6.80	6.71	6.32- 7.33	-	-	-	-	-	2	-	-	8	2	8	4	18	26	17	9	12	-	11	-	-	-	-	-	-	-		
MAINTENANCE MACHINISTS -----	294	7.33	7.38	6.56- 8.62	-	-	-	-	-	-	-	-	-	24	-	11	12	69	29	31	24	9	85	-	-	-	-	-	-	-		
MANUFACTURING -----	279	7.33	7.38	6.56- 8.62	-	-	-	-	-	-	-	-	-	24	-	11	12	69	21	30	19	8	85	-	-	-	-	-	-	-		
MAINTENANCE MECHANICS (MACHINERY) -	661	7.38	7.15	6.58- 8.58	-	-	-	-	-	-	12	-	21	1	77	12	20	42	146	36	44	40	201	-	-	-	-	3	6			
MANUFACTURING -----	541	7.25	6.81	6.33- 8.58	-	-	-	-	-	-	12	-	21	1	77	12	20	39	145	6	7	-	201	-	-	-	-	-	-	-		
MAINTENANCE MECHANICS (MOTOR VEHICLES) -----	596	7.68	7.77	7.61- 7.83	-	-	-	-	-	-	-	-	-	20	-	9	-	10	29	2	428	49	49	-	-	-	-	-	-	-		
MANUFACTURING -----	65	7.35	7.77	5.66- 8.54	-	-	-	-	-	-	-	-	-	20	-	-	-	-	10	-	4	-	31	-	-	-	-	-	-	-		
NONMANUFACTURING -----	531	7.72	7.76	7.61- 7.83	-	-	-	-	-	-	-	-	-	-	-	9	-	10	19	2	424	49	18	-	-	-	-	-	-	-		
PUBLIC UTILITIES -----	531	7.72	7.76	7.61- 7.83	-	-	-	-	-	-	-	-	-	-	-	9	-	10	19	2	424	49	18	-	-	-	-	-	-	-		
MAINTENANCE PIPEFITTERS -----	441	7.40	7.48	6.32- 7.77	-	-	-	-	-	-	-	-	-	31	5	20	69	28	55	31	127	3	30	-	-	-	-	-	42			
MANUFACTURING -----	384	7.35	7.18	6.32- 7.77	-	-	-	-	-	-	-	-	-	31	5	14	69	24	50	13	112	-	30	-	-	-	-	-	36			
NONMANUFACTURING -----	57	7.72	7.53	7.08- 7.95	-	-	-	-	-	-	-	-	-	-	-	6	-	4	5	18	15	3	-	-	-	-	-	-	-	**6		
MAINTENANCE SHEET-METAL WORKERS ---	85	7.09	7.03	6.53- 7.70	-	-	-	-	-	-	-	-	-	15	-	3	-	12	16	8	18	-	13	-	-	-	-	-	-	-		
MANUFACTURING -----	78	7.06	6.87	6.52- 7.77	-	-	-	-	-	-	-	-	-	15	-	3	-	12	16	1	18	-	13	-	-	-	-	-	-	-		
MILLWRIGHTS -----	299	7.22	7.53	6.32- 7.77	-	-	-	-	-	-	-	-	4	8	6	10	93	3	17	13	77	-	68	-	-	-	-	-	-	-		
MANUFACTURING -----	261	7.20	7.06	6.32- 7.77	-	-	-	-	-	-	-	-	4	8	6	10	93	3	17	-	72	-	68	-	-	-	-	-	-	-		
MAINTENANCE TRADES HELPERS -----	118	5.30	5.27	4.76- 5.96	-	-	-	3	41	13	1	10	10	-	31	5	-	4	-	-	-	-	-	-	-	-	-	-	-	-		
MANUFACTURING -----	59	4.94	4.82	4.74- 5.27	-	-	-	3	26	12	1	8	9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
MACHINE-TOOL OPERATORS (TOOLROOM) -	218	7.63	8.62	6.58- 8.62	-	-	-	-	-	-	8	-	2	-	2	1	4	80	-	-	-	2	119	-	-	-	-	-	-	-		
MANUFACTURING -----	218	7.63	8.62	6.58- 8.62	-	-	-	-	-	-	8	-	2	-	2	1	4	80	-	-	-	2	119	-	-	-	-	-	-	-		
TOOL AND DIE MAKERS -----	473	7.55	7.38	7.05- 7.89	-	-	-	-	-	-	-	-	-	12	-	-	30	14	139	64	97	24	46	47	-	-	-	-	-	-		
MANUFACTURING -----	381	7.47	7.08	6.96- 8.35	-	-	-	-	-	-	-	-	-	12	-	-	30	14	139	64	5	24	46	47	-	-	-	-	-	-		
STATIONARY ENGINEERS -----	257	8.18	7.95	7.15- 9.44	-	-	1	-	-	-	-	-	4	9	6	5	4	9	29	12	66	5	21	1	61	1	23					
MANUFACTURING -----	141	8.16	8.73	7.01- 9.44	-	-	-	-	-	-	-	-	4	8	6	5	3	7	17	6	-	5	15	1	61	1	2					
NONMANUFACTURING -----	116	8.20	7.89	7.88- 7.95	-	-	1	-	-	-	-	-	-	1	-	-	1	2	12	6	66	-	6	-	-	-	-	-	-	***21		
BOILER TENDERS -----	109	7.03	6.06	5.71- 8.91	-	-	-	-	-	-	-	9	1	20	20	6	1	2	11	6	4	-	-	5	16	-	8					
MANUFACTURING -----	92	6.69	5.95	5.65- 7.33	-	-	-	-	-	-	-	9	1	20	20	3	-	2	11	6	4	-	-	-	16	-	-	-	-	-		

* Workers were distributed as follows: 4 at \$10 to \$10.40; 8 at \$10.40 to \$10.80; and 2 at \$10.80 to \$11.20.

** Workers were at \$10 to \$10.40.

*** Workers were distributed as follows: 2 at \$10 to \$10.40; and 19 at \$10.40 to \$10.80.

See footnotes at end of tables.

Table A-12. Hourly earnings of material movement and custodial workers—large establishments in Newark, N.J., January 1977

Occupation and industry division	Number of workers	Hourly earnings ⁴			Number of workers receiving straight-time hourly earnings of—																								
		Mean ²	Median ²	Middle range ²	\$ 2.40 and under	\$ 2.60	\$ 2.80	\$ 3.00	\$ 3.20	\$ 3.40	\$ 3.60	\$ 3.80	\$ 4.00	\$ 4.20	\$ 4.40	\$ 4.80	\$ 5.20	\$ 5.60	\$ 6.00	\$ 6.40	\$ 6.80	\$ 7.20	\$ 7.60	\$ 8.00	\$ 8.40	\$ 8.80	\$ 9.20	\$ and over	
					2.60	2.80	3.00	3.20	3.40	3.60	3.80	4.00	4.20	4.40	4.80	5.20	5.60	6.00	6.40	6.80	7.20	7.60	8.00	8.40	8.80	9.20	over		
ALL WORKERS																													
TRUCKDRIVERS -----	878	8.02	7.78	6.25- 7.79	-	-	-	-	-	-	-	-	-	5	1	8	26	52	108	65	18	19	27	403	-	-	-	-	*146
MANUFACTURING -----	280	9.84	12.03	5.76-13.51	-	-	-	-	-	-	-	-	-	-	-	1	14	44	21	8	16	12	17	1	-	-	-	-	146
NONMANUFACTURING -----	598	7.17	7.78	6.26- 7.79	-	-	-	-	-	-	-	-	-	5	1	7	12	8	87	57	2	7	10	402	-	-	-	-	-
PUBLIC UTILITIES -----	504	7.46	7.79	7.78- 7.79	-	-	-	-	-	-	-	-	-	-	1	-	1	3	30	57	-	-	10	402	-	-	-	-	-
TRUCKDRIVERS, MEDIUM TRUCK -----	464	9.37	7.79	7.79-13.22	-	-	-	-	-	-	-	-	-	-	-	-	4	2	12	7	11	7	10	265	-	-	-	-	146
TRUCKDRIVERS, HEAVY TRUCK (TRAILER) -----	239	7.08	7.78	5.93- 7.78	-	-	-	-	-	-	-	-	-	-	-	-	-	12	65	-	7	-	17	138	-	-	-	-	-
SHIPPING CLERKS -----	92	5.82	5.59	5.37- 6.13	-	-	-	-	-	-	-	-	3	-	2	3	12	36	9	11	-	-	-	16	-	-	-	-	-
MANUFACTURING -----	82	5.82	5.59	5.34- 6.18	-	-	-	-	-	-	-	-	3	-	2	3	11	35	7	5	-	-	-	16	-	-	-	-	-
RECEIVING CLERKS -----	119	5.92	6.01	5.24- 6.60	-	-	-	-	-	-	2	3	3	1	1	7	13	28	2	28	3	-	14	15	-	-	-	-	-
MANUFACTURING -----	75	6.11	5.43	5.17- 7.44	-	-	-	-	-	-	-	3	3	-	-	1	13	22	1	1	2	-	14	15	-	-	-	-	-
WAREHOUSEMEN -----	1,842	6.86	7.48	7.44- 7.48	-	-	3	2	-	1	1	33	95	15	1	89	63	36	75	38	1	-	1200	190	-	-	-	-	-
MANUFACTURING -----	621	7.10	7.44	7.44- 7.75	-	-	-	-	-	-	-	-	-	-	-	35	5	33	29	38	1	-	290	190	-	-	-	-	-
ORDER FILLERS -----	458	6.07	6.70	5.55- 7.47	-	15	26	10	2	18	4	2	5	2	1	20	3	20	26	26	52	92	135	-	-	-	-	-	-
NONMANUFACTURING -----	418	6.12	6.82	5.55- 7.47	-	15	26	10	2	18	4	2	5	2	1	8	1	20	26	-	52	92	135	-	-	-	-	-	-
PUBLIC UTILITIES -----	50	5.66	5.91	5.55- 5.91	-	-	-	-	-	-	-	-	-	2	1	1	1	20	26	-	-	-	-	-	-	-	-	-	-
SHIPPING PACKERS -----	128	4.99	5.09	4.43- 5.37	3	2	2	1	-	-	3	5	3	-	1	37	20	24	17	-	7	-	-	-	4	-	-	-	-
MANUFACTURING -----	101	5.26	5.12	4.70- 5.37	-	-	-	-	-	-	-	-	-	-	1	34	20	24	14	-	5	-	-	-	4	-	-	-	-
MATERIAL HANDLING LABORERS -----	1,004	5.36	5.35	4.51- 6.36	27	25	30	9	25	30	19	14	10	18	1	126	147	74	42	232	15	39	57	65	-	-	-	-	-
MANUFACTURING -----	376	5.11	5.05	4.54- 5.23	-	-	-	-	-	9	-	-	-	17	1	120	134	18	34	9	-	33	-	2	-	-	-	-	-
NONMANUFACTURING -----	628	5.51	6.15	3.82- 6.36	27	25	30	9	25	21	19	14	10	1	1	6	13	56	8	223	15	6	57	63	-	-	-	-	-
RETAIL TRADE -----	172	4.77	3.74	2.72- 7.47	27	24	9	2	11	8	7	4	3	1	1	2	8	-	1	-	2	6	57	-	-	-	-	-	-
FORKLIFT OPERATORS -----	876	5.63	5.27	5.16- 6.65	-	-	-	-	-	2	2	1	-	1	1	78	277	248	8	30	41	152	34	2	-	-	-	-	-
MANUFACTURING -----	747	5.48	5.24	5.14- 5.36	-	-	-	-	-	-	-	-	-	-	1	75	277	230	6	21	16	119	1	2	-	-	-	-	-
NONMANUFACTURING -----	129	6.51	6.91	6.01- 7.47	-	-	-	-	-	2	2	1	-	1	1	3	-	18	2	9	25	33	33	-	-	-	-	-	-
GUARDS AND WATCHMEN: -----																													
MANUFACTURING -----	404	5.11	4.70	4.31- 5.74	-	-	-	-	-	-	7	2	7	170	1	24	31	43	31	14	49	26	-	-	-	-	-	-	-
NONMANUFACTURING: -----																													
RETAIL TRADE -----	106	3.35	3.13	3.08- 3.61	-	2	7	53	8	9	10	8	3	2	1	3	-	1	-	-	-	-	-	-	-	-	-	-	-
FINANCE -----	104	3.72	3.64	3.19- 4.38	2	-	8	16	22	3	7	7	5	10	1	23	1	-	-	-	-	-	-	-	-	-	-	-	-
GUARDS: -----																													
MANUFACTURING -----	390	5.08	4.55	4.31- 5.74	-	-	-	-	-	-	7	2	7	170	1	24	31	43	31	-	49	26	-	-	-	-	-	-	-
JANITORS, PORTERS, AND CLEANERS -----	2,011	4.99	5.09	4.51- 5.34	3	25	30	23	110	25	39	51	61	88	1	242	442	431	262	22	108	-	27	22	-	-	-	-	-
MANUFACTURING -----	1,143	5.21	5.18	4.60- 5.60	-	-	-	3	-	-	3	15	44	60	1	216	267	239	182	3	81	-	8	22	-	-	-	-	-
NONMANUFACTURING -----	868	4.69	4.95	3.67- 5.34	3	25	30	20	110	25	36	36	17	28	1	26	175	192	80	19	27	-	19	-	-	-	-	-	-
PUBLIC UTILITIES -----	353	5.54	5.34	5.34- 5.63	-	-	-	-	-	-	-	-	-	2	1	4	59	192	52	19	6	-	19	-	-	-	-	-	-
RETAIL TRADE -----	138	3.44	3.25	2.80- 3.67	3	23	27	12	20	14	18	-	6	5	1	1	1	-	-	-	8	-	-	-	-	-	-	-	-

* Workers were distributed as follows: 2 at \$9.60 to \$10; 1 at \$11.20 to \$11.60; 3 at \$11.60 to \$12; 4 at \$12 to \$12.40; 6 at \$12.40 to \$12.80; 14 at \$12.80 to \$13.20; 79 at \$13.20 to \$13.60; 35 at \$13.60 to \$14; and 2 at \$14 to \$14.40.

See footnotes at end of tables.

Table A-13. Average hourly earnings of maintenance, toolroom, powerplant, material movement, and custodial workers, by sex—large establishments in Newark, N.J., January 1977

Sex, ³ occupation, and industry division	Number of workers	Average (mean ²) hourly earnings ⁴	Sex, ³ occupation, and industry division	Number of workers	Average (mean ²) hourly earnings ⁴
MAINTENANCE, TOOLROOM, AND POWERPLANT OCCUPATIONS - MEN			MATERIAL MOVEMENT AND CUSTODIAL OCCUPATIONS - MEN--CONTINUED		
MAINTENANCE CARPENTERS -----	220	\$ 7.17	TRUCKDRIVERS - CONTINUED		
MANUFACTURING -----	108	6.87	TRUCKDRIVERS, MEDIUM TRUCK -----	464	\$ 9.37
NONMANUFACTURING -----	112	7.46	TRUCKDRIVERS, HEAVY TRUCK (TRAILER) -----	239	7.08
MAINTENANCE ELECTRICIANS -----	539	7.29	SHIPPING CLERKS -----	92	5.82
MANUFACTURING -----	431	7.09	MANUFACTURING -----	82	5.82
NONMANUFACTURING -----	108	8.08	RECEIVING CLERKS -----	116	5.94
PUBLIC UTILITIES -----	70	7.84	MANUFACTURING -----	72	6.15
MAINTENANCE PAINTERS -----	146	7.08	WAREHOUSEMEN -----	1,841	6.86
MANUFACTURING -----	115	6.79	MANUFACTURING -----	621	7.10
MAINTENANCE MACHINISTS -----	294	7.33	ORDER FILLERS -----	368	6.71
MANUFACTURING -----	279	7.33	NONMANUFACTURING -----	328	6.85
MAINTENANCE MECHANICS (MACHINERY) -	661	7.38	PUBLIC UTILITIES -----	48	5.72
MANUFACTURING -----	541	7.25	SHIPPING PACKERS -----	65	5.07
MAINTENANCE MECHANICS (MOTOR VEHICLES) -----	596	7.68	MATERIAL HANDLING LABORERS -----	936	5.49
MANUFACTURING -----	65	7.35	MANUFACTURING -----	372	5.11
NONMANUFACTURING -----	531	7.72	NONMANUFACTURING -----	564	5.74
PUBLIC UTILITIES -----	531	7.72	RETAIL TRADE -----	163	4.85
MAINTENANCE PIPEFITTERS -----	441	7.40	FORKLIFT OPERATORS -----	876	5.63
MANUFACTURING -----	384	7.35	MANUFACTURING -----	747	5.48
NONMANUFACTURING -----	57	7.72	NONMANUFACTURING -----	129	6.51
MAINTENANCE SHEET-METAL WORKERS -----	85	7.09	GUARDS AND WATCHMEN: -----		
MANUFACTURING -----	78	7.06	MANUFACTURING -----	381	5.14
MILLWRIGHTS -----	299	7.22	NONMANUFACTURING: -----		
MANUFACTURING -----	281	7.20	RETAIL TRADE -----	104	3.31
MAINTENANCE TRADES HELPERS -----	117	5.30	FINANCE -----	103	3.73
MANUFACTURING -----	59	4.94	GUARDS: -----		
MACHINE-TOOL OPERATORS (TOOLROOM) -	218	7.63	MANUFACTURING -----	367	5.10
MANUFACTURING -----	218	7.63	JANITORS, PORTERS, AND CLEANERS -----	1,557	5.12
TOOL AND DIE MAKERS -----	473	7.55	MANUFACTURING -----	954	5.25
MANUFACTURING -----	381	7.47	NONMANUFACTURING -----	603	4.92
STATIONARY ENGINEERS -----	257	8.18	PUBLIC UTILITIES -----	287	5.60
MANUFACTURING -----	141	8.16	RETAIL TRADE -----	113	3.53
NONMANUFACTURING -----	116	8.20	MATERIAL MOVEMENT AND CUSTODIAL OCCUPATIONS - WOMEN		
BOILER TENDERS -----	107	7.04	SHIPPING PACKERS -----	63	4.92
MANUFACTURING -----	90	6.70	MANUFACTURING -----	52	5.13
MATERIAL MOVEMENT AND CUSTODIAL OCCUPATIONS - MEN			GUARDS AND WATCHMEN -----	77	3.66
TRUCKDRIVERS -----	876	8.03	JANITORS, PORTERS, AND CLEANERS -----	454	4.53
MANUFACTURING -----	279	9.85	MANUFACTURING -----	189	5.04
NONMANUFACTURING -----	597	7.18	NONMANUFACTURING -----	265	4.16
PUBLIC UTILITIES -----	503	7.46			

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: a fourth of the workers earn the same or less than the lower of these rates and a 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

Data on area wages and related benefits are obtained by personal visits of Bureau field representatives at 3-year intervals. In each of the intervening years, information on employment and occupational earnings is collected by a combination of personal visit, mail questionnaire, and telephone interview from establishments participating in the previous survey.

In each of the 74¹ areas currently surveyed, data are obtained 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. Major industry groups excluded from these studies are government operations and the construction and extractive industries. Establishments having fewer than a prescribed number of workers are omitted because of insufficient employment in the occupations studied. Separate tabulations are provided for each of the broad industry divisions which meet publication criteria.

These surveys are conducted on a sample basis. 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.

¹ Included in the 74 areas are 4 studies conducted by the Bureau under contract. These areas are Akron, Ohio; Birmingham, Ala.; Norfolk—Virginia Beach—Portsmouth and Newport News—Hampton, Va.—N.C.; and Syracuse, N.Y. 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.

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) employment in the occupation is too small to provide enough data to merit presentation, 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. Vertical lines within the distribution of workers on some A-tables indicate a change in the size of the class intervals.

These surveys measure the level of occupational earnings in an area at a particular time. Comparisons of individual occupational averages over time may not reflect expected wage changes. The averages for individual jobs are affected by changes in wages and employment patterns. For example, proportions of workers employed by high- or low-wage firms may change, or high-wage workers may advance to better jobs and be 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

The percent increases presented in table A-7 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. Hirings, layoffs, and 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.

The percent changes relate to wage changes between the indicated dates. When the time span between surveys is other than 12 months, annual rates are shown. (It is assumed that wages increase at a constant rate between surveys.)

Occupations used to compute wage trends are:

Office clerical

Secretaries
Stenographers, general
Stenographers, senior
Typists, classes A and B
File clerks, classes A, B, and C
Messengers
Switchboard operators

Office clerical—Continued

Order clerks
Accounting clerks, classes A and B
Bookkeeping-machine operators, class B
Payroll clerks
Key punch operators, classes A and B

Electronic data processing

Computer systems analysts, classes A, B, and C
Computer programmers, classes A, B, and C
Computer operators, classes A, B, and C

Skilled maintenance

Carpenters
Electricians
Painters
Machinists
Mechanics (machinery)
Mechanics (motor vehicle)
Pipefitters
Tool and die makers

Industrial nurses

Registered industrial nurses

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 in the base year.
3. These weights are used to compute group averages. Each occupation's average earnings (computed in step 1) is 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.

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.

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.

**Appendix table 1 Establishments and workers within scope of survey and number studied
in Newark, N.J.,¹ January 1977**

Industry division ²	Minimum employment in establish- ments in scope of study	Number of establishments		Workers in establishments		
		Within scope of study ³	Studied	Within scope of study ⁴		Studied
				Number	Percent	
ALL ESTABLISHMENTS						
ALL DIVISIONS -----	-	1,202	244	346,353	100	175,863
MANUFACTURING -----	100	496	94	159,307	46	70,273
NONMANUFACTURING -----	-	706	150	187,046	54	105,590
TRANSPORTATION, COMMUNICATION, AND OTHER PUBLIC UTILITIES ⁵ -----	100	56	20	37,622	11	32,232
WHOLESALE TRADE -----	50	175	34	26,563	8	12,341
RETAIL TRADE -----	100	89	22	35,901	10	19,161
FINANCE, INSURANCE, AND REAL ESTATE ⁶ -----	50	149	32	44,702	13	24,797
SERVICES ⁷ -----	50	237	42	42,258	12	17,059
LARGE ESTABLISHMENTS						
ALL DIVISIONS -----	-	135	82	188,528	100	146,923
MANUFACTURING -----	500	63	35	82,007	43	57,413
NONMANUFACTURING -----	-	72	47	106,521	57	89,510
TRANSPORTATION, COMMUNICATION, AND OTHER PUBLIC UTILITIES ⁵ -----	500	13	11	32,142	17	30,948
WHOLESALE TRADE -----	500	8	7	9,391	5	8,786
RETAIL TRADE -----	500	16	10	21,815	12	16,680
FINANCE, INSURANCE, AND REAL ESTATE ⁶ -----	500	29	15	30,864	16	22,005
SERVICES ⁷ -----	500	6	4	12,309	7	11,091

¹ The Newark Standard Metropolitan Statistical Area, as defined by the Office of Management and Budget through February 1974, consists of Essex, Morris, Somerset, and Union Counties. The "workers within scope of study" estimates shown in this table 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 employment indexes 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 in classifying establishments by industry division. However, 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 companies in industries such as trade, finance, auto repair service, and motion picture theaters are considered as 1 establishment.

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

⁵ Abbreviated to "public utilities" in the A-series tables. Taxicabs and services incidental to water transportation are excluded.

⁶ Abbreviated to "finance" in the A-series tables.

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 staff 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 the grouping of 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 economists are instructed to exclude working supervisors; apprentices; learners; beginners; and part-time, temporary, and probationary workers. Handicapped workers whose earnings are reduced because of their handicap are also excluded. Trainees are excluded from the survey except for those receiving on-the-job training in some of the lower level professional and technical occupations.

Office

SECRETARY

Assigned as personal secretary, normally to one individual. Maintains a close and highly responsive relationship to the day-to-day work of the supervisor. Works fairly independently receiving a minimum of detailed supervision and guidance. Performs varied clerical and secretarial duties, usually including most of the following:

- a. Receives telephone calls, personal callers, and incoming mail, answers routine inquiries, and routes technical inquiries to the proper persons;
- b. Establishes, maintains, and revises the supervisor's files;
- c. Maintains the supervisor's calendar and makes appointments as instructed;
- d. Relays messages from supervisor to subordinates;
- e. Reviews correspondence, memoranda, and reports prepared by others for the supervisor's signature to assure procedural and typographic accuracy;
- f. Performs stenographic and typing work.

SECRETARY—Continued

May also perform other clerical and secretarial tasks of comparable nature and difficulty. The work typically requires 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. Secretary positions in which the duties are either substantially more routine or substantially more complex and responsible than those characterized in the definition;

Exclusions—Continued

e. Assistant-type positions which involve more difficult or more responsible technical, administrative, supervisory, or specialized clerical duties which are not typical of secretarial work.

NOTE: The term "corporate officer," used in the level definitions following, refers to those officials who have a significant corporatewide policymaking 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 following level definitions.

Class A

1. 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

2. 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

3. 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.

Class B

1. Secretary to the chairman of the board or president of a company that employs, in all, fewer than 100 persons; or

2. Secretary to a corporate officer (other than the chairman of the board or president) of a company that employs, in all, over 100 but fewer than 5,000 persons; or

3. Secretary to the head, immediately below the officer level, over either a major corporationwide 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

4. 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

5. 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) or a company that employs, in all, over 25,000 persons.

Class C

1. Secretary to an executive or managerial person whose responsibility is not equivalent to one of the specific level situations in the definition for class B, 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

2. 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.

Class D

1. Secretary to the supervisor or head of a small organizational unit (e.g., fewer than about 25 or 30 persons); or

2. 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.)

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, General

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

Stenographer, Senior

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, general, 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 followup 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 transcribe dictation involving a normal routine vocabulary from transcribing-machine records. May also type from written copy and do simple clerical work. Workers transcribing dictation involving a varied technical or specialized vocabulary such as legal briefs or reports on scientific research are not included. A worker who takes dictation in shorthand or by Stenotype or similar machine is classified as a stenographer.

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.

Class A. 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.

Class B. 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.

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.

Class A. 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.

Class B. 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.

Class C. 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 materials; and may fill out withdrawal charge. May perform simple clerical and manual tasks required to maintain and service files.

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 customers' orders for material or merchandise by mail, phone, or personally. Duties involve any combination of the following: Quoting prices to customers; making out an order sheet listing the items to make up the order; checking prices and quantities of items on order sheet; and distributing order sheets to respective departments to be filled. May check with credit department to determine credit rating of customer, acknowledge receipt of orders from customers, follow up orders to see that they have been filled, keep file of orders received, and check shipping invoices with original orders.

ACCOUNTING CLERK

Performs one or more accounting clerical tasks such as posting to registers and ledgers; reconciling bank accounts; verifying the internal consistency, completeness, and mathematical accuracy of accounting documents; assigning prescribed accounting distribution codes; examining and verifying for clerical accuracy various types of reports, lists, calculations, posting, etc.; or preparing simple or assisting in preparing more complicated journal vouchers. May work in either a manual or automated accounting system.

The work requires a knowledge of clerical methods and office practices and procedures which relates to the clerical processing and recording of transactions and accounting information. With experience, the worker typically becomes familiar with the bookkeeping and accounting terms and procedures used in the assigned work, but is not required to have a knowledge of the formal principles of bookkeeping and accounting.

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

ACCOUNTING CLERK—Continued

Class A. Under general supervision, performs accounting clerical operations which require the application of experience and judgment, for example, clerically processing complicated or nonrepetitive accounting transactions, selecting among a substantial variety of prescribed accounting codes and classifications, or tracing transactions through previous accounting actions to determine source of discrepancies. May be assisted by one or more class B accounting clerks.

Class B. Under close supervision, following detailed instructions and standardized procedures, performs one or more routine accounting clerical operations, such as posting to ledgers, cards, or worksheets where identification of items and locations of postings are clearly indicated; checking accuracy and completeness of standardized and repetitive records or accounting documents; and coding documents using a few prescribed accounting codes.

BOOKKEEPING-MACHINE OPERATOR

Operates a bookkeeping machine (with or without a typewriter keyboard) to keep a record of business transactions.

Class A. Keeps a set of records requiring a knowledge of and experience in basic bookkeeping principles, and familiarity with the structure of the particular accounting system used. Determines proper records and distribution of debit and credit items to be used in each phase of the work. May prepare consolidated reports, balance sheets, and other records by hand.

Class B. Keeps a record of one or more phases or sections of a set of records usually requiring little knowledge of basic bookkeeping. Phases or sections include accounts payable, payroll, customers' accounts (not including a simple type of billing described under machine biller), cost distribution, expense distribution, inventory control, etc. May check or assist in preparation of trial balances and prepare control sheets for the accounting department.

MACHINE BILLER

Prepares statements, bills, and invoices on a machine other than an ordinary or electromatic typewriter. May also keep records as to billings or shipping charges or perform other clerical work incidental to billing operations. For wage study purposes, machine billers are classified by type of machine, as follows:

Billing-machine biller. Uses a special billing machine (combination typing and adding machine) to prepare bills and invoices from customers' purchase orders, internally prepared orders, shipping memoranda, etc. Usually involves application of predetermined discounts and shipping charges and entry of necessary extensions, which may or may not be computed on the billing machine, and totals which are automatically accumulated by machine. The operation usually involves a large number of carbon copies of the bill being prepared and is often done on a fanfold machine.

MACHINE BILLER—Continued

Bookkeeping-machine biller. Uses a bookkeeping machine (with or without a typewriter keyboard) to prepare customers' bills as part of the accounts receivable operation. Generally involves the simultaneous entry of figures on customers' ledger record. The machine automatically accumulates figures on a number of vertical columns and computes and usually prints automatically the debit or credit balances. Does not involve a knowledge of bookkeeping. Works from uniform and standard types of sales and credit slips.

PAYROLL CLERK

Computes wages of company employees and enters the necessary data on the payroll sheets. Duties involve: Calculating workers' earnings based on time or production records; and posting calculated data on payroll sheet, showing information such as worker's name, working days, time, rate, deductions for insurance, and total wages due. May make out paychecks and assist paymaster in making up and distributing pay envelopes. May use a calculating machine.

KEYPUNCH OPERATOR

Operates a keypunch machine to record or verify alphabetic and/or numeric data on tabulating cards or on tape.

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

Class A. 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 keypunched from a variety of source documents. On occasion may also perform some routine keypunch work. May train inexperienced keypunch operators.

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

TABULATING-MACHINE OPERATOR

Operates one or a variety of machines such as the tabulator, calculator, collator, interpreter, sorter, reproducing punch, etc. Excluded from this definition are working supervisors. Also excluded are operators of electronic digital computers, even though they may also operate electric accounting machine equipment.

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

Class A. Performs complete reporting and tabulating assignments including devising difficult control panel wiring under general supervision. Assignments typically involve a variety of long and complex reports which often are irregular or nonrecurring, requiring some planning of the nature and sequencing of operations, and the use of a variety of machines. Is

typically involved in training new operators in machine operations or training lower level operators in wiring from diagrams and in the operating sequences of long and complex reports. Does not include positions in which wiring responsibility is limited to selection and insertion of prewired boards.

Class B. Performs work according to established procedures and under specific instructions. Assignments typically involve complete but routine and recurring reports or parts of larger and more complex reports. Operates more difficult tabulating or electrical accounting machines such as

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:

Class A. Works independently or under only general direction on complex problems involving all phases of system 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 followup 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.

Class B. 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,

the tabulator and calculator, in addition to the simpler machines used by class C operators. May be required to do some wiring from diagrams. May train new employees in basic machine operations.

Class C. Under specific instructions, operates simple tabulating or electrical accounting machines such as the sorter, interpreter, reproducing punch, collator, etc. Assignments typically involve portions of a work unit, for example, individual sorting or collating runs, or repetitive operations. May perform simple wiring from diagrams, and do some filing work.

COMPUTER SYSTEMS ANALYST, BUSINESS—Continued

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 class A. 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.

Class C. 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 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.)

COMPUTER PROGRAMMER, BUSINESS—Continued

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:

Class A. 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.

Class B. 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 class A) 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.

Class C. 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 OPERATOR

Monitors and operates the control console of a digital computer to process data according to operating instructions, usually prepared by a programmer. Work includes most of the following: Studies instructions to determine equipment setup and operations; loads equipment with required items (tape reels, cards, etc.); switches necessary auxiliary equipment into circuit, and starts and operates computer; makes adjustments to computer to correct operating problems and meet special conditions; reviews errors made during operation and determines cause or refers problem to supervisor or programmer; and maintains operating records. May test and assist in correcting program.

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

Class A. Operates independently, or under only general direction, a computer running programs with most of the following characteristics: New programs are frequently tested and introduced; scheduling requirements are of critical importance to minimize downtime; the programs are of complex design so that identification of error source often requires a working knowledge of the total program, and alternate programs may not be available. May give direction and guidance to lower level operators.

Class B. Operates independently, or under only general direction, a computer running programs with most of the following characteristics: Most of the programs are established production runs, typically run on a regularly recurring basis; there is little or no testing of new programs required; alternate programs are provided in case original program needs major change or cannot be corrected within a reasonably short time. In common error situations, diagnoses cause and takes corrective action. This usually involves applying previously programmed corrective steps, or using standard correction techniques.

OR

Operates under direct supervision a computer running programs or segments of programs with the characteristics described for class A. May assist a higher level operator by independently performing less difficult tasks assigned, and performing difficult tasks following detailed instructions and with frequent review of operations performed.

Class C. Works on routine programs under close supervision. Is expected to develop working knowledge of the computer equipment used and ability to detect problems involved in running routine programs. Usually has received some formal training in computer operation. May assist higher level operator on complex programs.

DRAFTER

Class A. Plans the graphic presentation of complex items having distinctive design features that differ significantly from established drafting precedents. Works in close support with the design originator, and may recommend minor design changes. Analyzes the effect of each change on the details of form, function, and positional relationships of components and parts. Works with a minimum of supervisory assistance. Completed work is reviewed by design originator for consistency with prior engineering determinations. May either prepare drawings or direct their preparation by lower level drafters.

DRAFTER—Continued

Class B. Performs nonroutine and complex drafting assignments that require the application of most of the standardized drawing techniques regularly used. Duties typically involve such work as: Prepares working drawings of subassemblies with irregular shapes, multiple functions, and precise positional relationships between components; prepares architectural drawings for construction of a building including detail drawings of foundations, wall sections, floor plans, and roof. Uses accepted formulas and manuals in making necessary computations to determine quantities of materials to be used, load capacities, strengths, stresses, etc. Receives initial instructions, requirements, and advice from supervisor. Completed work is checked for technical adequacy.

Class C. Prepares detail drawings of single units or parts for engineering, construction, manufacturing, or repair purposes. Types of drawings prepared include isometric projections (depicting three dimensions in accurate scale) and sectional views to clarify positioning of components and convey needed information. Consolidates details from a number of sources and adjusts or transposes scale as required. Suggested methods of approach, applicable precedents, and advice on source materials are given with initial assignments. Instructions are less complete when assignments recur. Work may be spot-checked during progress.

DRAFTER-TRACER

Copies plans and drawings prepared by others by placing tracing cloth or paper over drawings and tracing with pen or pencil. (Does not include tracing limited to plans primarily consisting of straight lines and a large scale not requiring close delineation.)

AND/OR

Prepares simple or repetitive drawings of easily visualized items. Work is closely supervised during progress.

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.

ELECTRONICS TECHNICIAN—Continued

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.

Class A. 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.

Class B. 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 instruments, usually less complex than those used by the class A 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.

Class C. 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.

A registered nurse who 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 Vehicles)

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.

MAINTENANCE MECHANIC (Motor Vehicles)—Continued

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

MAINTENANCE TRADES HELPER—Continued

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 and may also supervise the operation of stationary engines and equipment (mechanical or electrical) to supply the establishment in which employed with power, heat, refrigeration, or air-conditioning. Work involves: Operating and maintaining equipment such as steam engines, air compressors, generators, motors, turbines, ventilating and refrigerating equipment, steam boilers and boiler-fed water pumps; making equipment repairs; and keeping a record of operation of machinery, temperature, and fuel consumption. May also supervise these operations.

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 size and type of equipment, as follows: (Tractor-trailer should be rated on the basis of trailer capacity.)

- Truckdriver, light truck (under 1½ tons)
- Truckdriver, medium truck (1½ to and including 4 tons)
- Truckdriver, heavy truck (trailer) (over 4 tons)
- Truckdriver, heavy truck (other than trailer) (over 4 tons)

SHIPPING AND RECEIVING CLERK

Prepares merchandise for shipment, or receives and is responsible for incoming shipments of merchandise or other materials. Shipping work involves: A knowledge of shipping procedures, practices, routes, available means of transportation, and rates; and preparing records of the goods shipped, making up bills of lading, posting weight and shipping changes, and keeping a file of shipping records. May direct or assist in preparing the merchandise for shipment. Receiving work involves: Verifying or directing others in verifying the correctness of shipments against bills of lading, invoices, or other records; checking for shortages and rejecting damaged goods; routing merchandise or materials to proper departments; and maintaining necessary records and files.

For wage study purposes, workers are classified as follows:

- Shipping clerk
- Receiving clerk
- Shipping and receiving clerk

STATIONARY ENGINEER—Continued

Head or chief engineers in establishments employing more than one engineer are excluded.

BOILER TENDER

Fires stationary boilers to furnish the establishment in which employed with heat, power, or steam. Feeds fuels to fire by hand or operates a mechanical stoker, gas, or oil burner; and checks water and safety valves. May clean, oil, or assist in repairing boilerroom equipment.

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 Shipping and Receiving Clerk 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 power-truck, as follows:

Forklift operator

Power-truck operator (other than forklift)

GUARD AND WATCHMAN

Guard. Performs routine police duties, either at fixed post or on tour, maintaining order, using arms or force where necessary. Includes guards who are stationed at gate and check on identity of employees and other persons entering.

Watchman. Makes rounds of premises periodically in protecting property against fire, theft, and illegal entry.

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.

Service Contract Act Surveys

The following areas are surveyed periodically for use in administering the Service Contract Act of 1965. Survey results are published in releases which are available, at no cost, while supplies last from any of the BLS regional offices shown on the back cover.

Alaska (statewide)
Albany, Ga.
Alexandria, La.
Alpena, Standish, and
Tawas City, Mich.
Asheville, N.C.
Atlantic City, N.J.
Augusta, Ga.—S.C.
Austin, Tex.
Bakersfield, Calif.
Baton Rouge, La.
Battle Creek, Mich.
Beaumont—Port Arthur—
Orange, Tex.
Biloxi—Gulfport and
Pascagoula, Miss.
Bremerton, Wash.
Bridgeport, Norwalk, and
Stamford, Conn.
Brunswick, Ga.
Cedar Rapids, Iowa
Champaign—Urbana—Rantoul, Ill.
Charleston, S.C.
Cheyenne, Wyo.
Clarksville—Hopkinsville, Tenn.—Ky.
Colorado Springs, Colo.
Columbia, S.C.
Columbus, Miss.
Crane, Ind.
Decatur, Ill.
Des Moines, Iowa
Dothan, Ala.
Duluth—Superior, Minn.—Wis.
El Paso, Tex., and Alamogordo—Las
Cruces, N. Mex.
Eugene—Springfield and Medford—
Klamath Falls—Grants Pass—
Roseburg, Oreg.
Fayetteville, N.C.
Fitchburg—Leominster, Mass.

Fort Riley—Junction City, Kans.
Fort Smith, Ark.—Okla.
Fort Wayne, Ind.
Frederick—Hagerstown—
Chambersburg, Md.—Pa.
Gadsden and Anniston, Ala.
Goldsboro, N.C.
Grand Island—Hastings, Nebr.
Guam, Territory of
Harrisburg—Lebanon, Pa.
Johnson City—Kingsport—Bristol,
Tenn.—Va.
La Crosse, Wis.
Laredo, Tex.
Lawton, Okla.
Lexington—Fayette, Ky.
Lima, Ohio
Logansport—Peru, Ind.
Lower Eastern Shore, Md.—Va.—Del.
Macon, Ga.
Madison, Wis.
Maine (statewide)
McAllen—Pharr—Edinburg and
Brownsville—Harlingen—
San Benito, Tex.
Meridian, Miss.
Middlesex, Monmouth, and
Ocean Cos., N.J.
Mobile and Pensacola, Ala.—Fla.
Montana (statewide)
New Bern—Jacksonville, N.C.
New Hampshire (statewide)
New London—Norwich, Conn.—R.I.
North Dakota (statewide)
Northern New York
Orlando, Fla.
Oxnard—Simi Valley—
Ventura, Calif.
Phoenix, Ariz.
Pine Bluff, Ark.
Pueblo, Colo.
Puerto Rico
Raleigh—Durham, N.C.
Reno, Nev.
Riverside—San Bernardino—
Ontario, Calif.
Salina, Kans.
Salinas—Seaside—Monterey, Calif.
Sandusky, Ohio

Santa Barbara—Santa Maria—
Lompoc, Calif.
Savannah, Ga.
Selma, Ala.
Sherman—Denison, Tex.
Shreveport, La.
South Dakota (statewide)
Southern Idaho
Southwestern Virginia
Springfield, Ill.
Springfield—Chicopee—Holyoke,
Mass.—Conn.
Stockton, Calif.
Tacoma, Wash.
Topeka, Kans.
Tulsa, Okla.
Upper Peninsula, Mich.
Vallejo—Fairfield—Napa, Calif.
Vermont (statewide)
Virgin Islands of the U.S.
Waco and Killeen—Temple, Tex.
Waterloo—Cedar Falls, Iowa
West Texas Plains
West Virginia (statewide)
Wilmington, Del.—N.J.—Md.
Yakima, Richland—Kennewick, and
Walla Walla—Pendleton,
Wash.—Oreg.

ALSO AVAILABLE—

An annual report on salaries for accountants, auditors, chief accountants, attorneys, job analysts, directors of personnel, buyers, chemists, engineers, engineering technicians, drafters, and clerical employees is available. Order as BLS Bulletin 1931, National Survey of Professional, Administrative, Technical and Clerical Pay, March 1976, \$1.35 a copy, from any of the BLS regional sales offices shown on the back cover, or from the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402.

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. A directory of occupational wage surveys, covering the years 1950 through 1975, is available on request.

Area	Bulletin number and price *
Akron, Ohio, Dec. 1976 ¹	1900-76, 85 cents
Albany-Schenectady-Troy, N.Y., Sept. 1976	1900-59, 55 cents
Anaheim-Santa Ana-Garden Grove, Calif., Oct. 1976	1900-67, 75 cents
Atlanta, Ga., May 1976	1900-30, 85 cents
Baltimore, Md., Aug. 1976	1900-52, 85 cents
Billings, Mont., July 1976	1900-39, 55 cents
Birmingham, Ala., Mar. 1976 ¹	1900-11, 95 cents
Boston, Mass., Aug. 1976	1900-53, 85 cents
Buffalo, N.Y., Oct. 1976	1900-70, 75 cents
Canton, Ohio, May 1976	1900-28, 55 cents
Chattanooga, Tenn.-Ga., Sept. 1976	1900-57, 55 cents
Chicago, Ill., May 1976	1900-32, \$1.05
Cincinnati, Ohio-Ky.-Ind., Mar. 1976	1900-7, 75 cents
Cleveland, Ohio, Sept. 1976	1900-62, 95 cents
Columbus, Ohio, Oct. 1976	1900-68, 75 cents
Corpus Christi, Tex., July 1976	1900-41, 55 cents
Dallas-Fort Worth, Tex., Oct. 1976	1900-63, 85 cents
Davenport-Rock Island-Moline, Iowa-Ill., Feb. 1976	1900-25, 55 cents
Dayton, Ohio, Dec. 1976	1900-78, 85 cents
Daytona Beach, Fla., Aug. 1976	1900-45, 45 cents
Denver-Boulder, Colo., Dec. 1976	1900-73, 85 cents
Detroit, Mich., Mar. 1976 ¹	1900-15, \$1.25
Fresno, Calif., June 1976	1900-29, 55 cents
Gainesville, Fla., Sept. 1976	1900-54, 45 cents
Green Bay, Wis., July 1976	1900-37, 55 cents
Greensboro-Winston-Salem-High Point, N.C., Aug. 1976	1900-47, 65 cents
Greenville-Spartanburg, S.C., June 1976 ¹	1900-36, 85 cents
Hartford, Conn., Mar. 1976	1900-14, 55 cents
Houston, Tex., Apr. 1976	1900-26, 85 cents
Huntsville, Ala., Feb. 1977 ¹	1950-4, \$1.40
Indianapolis, Ind., Oct. 1976	1900-58, 75 cents
Jackson, Miss., Feb. 1977 ¹	1950-2, \$1.50
Jacksonville, Fla., Dec. 1976 ¹	1900-80, 85 cents
Kansas City, Mo.-Kans., Sept. 1976 ¹	1900-60, \$1.05
Los Angeles-Long Beach, Calif., Oct. 1976	1900-77, 85 cents
Louisville, Ky.-Ind., Nov. 1976	1900-69, 55 cents

Area	Bulletin number and price *
Memphis, Tenn.-Ark.-Miss., Nov. 1976 ¹	1900-75, 85 cents
Miami, Fla., Oct. 1976	1900-66, 75 cents
Milwaukee, Wis., Apr. 1976	1900-22, 85 cents
Minneapolis-St. Paul, Minn.-Wis., Jan. 1977	1950-3, \$1.60
Nassau-Suffolk, N.Y., June 1976	1900-35, 85 cents
Newark, N.J., Jan. 1977	1950-7, \$1.60
New Orleans, La., Jan. 1977 ¹	1950-5, \$1.60
New York, N.Y.-N.J., May 1976	1900-48, \$1.05
Norfolk-Virginia Beach-Portsmouth, Va.- N.C., May 1976 ¹	1900-27, 85 cents
Norfolk-Virginia Beach-Portsmouth and Newport News-Hampton, Va.-N.C., May 1976 ¹	1900-33, 85 cents
Northeast Pennsylvania, Aug. 1976	1900-43, 65 cents
Oklahoma City, Okla., Aug. 1976	1900-42, 55 cents
Omaha, Nebr.-Iowa, Oct. 1976	1900-61, 55 cents
Paterson-Clifton-Passaic, N.J., June 1976	1900-38, 55 cents
Philadelphia, Pa.-N.J., Nov. 1976 ¹	1900-64, \$1.10
Pittsburgh, Pa., Jan. 1977	1950-1, \$1.50
Portland, Maine, Dec. 1976 ¹	1900-72, 85 cents
Portland, Oreg.-Wash., May 1976	1900-51, 75 cents
Poughkeepsie, N.Y., June 1976	1900-50, 45 cents
Poughkeepsie-Kingston-Newburgh, N.Y., June 1976	1900-55, 55 cents
Providence-Warwick-Pawtucket, R.I.- Mass., June 1976	1900-31, 75 cents
Richmond, Va., June 1976	1900-34, 65 cents
St. Louis, Mo.-Ill., Mar. 1976 ¹	1900-19, \$1.25
Sacramento, Calif., Dec. 1976	1900-71, 55 cents
Saginaw, Mich., Nov. 1976 ¹	1900-74, 75 cents
Salt Lake City-Ogden, Utah, Nov. 1976	1900-65, 55 cents
San Antonio, Tex., May 1976	1900-23, 65 cents
San Diego, Calif., Nov. 1976	1900-79, 55 cents
San Francisco-Oakland, Calif., Mar. 1976	1900-9, 95 cents
San Jose, Calif., Mar. 1976	1900-13, 75 cents
Seattle-Everett, Wash., Jan. 1976	1900-6, 65 cents
South Bend, Ind., Mar. 1976	1900-5, 55 cents
Syracuse, N.Y., July 1976	1900-44, 55 cents
Toledo, Ohio-Mich., May 1976	1900-24, 55 cents
Trenton, N.J., Sept. 1976	1900-56, 55 cents
Washington, D.C.-Md.-Va., Mar. 1976	1900-12, 85 cents
Wichita, Kans., Apr. 1976	1900-21, 55 cents
Worcester, Mass., Apr. 1976	1900-16, 55 cents
York, Pa., Feb. 1977	1950-6, \$1.10

* 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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Bureau of Labor Statistics
Washington, D.C. 20212

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Federal Office Building
911 Walnut St., 15th Floor
Kansas City, Mo. 64106
Phone: 374-2481 (Area Code 816)

VII	VIII
Iowa	Colorado
Kansas	Montana
Missouri	North Dakota
Nebraska	South Dakota
	Utah
	Wyoming

Region IV

Suite 540
1371 Peachtree St., N.E.
Atlanta, Ga. 30309
Phone: 881-4418 (Area Code 404)

Alabama
Florida
Georgia
Kentucky
Mississippi
North Carolina
South Carolina
Tennessee

Regions IX and X

450 Golden Gate Ave.
Box 36017
San Francisco, Calif. 94102
Phone: 556-4678 (Area Code 415)

IX	X
Arizona	Alaska
California	Idaho
Hawaii	Oregon
Nevada	Washington

