

Area Wage Survey

Philadelphia, Pennsylvania—New Jersey, Metropolitan Area November 1977



Bulletin 1950-62

U.S. Department of Labor
Bureau of Labor Statistics

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Preface

This bulletin provides results of a November 1977 survey of occupational earnings in the Philadelphia, Pennsylvania-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 Philadelphia, Pa., under the general direction of Irwin L. Feigenbaum, Assistant Regional Commissioner for Operations. The survey could not have been accomplished without the cooperation of the many firms whose wage and salary data provided the basis for the statistical information in this bulletin. The Bureau wishes to express sincere appreciation for the cooperation received.

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Note:

Reports on occupational earnings and supplementary wage provisions in the Philadelphia area are available for the nursing homes (May 1976), industrial chemicals (June 1976), paints and varnishes (November 1976), banking (December 1976), and life insurance (December 1976) industries. A report on occupational earnings only is available for the laundry and dry cleaning industry (November 1977). 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

Philadelphia, Pennsylvania—New Jersey, Metropolitan Area November 1977

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

February 1978

Bulletin 1950-62



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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.

Table A-1. Weekly earnings of office workers in Philadelphia, Pa.—N.J., November 1977

See footnotes at end of tables.

Table A-1. Weekly earnings of office workers in Philadelphia, Pa.—N.J., November 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	\$ 80 and under	\$ 90	\$ 100	\$ 110	\$ 120	\$ 130	\$ 140	\$ 150	\$ 160	\$ 180	\$ 200	\$ 220	\$ 240	\$ 260	\$ 280	\$ 300	\$ 320	\$ 340	\$ 360	\$ 400	\$ 440	\$ 480		
						90	100	110	120	130	140	150	160	180	200	220	240	260	280	300	320	340	360	400	440	480			
ALL WORKERS-- CONTINUED																													
FILE CLERKS - CONTINUED																													
FILE CLERKS, CLASS B -----	886	37.5	\$ 130.50	\$ 123.00	\$ 110.00-144.50	14	26	173	170	174	67	83	70	38	26	29	7	-	-	9	-	-	-	-	-	-	-	-	
MANUFACTURING -----	145	38.5	155.50	149.00	111.00-194.00	2	1	12	43	1	2	14	17	15	10	17	2	-	-	9	-	-	-	-	-	-	-		
NONMANUFACTURING -----	741	37.5	126.00	122.00	108.00-138.00	12	25	161	127	173	65	69	53	23	16	12	5	-	-	-	-	-	-	-	-	-	-		
FINANCE -----	565	37.5	120.00	117.00	106.00-130.00	12	24	155	125	95	63	43	32	12	4	-	-	-	-	-	-	-	-	-	-	-	-		
FILE CLERKS, CLASS C -----	1,019	37.5	116.50	115.00	105.00-123.50	23	97	270	247	209	64	46	18	24	1	4	16	-	-	-	-	-	-	-	-	-	-		
MANUFACTURING -----	109	38.5	134.50	123.50	112.00-145.00	-	-	10	30	32	7	7	7	7	1	4	4	-	-	-	-	-	-	-	-	-	-		
NONMANUFACTURING -----	910	37.5	116.50	114.00	103.50-123.50	23	97	260	217	177	57	39	11	17	-	-	12	-	-	-	-	-	-	-	-	-	-		
PUBLIC UTILITIES -----	29	38.0	182.00	179.50	138.00-232.50	-	-	-	6	-	4	-	-	7	-	-	12	-	-	-	-	-	-	-	-	-	-		
FINANCE -----	783	37.5	114.00	110.00	102.00-123.50	23	96	245	150	174	46	29	10	10	-	-	-	-	-	-	-	-	-	-	-	-	-		
MESSENGERS -----	895	38.0	141.00	130.00	114.00-151.50	2	37	111	130	163	145	71	43	59	32	31	29	38	4	-	-	-	-	-	-	-	-		
MANUFACTURING -----	348	39.0	143.00	132.50	120.00-164.00	1	14	11	59	69	47	25	21	49	25	13	12	2	-	-	-	-	-	-	-	-	-		
NONMANUFACTURING -----	547	37.5	139.50	127.50	110.50-142.50	1	23	100	71	94	98	46	22	10	7	18	17	36	4	-	-	-	-	-	-	-	-		
FINANCE -----	294	37.0	129.00	124.50	110.50-134.50	-	20	45	52	54	62	16	16	6	7	16	-	-	-	-	-	-	-	-	-	-	-		
SERVICES -----	142	37.5	122.00	125.00	106.00-135.00	1	3	39	15	35	31	15	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-		
SWITCHBOARD OPERATORS -----	857	38.5	169.00	165.00	135.00-186.50	-	6	28	32	76	91	108	70	176	87	41	79	24	13	18	8	-	-	-	-	-	-		
MANUFACTURING -----	322	39.0	189.00	179.50	157.00-215.00	-	-	-	-	5	10	41	30	76	52	35	30	20	7	12	4	-	-	-	-	-	-		
NONMANUFACTURING -----	535	38.0	156.50	144.00	129.50-171.50	-	6	28	32	71	81	67	40	100	35	6	49	4	6	6	4	-	-	-	-	-	-		
PUBLIC UTILITIES -----	74	39.5	237.50	234.00	226.00-240.00	-	-	-	-	-	-	-	1	5	1	-	48	3	6	6	4	-	-	-	-	-	-		
RETAIL TRADE -----	155	38.0	138.00	133.00	120.00-157.00	-	6	8	18	36	31	5	17	23	10	1	-	-	-	-	-	-	-	-	-	-	-		
FINANCE -----	120	37.5	145.50	143.50	125.00-159.50	-	-	1	12	25	16	20	16	25	1	3	-	1	-	-	-	-	-	-	-	-	-		
SERVICES -----	158	38.5	142.50	141.00	130.00-165.00	-	-	19	2	10	30	40	6	47	4	-	-	-	-	-	-	-	-	-	-	-	-		
SWITCHBOARD OPERATOR-RECEPTIONISTS-----	1,151	38.0	157.00	155.50	140.00-173.00	-	-	21	33	125	100	180	167	339	122	47	7	10	-	-	-	-	-	-	-	-	-		
MANUFACTURING -----	573	39.0	161.50	162.00	145.00-175.00	-	-	11	10	47	17	94	79	199	76	25	5	10	-	-	-	-	-	-	-	-	-		
NONMANUFACTURING -----	578	37.5	152.50	152.00	135.00-164.00	-	-	10	23	78	83	86	88	140	46	22	2	-	-	-	-	-	-	-	-	-	-		
PUBLIC UTILITIES -----	46	38.5	166.50	165.50	150.00-179.50	-	-	-	-	-	3	5	11	17	6	4	-	-	-	-	-	-	-	-	-	-	-		
WHOLESALE TRADE -----	186	38.5	157.50	155.00	135.00-170.00	-	-	-	-	10	43	32	22	49	12	16	2	-	-	-	-	-	-	-	-	-	-		
RETAIL TRADE -----	56	38.5	137.00	136.50	127.50-153.00	-	-	3	9	12	15	2	9	4	2	-	-	-	-	-	-	-	-	-	-	-	-		
FINANCE -----	156	36.0	147.00	146.50	130.00-155.50	-	-	-	14	24	14	35	37	29	3	-	-	-	-	-	-	-	-	-	-	-	-		
SERVICES -----	134	37.5	153.50	158.00	127.00-168.00	-	-	7	-	32	8	12	9	41	23	2	-	-	-	-	-	-	-	-	-	-	-		
ORDER CLERKS -----	925	38.5	183.50	178.00	145.00-205.00	-	38	7	29	35	69	61	61	174	180	109	15	21	69	17	12	14	12	2	-	-	-		
MANUFACTURING -----	645	38.5	192.00	186.00	160.00-210.00	-	-	2	24	24	31	25	51	117	172	69	15	13	51	17	12	14	6	2	-	-	-		
NONMANUFACTURING -----	280	38.0	164.00	152.00	133.00-200.00	-	38	5	5	11	38	36	10	57	8	40	-	3	18	-	-	-	6	-	-	-	-		
WHOLESALE TRADE -----	262	38.0	167.50	164.00	135.00-200.00	-	36	-	-	9	35	35	10	57	8	40	-	8	18	-	-	-	6	-	-	-	-		
ORDER CLERKS, CLASS A -----	311	38.5	222.00	205.00	182.50-266.00	-	2	5	5	6	1	1	28	25	34	78	9	18	42	17	12	14	12	2	-	-	-		
MANUFACTURING -----	241	39.0	229.00	215.50	182.50-270.00	-	-	-	-	4	-	-	28	25	34	38	9	10	42	17	12	14	6	2	-	-	-		
NONMANUFACTURING -----	70	37.5	199.00	200.00	200.00-205.00	-	2	5	5	2	1	1	-	-	-	40	-	6	-	-	-	-	6	-	-	-	-		
ORDER CLERKS, CLASS B -----	614	38.0	164.00	165.00	139.00-186.00	-	36	2	24	29	68	60	33	149	146	31	6	3	27	-	-	-	-	-	-	-	-		
MANUFACTURING -----	404	38.0	170.00	171.00	148.00-186.00	-	-	2	24	20	31	25	23	92	138	31	6	3	9	-	-	-	-	-	-	-	-		
NONMANUFACTURING -----	210	38.0	152.50	142.00	133.00-169.00	-	36	-	-	9	37	35	10	57	8	-	-	-	18	-	-	-	-	-	-	-	-		
WHOLESALE TRADE -----	208	38.0	153.00	142.00	133.00-169.00	-	36	-	-	9	35	35	10	57	8	-	-	-	18	-	-	-	-	-	-	-	-		
ACCOUNTING CLERKS -----	6,490	38.5	178.00	168.00	142.00-200.00	-	40	264	315	352	500	607	609	1246	836	514	328	175	200	378	85	23	12	3	3	-	-		
MANUFACTURING -----	2,506	39.0	197.50	184.00	160.00-228.00	-	1	32	9	82	109	175	199	580	360	240	159	109	83	294	55	14	5	-	-	-	-		
NONMANUFACTURING -----	3,984	38.0	166.00	157.00	132.50-188.00	-	39	232	306	270	391	432	410	666	476	274	169	66	117	84	30	9	7	3	3	-	-		
PUBLIC UTILITIES -----	425	39.0	236.00	259.00	180.00-283.00	-	-	-	-	-	12	18	25	44	47	39	12	17	99	74	20	8	4	3	3	-	-		
WHOLESALE TRADE -----	801	38.5	176.50	178.00	140.00-200.00	-	10	27	32	53	79	48	41	130	147	93	96	11	13	10	7	1	3	-	-	-	-		
RETAIL TRADE -----	819	38.5	149.00	148.00	127.00-168.00	-	25	37	78	83	80	115	113	163	85	32	6	-	2	-	-	-	-	-	-	-	-		
FINANCE -----	1,410	37.0	148.50	145.00	120.00-165.00	-	3	155	183	98	195	195	163	167	114	58	35	38	3	-	3	-	-	-	-	-	-		
SERVICES -----	529	38.5	165.00	165.50	147.50-185.00	-	1	13	13	36	25	56	68	162	83	52	20	-	-	-	-	-	-	-	-	-	-		

See footnotes at end of tables.

Table A-1. Weekly earnings of office workers in Philadelphia, Pa.—N.J., November 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	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$

See footnotes at end of tables.

Table A-1. Weekly earnings of office workers in Philadelphia, Pa.—N.J., November 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	\$ 80 and under	\$ 90	\$ 100	\$ 110	\$ 120	\$ 130	\$ 140	\$ 150	\$ 160	\$ 180	\$ 200	\$ 220	\$ 240	\$ 260	\$ 280	\$ 300	\$ 320	\$ 340	\$ 360	\$ 400	\$ 440			
						90	100	110	120	130	140	150	160	180	200	220	240	260	280	300	320	340	360	400	440	480			
ALL WORKERS-- CONTINUED																													
KEYPUNCH OPERATORS - CONTINUED																													
KEYPUNCH OPERATORS, CLASS A -----	1,675	38.5	\$ 186.00	\$ 180.00	\$ 156.00-202.00	-	-	-	17	38	71	170	149	384	420	110	74	156	46	19	18	1	2	-	-	-	-		
MANUFACTURING -----	885	39.0	187.00	183.00	160.00-205.00	-	-	-	-	14	20	103	80	199	206	93	66	44	44	12	4	-	-	-	-	-	-		
NONMANUFACTURING -----	790	38.0	185.00	179.50	153.00-196.00	-	-	-	17	24	51	67	69	185	214	17	8	112	2	7	14	1	2	-	-	-	-		
WHOLESALE TRADE -----	76	38.0	201.00	190.00	179.50-196.00	-	-	-	-	-	-	-	-	24	38	1	1	6	2	2	2	-	-	-	-	-	-		
FINANCE -----	330	37.0	156.50	154.00	140.00-173.00	-	-	-	17	24	36	60	49	95	37	8	4	-	-	-	-	-	-	-	-	-	-		
KEYPUNCH OPERATORS, CLASS B -----	2,129	38.0	154.00	150.00	134.00-165.00	-	9	30	86	243	341	325	430	322	152	90	57	34	4	6	-	-	-	-	-	-	-		
MANUFACTURING -----	707	39.0	156.50	153.00	136.50-168.00	-	-	11	23	62	104	97	127	164	65	30	10	12	2	-	-	-	-	-	-	-	-		
NONMANUFACTURING -----	1,422	37.5	152.50	147.50	132.50-160.50	-	9	19	63	181	237	228	303	158	87	60	47	22	2	6	-	-	-	-	-	-	-		
PUBLIC UTILITIES -----	140	39.0	202.50	210.50	165.00-224.00	-	-	-	-	1	6	3	18	18	18	15	35	18	2	6	-	-	-	-	-	-	-		
WHOLESALE TRADE -----	370	38.0	155.50	140.50	133.00-182.00	-	-	10	8	57	46	76	43	34	46	34	12	4	-	-	-	-	-	-	-	-	-		
RETAIL TRADE -----	257	37.5	148.50	143.50	131.50-162.00	-	1	2	4	31	46	53	42	61	14	1	-	-	-	-	-	-	-	-	-	-	-		
FINANCE -----	364	36.5	141.50	142.00	127.00-153.50	-	8	7	33	50	77	72	75	26	6	10	-	-	-	-	-	-	-	-	-	-	-		
SERVICES -----	291	37.0	143.00	150.00	132.00-152.00	-	-	-	18	42	60	24	125	19	3	-	-	-	-	-	-	-	-	-	-	-	-		
TABULATING-MACHINE OPERATORS -----	197	39.0	235.50	222.00	198.50-276.00	-	-	-	-	-	-	5	8	17	21	44	29	9	18	16	9	4	13	2	-	-	-		
MANUFACTURING -----	77	40.0	278.50	286.50	237.50-318.00	-	-	-	-	-	-	-	-	-	8	4	9	7	9	12	9	4	13	2	-	-	-		
NONMANUFACTURING -----	120	38.0	208.00	211.00	184.00-222.00	-	-	-	-	-	-	5	8	17	13	40	20	2	9	6	-	-	-	-	-	-	-		
TABULATING-MACHINE OPERATORS, CLASS A -----	56	40.0	291.50	277.00	265.50-338.00	-	-	-	-	-	-	-	-	-	2	-	5	7	16	2	7	4	13	2	-	-	-		
TABULATING-MACHINE OPERATORS, CLASS B -----	98	38.5	212.50	211.00	176.00-232.50	-	-	-	-	-	-	4	8	13	13	32	8	-	2	16	2	-	-	-	-	-	-		
NONMANUFACTURING -----	70	38.0	198.50	207.00	168.00-211.00	-	-	-	-	-	-	4	8	13	7	28	4	-	-	6	-	-	-	-	-	-	-		

See footnotes at end of tables.

Table A-2. Weekly earnings of professional and technical workers in Philadelphia, Pa.—N.J., November 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	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$		
						100 and under	110	120	130	140	150	160	180	200	220	240	260	280	300	320	340	360	400	440	480	520	560		
ALL WORKERS																													
COMPUTER SYSTEMS ANALYSTS (BUSINESS) -----	1,518	38.0	\$ 369.00	\$ 364.50	\$ 323.00-421.00	-	-	-	-	-	-	-	20	18	20	50	60	87	102	139	219	305	215	180	75	28			
MANUFACTURING -----	709	39.0	381.50	378.00	346.00-421.00	-	-	-	-	-	-	-	4	-	-	10	5	39	33	61	120	170	155	70	28	14			
NONMANUFACTURING -----	809	37.5	358.50	352.00	303.00-423.00	-	-	-	-	-	-	-	16	18	20	40	55	46	69	78	99	135	60	110	47	14			
FINANCE -----	413	37.0	321.00	326.50	279.50-362.00	-	-	-	-	-	-	-	2	18	20	25	39	39	40	57	61	90	19	3	-	-			
COMPUTER SYSTEMS ANALYSTS (BUSINESS), CLASS A -----	956	36.0	400.50	392.50	357.00-443.00	-	-	-	-	-	-	-	-	-	-	-	1	3	46	73	162	234	179	165	65	28			
MANUFACTURING -----	472	39.0	393.50	395.50	357.00-426.50	-	-	-	-	-	-	-	-	-	-	-	-	-	9	31	87	125	129	59	18	14			
NONMANUFACTURING -----	484	37.5	402.50	388.00	348.00-457.00	-	-	-	-	-	-	-	-	-	-	-	1	3	37	42	75	109	50	106	47	14			
FINANCE -----	195	37.0	361.50	359.50	339.00-384.50	-	-	-	-	-	-	-	-	-	-	-	1	3	15	30	50	75	18	3	-	-			
COMPUTER SYSTEMS ANALYSTS (BUSINESS), CLASS B -----	423	36.0	331.50	327.00	288.00-365.50	-	-	-	-	-	-	-	14	2	2	24	40	60	43	62	52	65	34	15	10	-			
MANUFACTURING -----	195	39.0	358.60	347.50	314.50-387.00	-	-	-	-	-	-	-	-	-	-	4	3	29	16	29	30	39	24	11	10	-			
NONMANUFACTURING -----	228	37.0	308.50	307.50	271.00-345.50	-	-	-	-	-	-	-	14	2	2	20	37	31	27	33	22	26	10	4	-	-			
FINANCE -----	137	37.0	308.50	308.00	280.50-334.00	-	-	-	-	-	-	-	-	-	2	2	6	23	27	23	27	15	1	-	-	-			
COMPUTER SYSTEMS ANALYSTS (BUSINESS), CLASS C -----	139	38.0	269.50	261.50	229.50-299.00	-	-	-	-	-	-	-	6	16	18	26	19	24	13	4	5	6	2	-	-	-			
NONMANUFACTURING -----	97	37.5	255.00	251.50	223.00-278.50	-	-	-	-	-	-	-	2	16	18	20	17	14	5	3	2	-	-	-	-	-			
COMPUTER PROGRAMMERS (BUSINESS) -----	1,771	37.5	305.00	304.00	259.50-342.00	-	-	2	-	-	5	31	64	86	93	163	162	239	192	269	162	193	68	12	15	15			
MANUFACTURING -----	786	38.0	312.50	315.50	278.00-351.00	-	-	2	-	-	-	2	13	23	31	67	77	123	76	150	92	85	36	3	6	-			
NONMANUFACTURING -----	985	37.5	298.50	294.00	243.50-339.00	-	-	-	-	-	5	29	51	63	62	96	85	116	116	119	70	108	32	9	9	15			
PUBLIC UTILITIES -----	244	39.0	368.50	375.50	326.50-397.00	-	-	-	-	-	-	-	-	-	9	16	3	7	17	37	23	74	27	7	9	15			
RETAIL TRADE -----	53	38.0	314.00	314.00	288.00-350.00	-	-	-	-	-	-	-	-	-	1	2	3	5	10	9	7	5	11	-	-	-			
FINANCE -----	528	37.0	275.50	282.00	240.50-317.50	-	-	-	-	-	5	22	26	47	29	63	66	71	76	70	39	14	-	-	-	-			
SERVICES -----	126	36.0	259.00	240.00	199.00-304.00	-	-	-	-	-	-	7	25	10	19	11	11	11	13	5	2	7	5	2	-	-			
COMPUTER PROGRAMMERS (BUSINESS), CLASS A -----	768	38.0	339.50	333.50	306.50-357.50	-	-	2	-	-	-	-	-	1	2	8	47	111	97	197	127	103	37	6	15	15			
MANUFACTURING -----	385	38.0	343.00	338.00	321.50-362.00	-	-	2	-	-	-	-	-	1	1	3	13	45	23	121	74	63	30	3	6	-			
NONMANUFACTURING -----	383	37.5	335.50	323.00	298.00-350.00	-	-	-	-	-	-	-	-	-	1	5	34	66	74	76	53	40	7	3	9	15			
FINANCE -----	272	37.0	314.00	315.50	295.00-335.00	-	-	-	-	-	-	-	-	-	1	5	32	48	69	64	39	14	-	-	-	-			
COMPUTER PROGRAMMERS (BUSINESS), CLASS B -----	768	37.5	289.00	281.00	249.00-320.50	-	-	-	-	-	-	22	33	31	48	132	110	122	74	41	28	90	31	6	-	-			
MANUFACTURING -----	342	38.0	286.00	287.00	259.00-310.00	-	-	-	-	-	-	-	13	11	15	52	61	76	46	23	15	22	6	-	-	-			
NONMANUFACTURING -----	426	37.0	290.00	276.00	241.50-345.00	-	-	-	-	-	-	22	20	20	33	80	49	44	28	18	13	68	25	6	-	-			
FINANCE -----	186	36.5	242.50	251.50	211.50-272.50	-	-	-	-	-	-	22	20	16	12	50	33	22	7	6	-	-	-	-	-	-			
COMPUTER PROGRAMMERS (BUSINESS), CLASS C -----	235	36.0	243.00	225.00	202.00-302.00	-	-	-	-	-	5	9	31	54	43	23	5	6	21	31	7	-	-	-	-	-			
MANUFACTURING -----	59	39.0	256.00	242.50	225.00-305.00	-	-	-	-	-	-	2	-	11	15	12	3	-	7	6	3	-	-	-	-	-			
NONMANUFACTURING -----	176	37.5	236.50	220.50	200.00-289.50	-	-	-	-	-	5	7	31	43	28	11	2	6	14	25	4	-	-	-	-	-			
FINANCE -----	68	37.0	213.00	214.00	202.00-226.50	-	-	-	-	-	5	-	6	31	16	8	1	1	-	-	-	-	-	-	-	-			
COMPUTER OPERATORS -----	2,408	36.0	215.00	209.00	175.50-240.00	26	8	15	39	64	116	385	330	441	350	184	132	142	53	21	47	23	12	-	-	-			
MANUFACTURING -----	1,077	39.0	225.00	216.50	185.50-253.00	-	-	7	6	31	29	135	115	254	151	105	70	94	26	7	39	8	-	-	-	-			
NONMANUFACTURING -----	1,331	37.5	207.00	198.00	168.50-237.00	26	8	8	33	53	87	250	215	187	199	79	62	46	27	14	6	15	12	-	-	-			
PUBLIC UTILITIES -----	201	39.5	272.00	243.00	237.00-296.50	-	-	-	-	-	-	1	6	4	89	13	6	43	8	11	4	7	9	-	-	-			
WHOLESALE TRADE -----	176	38.5	219.00	207.50	182.50-234.50	-	-	-	-	-	-	40	36	47	13	14	7	-	7	-	4	8	-	-	-	-			
RETAIL TRADE -----	117	38.5	211.50	218.50	178.00-242.00	-	-	1	6	5	4	16	14	15	14	23	17	2	-	-	-	-	-	-	-	-			
FINANCE -----	550	37.0	195.00	192.00	164.00-217.00	26	4	3	27	19	35	87	112	104	59	24	32	3	9	3	-	-	3	-	-	-			
SERVICES -----	287	35.5	176.00	167.00	157.50-189.50	-	4	4	-	29	48	106	47	17	24	5	-	-	3	-	-	-	-	-	-	-			

See footnotes at end of tables.

Table A-2. Weekly earnings of professional and technical workers in Philadelphia, Pa.—N.J., November 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	\$ 100	\$ 110	\$ 120	\$ 130	\$ 140	\$ 150	\$ 160	\$ 180	\$ 200	\$ 220	\$ 240	\$ 260	\$ 280	\$ 300	\$ 320	\$ 340	\$ 360	\$ 400	\$ 440	\$ 480	\$ 520			
						and under	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
						110	120	130	140	150	160	180	200	220	240	260	280	300	320	340	360	400	440	480	520	560			
ALL WORKERS-- CONTINUED																													
COMPUTER OPERATORS - CONTINUED																													
COMPUTER OPERATORS, CLASS A -----	694	38.0	250.50	239.50	213.00-282.00	-	-	-	-	-	-	14	71	138	142	71	73	94	33	12	15	19	12	-	-	-			
MANUFACTURING -----	341	39.0	262.50	260.00	232.50-286.00	-	-	-	-	-	-	-	5	57	58	49	48	73	23	7	13	8	-	-	-	-			
NONMANUFACTURING -----	353	37.5	239.50	225.00	203.00-257.00	-	-	-	-	-	-	14	66	81	84	22	25	21	10	5	2	11	12	-	-	-			
PUBLIC UTILITIES -----	74	39.5	299.50	297.00	239.50-334.50	-	-	-	-	-	-	-	-	-	31	-	1	16	3	5	2	7	9	-	-	-			
FINANCE -----	148	36.5	222.00	213.50	202.50-230.00	-	-	-	-	-	-	6	26	57	31	16	6	3	-	-	-	-	3	-	-	-			
SERVICES -----	60	35.0	208.00	198.00	185.00-227.00	-	-	-	-	-	-	8	22	7	20	-	-	-	3	-	-	-	-	-	-	-			
COMPUTER OPERATORS, CLASS B -----	1,291	38.0	209.00	202.00	172.00-237.00	-	2	2	22	66	87	230	202	223	186	108	54	46	20	9	30	4	-	-	-	-			
MANUFACTURING -----	537	39.0	217.50	215.00	185.00-239.50	-	-	-	2	21	17	67	80	130	92	56	22	21	3	-	26	-	-	-	-	-			
NONMANUFACTURING -----	754	37.0	203.00	192.00	167.50-234.50	-	2	2	20	45	70	163	122	93	94	52	32	25	17	9	4	4	-	-	-	-			
PUBLIC UTILITIES -----	93	39.0	262.50	237.00	237.00-291.00	-	-	-	-	-	-	1	2	2	42	8	-	25	5	6	2	-	-	-	-	-			
WHOLESALE TRADE -----	128	38.5	213.50	210.00	170.00-234.50	-	-	-	-	-	-	40	20	30	12	11	6	-	3	-	2	4	-	-	-	-			
RETAIL TRADE -----	78	38.0	203.50	208.00	176.00-241.00	-	-	1	6	3	2	9	12	13	12	20	-	-	-	-	-	-	-	-	-	-			
FINANCE -----	287	37.0	196.00	192.00	166.50-217.00	-	2	1	14	16	23	46	77	38	24	8	26	-	9	3	-	-	-	-	-	-			
SERVICES -----	168	35.0	169.50	165.00	154.00-176.50	-	-	-	-	26	45	67	11	10	4	5	-	-	-	-	-	-	-	-	-	-			
COMPUTER OPERATORS, CLASS C -----	423	38.5	175.00	171.00	159.00-201.00	26	6	13	17	18	29	141	57	80	22	5	5	2	-	-	2	-	-	-	-	-			
MANUFACTURING -----	199	39.0	180.00	179.00	165.00-201.00	-	-	-	7	4	10	68	30	67	1	-	-	-	-	-	-	-	-	-	-	-			
NONMANUFACTURING -----	224	38.0	176.50	160.50	143.00-195.00	26	6	6	13	8	17	73	27	13	21	5	5	2	-	-	2	-	-	-	-	-			
PUBLIC UTILITIES -----	34	40.0	237.00	233.50	222.00-257.00	-	-	-	-	-	-	-	4	2	16	5	5	2	-	-	-	-	-	-	-	-			
FINANCE -----	115	37.5	152.00	160.00	126.00-173.00	26	2	2	13	3	12	35	9	9	4	-	-	-	-	-	-	-	-	-	-	-			
SERVICES -----	59	38.0	161.00	160.00	160.00-174.00	-	4	4	-	3	3	31	14	-	-	-	-	-	-	-	-	-	-	-	-	-			
DRAFTERS -----	2,380	39.5	271.50	266.00	222.50-319.00	-	-	-	6	34	42	82	141	254	285	259	201	209	298	170	151	241	7	-	-	-			
MANUFACTURING -----	1,650	40.0	281.00	282.50	226.50-329.50	-	-	-	-	30	20	59	104	138	136	178	141	127	228	134	115	233	7	-	-	-			
NONMANUFACTURING -----	730	39.5	249.50	240.00	210.00-290.00	-	-	-	6	4	22	23	37	116	149	81	60	82	70	36	36	8	-	-	-	-			
SERVICES -----	552	40.0	246.00	240.00	209.50-290.00	-	-	-	6	4	21	19	30	98	71	73	46	64	65	21	26	6	-	-	-	-			
DRAFTERS, CLASS A -----	987	40.0	314.50	319.00	274.50-350.00	-	-	-	-	-	-	-	-	32	57	104	71	96	134	137	134	216	4	-	-	-			
MANUFACTURING -----	746	40.0	323.50	329.50	284.00-380.00	-	-	-	-	-	-	-	-	9	43	79	47	45	77	125	109	208	4	-	-	-			
NONMANUFACTURING -----	241	39.5	286.00	290.00	258.50-315.00	-	-	-	-	-	-	-	-	23	14	25	24	53	57	12	25	8	-	-	-	-			
SERVICES -----	208	40.0	284.00	290.00	253.00-310.00	-	-	-	-	-	-	-	-	22	13	21	17	47	53	9	20	6	-	-	-	-			
DRAFTERS, CLASS B -----	899	40.0	260.50	260.00	225.00-301.00	-	-	-	-	-	17	27	62	77	133	129	116	101	161	31	17	25	3	-	-	-			
MANUFACTURING -----	616	40.0	266.00	276.00	226.00-307.00	-	-	-	-	-	8	16	51	47	73	73	80	77	149	6	6	25	3	-	-	-			
NONMANUFACTURING -----	283	39.5	248.50	242.50	220.00-279.00	-	-	-	-	-	9	11	11	30	60	56	36	24	12	23	11	-	-	-	-	-			
SERVICES -----	237	39.5	244.00	240.00	220.00-262.50	-	-	-	-	-	8	10	7	26	56	52	31	17	12	12	6	-	-	-	-	-			
DRAFTERS, CLASS C -----	357	40.0	201.50	200.00	176.00-217.50	-	-	-	4	28	13	52	70	113	22	26	14	10	3	2	-	-	-	-	-	-			
MANUFACTURING -----	241	40.0	205.00	200.00	176.00-235.00	-	-	-	-	24	-	43	47	59	20	26	14	5	2	1	-	-	-	-	-	-			
NONMANUFACTURING -----	116	39.5	194.00	200.00	175.00-210.00	-	-	-	4	4	13	9	23	54	2	-	5	1	1	-	-	-	-	-	-	-			
SERVICES -----	105	39.5	187.00	197.50	170.00-200.00	-	-	-	4	4	13	9	23	50	2	-	-	-	-	-	-	-	-	-	-	-			
ELECTRONICS TECHNICIANS -----	2,260	40.0	286.50	289.50	234.00-344.50	-	-	-	-	16	18	84	89	222	181	150	180	294	114	49	766	97	-	-	-	-			
MANUFACTURING -----	1,424	40.0	249.00	253.00	215.00-283.00	-	-	-	-	16	18	84	89	222	181	150	180	294	112	49	16	13	-	-	-	-			
ELECTRONICS TECHNICIANS, CLASS A -----	697	40.0	276.50	281.00	252.00-295.00	-	-	-	-	-	-	-	4	34	79	85	132	203	88	23	38	11	-	-	-	-			
MANUFACTURING -----	671	40.0	273.50	280.00	251.00-293.00	-	-	-	-	-	-	-	4	34	79	85	132	203	88	23	16	7	-	-	-	-			
ELECTRONICS TECHNICIANS, CLASS B -----	655	40.0	279.00	269.00	227.00-332.50	-	-	-	-	-	-	-	15	137	90	62	46	91	26	26	76	86	-	-	-	-			
MANUFACTURING -----	497	40.0	249.50	241.00	215.00-281.50	-	-	-	-	-	-	-	15	137	90	62	46	91	24	26	-	6	-	-	-	-			
ELECTRONICS TECHNICIANS, CLASS C -----	256	40.0	184.00	190.00	160.50-200.00	-	-	-	-	16	18	84	70	51	12	3	2	-	-	-	-	-	-	-	-	-			
MANUFACTURING -----	256	40.0	184.00	190.00	160.50-200.00	-	-	-	-	16	18	84	70	51	12	3	2	-	-	-	-	-	-	-	-	-			
REGISTERED INDUSTRIAL NURSES -----	338	39.0	253.00	241.50	220.00-279.00	-	-	-	-	-	-	4	15	65	79	50	46	23	21	18	7	5	3	-	-	-			
MANUFACTURING -----	271	39.5	251.50	240.00	221.00-279.00	-	-	-	-	-	-	4	12	46	72	38	36	22	19	14	5	3	-	-	-	-			
NONMANUFACTURING -----	67	38.0	258.50	241.50	211.00-279.50	-	-	-	-	-	-	-	3	19	7	12	12	1	2	4	2	2	3	-	-	-			

See footnotes at end of tables.

Table A-3. Average weekly earnings of office, professional, and technical workers, by sex, in Philadelphia, Pa.—N.J., November 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 (standard)	Weekly earnings ¹ (standard)			Weekly hours (standard)	Weekly earnings ¹ (standard)			Weekly hours (standard)	Weekly earnings ¹ (standard)
OFFICE OCCUPATIONS - MEN			\$	OFFICE OCCUPATIONS - WOMEN--CONTINUED				OFFICE OCCUPATIONS - WOMEN--CONTINUED			\$
MESSENGERS -----	533	37.5	140.50	SECRETARIES - CONTINUED				TRANSCRIBING-MACHINE TYPISTS -----	749	36.5	154.00
MANUFACTURING -----	170	38.5	140.50					MANUFACTURING -----	97	37.5	169.50
NONMANUFACTURING -----	363	37.5	140.00					NONMANUFACTURING -----	652	36.0	151.50
FINANCE -----	195	36.5	134.00	SECRETARIES, CLASS A -----	1,011	38.5	250.50	FINANCE -----	560	36.0	148.00
SERVICES -----	109	37.5	122.50	MANUFACTURING -----	684	39.0	246.50				
				NONMANUFACTURING -----	327	38.0	259.50	TYPISTS -----	4,093	37.0	142.00
ORDER CLERKS -----	208	38.5	239.50	PUBLIC UTILITIES -----	91	39.0	311.50	MANUFACTURING -----	1,241	37.0	159.00
MANUFACTURING -----	104	39.0	261.50	FINANCE -----	91	36.5	241.50	NONMANUFACTURING -----	2,852	37.0	134.50
NONMANUFACTURING -----	104	38.5	217.50	SERVICES -----	79	37.5	246.00	PUBLIC UTILITIES -----	163	39.0	208.00
WHOLESALE TRADE -----	104	38.5	217.50					WHOLESALE TRADE -----	76	39.0	160.50
				SECRETARIES, CLASS B -----	2,894	38.0	224.50	RETAIL TRADE -----	153	38.0	134.50
ORDER CLERKS, CLASS A -----	128	38.5	259.00	MANUFACTURING -----	1,505	39.0	233.00	FINANCE -----	1,974	36.5	123.50
MANUFACTURING -----	74	39.5	284.00	NONMANUFACTURING -----	1,389	37.0	215.50	SERVICES -----	486	38.0	151.50
				PUBLIC UTILITIES -----	140	39.5	300.50				
ORDER CLERKS, CLASS B -----	80	39.0	208.50	WHOLESALE TRADE -----	108	39.0	231.00	TYPISTS, CLASS A -----	1,387	38.0	161.00
				RETAIL TRADE -----	117	38.0	204.00	MANUFACTURING -----	470	38.5	174.50
ACCOUNTING CLERKS -----	989	38.5	231.00	FINANCE -----	793	36.5	200.50	NONMANUFACTURING -----	917	37.5	154.00
MANUFACTURING -----	515	39.5	257.00	SERVICES -----	231	37.5	213.00	PUBLIC UTILITIES -----	137	39.0	207.50
NONMANUFACTURING -----	474	38.0	203.00					FINANCE -----	444	37.0	133.00
PUBLIC UTILITIES -----	157	39.5	253.50	SECRETARIES, CLASS C -----	4,207	38.5	211.00	SERVICES -----	300	38.0	157.50
WHOLESALE TRADE -----	102	37.5	206.50	MANUFACTURING -----	2,651	39.0	223.00				
FINANCE -----	157	36.5	163.50	NONMANUFACTURING -----	1,556	37.5	190.50	TYPISTS, CLASS B -----	2,706	37.0	132.50
				PUBLIC UTILITIES -----	127	38.5	258.00	MANUFACTURING -----	771	36.5	149.50
ACCOUNTING CLERKS, CLASS A -----	443	38.5	234.00	WHOLESALE TRADE -----	224	39.5	215.50	NONMANUFACTURING -----	1,935	37.0	125.50
MANUFACTURING -----	229	39.0	256.00	RETAIL TRADE -----	83	37.5	174.50	PUBLIC UTILITIES -----	26	39.5	210.00
NONMANUFACTURING -----	214	37.5	210.00	FINANCE -----	875	37.0	176.00	WHOLESALE TRADE -----	53	38.5	147.00
PUBLIC UTILITIES -----	48	38.5	250.50	SERVICES -----	247	37.5	189.50	RETAIL TRADE -----	140	38.0	132.50
WHOLESALE TRADE -----	68	37.5	217.50					FINANCE -----	1,530	36.5	121.00
				SECRETARIES, CLASS D -----	4,005	38.0	185.50	SERVICES -----	186	39.0	142.50
ACCOUNTING CLERKS, CLASS B -----	546	39.0	228.50	MANUFACTURING -----	2,057	38.5	196.00				
NONMANUFACTURING -----	260	38.5	197.00	NONMANUFACTURING -----	1,948	37.5	175.00	FILE CLERKS -----	2,023	37.5	127.00
PUBLIC UTILITIES -----	109	39.5	254.50	PUBLIC UTILITIES -----	162	39.0	210.50	MANUFACTURING -----	300	38.5	151.50
FINANCE -----	77	37.0	143.00	WHOLESALE TRADE -----	385	38.5	193.00	NONMANUFACTURING -----	1,723	37.5	123.00
				RETAIL TRADE -----	99	38.5	166.50	PUBLIC UTILITIES -----	50	37.5	183.50
PAYROLL CLERKS -----	123	39.0	235.00	FINANCE -----	837	37.0	162.50	FINANCE -----	1,398	37.5	118.50
MANUFACTURING -----	90	39.5	242.00	SERVICES -----	465	37.5	172.00				
								FILE CLERKS, CLASS A -----	195	37.5	151.00
TABULATING-MACHINE OPERATORS -----	145	39.0	231.50	STENOGRAPHERS -----	2,818	38.5	177.00	NONMANUFACTURING -----	147	36.5	141.00
MANUFACTURING -----	60	40.0	271.00	MANUFACTURING -----	1,251	39.5	186.00	FINANCE -----	119	36.5	135.50
NONMANUFACTURING -----	85	38.5	203.50	NONMANUFACTURING -----	1,567	37.5	170.00				
				PUBLIC UTILITIES -----	330	38.5	229.00	FILE CLERKS, CLASS B -----	848	37.5	131.00
TABULATING-MACHINE OPERATORS, CLASS B -----	67	39.0	210.00	WHOLESALE TRADE -----	139	39.5	188.00	MANUFACTURING -----	145	38.5	155.50
				RETAIL TRADE -----	51	37.5	169.00	NONMANUFACTURING -----	703	37.5	126.50
				FINANCE -----	708	36.5	142.00	FINANCE -----	533	37.5	120.50
				SERVICES -----	339	38.0	163.00				
OFFICE OCCUPATIONS - WOMEN				STENOGRAPHERS, GENERAL -----	1,586	38.0	172.00	FILE CLERKS, CLASS C -----	980	37.5	119.00
SECRETARIES -----	12,204	38.5	209.00	MANUFACTURING -----	593	39.5	180.50	MANUFACTURING -----	107	38.5	134.00
MANUFACTURING -----	6,912	39.0	219.50	NONMANUFACTURING -----	993	37.5	167.00	NONMANUFACTURING -----	873	37.5	117.00
NONMANUFACTURING -----	5,292	37.5	195.50	PUBLIC UTILITIES -----	271	38.5	215.50	PUBLIC UTILITIES -----	29	38.0	182.00
PUBLIC UTILITIES -----	520	39.0	264.00	FINANCE -----	480	36.5	135.50	FINANCE -----	746	37.5	114.50
WHOLESALE TRADE -----	746	39.0	207.00	SERVICES -----	109	39.0	164.50				
RETAIL TRADE -----	408	38.5	188.50					MESSENGERS -----	342	38.5	143.00
FINANCE -----	2,596	37.0	181.50	STENOGRAPHERS, SENIOR -----	1,232	39.0	183.00	MANUFACTURING -----	178	39.5	145.50
SERVICES -----	1,022	37.5	191.50	MANUFACTURING -----	658	40.0	190.50	NONMANUFACTURING -----	164	37.5	139.50
				NONMANUFACTURING -----	574	37.5	174.50				
				FINANCE -----	228	37.5	155.50				
				SERVICES -----	230	37.5	162.50				

See footnotes at end of tables.

Table A-3. Average weekly earnings of office, professional, and technical workers, by sex, in Philadelphia, Pa.—N.J., November 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			\$	OFFICE OCCUPATIONS - WOMEN--CONTINUED			\$	PROFESSIONAL AND TECHNICAL OCCUPATIONS - MEN--CONTINUED			\$
SWITCHBOARD OPERATORS -----	845	38.5	168.50	BOOKKEEPING-MACHINE OPERATORS - CONTINUED				COMPUTER SYSTEMS ANALYSTS (BUSINESS) - CONTINUED			
MANUFACTURING -----	321	39.0	188.50	BOOKKEEPING-MACHINE OPERATORS, CLASS A -----	152	37.5	179.50	COMPUTER SYSTEMS ANALYSTS (BUSINESS), CLASS A -----	788	38.5	399.50
NONMANUFACTURING -----	524	38.0	156.50	MANUFACTURING -----	100	38.0	184.00	MANUFACTURING -----	424	39.0	398.50
PUBLIC UTILITIES -----	69	39.5	238.50	BOOKKEEPING-MACHINE OPERATORS, CLASS B -----	194	37.5	141.50	NONMANUFACTURING -----	364	37.5	400.50
RETAIL TRADE -----	155	38.0	138.00	MANUFACTURING -----	93	37.0	159.50	FINANCE -----	167	37.0	364.00
FINANCE -----	115	37.0	145.50	NONMANUFACTURING -----	101	38.0	125.00	COMPUTER SYSTEMS ANALYSTS (BUSINESS), CLASS B -----	307	38.0	339.50
SERVICES -----	157	38.5	142.50	MACHINE BILLERS -----	151	38.0	153.50	MANUFACTURING -----	153	39.0	352.50
SWITCHBOARD OPERATOR-RECEPTIONISTS- MANUFACTURING -----	1,151	38.0	157.00	NONMANUFACTURING -----	104	38.5	152.00	NONMANUFACTURING -----	154	37.0	326.50
MANUFACTURING -----	573	39.0	161.50	BILLING-MACHINE BILLERS -----	113	38.5	160.00	FINANCE -----	100	37.0	314.50
NONMANUFACTURING -----	578	37.5	152.50	NONMANUFACTURING -----	72	39.0	161.00	COMPUTER SYSTEMS ANALYSTS (BUSINESS), CLASS C -----	86	38.0	281.00
PUBLIC UTILITIES -----	46	38.5	166.50	PAYROLL CLERKS -----	907	38.0	173.50	NONMANUFACTURING -----	55	37.5	262.00
WHOLESALE TRADE -----	186	38.5	157.50	MANUFACTURING -----	526	38.5	181.50	COMPUTER PROGRAMMERS (BUSINESS) -----	1,299	38.0	312.50
RETAIL TRADE -----	56	38.5	137.00	NONMANUFACTURING -----	381	37.5	162.50	MANUFACTURING -----	542	38.5	321.50
FINANCE -----	156	36.0	147.00	PUBLIC UTILITIES -----	57	39.0	194.50	NONMANUFACTURING -----	757	37.5	305.50
SERVICES -----	134	37.5	153.50	RETAIL TRADE -----	79	37.5	148.50	PUBLIC UTILITIES -----	198	39.0	372.00
ORDER CLERKS -----	717	38.0	167.50	FINANCE -----	120	36.5	171.00	FINANCE -----	399	37.0	281.00
MANUFACTURING -----	541	38.5	178.50	SERVICES -----	77	38.5	152.50	SERVICES -----	96	36.0	273.00
ORDER CLERKS, CLASS A -----	183	38.5	196.50	KEYPUNCH OPERATORS -----	3,727	38.0	168.50	COMPUTER PROGRAMMERS (BUSINESS), CLASS A -----	615	38.0	342.50
MANUFACTURING -----	167	38.5	204.50	MANUFACTURING -----	1,572	39.0	173.00	MANUFACTURING -----	298	38.5	345.00
ORDER CLERKS, CLASS B -----	534	38.0	157.50	NONMANUFACTURING -----	2,155	37.5	164.50	NONMANUFACTURING -----	317	37.5	340.50
MANUFACTURING -----	374	38.0	167.00	PUBLIC UTILITIES -----	291	39.5	226.00	FINANCE -----	223	37.0	314.50
ACCOUNTING CLERKS -----	5,482	38.0	168.50	WHOLESALE TRADE -----	435	38.0	164.50	COMPUTER PROGRAMMERS (BUSINESS), CLASS B -----	539	37.5	292.00
MANUFACTURING -----	1,991	38.5	182.00	RETAIL TRADE -----	427	38.5	162.50	MANUFACTURING -----	212	38.0	295.50
NONMANUFACTURING -----	3,491	38.0	160.50	FINANCE -----	666	36.5	148.50	NONMANUFACTURING -----	327	37.0	289.50
PUBLIC UTILITIES -----	268	39.0	226.00	SERVICES -----	336	37.0	146.50	FINANCE -----	145	36.5	244.00
WHOLESALE TRADE -----	699	38.5	172.00	KEYPUNCH OPERATORS, CLASS A -----	1,640	38.5	186.00	COMPUTER PROGRAMMERS (BUSINESS), CLASS C -----	145	38.0	259.50
RETAIL TRADE -----	797	38.5	148.00	MANUFACTURING -----	870	39.0	186.50	NONMANUFACTURING -----	113	38.0	254.00
FINANCE -----	1,234	37.0	146.50	NONMANUFACTURING -----	770	38.0	185.00	COMPUTER OPERATORS -----	1,896	38.0	221.50
SERVICES -----	493	38.5	165.50	WHOLESALE TRADE -----	76	38.0	201.00	MANUFACTURING -----	866	39.0	230.50
ACCOUNTING CLERKS, CLASS A -----	2,146	38.5	187.50	FINANCE -----	316	37.0	156.50	NONMANUFACTURING -----	1,030	37.5	213.50
MANUFACTURING -----	901	38.5	199.50	KEYPUNCH OPERATORS, CLASS B -----	2,087	38.0	154.50	PUBLIC UTILITIES -----	165	39.5	275.50
NONMANUFACTURING -----	1,245	38.0	179.50	MANUFACTURING -----	702	39.0	156.50	WHOLESALE TRADE -----	120	38.0	227.00
PUBLIC UTILITIES -----	98	39.5	243.50	NONMANUFACTURING -----	1,385	37.5	153.50	RETAIL TRADE -----	106	38.5	217.00
WHOLESALE TRADE -----	193	38.5	200.50	PUBLIC UTILITIES -----	140	39.0	202.50	FINANCE -----	403	37.0	204.00
RETAIL TRADE -----	289	38.5	165.00	WHOLESALE TRADE -----	359	38.0	157.00	SERVICES -----	236	35.5	177.50
FINANCE -----	515	37.5	165.50	RETAIL TRADE -----	245	37.5	149.50	COMPUTER OPERATORS, CLASS A -----	605	38.5	255.00
SERVICES -----	150	38.0	185.00	FINANCE -----	350	36.0	141.50	MANUFACTURING -----	328	39.0	263.50
ACCOUNTING CLERKS, CLASS B -----	3,336	38.0	156.00	SERVICES -----	291	37.0	143.00	NONMANUFACTURING -----	277	37.5	245.00
MANUFACTURING -----	1,090	39.0	168.00	TABULATING-MACHINE OPERATORS -----	52	38.0	247.00	FINANCE -----	119	36.5	223.00
NONMANUFACTURING -----	2,246	38.0	150.50	PROFESSIONAL AND TECHNICAL OCCUPATIONS - MEN				SERVICES -----	51	35.5	212.00
PUBLIC UTILITIES -----	170	39.0	216.00	COMPUTER SYSTEMS ANALYSTS (BUSINESS) -----	1,181	38.5	375.00				
WHOLESALE TRADE -----	506	38.5	161.00	MANUFACTURING -----	608	39.0	383.00				
RETAIL TRADE -----	508	38.0	138.50	NONMANUFACTURING -----	573	37.5	367.00				
FINANCE -----	719	37.0	132.50	FINANCE -----	310	37.0	331.50				
SERVICES -----	343	38.5	157.00								
BOOKKEEPING-MACHINE OPERATORS -----	346	37.5	158.00								
MANUFACTURING -----	193	37.5	172.00								
NONMANUFACTURING: WHOLESALE TRADE -----	79	39.0	137.50								

Table A-3. Average weekly earnings of office, professional, and technical workers, by sex, in Philadelphia, Pa.—N.J., November 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--CONTINUED			
COMPUTER OPERATORS - CONTINUED				ELECTRONICS TECHNICIANS - CONTINUED				COMPUTER PROGRAMMERS (BUSINESS) - CONTINUED			
COMPUTER OPERATORS, CLASS B -----	996	38.0	\$ 213.00				\$	COMPUTER PROGRAMMERS (BUSINESS), CLASS B -----	225	37.5	\$ 283.50
MANUFACTURING -----	396	39.0	222.00	ELECTRONICS TECHNICIANS, CLASS A-----	648	40.0	278.50	MANUFACTURING -----	130	38.0	275.50
NONMANUFACTURING -----	600	37.0	207.00	MANUFACTURING -----	622	40.0	275.50	NONMANUFACTURING -----	95	37.0	294.00
PUBLIC UTILITIES -----	68	39.5	272.00	ELECTRONICS TECHNICIANS, CLASS B-----	650	40.0	279.50	COMPUTER PROGRAMMERS (BUSINESS), CLASS C -----	85	37.5	216.50
WHOLESALE TRADE -----	104	38.0	215.50	MANUFACTURING -----	493	40.0	250.00	NONMANUFACTURING -----	58	37.0	209.50
RETAIL TRADE -----	70	38.5	209.50	ELECTRONICS TECHNICIANS, CLASS C-----	227	40.0	181.00	COMPUTER OPERATORS -----	489	38.0	190.50
FINANCE -----	221	37.0	203.50	MANUFACTURING -----	227	40.0	181.00	MANUFACTURING -----	211	39.0	201.00
SERVICES -----	137	34.5	172.50	PROFESSIONAL AND TECHNICAL OCCUPATIONS - WOMEN				NONMANUFACTURING -----	278	37.0	183.00
COMPUTER OPERATORS, CLASS C -----	295	38.5	180.50	COMPUTER SYSTEMS ANALYSTS (BUSINESS) -----	337	37.5	348.00	WHOLESALE TRADE -----	56	38.5	202.00
MANUFACTURING -----	142	39.0	179.00	MANUFACTURING -----	101	39.0	375.00	FINANCE -----	124	36.5	161.00
NONMANUFACTURING -----	153	38.0	181.50	NONMANUFACTURING -----	236	37.0	337.00	SERVICES -----	51	36.0	169.50
PUBLIC UTILITIES -----	29	40.0	241.50	FINANCE -----	103	37.0	289.50	COMPUTER OPERATORS, CLASS A -----	85	37.5	220.00
FINANCE -----	63	37.5	169.50	COMPUTER SYSTEMS ANALYSTS (BUSINESS), CLASS A -----	168	37.5	405.00	NONMANUFACTURING -----	72	37.0	216.50
DRAFTERS -----	2,139	40.0	274.00	NONMANUFACTURING -----	120	37.5	409.50	COMPUTER OPERATORS, CLASS B -----	285	38.0	194.00
MANUFACTURING -----	1,545	40.0	284.00	COMPUTER SYSTEMS ANALYSTS (BUSINESS), CLASS B -----	116	37.5	310.50	MANUFACTURING -----	141	39.0	205.50
NONMANUFACTURING -----	594	39.5	248.00	NONMANUFACTURING -----	74	37.0	271.00	NONMANUFACTURING -----	144	37.0	183.00
PUBLIC UTILITIES -----	45	38.5	271.00	COMPUTER SYSTEMS ANALYSTS (BUSINESS), CLASS C -----	53	37.5	251.00	FINANCE -----	56	36.5	168.00
SERVICES -----	489	40.0	244.50	COMPUTER PROGRAMMERS (BUSINESS) -----	461	37.5	285.00	COMPUTER OPERATORS, CLASS C -----	119	38.5	162.00
DRAFTERS, CLASS A -----	916	40.0	316.00	MANUFACTURING -----	244	38.0	292.50	MANUFACTURING -----	57	39.0	182.00
MANUFACTURING -----	716	40.0	325.50	NONMANUFACTURING -----	217	37.0	277.00	NONMANUFACTURING -----	62	38.0	144.00
NONMANUFACTURING -----	200	39.5	281.00	FINANCE -----	118	36.5	260.50	DRAFTERS -----	241	39.0	246.00
SERVICES -----	170	40.0	278.50	COMPUTER PROGRAMMERS (BUSINESS), CLASS A -----	151	37.5	326.50	MANUFACTURING -----	105	40.0	233.50
DRAFTERS, CLASS B -----	850	40.0	261.00	MANUFACTURING -----	87	38.0	336.50	NONMANUFACTURING -----	136	38.5	255.50
MANUFACTURING -----	584	40.0	266.50	NONMANUFACTURING -----	64	37.0	313.00	SERVICES -----	63	39.5	272.50
NONMANUFACTURING -----	266	39.5	249.00					DRAFTERS, CLASS A -----	71	39.5	298.00
SERVICES -----	221	39.5	244.00					ELECTRONICS TECHNICIANS -----	105	40.0	257.50
DRAFTERS, CLASS C -----	312	40.0	203.50					REGISTERED INDUSTRIAL NURSES -----	335	39.0	253.00
MANUFACTURING -----	209	40.0	209.50					MANUFACTURING -----	269	39.5	251.50
NONMANUFACTURING -----	103	39.5	191.00					NONMANUFACTURING -----	66	38.0	258.50
SERVICES -----	96	39.5	187.50								
DRAFTER-TRACERS -----	61	39.0	192.00								
ELECTRONICS TECHNICIANS -----	2,155	40.0	288.00								
MANUFACTURING -----	1,342	40.0	250.00								

See footnotes at end of tables.

Table A-4. Hourly earnings of maintenance, toolroom, and powerplant workers in Philadelphia, Pa.—N.J., November 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	\$ 3.20	\$ 3.40	\$ 3.60	\$ 3.80	\$ 4.00	\$ 4.20	\$ 4.40	\$ 4.60	\$ 5.00	\$ 5.40	\$ 5.80	\$ 6.20	\$ 6.60	\$ 7.00	\$ 7.40	\$ 7.80	\$ 8.20	\$ 8.60	\$ 9.00	\$ 9.40	\$ 9.80	\$ 10.20	
					Under \$ 3.20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ALL WORKERS																											
MAINTENANCE CARPENTERS -----	726	7.68	7.47	6.45- 8.58	-	-	-	-	-	-	7	2	1	15	16	59	166	27	58	36	61	111	53	1	11	109	-
MANUFACTURING -----	476	7.38	7.32	6.45- 8.49	-	-	-	-	-	-	7	2	-	-	13	52	90	26	57	34	58	101	41	1	1	-	-
NONMANUFACTURING -----	250	8.25	8.67	6.40-10.12	-	-	-	-	-	-	-	-	1	15	3	7	76	1	1	2	3	10	12	-	10	109	-
RETAIL TRADE -----	126	9.77	10.12	10.12-10.12	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	2	10	12	-	-	101	-
MAINTENANCE ELECTRICIANS -----	2,423	7.57	7.52	6.53- 8.56	-	-	-	-	-	-	5	-	1	48	49	155	457	135	267	287	274	185	338	17	152	24	29
MANUFACTURING -----	2,073	7.43	7.43	6.53- 8.34	-	-	-	-	-	-	7	-	-	48	48	149	397	131	255	272	254	170	276	12	44	-	17
NONMANUFACTURING -----	350	8.44	8.80	7.32- 9.49	-	-	-	-	-	-	5	-	1	-	1	6	60	4	12	15	20	15	62	5	108	24	12
RETAIL TRADE -----	124	8.91	8.80	8.38- 8.80	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	9	9	15	62	-	-	24	4
MAINTENANCE PAINTERS -----	395	7.05	6.90	6.09- 8.31	-	-	-	-	21	-	4	1	2	9	33	33	69	30	22	24	40	55	35	2	8	-	7
MANUFACTURING -----	270	7.38	7.33	6.50- 8.32	-	-	-	-	-	-	-	-	-	-	1	24	59	29	22	20	38	52	23	2	-	-	-
NONMANUFACTURING -----	125	6.35	5.55	5.08- 7.83	-	-	-	-	21	-	4	1	2	9	32	9	10	1	-	4	2	3	12	-	8	-	7
PUBLIC UTILITIES -----	26	7.90	8.37	6.52- 8.79	-	-	-	-	-	-	-	-	-	-	-	-	8	-	-	4	-	2	12	-	-	-	-
MAINTENANCE MACHINISTS -----	1,841	7.70	7.81	6.72- 8.69	-	-	-	-	-	-	7	-	17	32	49	157	184	141	213	120	199	46	498	19	122	44	-
MANUFACTURING -----	1,677	7.62	7.61	6.56- 8.69	-	-	-	-	-	-	-	-	17	32	49	157	184	134	167	114	188	46	496	18	31	44	-
NONMANUFACTURING: PUBLIC UTILITIES -----	162	8.55	9.49	7.13- 9.49	-	-	-	-	-	-	-	-	-	-	-	-	-	7	44	6	11	-	2	1	91	-	-
MAINTENANCE MECHANICS (MACHINERY) -----	3,213	7.02	7.26	6.26- 7.70	-	-	-	-	-	-	7	-	33	159	127	401	355	299	508	770	289	190	82	-	-	-	-
MANUFACTURING -----	3,127	7.01	7.26	6.26- 7.70	-	-	-	-	-	-	-	-	27	151	123	395	355	295	500	767	264	177	73	-	-	-	-
NONMANUFACTURING -----	86	7.28	8.10	6.06- 8.34	-	-	-	-	-	-	-	-	6	8	4	6	-	4	8	3	25	13	9	-	-	-	-
MAINTENANCE MECHANICS (MOTOR VEHICLES) -----	2,165	8.03	8.03	7.61- 8.67	-	-	-	-	-	-	5	-	6	9	16	23	21	145	246	195	537	351	540	11	53	7	-
MANUFACTURING -----	457	7.92	8.07	7.61- 8.58	-	-	-	-	-	-	7	-	6	9	8	9	17	13	12	109	58	108	108	-	-	-	-
NONMANUFACTURING -----	1,708	8.06	8.03	7.65- 8.80	-	-	-	-	-	-	5	-	-	-	8	14	4	132	234	56	479	243	432	11	53	7	-
PUBLIC UTILITIES -----	826	8.52	8.67	8.03- 8.86	-	-	-	-	-	-	-	-	-	-	8	3	4	-	10	8	205	162	355	11	53	7	-
MAINTENANCE PIPEFITTERS -----	1,488	7.67	7.97	6.74- 8.58	-	-	-	-	-	-	-	-	-	32	96	81	145	49	46	193	305	309	163	-	54	-	13
MANUFACTURING -----	1,414	7.60	7.96	6.60- 8.56	-	-	-	-	-	-	-	-	-	32	96	81	145	45	40	193	297	309	160	-	9	-	7
MAINTENANCE SHEET-METAL WORKERS -----	250	7.24	6.63	6.55- 7.97	-	-	-	-	-	-	-	-	-	5	-	21	88	27	-	19	42	17	23	1	7	-	-
MANUFACTURING -----	232	7.18	6.60	6.54- 7.97	-	-	-	-	-	-	-	-	-	5	-	21	88	18	-	18	42	17	23	-	-	-	-
MILLWRIGHTS -----	708	7.77	8.22	6.96- 8.52	-	-	-	-	-	-	-	-	-	-	8	20	148	7	25	78	68	192	162	-	-	-	-
MANUFACTURING -----	708	7.77	8.22	6.96- 8.52	-	-	-	-	-	-	-	-	-	-	8	20	148	7	25	78	68	192	162	-	-	-	-
MAINTENANCE TRADES HELPERS -----	726	5.80	6.05	4.45- 7.25	42	79	27	13	5	4	12	-	10	37	53	103	40	91	129	74	7	-	-	-	-	-	-
MANUFACTURING -----	640	5.76	6.05	4.25- 7.25	36	75	24	12	4	4	9	-	9	30	39	103	39	83	114	52	7	-	-	-	-	-	-
NONMANUFACTURING -----	86	6.03	6.77	5.01- 7.43	6	4	3	1	1	-	3	-	1	7	14	-	1	8	15	22	-	-	-	-	-	-	-
MACHINE-TOOL OPERATORS (TOOLROOM) -----	365	6.87	6.56	6.18- 7.71	-	-	-	-	-	-	-	-	-	1	1	96	90	56	24	36	12	49	-	-	-	-	-
MANUFACTURING -----	365	6.87	6.56	6.18- 7.71	-	-	-	-	-	-	-	-	-	1	1	96	90	56	24	36	12	49	-	-	-	-	-
TOOL AND DIE MAKERS -----	1,583	7.39	7.48	6.75- 8.08	-	-	-	-	-	-	-	-	-	7	51	7	257	222	242	367	79	44	304	-	-	3	-
MANUFACTURING -----	1,575	7.39	7.48	6.75- 8.08	-	-	-	-	-	-	-	-	-	7	51	7	257	220	242	364	79	41	304	-	-	3	-
STATIONARY ENGINEERS -----	986	7.11	7.09	6.46- 8.14	-	-	-	-	-	6	16	-	45	28	58	48	154	95	131	83	81	73	142	17	4	-	5
MANUFACTURING -----	615	7.21	7.12	6.50- 8.29	-	-	-	-	-	6	4	-	27	18	34	40	45	50	121	68	46	68	62	17	4	-	5
NONMANUFACTURING -----	371	6.94	6.66	6.46- 8.11	-	-	-	-	-	-	12	-	18	10	24	8	109	45	10	15	35	5	80	-	-	-	-
SERVICES -----	70	5.30	5.10	4.95- 5.72	-	-	-	-	-	-	12	-	18	7	18	5	-	10	-	-	-	-	-	-	-	-	-
BOILER TENDERS -----	285	6.59	6.39	5.40- 7.66	-	-	-	-	-	1	1	16	4	42	19	37	38	23	16	21	42	-	12	-	13	-	-
MANUFACTURING -----	260	6.43	6.39	5.40- 7.41	-	-	-	-	-	-	7	15	4	42	19	37	38	23	16	12	42	-	12	-	-	-	-

See footnotes at end of tables.

Table A-5. Hourly earnings of material movement and custodial workers in Philadelphia, Pa.—N.J., November 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	\$ 2.30 and under	\$ 2.40	\$ 2.60	\$ 2.80	\$ 3.00	\$ 3.20	\$ 3.40	\$ 3.60	\$ 3.80	\$ 4.00	\$ 4.20	\$ 4.60	\$ 5.00	\$ 5.40	\$ 5.80	\$ 6.20	\$ 6.60	\$ 7.00	\$ 7.40	\$ 7.80	\$ 8.20	\$ 8.60	\$ 9.00	
					2.40	2.60	2.80	3.00	3.20	3.40	3.60	3.80	4.00	4.20	4.60	5.00	5.40	5.80	6.20	6.60	7.00	7.40	7.80	8.20	8.60	9.00	over	
ALL WORKERS																												
TRUCKDRIVERS -----	10,544	\$ 7.86	\$ 8.57	\$ 7.75- 8.57	-	-	2	-	4	62	55	192	187	150		44	79	117	349	175	132	523	182	577	380	6580	736	18
MANUFACTURING -----	1,878	7.39	7.87	6.95- 8.53	-	-	-	-	6	13	49	19	32		18	42	48	44	121	15	81	129	174	340	612	95	-	
NONMANUFACTURING -----	8,666	7.96	8.57	8.47- 8.57	-	-	2	-	4	56	42	143	168	118		26	37	69	305	54	117	442	53	403	-	5968	641	18
PUBLIC UTILITIES -----	4,673	8.54	8.57	8.57- 8.57	-	-	-	-	-	-	-	-	-	-		-	4	-	-	34	35	2	23	88	-	4292	395	-
WHOLESALE TRADE -----	2,946	7.35	8.51	6.90- 8.57	-	-	-	-	-	42	143	144	118		-	18	50	-	18	80	440	30	315	-	1299	231	18	
RETAIL TRADE -----	458	7.92	8.57	8.57- 8.57	-	-	2	-	4	8	-	-	12		26	-	14	-	2	2	-	-	-	-	-	373	15	-
SERVICES -----	389	5.38	5.75	5.75- 5.75	-	-	-	-	-	48	-	-	12		-	15	5	305	-	-	-	-	-	-	-	4	-	-
TRUCKDRIVERS, LIGHT TRUCK -----	1,020	4.69	4.00	3.82- 5.75	-	-	2	-	4	62	42	143	181	118		32	52	45	201	21	24	32	32	27	-	2	-	-
MANUFACTURING -----	164	5.74	5.74	5.00- 6.75	-	-	-	-	6	-	-	-	13		6	15	27	16	17	-	32	32	-	-	-	-	-	-
NONMANUFACTURING -----	856	4.49	4.00	3.75- 5.75	-	-	2	-	4	56	42	143	168	118		26	37	18	185	4	24	-	-	27	-	2	-	-
PUBLIC UTILITIES -----	32	6.07	6.23	6.18- 6.28	-	-	-	-	-	-	-	-	-		-	4	-	-	4	24	-	-	-	-	-	-	-	-
SERVICES -----	262	5.19	5.75	4.82- 5.75	-	-	-	-	-	48	-	-	12		-	15	-	185	-	-	-	-	-	-	-	2	-	-
TRUCKDRIVERS, MEDIUM TRUCK -----	2,251	7.42	7.75	6.90- 8.57	-	-	-	-	-	11	24	6	13		2	17	72	135	26	86	439	74	312	335	694	5	-	-
MANUFACTURING -----	623	7.18	7.87	7.20- 7.87	-	-	-	-	-	11	24	6	13		2	17	21	15	23	6	15	67	-	335	63	5	-	-
NONMANUFACTURING -----	1,628	7.52	7.75	6.90- 8.57	-	-	-	-	-	-	-	-	-		-	-	51	120	3	80	424	7	312	-	631	-	-	-
WHOLESALE TRADE -----	987	7.32	6.90	6.90- 7.75	-	-	-	-	-	-	-	-	-		-	-	32	-	-	80	424	-	252	-	199	-	-	-
TRUCKDRIVERS, HEAVY TRUCK (TRAILER) -----	4,787	8.50	8.57	8.57- 8.57	-	-	-	-	-	-	6	-	-		-	8	-	9	42	4	31	15	157	6	3856	653	-	-
MANUFACTURING -----	477	7.84	8.33	7.41- 8.57	-	-	-	-	-	-	6	-	-		-	8	-	9	24	2	31	15	93	6	193	90	-	-
NONMANUFACTURING -----	4,310	8.57	8.57	8.57- 8.57	-	-	-	-	-	-	-	-	-		-	-	-	-	16	2	-	-	64	-	3663	563	-	-
PUBLIC UTILITIES -----	2,985	8.61	8.57	8.57- 8.57	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	28	-	2562	395	-	-
WHOLESALE TRADE -----	1,087	8.49	8.57	8.57- 8.57	-	-	-	-	-	-	-	-	-		-	-	-	-	18	-	-	-	36	-	865	168	-	-
TRUCKDRIVERS, HEAVY TRUCK (OTHER THAN TRAILER) -----	1,017	8.38	8.57	8.53- 8.57	-	-	-	-	-	-	19	-	17		-	2	-	-	2	2	16	30	-	-	854	57	18	-
MANUFACTURING -----	619	8.57	8.57	8.57- 8.57	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	16	30	-	-	498	57	18	-
PUBLIC UTILITIES -----	258	8.57	8.57	8.57- 8.57	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	258	-	-	-
WHOLESALE TRADE -----	207	8.55	8.57	8.57- 8.60	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	16	30	-	-	101	42	18	-
SHIPPING CLERKS -----	682	5.93	5.85	5.07- 6.91	-	-	-	-	-	14	11	9	4		63	49	112	67	71	84	38	19	126	8	7	-	-	-
MANUFACTURING -----	292	5.58	5.69	5.07- 6.26	-	-	-	-	-	-	-	-	-		36	20	71	46	44	58	-	14	-	3	-	-	-	-
NONMANUFACTURING -----	390	6.18	6.25	5.10- 7.59	-	-	-	-	-	14	11	9	4		27	29	41	21	27	26	38	5	126	5	7	-	-	-
WHOLESALE TRADE -----	340	6.18	6.25	5.10- 7.59	-	-	-	-	-	9	11	9	4		20	29	40	21	23	18	21	4	126	5	-	-	-	-
RECEIVING CLERKS -----	887	5.69	5.56	4.61- 7.16	-	-	7	5	10	13	11	37	39	35		64	95	75	94	64	70	33	90	126	19	-	-	-
MANUFACTURING -----	474	5.67	5.54	4.92- 6.33	-	-	-	-	-	6	25	26	3		13	61	64	84	39	47	19	28	58	1	-	-	-	-
NONMANUFACTURING -----	413	5.71	6.05	4.38- 7.33	-	-	7	5	10	13	5	12	13	32		51	34	11	10	25	23	14	62	68	18	-	-	-
WHOLESALE TRADE -----	142	6.13	7.59	4.53- 7.59	-	-	-	-	-	-	-	-	-	20		40	3	3	-	-	-	3	-	62	11	-	-	-
RETAIL TRADE -----	260	5.47	5.64	4.07- 7.10	-	-	7	5	10	13	5	11	13	9		11	31	8	9	25	23	11	62	-	7	-	-	-
SHIPPING AND RECEIVING CLERKS -----	713	5.52	5.43	4.42- 6.30	-	-	17	8	11	-	41	30	-	45		54	24	121	129	33	42	-	33	23	99	-	3	-
MANUFACTURING -----	428	5.26	5.35	4.49- 5.79	-	-	-	-	-	3	26	-	43		54	10	94	114	25	41	-	9	9	-	-	-	-	-
NONMANUFACTURING -----	285	5.91	6.18	3.58- 7.83	-	-	17	8	11	-	38	4	-	2		-	14	27	15	8	1	-	24	14	99	-	3	-
WHOLESALE TRADE -----	54	6.05	5.39	5.17- 7.00	-	-	-	-	-	-	-	-	-		-	2	26	-	6	-	-	15	-	-	-	-	3	-
RETAIL TRADE -----	218	5.99	7.50	3.50- 7.83	-	-	17	6	11	-	36	-	-		-	12	-	14	-	-	-	9	14	99	-	-	-	-
WAREHOUSEMEN -----	2,871	6.08	6.21	5.05- 7.50	-	-	38	18	30	4	43	17	45	29		102	374	331	192	187	265	370	105	492	139	90	-	-
MANUFACTURING -----	810	5.73	6.03	4.83- 6.43	-	-	6	6	6	-	27	-	-		46	176	78	34	135	105	102	58	-	31	-	-	-	-
NONMANUFACTURING -----	2,061	6.22	6.54	5.10- 7.68	-	-	32	12	24	4	16	17	45	29		56	198	253	158	52	160	268	47	492	108	90	-	-
PUBLIC UTILITIES -----	273	6.93	7.01	5.55- 8.49	-	-	-	-	-	-	-	-	-		-	-	-	122	-	-	3	34	14	10	90	-	-	-
WHOLESALE TRADE -----	660	5.61	6.21	4.75- 6.71	-	-	20	-	-	-	10	1	40	11		32	132	10	20	50	158	176	-	-	-	-	-	-
RETAIL TRADE -----	1,064	6.53	7.68	5.10- 7.68	-	-	12	12	24	-	1	12	-	13		-	60	237	11	2	2	89	13	478	98	-	-	-

See footnotes at end of tables.

Table A-5. Hourly earnings of material movement and custodial workers in Philadelphia, Pa.—N.J., November 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	\$ 2.30 and under	\$ 2.40	\$ 2.60	\$ 2.80	\$ 3.00	\$ 3.20	\$ 3.40	\$ 3.60	\$ 3.80	\$ 4.00	\$ 4.20	\$ 4.60	\$ 5.00	\$ 5.40	\$ 5.80	\$ 6.20	\$ 6.60	\$ 7.00	\$ 7.40	\$ 7.80	\$ 8.20	\$ 8.60	\$ 9.00			
					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
					2.40	2.60	2.80	3.00	3.20	3.40	3.60	3.80	4.00	4.20	4.60	5.00	5.40	5.80	6.20	6.60	7.00	7.40	7.80	8.20	8.60	9.00	over			
ALL WORKERS-- CONTINUED																														
ORDER FILLEES -----	2,611	\$ 5.81	\$ 5.46	\$ 4.53- 7.59	8	-	38	10	85	38	64	53	61	71	392	398	75	90	60	205	134	7	509	239	17	-	-	57		
MANUFACTURING -----	963	5.01	4.70	3.80- 6.20	8	-	24	10	85	38	55	16	10	30	34	213	28	65	53	194	58	6	6	27	3	-	-			
NONMANUFACTURING -----	1,648	6.28	6.96	4.53- 7.68	-	-	14	-	-	-	9	37	51	41	358	185	47	25	7	11	76	1	503	212	14	-	57			
WHOLESALE TRADE -----	969	6.26	6.96	4.53- 7.75	-	-	-	-	-	-	2	30	40	7	283	90	30	-	-	-	72	-	250	94	14	-	57			
RETAIL TRADE -----	651	6.42	7.67	4.75- 7.68	-	-	14	-	-	-	-	-	11	20	75	95	17	25	7	11	4	1	253	118	-	-	-			
SHIPPING PACKERS -----	2,225	4.65	4.75	3.69- 5.31	12	24	45	59	38	71	281	74	100	82	135	490	363	202	67	75	77	13	9	-	-	-	8			
MANUFACTURING -----	1,681	4.74	4.92	3.97- 5.32	12	12	10	46	10	26	212	64	97	79	75	375	318	132	60	53	74	9	9	-	-	-	8			
NONMANUFACTURING -----	544	4.35	4.40	3.40- 5.08	-	12	35	13	28	45	69	10	3	3	60	115	45	70	7	22	3	4	-	-	-	-	-			
RETAIL TRADE -----	250	4.18	4.40	3.15- 4.75	-	12	26	13	28	-	12	-	-	3	37	73	24	7	7	1	3	4	-	-	-	-	-			
MATERIAL HANDLING LABORERS -----	7,046	5.37	5.38	3.40- 6.67	-	87	160	261	148	89	1160	93	109	81	588	106	645	388	657	592	399	603	152	160	568	-	-			
MANUFACTURING -----	2,916	5.42	5.34	4.48- 6.42	-	18	45	-	42	43	51	30	84	74	526	88	473	218	242	446	319	161	-	56	-	-	-			
NONMANUFACTURING -----	4,130	5.33	5.49	3.40- 7.13	-	69	115	261	106	46	1109	63	25	7	62	18	172	170	415	146	80	442	152	104	568	-	-			
PUBLIC UTILITIES -----	635	7.86	8.30	8.25- 8.40	-	-	-	-	-	-	-	-	-	-	-	-	86	1	20	-	-	-	-	-	520	-	-			
WHOLESALE TRADE -----	1,991	4.83	3.40	3.40- 6.15	-	-	-	-	-	1080	36	-	-	-	30	-	9	69	360	107	33	9	135	75	48	-	-			
RETAIL TRADE -----	1,494	4.93	5.10	2.93- 7.11	-	69	115	261	106	41	29	22	25	7	32	18	77	100	27	39	47	433	17	29	-	-	-			
FORKLIFT OPERATORS -----	5,042	6.01	6.03	5.07- 6.98	-	-	-	2	20	-	252	13	-	5	382	555	301	370	655	561	506	646	190	290	94	-	-			
MANUFACTURING -----	3,809	5.94	6.02	5.07- 6.76	-	-	-	2	20	-	6	2	-	-	352	540	189	369	855	370	414	509	140	41	-	-	-			
NONMANUFACTURING -----	1,233	6.22	6.60	5.10- 7.83	-	-	-	-	-	246	11	-	5	30	30	15	112	1	-	191	92	137	50	249	94	-	-			
PUBLIC UTILITIES -----	97	8.52	8.57	8.57- 8.57	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	-	-	-	-	94	-	-			
WHOLESALE TRADE -----	602	5.57	6.26	3.40- 6.60	-	-	-	-	-	216	-	-	-	-	20	-	-	-	-	186	70	-	10	100	-	-	-			
RETAIL TRADE -----	534	6.54	7.28	5.10- 7.83	-	-	-	-	-	30	11	-	5	5	10	15	112	1	-	5	19	137	40	149	-	-	-			
POWER-TRUCK OPERATORS (OTHER THAN FORKLIFT) -----	318	7.08	7.11	6.99- 7.33	-	-	-	-	-	-	-	-	-	-	-	-	-	8	25	8	81	118	71	7	-	-	-			
MANUFACTURING -----	225	6.92	7.11	6.86- 7.11	-	-	-	-	-	-	-	-	-	-	-	-	-	8	10	8	81	118	-	-	-	-	-			
GUARDS AND WATCHMEN -----	7,338	3.19	2.60	2.40- 3.20	1707	1852	874	188	874	130	107	81	130	93	280	163	187	186	77	86	84	125	25	14	-	-	-			
MANUFACTURING -----	1,170	5.54	5.42	4.57- 6.67	-	-	-	-	33	21	30	13	64	45	117	96	160	155	47	75	75	125	25	14	-	-	-			
NONMANUFACTURING -----	6,168	2.75	2.50	2.35- 3.00	1707	1852	874	188	841	109	77	68	66	48	163	67	27	31	30	11	9	-	-	-	-	-				
RETAIL TRADE -----	187	4.14	3.85	3.35- 4.70	-	-	8	3	16	23	36	5	12	4	17	30	1	6	10	10	-	-	-	-	-	-				
FINANCE -----	331	4.40	4.30	3.92- 4.79	-	-	-	2	4	15	14	33	29	30	109	32	26	23	14	-	-	-	-	-	-	-				
SERVICES -----	5,638	2.60	2.50	2.35- 2.75	1707	1852	866	183	821	71	27	30	25	14	37	5	-	-	-	-	-	-	-	-	-	-				
GUARDS: -----																														
MANUFACTURING -----	971	5.71	5.61	4.67- 6.67	-	-	-	-	27	3	26	13	64	15	66	53	139	154	47	69	71	111	25	75	13	-	-			
WATCHMEN: -----																														
MANUFACTURING -----	199	4.68	4.57	4.04- 4.91	-	-	-	-	6	18	4	-	-	30	51	43	21	1	-	6	4	14	-	-	1	-	-			
JANITORS, PORTERS, AND CLEANERS -----	10,000	4.40	4.30	3.50- 5.34	14	310	343	241	332	278	2359	329	193	245	1406	840	649	1308	217	553	288	29	51	15	-	-	-			
MANUFACTURING -----	4,014	5.24	5.25	4.68- 5.79	9	4	6	65	69	91	58	87	66	119	314	652	548	953	176	543	234	17	3	-	-	-	-			
NONMANUFACTURING -----	5,986	3.84	3.50	3.45- 4.30	5	306	337	176	263	187	2301	242	127	126	1092	188	101	355	41	10	54	12	48	15	-	-	-			
PUBLIC UTILITIES -----	531	5.58	5.44	5.09- 5.72	-	-	-	-	-	-	-	7	-	-	11	90	48	285	10	7	39	-	34	-	-	-	-			
WHOLESALE TRADE -----	120	4.79	4.60	3.50- 6.10	-	17	-	-	-	9	17	6	-	-	7	7	10	2	22	-	11	12	-	-	-	-	-			
RETAIL TRADE -----	983	3.79	3.49	3.00- 4.26	4	30	82	117	115	99	129	29	52	74	83	44	12	66	9	3	4	-	14	15	-	-	-			
SERVICES -----	2,840	3.41	3.50	3.15- 3.57	1	259	255	59	147	76	1502	193	36	30	282	-	-	-	-	-	-	-	-	-	-	-	-			

See footnotes at end of tables.

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

Sex, ¹ occupation, and industry division	Number of workers	Average (mean ²) hourly earnings ³	Sex, ¹ occupation, and industry division	Number of workers	Average (mean ²) hourly earnings ³
MAINTENANCE, TOOLROOM, AND POWERPLANT OCCUPATIONS - MEN			MATERIAL MOVEMENT AND CUSTODIAL OCCUPATIONS - MEN		
MAINTENANCE CARPENTERS -----	720	\$ 7.68	TRUCKDRIVERS -----	10,534	7.86
MANUFACTURING -----	470	7.38	MANUFACTURING -----	1,878	7.39
NONMANUFACTURING -----	250	8.25	NONMANUFACTURING -----	8,656	7.96
RETAIL TRADE -----	126	9.77	PUBLIC UTILITIES -----	4,863	8.54
MAINTENANCE ELECTRICIANS -----	2,381	7.57	WHOLESALE TRADE -----	2,946	7.35
MANUFACTURING -----	2,031	7.42	RETAIL TRADE -----	458	7.92
NONMANUFACTURING -----	350	8.44	SERVICES -----	389	5.38
RETAIL TRADE -----	124	8.91	TRUCKDRIVERS, LIGHT TRUCK -----	1,015	4.69
MAINTENANCE PAINTERS -----	384	7.04	MANUFACTURING -----	164	5.74
MANUFACTURING -----	260	7.38	NONMANUFACTURING -----	851	4.49
NONMANUFACTURING -----	124	6.35	PUBLIC UTILITIES -----	27	6.22
PUBLIC UTILITIES -----	26	7.90	SERVICES -----	262	5.19
MAINTENANCE MACHINISTS -----	1,830	7.70	TRUCKDRIVERS, MEDIUM TRUCK -----	2,251	7.42
MANUFACTURING -----	1,666	7.62	MANUFACTURING -----	623	7.18
NONMANUFACTURING -----			NONMANUFACTURING -----	1,628	7.52
PUBLIC UTILITIES -----	162	8.55	WHOLESALE TRADE -----	987	7.32
MAINTENANCE MECHANICS (MACHINERY) -----	3,116	7.00	TRUCKDRIVERS, HEAVY TRUCK (TRAILER) -----	4,787	8.50
MANUFACTURING -----	3,030	6.99	MANUFACTURING -----	477	7.84
NONMANUFACTURING -----	86	7.28	NONMANUFACTURING -----	4,310	8.57
MAINTENANCE MECHANICS (MOTOR VEHICLES) -----	2,165	8.03	PUBLIC UTILITIES -----	2,985	8.61
MANUFACTURING -----	457	7.92	WHOLESALE TRADE -----	1,087	8.49
NONMANUFACTURING -----	1,708	8.06	TRUCKDRIVERS, HEAVY TRUCK (OTHER THAN TRAILER) -----	1,017	8.38
PUBLIC UTILITIES -----	826	8.52	NONMANUFACTURING -----	619	8.57
MAINTENANCE PIPEFITTERS -----	1,436	7.67	PUBLIC UTILITIES -----	258	8.57
MANUFACTURING -----	1,362	7.59	WHOLESALE TRADE -----	207	8.55
MAINTENANCE SHEET-METAL WORKERS -----	242	7.22	SHIPPING CLERKS -----	636	6.00
MANUFACTURING -----	224	7.16	MANUFACTURING -----	259	5.64
MILLWRIGHTS -----	708	7.77	NONMANUFACTURING -----	377	6.25
MANUFACTURING -----	706	7.77	WHOLESALE TRADE -----	334	6.22
MAINTENANCE TRADES HELPERS -----	726	5.80	RECEIVING CLERKS -----	828	5.78
MANUFACTURING -----	640	5.76	MANUFACTURING -----	440	5.75
NONMANUFACTURING -----	86	6.03	NONMANUFACTURING -----	388	5.80
MACHINE-TOOL OPERATORS (TOOLROOM) -----	365	6.87	WHOLESALE TRADE -----	132	6.26
MANUFACTURING -----	365	6.87	RETAIL TRADE -----	245	5.55
TOOL AND DIE MAKERS -----	1,583	7.39	SHIPPING AND RECEIVING CLERKS -----	698	5.53
MANUFACTURING -----	1,575	7.39	MANUFACTURING -----	413	5.27
STATIONARY ENGINEERS -----	984	7.11	NONMANUFACTURING -----	285	5.91
MANUFACTURING -----	615	7.21	WHOLESALE TRADE -----	54	6.05
NONMANUFACTURING -----	369	6.94	RETAIL TRADE -----	218	5.99
SERVICES -----	70	5.30	WAREHOUSEMEN -----	2,811	6.11
BOILER TENDERS -----	285	6.59	MANUFACTURING -----	810	5.73
MANUFACTURING -----	260	6.43	NONMANUFACTURING -----	2,001	6.27
			PUBLIC UTILITIES -----	273	6.93
			WHOLESALE TRADE -----	640	5.66
			RETAIL TRADE -----	1,036	6.57

See footnotes at end of tables.

Table A-6. Average hourly earnings of maintenance, toolroom, powerplant, material movement, and custodial workers, by sex, in Philadelphia, Pa.—N.J., November 1977—Continued

Sex, ¹ occupation, and industry division	Number of workers	Average (mean ²) hourly earnings ⁴	Sex, ¹ occupation, and industry division	Number of workers	Average (mean ²) hourly earnings ⁴
MATERIAL MOVEMENT AND CUSTODIAL OCCUPATIONS - MEN--CONTINUED			MATERIAL MOVEMENT AND CUSTODIAL OCCUPATIONS - MEN--CONTINUED		
ORDER FILLERS -----	2,138	\$ 6.16	JANITORS, PORTERS, AND CLEANERS ---	7,107	\$ 4.60
MANUFACTURING -----	776	5.34	MANUFACTURING -----	3,459	5.25
NONMANUFACTURING -----	1,362	6.63	NONMANUFACTURING -----	3,648	3.99
WHOLESALE TRADE -----	849	6.48	PUBLIC UTILITIES -----	401	5.68
RETAIL TRADE -----	485	7.05	WHOLESALE TRADE -----	93	5.16
SHIPPING PACKERS -----	1,499	4.92	RETAIL TRADE -----	742	3.89
MANUFACTURING -----	1,216	4.96	SERVICES -----	1,719	3.43
MATERIAL HANDLING LABORERS -----	6,721	5.41			
MANUFACTURING -----	2,752	5.44	MATERIAL MOVEMENT AND CUSTODIAL OCCUPATIONS - WOMEN		
NONMANUFACTURING -----	3,969	5.39			
PUBLIC UTILITIES -----	635	7.86	RECEIVING CLERKS -----	59	4.42
WHOLESALE TRADE -----	1,991	4.83	ORDER FILLERS -----	473	4.23
RETAIL TRADE -----	1,333	5.06	MANUFACTURING -----	187	3.05
FORKLIFT OPERATORS -----	4,787	5.99	NONMANUFACTURING -----	286	4.62
MANUFACTURING -----	3,555	5.92	SHIPPING PACKERS -----	726	4.08
NONMANUFACTURING -----	1,232	6.22	MANUFACTURING -----	465	4.18
PUBLIC UTILITIES -----	97	8.52	NONMANUFACTURING -----	261	3.90
WHOLESALE TRADE -----	602	5.57	RETAIL TRADE -----	224	3.98
RETAIL TRADE -----	533	6.54	MATERIAL HANDLING LABORERS -----	319	4.50
POWER-TRUCK OPERATORS (OTHER THAN FORKLIFT) -----	316	7.08	NONMANUFACTURING -----	161	3.90
MANUFACTURING -----	225	6.92	RETAIL TRADE -----	161	3.90
GUARDS AND WATCHMEN -----	6,475	3.25	JANITORS, PORTERS, AND CLEANERS ---	2,869	3.90
MANUFACTURING -----	1,150	5.54	MANUFACTURING -----	546	5.17
NONMANUFACTURING -----	5,325	2.75	NONMANUFACTURING -----	2,323	3.61
RETAIL TRADE -----	177	4.12	PUBLIC UTILITIES -----	130	5.30
FINANCE -----	311	4.41	RETAIL TRADE -----	226	3.56
SERVICES -----	4,825	2.54	SERVICES -----	1,121	3.39
GUARDS: -----					
MANUFACTURING -----	956	5.72			
WATCHMEN: -----					
MANUFACTURING -----	194	4.63			

See footnotes at end of tables.

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

Industry and occupational group ⁵	November 1972 to November 1973	November 1973 to November 1974	November 1974 to November 1975	November 1975 to November 1976	November 1976 to November 1977
All industries:					
Office clerical	5.9	9.0	7.9	7.1	7.1
Electronic data processing	(⁶)	9.1	8.1	6.7	7.4
Industrial nurses	7.2	10.7	8.6	8.3	8.7
Skilled maintenance trades	7.1	9.5	9.5	8.8	8.1
Unskilled plant workers	9.3	10.1	9.2	6.8	7.2
Manufacturing:					
Office clerical	6.5	9.8	8.3	7.4	8.7
Electronic data processing	(⁶)	10.5	6.8	8.0	8.1
Industrial nurses	7.1	10.8	8.5	8.5	8.5
Skilled maintenance trades	7.0	9.9	10.3	8.7	8.4
Unskilled plant workers	8.2	10.8	10.2	8.7	7.5
Nonmanufacturing:					
Office clerical	5.4	8.4	7.6	6.9	5.7
Electronic data processing	(⁶)	8.4	8.8	6.0	6.6
Industrial nurses	6.1	10.5	8.6	7.5	9.5
Unskilled plant workers	10.5	9.4	8.3	5.5	6.9

See footnotes at end of tables.

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Table A-8. Weekly earnings of office workers—large establishments in Philadelphia, Pa.—N.J., November 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	\$ 80 and under	\$ 90	\$ 100	\$ 110	\$ 120	\$ 130	\$ 140	\$ 150	\$ 160	\$ 180	\$ 200	\$ 220	\$ 240	\$ 260	\$ 280	\$ 300	\$ 320	\$ 340	\$ 360	\$ 400	\$ 440			
						90	100	110	120	130	140	150	160	180	200	220	240	260	280	300	320	340	360	400	440	480			
ALL WORKERS-- CONTINUED																													
TYPISTS - CONTINUED																													
TYPISTS, CLASS A -----	1,021	38.0	\$ 163.50	\$ 151.00	\$ 134.00-186.50	-	2	16	82	107	151	140	70	152	90	113	33	50	10	5	-	-	-	-	-	-	-		
MANUFACTURING -----	440	38.5	176.50	172.00	149.50-206.00	-	-	-	-	25	41	56	33	95	61	100	13	8	8	-	-	-	-	-	-	-	-		
NONMANUFACTURING -----	581	38.0	153.50	139.00	124.00-166.00	-	2	16	82	82	110	84	37	57	29	13	20	42	2	5	-	-	-	-	-	-	-		
PUBLIC UTILITIES -----	101	39.5	226.50	237.00	206.00-250.50	-	-	-	-	-	3	-	5	8	9	7	20	42	2	5	-	-	-	-	-	-	-		
FINANCE -----	390	37.5	131.50	132.00	119.50-142.00	-	2	16	82	80	103	65	24	17	1	-	-	-	-	-	-	-	-	-	-	-	-		
TYPISTS, CLASS B -----	1,373	37.0	138.50	133.50	118.00-153.00	-	22	153	191	217	213	185	115	194	30	19	7	14	12	1	-	-	-	-	-	-	-		
MANUFACTURING -----	622	35.5	149.00	146.00	128.00-163.00	-	4	8	44	108	102	83	82	136	23	13	4	3	12	-	-	-	-	-	-	-	-		
NONMANUFACTURING -----	751	38.0	129.50	124.00	110.00-140.50	-	18	145	147	109	111	102	33	58	7	6	3	11	-	1	-	-	-	-	-	-	-		
PUBLIC UTILITIES -----	27	39.5	224.50	224.00	211.00-246.50	-	-	-	-	-	-	-	-	2	4	6	3	11	-	1	-	-	-	-	-	-	-		
RETAIL TRADE -----	104	38.0	142.50	142.50	128.00-158.50	-	3	4	3	17	21	16	14	24	2	-	-	-	-	-	-	-	-	-	-	-	-		
FINANCE -----	511	37.5	119.50	116.00	107.00-130.00	-	15	133	136	88	73	51	8	7	-	-	-	-	-	-	-	-	-	-	-	-	-		
FILE CLERKS -----	1,446	38.0	126.50	119.00	106.00-133.00	14	99	370	261	290	142	98	34	35	32	22	27	1	3	9	-	9	-	-	-	-	-		
MANUFACTURING -----	206	38.5	166.00	145.00	116.00-197.00	2	1	16	43	20	10	16	7	15	26	21	9	-	2	9	-	9	-	-	-	-	-		
NONMANUFACTURING -----	1,238	37.5	120.00	117.00	105.00-128.00	12	98	354	218	270	132	80	27	20	6	1	18	1	1	-	-	-	-	-	-	-	-		
FINANCE -----	1,173	37.5	117.50	115.00	105.00-126.00	12	96	345	215	259	119	78	26	18	5	-	-	-	-	-	-	-	-	-	-	-	-		
FILE CLERKS, CLASS A -----	172	38.0	161.00	140.50	128.00-176.50	-	-	4	9	40	24	31	9	12	17	9	4	1	3	-	-	9	-	-	-	-	-		
NONMANUFACTURING -----	124	37.5	136.50	136.00	124.00-141.00	-	-	4	9	40	23	28	6	8	2	1	1	1	1	-	-	-	-	-	-	-	-		
FINANCE -----	104	37.5	134.50	135.50	124.00-141.00	-	-	4	9	33	18	27	6	6	1	-	-	-	-	-	-	-	-	-	-	-	-		
FILE CLERKS, CLASS B -----	600	38.0	126.50	118.00	106.00-136.00	14	26	155	133	82	64	42	24	21	14	9	7	-	-	9	-	-	-	-	-	-	-		
MANUFACTURING -----	86	38.5	162.50	147.50	110.50-194.00	2	1	12	19	-	2	8	3	9	10	9	2	-	-	9	-	-	-	-	-	-	-		
NONMANUFACTURING -----	514	37.5	120.50	116.50	106.00-130.00	12	25	143	114	82	62	34	21	12	4	-	5	-	-	-	-	-	-	-	-	-	-		
FINANCE -----	490	37.5	119.50	116.50	106.00-130.00	12	24	137	114	81	60	34	20	12	4	-	-	-	-	-	-	-	-	-	-	-	-		
FILE CLERKS, CLASS C -----	674	38.0	118.00	112.00	104.00-123.50	-	73	211	119	168	54	25	1	2	1	4	16	-	-	-	-	-	-	-	-	-	-		
MANUFACTURING -----	74	38.5	135.50	123.50	112.00-139.50	-	-	4	24	20	7	1	1	2	1	4	4	-	-	-	-	-	-	-	-	-	-		
NONMANUFACTURING -----	600	38.0	115.50	110.00	102.00-123.50	-	73	207	95	148	47	18	-	-	-	-	12	-	-	-	-	-	-	-	-	-	-		
FINANCE -----	571	38.0	113.00	110.00	102.00-123.50	-	72	204	92	145	41	17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
MESSENGERS -----	574	38.5	149.00	134.00	118.00-164.00	1	16	52	90	88	83	57	17	50	32	17	29	38	4	-	-	-	-	-	-	-	-		
MANUFACTURING -----	294	39.0	145.00	132.50	120.00-164.00	1	14	11	45	61	32	25	8	45	25	13	12	2	-	-	-	-	-	-	-	-	-		
NONMANUFACTURING -----	280	38.5	153.00	134.00	114.50-171.00	-	2	41	45	27	51	32	9	5	7	4	17	36	4	-	-	-	-	-	-	-	-		
FINANCE -----	147	38.0	126.00	120.00	110.00-138.00	-	2	33	37	15	27	13	7	3	7	3	-	-	-	-	-	-	-	-	-	-	-		
SWITCHBOARD OPERATORS -----	537	39.0	182.00	173.00	146.00-223.00	-	-	5	21	34	35	53	60	95	61	36	78	24	13	18	4	-	-	-	-	-	-		
MANUFACTURING -----	273	39.5	193.50	182.00	164.00-223.00	-	-	-	-	5	10	30	21	55	44	35	30	20	7	12	4	-	-	-	-	-	-		
NONMANUFACTURING -----	264	38.5	170.00	156.00	133.00-196.00	-	-	5	21	29	25	23	39	40	17	1	48	4	6	6	-	-	-	-	-	-	-		
PUBLIC UTILITIES -----	70	39.5	233.00	234.00	226.00-238.00	-	-	-	-	-	-	-	1	5	1	-	48	3	6	6	-	-	-	-	-	-	-		
RETAIL TRADE -----	97	38.5	143.00	136.00	120.00-157.00	-	-	3	13	18	19	5	17	11	10	1	-	-	-	-	-	-	-	-	-	-	-		
FINANCE -----	74	38.0	149.00	149.50	135.50-165.00	-	-	1	6	10	5	15	16	19	1	-	-	1	-	-	-	-	-	-	-	-	-		
SWITCHBOARD OPERATOR-RECEPTIONISTS- MANUFACTURING -----	127 83	39.0 39.0	169.50 181.00	168.00 177.00	153.00-185.00 168.00-192.00	- -	- -	3 -	9 -	1 -	5 2	12 8	21 8	34 29	23 19	11 9	3 3	5 5	- -	- -	- -	- -	- -	- -	- -	- -	- -		
ORDER CLERKS -----	219	38.5	207.00	192.50	137.00-267.00	-	2	7	15	12	21	9	11	20	17	23	9	7	15	17	12	14	6	2	-	-	-		
MANUFACTURING -----	199	38.5	215.50	206.50	151.50-280.50	-	-	2	10	10	20	8	10	17	17	23	9	7	15	17	12	14	6	2	-	-	-		
ORDER CLERKS, CLASS A -----	101	38.5	251.00	280.00	199.50-315.00	-	2	5	5	6	1	1	-	2	4	8	3	4	9	17	12	14	6	2	-	-	-		
MANUFACTURING -----	85	38.5	277.00	289.00	240.00-329.00	-	-	-	-	4	-	-	-	2	4	8	3	4	9	17	12	14	6	2	-	-	-		

See footnotes at end of tables.

Table A-8. Weekly earnings of office workers—large establishments in Philadelphia, Pa.—N.J., November 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	\$ 80 and under	\$ 90	\$ 100	\$ 110	\$ 120	\$ 130	\$ 140	\$ 150	\$ 160	\$ 180	\$ 200	\$ 220	\$ 240	\$ 260	\$ 280	\$ 300	\$ 320	\$ 340	\$ 360	\$ 400	\$ 440	\$ 480		
						90	100	110	120	130	140	150	160	180	200	220	240	260	280	300	320	340	360	400	440	480			
ALL WORKERS-- CONTINUED																													
ORDER CLERKS - CONTINUED																													
ORDER CLERKS, CLASS B -----	118	39.0	\$ 169.00	\$ 163.50	\$ 135.00-201.00	-	-	2	10	6	20	8	11	18	13	15	6	3	6	-	-	-	-	-	-	-	-	-	
MANUFACTURING -----	114	38.5	169.50	163.00	135.00-202.00	-	-	2	10	6	20	8	10	15	13	15	6	3	6	-	-	-	-	-	-	-	-	-	
ACCOUNTING CLERKS -----	3,106	39.0	188.50	173.00	142.00-232.00	-	9	150	174	166	216	261	258	486	322	190	127	109	180	347	74	22	9	3	3	-	-		
MANUFACTURING -----	1,408	39.0	215.00	204.00	167.50-277.00	-	1	7	9	26	52	83	98	221	181	123	99	85	80	273	51	14	5	-	-	-	-		
NONMANUFACTURING -----	1,698	38.5	167.00	152.50	126.00-182.50	-	8	143	165	140	164	178	160	265	141	67	26	24	100	74	23	8	4	3	3	-	-		
PUBLIC UTILITIES -----	274	40.0	269.00	275.50	263.50-288.50	-	-	-	-	-	-	-	1	16	12	9	12	15	97	74	20	8	4	3	3	-	-		
RETAIL TRADE -----	679	38.5	149.50	149.00	128.50-167.50	-	7	31	72	71	68	94	101	128	71	32	4	-	-	-	-	-	-	-	-	-	-		
FINANCE -----	693	38.5	144.50	137.00	115.00-165.00	-	-	111	92	66	93	75	52	103	56	20	10	9	3	-	3	-	-	-	-	-	-		
ACCOUNTING CLERKS, CLASS A -----	1,372	39.0	200.00	186.00	159.00-229.50	-	-	5	16	43	90	85	116	263	211	141	93	57	46	113	56	22	9	3	3	-	-		
MANUFACTURING -----	679	39.0	221.00	211.00	182.00-264.50	-	-	4	2	1	16	18	28	85	133	86	80	47	33	76	51	14	5	-	-	-	-		
NONMANUFACTURING -----	693	38.5	178.50	164.00	146.00-194.00	-	-	1	14	42	74	67	88	178	78	55	13	10	13	37	5	8	4	3	3	-	-		
PUBLIC UTILITIES -----	88	40.0	281.00	288.50	275.50-288.50	-	-	-	-	-	-	-	-	2	7	6	5	1	10	37	2	8	4	3	3	-	-		
RETAIL TRADE -----	235	38.5	166.00	163.00	152.50-180.50	-	-	1	2	9	20	24	44	75	32	26	2	-	-	-	-	-	-	-	-	-	-		
FINANCE -----	343	38.0	161.50	159.00	136.00-177.00	-	-	-	12	33	54	39	41	89	39	17	4	9	3	-	3	-	-	-	-	-	-		
ACCOUNTING CLERKS, CLASS B -----	1,734	39.0	180.00	158.00	129.50-243.50	-	9	145	158	123	126	176	142	223	111	49	34	52	134	234	18	-	-	-	-	-	-		
MANUFACTURING -----	729	39.0	209.00	191.00	158.00-286.50	-	1	3	7	25	36	65	70	136	48	37	19	38	47	197	-	-	-	-	-	-	-		
NONMANUFACTURING -----	1,005	38.5	159.00	142.00	115.00-177.50	-	8	142	151	98	90	111	72	87	63	12	15	14	87	37	18	-	-	-	-	-	-		
PUBLIC UTILITIES -----	186	40.0	263.50	269.50	263.50-284.00	-	-	-	-	-	-	-	1	14	5	3	7	14	87	37	18	-	-	-	-	-	-		
RETAIL TRADE -----	444	38.0	141.00	140.00	120.00-157.00	-	7	30	70	62	48	70	57	53	39	6	2	-	-	-	-	-	-	-	-	-	-		
FINANCE -----	350	38.5	127.50	115.00	108.00-139.50	-	-	111	80	33	39	36	11	14	17	3	6	-	-	-	-	-	-	-	-	-	-		
BOOKKEEPING-MACHINE OPERATORS -----	161	38.0	156.50	151.00	137.00-172.00	-	-	2	9	16	31	22	10	39	24	3	-	-	5	-	-	-	-	-	-	-	-		
MANUFACTURING -----	105	37.5	164.00	161.00	147.50-172.50	-	-	-	-	4	21	18	9	27	21	-	-	-	5	-	-	-	-	-	-	-	-		
BOOKKEEPING-MACHINE OPERATORS, CLASS A -----	83	36.5	165.50	168.00	138.50-187.50	-	-	-	2	8	12	4	1	31	20	2	-	-	3	-	-	-	-	-	-	-	-		
BOOKKEEPING-MACHINE OPERATORS, CLASS B -----	78	38.0	147.00	147.50	130.00-155.50	-	-	2	7	8	19	18	9	8	4	1	-	-	2	-	-	-	-	-	-	-	-		
PAYROLL CLERKS -----	411	38.5	192.00	182.00	145.00-225.50	-	-	3	19	32	22	40	15	70	62	34	42	11	15	21	16	3	2	3	1	-	-		
MANUFACTURING -----	227	39.0	215.00	206.50	173.50-270.50	-	-	-	4	16	3	19	3	25	37	29	19	11	15	21	16	3	2	3	1	-	-		
NONMANUFACTURING -----	184	38.0	164.00	162.50	135.00-189.50	-	-	3	15	16	19	21	12	45	25	5	23	-	-	-	-	-	-	-	-	-	-		
PUBLIC UTILITIES -----	32	39.0	203.50	195.00	175.00-237.00	-	-	-	-	-	-	-	2	8	7	-	15	-	-	-	-	-	-	-	-	-	-		
RETAIL TRADE -----	80	37.5	149.50	148.00	122.00-169.00	-	-	2	15	12	6	8	1	23	9	2	2	-	-	-	-	-	-	-	-	-	-		
FINANCE -----	57	37.5	165.00	157.00	140.00-189.50	-	-	-	-	3	5	13	8	12	9	2	5	-	-	-	-	-	-	-	-	-	-		
KEYPUNCH OPERATORS -----	2,205	38.5	176.00	167.50	145.50-196.00	-	9	10	47	96	235	262	252	457	352	123	107	174	39	23	16	1	2	-	-	-	-		
MANUFACTURING -----	1,054	39.0	179.50	173.00	150.00-203.00	-	-	1	10	32	109	109	114	226	176	103	68	53	37	12	4	-	-	-	-	-	-		
NONMANUFACTURING -----	1,151	38.5	172.50	162.00	143.50-189.00	-	9	9	37	64	126	153	138	231	176	20	39	121	2	11	12	1	2	-	-	-	-		
PUBLIC UTILITIES -----	239	39.5	238.50	255.00	224.00-255.00	-	-	-	-	1	6	5	-	18	8	15	37	121	2	11	12	1	2	-	-	-	-		
RETAIL TRADE -----	391	38.5	164.50	163.00	143.50-182.00	-	1	2	4	10	41	56	55	85	134	2	1	-	-	-	-	-	-	-	-	-	-		
FINANCE -----	478	37.5	147.50	147.00	132.50-163.00	-	8	7	33	51	79	83	78	110	26	2	1	-	-	-	-	-	-	-	-	-	-		
KEYPUNCH OPERATORS, CLASS A -----	1,235	39.0	188.50	181.00	157.00-212.00	-	-	-	17	24	58	106	121	274	270	88	62	144	35	17	10	1	2	-	-	-	-		
MANUFACTURING -----	637	39.0	192.50	186.00	161.00-215.00	-	-	-	-	-	20	50	59	146	127	85	58	41	35	12	4	-	-	-	-	-	-		
NONMANUFACTURING -----	598	38.5	185.00	176.00	151.50-196.00	-	-	-	17	24	38	56	62	128	143	3	4	103	-	5	12	1	2	-	-	-	-		
FINANCE -----	284	37.5	153.00	152.00	138.00-170.00	-	-	-	17	24	36	49	49	86	20	2	1	-	-	-	-	-	-	-	-	-	-		

See footnotes at end of tables.

Table A-8. Weekly earnings of office workers—large establishments in Philadelphia, Pa.—N.J., November 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	\$ 80 and under	\$ 90	\$ 100	\$ 110	\$ 120	\$ 130	\$ 140	\$ 150	\$ 160	\$ 180	\$ 200	\$ 220	\$ 240	\$ 260	\$ 280	\$ 300	\$ 320	\$ 340	\$ 360	\$ 400	\$ 440			
						90	100	110	120	130	140	150	160	180	200	220	240	260	280	300	320	340	360	400	440	480			
ALL WORKERS-- CONTINUED																													
KEYPUNCH OPERATORS - CONTINUED																													
KEYPUNCH OPERATORS, CLASS B -----	970	38.5	\$ 159.50	\$ 151.00	\$ 136.00-174.50	-	9	10	30	72	177	156	131	183	82	35	45	30	4	6	-	-	-	-	-	-	-		
MANUFACTURING -----	417	39.0	159.50	152.00	136.50-175.00	-	-	1	10	32	89	59	55	80	49	18	10	12	2	-	-	-	-	-	-	-	-		
NONMANUFACTURING -----	553	38.0	159.50	151.00	135.00-174.50	-	9	9	20	40	88	97	76	103	33	17	35	18	2	6	-	-	-	-	-	-	-		
PUBLIC UTILITIES -----	97	39.0	217.50	224.00	205.50-244.00	-	-	-	-	1	6	3	-	4	7	15	35	18	2	6	-	-	-	-	-	-	-		
RETAIL TRADE -----	221	38.0	151.00	151.00	139.00-163.00	-	1	2	4	10	39	51	42	57	14	1	-	-	-	-	-	-	-	-	-	-	-		
FINANCE -----	194	37.0	139.50	139.00	125.50-153.50	-	8	7	16	27	43	34	29	24	6	-	-	-	-	-	-	-	-	-	-	-	-		
TABULATING-MACHINE OPERATORS -----	130	39.5	246.50	244.00	193.50-286.50	-	-	-	-	-	-	4	8	13	15	8	13	7	18	18	9	2	13	2	-	-	-		
MANUFACTURING -----	75	40.0	277.00	282.50	237.50-316.50	-	-	-	-	-	-	-	-	-	8	4	9	7	9	12	9	2	13	2	-	-	-		
TABULATING-MACHINE OPERATORS, CLASS A -----	56	40.0	290.00	276.00	260.00-340.50	-	-	-	-	-	-	-	-	-	2	-	5	7	16	2	7	2	13	2	-	-	-		
TABULATING-MACHINE OPERATORS, CLASS B -----	74	39.0	213.50	198.50	168.00-266.00	-	-	-	-	-	-	4	8	13	13	8	8	-	2	16	2	-	-	-	-	-	-		

See footnotes at end of tables.

Table A-9. Weekly earnings of professional and technical workers—large establishments in Philadelphia, Pa.—N.J., November 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	\$ 110 and under	\$ 120	\$ 130	\$ 140	\$ 150	\$ 160	\$ 170	\$ 180	\$ 200	\$ 220	\$ 240	\$ 260	\$ 280	\$ 300	\$ 320	\$ 340	\$ 360	\$ 400	\$ 440	\$ 480	\$ 520			
						120	130	140	150	160	170	180	200	220	240	260	280	300	320	340	360	400	440	480	520	560			
ALL WORKERS																													
COMPUTER SYSTEMS ANALYSTS (BUSINESS) -----	1,237	38.5	\$ 374.50	\$ 369.50	\$ 327.00-426.50	-	-	-	-	-	-	-	-	6	18	20	33	39	77	70	114	172	248	187	167	68	18		
MANUFACTURING -----	612	39.0	382.00	378.00	346.00-420.50	-	-	-	-	-	-	-	-	4	-	-	10	5	32	25	49	106	152	135	60	28	6		
NONMANUFACTURING -----	625	37.5	366.50	357.50	308.00-441.00	-	-	-	-	-	-	-	-	2	18	20	23	34	45	45	65	66	96	52	107	40	12		
FINANCE -----	382	37.0	320.00	327.00	280.00-360.50	-	-	-	-	-	-	-	-	2	18	20	22	33	39	40	57	54	75	19	3	-	-		
COMPUTER SYSTEMS ANALYSTS (BUSINESS), CLASS A -----	782	38.5	405.50	398.00	357.00-447.00	-	-	-	-	-	-	-	-	-	-	-	-	1	3	16	53	133	192	156	152	58	18		
MANUFACTURING -----	390	39.0	400.00	397.00	357.00-426.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	19	79	107	111	49	18	6		
NONMANUFACTURING -----	392	37.5	411.00	403.50	356.00-463.00	-	-	-	-	-	-	-	-	-	-	-	-	1	3	15	34	54	85	45	103	40	12		
FINANCE -----	187	37.0	361.00	358.00	337.00-383.00	-	-	-	-	-	-	-	-	-	-	-	-	1	3	15	30	47	70	18	3	-	-		
COMPUTER SYSTEMS ANALYSTS (BUSINESS), CLASS B -----	327	38.5	341.00	330.00	298.00-369.50	-	-	-	-	-	-	-	-	-	2	2	10	23	51	41	59	35	50	29	15	10	-		
MANUFACTURING -----	180	39.0	361.00	350.00	321.50-387.00	-	-	-	-	-	-	-	-	-	-	-	-	4	3	22	16	29	24	39	22	11	10	-	
NONMANUFACTURING -----	147	37.5	316.50	311.50	285.00-336.00	-	-	-	-	-	-	-	-	-	2	2	6	20	29	25	30	11	11	7	4	-	-		
FINANCE -----	120	37.0	302.50	306.00	280.00-327.00	-	-	-	-	-	-	-	-	-	2	2	6	20	27	23	27	7	5	1	-	-	-		
COMPUTER SYSTEMS ANALYSTS (BUSINESS), CLASS C -----	128	38.0	268.50	261.50	224.50-299.00	-	-	-	-	-	-	-	-	6	16	18	23	15	23	13	2	4	6	2	-	-	-		
COMPUTER PROGRAMMERS (BUSINESS) -----	1,216	38.0	321.00	321.50	280.00-357.00	-	2	-	-	-	-	2	-	8	50	47	93	101	133	153	221	123	180	63	10	15	15		
MANUFACTURING -----	555	38.5	322.50	325.00	286.50-358.50	-	2	-	-	-	-	2	-	-	13	15	50	40	63	63	117	60	85	36	3	6	-		
NONMANUFACTURING -----	661	38.0	320.00	317.50	276.00-355.00	-	-	-	-	-	-	-	-	8	37	32	43	61	70	90	104	63	95	27	7	9	15		
PUBLIC UTILITIES -----	226	39.0	379.00	377.50	333.00-405.50	-	-	-	-	-	-	-	-	-	-	-	3	4	3	7	17	37	23	74	27	7	9	15	
FINANCE -----	385	37.5	287.00	293.00	253.00-326.00	-	-	-	-	-	-	-	-	6	36	26	36	53	53	64	60	39	10	-	-	-	-		
COMPUTER PROGRAMMERS (BUSINESS), CLASS A -----	595	38.0	342.50	336.00	309.00-362.00	-	2	-	-	-	-	-	-	-	1	2	8	42	56	82	157	88	91	32	4	15	15		
MANUFACTURING -----	290	38.5	347.50	339.00	323.00-371.50	-	2	-	-	-	-	-	-	-	1	1	3	13	15	23	88	42	63	30	3	6	-		
NONMANUFACTURING -----	305	37.5	337.50	326.00	300.00-347.50	-	-	-	-	-	-	-	-	-	-	-	1	5	29	41	59	69	46	26	2	1	9	15	
FINANCE -----	238	37.5	314.50	317.00	295.00-337.00	-	-	-	-	-	-	-	-	-	-	-	1	5	29	39	57	58	39	10	-	-	-		
COMPUTER PROGRAMMERS (BUSINESS), CLASS B -----	473	38.0	312.50	301.00	262.00-368.00	-	-	-	-	-	-	-	-	2	7	31	68	54	71	53	33	28	89	31	6	-	-		
MANUFACTURING -----	223	38.5	301.00	297.00	267.00-322.00	-	-	-	-	-	-	-	-	-	1	13	35	24	48	36	23	15	22	6	-	-	-		
NONMANUFACTURING -----	250	38.0	323.00	315.00	261.00-389.00	-	-	-	-	-	-	-	-	2	6	18	33	30	23	17	10	13	67	25	6	-	-		
FINANCE -----	90	37.5	259.50	259.00	242.00-279.00	-	-	-	-	-	-	-	-	2	5	12	26	23	13	7	2	-	-	-	-	-	-		
COMPUTER PROGRAMMERS (BUSINESS), CLASS C -----	148	38.5	263.00	246.00	214.00-322.00	-	-	-	-	-	-	2	-	6	42	14	17	5	6	18	31	7	-	-	-	-	-		
NONMANUFACTURING -----	106	38.5	264.00	242.00	211.50-324.50	-	-	-	-	-	-	-	-	6	31	13	5	2	6	14	25	4	-	-	-	-	-		
FINANCE -----	57	37.5	215.00	213.00	202.00-223.00	-	-	-	-	-	-	-	-	6	31	13	5	1	1	-	-	-	-	-	-	-	-		
COMPUTER OPERATORS -----	1,432	38.5	228.50	224.00	187.00-258.00	4	8	17	43	46	73	95	148	251	237	159	106	115	43	21	39	15	12	-	-	-	-		
MANUFACTURING -----	744	39.0	233.50	232.50	197.00-266.00	-	4	3	31	17	30	42	61	144	90	99	70	77	26	7	35	8	-	-	-	-	-		
NONMANUFACTURING -----	688	38.0	222.50	217.00	182.00-242.00	4	4	14	12	29	43	53	87	107	147	60	36	38	17	14	4	7	12	-	-	-	-		
PUBLIC UTILITIES -----	186	39.5	273.50	240.00	237.00-296.50	-	-	-	-	-	-	1	2	4	85	13	6	36	8	11	4	7	9	-	-	-	-		
RETAIL TRADE -----	105	38.5	216.00	218.50	180.00-242.00	-	1	-	5	4	3	13	12	15	10	23	17	2	-	-	-	-	-	-	-	-	-		
FINANCE -----	374	37.5	200.50	197.50	171.00-220.00	4	3	14	6	22	40	36	71	82	49	20	12	-	9	3	-	-	3	-	-	-	-		
COMPUTER OPERATORS, CLASS A -----	490	38.5	261.00	251.00	225.50-286.00	-	-	-	-	-	-	6	23	72	102	67	73	67	26	12	15	15	12	-	-	-	-		
MANUFACTURING -----	274	39.0	268.50	263.00	239.00-293.50	-	-	-	-	-	-	-	-	5	24	41	49	48	56	23	7	13	8	-	-	-	-		
NONMANUFACTURING -----	216	38.0	250.50	239.50	213.00-264.00	-	-	-	-	-	-	6	18	48	61	18	25	11	3	5	2	7	12	-	-	-	-		
FINANCE -----	117	37.0	222.00	214.00	203.00-230.00	-	-	-	-	-	-	6	16	47	27	12	6	-	-	-	-	-	-	3	-	-	-	-	

See footnotes at end of tables.

Table A-9. Weekly earnings of professional and technical workers—large establishments in Philadelphia, Pa.—N.J., November 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	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
						110 and under	120	130	140	150	160	170	180	200	220	240	260	280	300	320	340	360	400	440	480	520	560		
						120	130	140	150	160	170	180	200	220	240	260	280	300	320	340	360	400	440	480	520	560			
ALL WORKERS-- CONTINUED																													
COMPUTER OPERATORS - CONTINUED																													
COMPUTER OPERATORS, CLASS B -----	678	38.5	\$ 223.50	\$ 219.00	\$ 185.00-242.00	2	2	3	27	20	26	49	102	119	117	87	28	46	17	9	24	-	-	-	-	-	-	-	
MANUFACTURING -----	336	39.0	227.00	220.00	187.00-247.50	-	-	2	21	7	5	20	42	73	48	50	22	21	3	-	22	-	-	-	-	-	-	-	
NONMANUFACTURING -----	342	38.0	220.00	215.00	181.50-242.00	2	2	1	6	13	21	29	60	46	69	37	6	25	14	9	2	-	-	-	-	-	-	-	
PUBLIC UTILITIES -----	93	39.0	262.50	237.00	237.00-291.00	-	-	-	-	-	-	1	2	2	42	8	-	25	5	6	2	-	-	-	-	-	-	-	
RETAIL TRADE -----	66	38.0	209.00	212.00	180.00-242.00	-	1	-	3	2	2	7	10	13	8	20	-	-	-	-	-	-	-	-	-	-	-	-	
FINANCE -----	173	37.5	202.00	192.00	172.50-223.00	2	1	1	3	10	19	21	46	26	18	8	6	-	9	3	-	-	-	-	-	-	-	-	
COMPUTER OPERATORS, CLASS C -----	264	38.5	181.50	177.00	160.00-202.00	2	6	14	16	26	47	40	23	60	18	5	5	2	-	-	-	-	-	-	-	-	-	-	
MANUFACTURING -----	134	39.0	179.50	178.50	165.00-201.50	-	4	1	10	10	25	22	14	47	1	-	-	-	-	-	-	-	-	-	-	-	-	-	
NONMANUFACTURING -----	130	38.5	183.00	173.50	157.50-214.50	2	2	13	6	16	22	18	9	13	17	5	5	2	-	-	-	-	-	-	-	-	-	-	
FINANCE -----	84	38.0	167.00	165.00	152.50-181.50	2	2	13	3	12	21	9	9	9	4	-	-	-	-	-	-	-	-	-	-	-	-	-	
DRAFTERS -----	1,411	40.0	294.50	301.00	242.00-343.50	-	-	-	9	13	9	37	47	86	136	95	123	141	202	150	121	235	7	-	-	-	-	-	
MANUFACTURING -----	1,180	40.0	302.50	311.50	261.00-345.00	-	-	-	9	12	7	30	40	60	45	79	102	119	190	134	113	233	7	-	-	-	-	-	
NONMANUFACTURING -----	231	38.5	252.00	237.00	234.00-280.00	-	-	-	-	1	2	7	7	26	91	16	21	22	12	16	8	2	-	-	-	-	-	-	
DRAFTERS, CLASS A -----	666	40.0	335.00	339.00	311.00-380.00	-	-	-	-	-	-	-	-	10	14	23	42	51	71	129	112	210	4	-	-	-	-	-	
MANUFACTURING -----	605	40.0	339.50	345.00	317.50-380.00	-	-	-	-	-	-	-	-	9	12	16	27	37	60	125	107	208	4	-	-	-	-	-	
NONMANUFACTURING -----	61	39.0	291.00	287.50	270.00-310.00	-	-	-	-	-	-	-	-	1	2	7	15	14	11	4	5	2	-	-	-	-	-	-	
DRAFTERS, CLASS B -----	445	40.0	286.00	291.00	257.00-319.00	-	-	-	-	1	-	1	7	22	37	46	67	80	128	19	9	25	3	-	-	-	-	-	
MANUFACTURING -----	387	40.0	290.50	293.50	269.00-319.00	-	-	-	-	-	-	-	5	14	23	37	61	77	128	8	6	25	3	-	-	-	-	-	
NONMANUFACTURING -----	58	39.5	256.50	244.00	222.50-293.00	-	-	-	-	1	-	1	2	8	14	9	6	3	-	11	3	-	-	-	-	-	-	-	
DRAFTERS, CLASS C -----	167	40.0	216.50	202.50	176.50-251.00	-	-	-	3	-	9	33	33	22	12	26	14	10	3	2	-	-	-	-	-	-	-	-	
MANUFACTURING -----	141	40.0	215.00	200.00	176.00-250.00	-	-	-	3	-	7	30	29	14	10	26	14	5	2	1	-	-	-	-	-	-	-	-	
ELECTRONICS TECHNICIANS -----	1,470	40.0	306.50	344.50	275.50-344.50	-	-	-	-	-	-	4	50	72	53	105	107	177	96	39	756	11	-	-	-	-	-	-	
MANUFACTURING -----	718	40.0	266.50	270.00	240.00-290.50	-	-	-	-	-	-	4	50	72	53	105	107	177	94	39	6	11	-	-	-	-	-	-	
ELECTRONICS TECHNICIANS, CLASS A -----	431	40.0	282.00	283.00	260.00-305.00	-	-	-	-	-	-	-	4	2	24	70	76	139	70	13	28	5	-	-	-	-	-	-	
MANUFACTURING -----	409	40.0	279.00	283.00	260.00-293.00	-	-	-	-	-	-	-	4	2	24	70	76	139	70	13	6	5	-	-	-	-	-	-	
ELECTRONICS TECHNICIANS, CLASS B -----	302	40.0	289.00	287.00	245.00-348.50	-	-	-	-	-	-	-	3	40	26	32	29	36	26	26	76	6	-	-	-	-	-	-	
MANUFACTURING -----	224	40.0	268.50	265.00	231.00-301.00	-	-	-	-	-	-	-	3	40	26	32	29	36	24	26	-	6	-	-	-	-	-	-	
REGISTERED INDUSTRIAL NURSES -----	268	39.0	260.00	253.50	226.00-285.50	-	-	-	-	-	3	1	14	21	65	46	48	19	21	15	7	5	3	-	-	-	-	-	
MANUFACTURING -----	217	39.5	258.00	253.50	225.00-283.50	-	-	-	-	-	3	1	11	14	61	34	36	18	19	12	5	3	-	-	-	-	-	-	
NONMANUFACTURING -----	51	38.0	270.00	257.00	230.00-285.00	-	-	-	-	-	-	-	3	7	4	12	12	1	2	3	2	2	3	-	-	-	-	-	

See footnotes at end of tables.

Table A-10. Average weekly earnings of office, professional, and technical workers, by sex—large establishments in Philadelphia, Pa.—N.J., November 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 (standard)	Weekly earnings ¹ (standard)			Weekly hours (standard)	Weekly earnings ¹ (standard)			Weekly hours (standard)	Weekly earnings ¹ (standard)
OFFICE OCCUPATIONS - MEN				OFFICE OCCUPATIONS - WOMEN--CONTINUED				OFFICE OCCUPATIONS - WOMEN--CONTINUED			
MESSENGERS -----	290	38.5	\$ 148.50	SECRETARIES - CONTINUED				FILE CLERKS - CONTINUED			
MANUFACTURING -----	151	38.5	140.50	SECRETARIES, CLASS D -----	2,419	38.5	\$ 191.50	FILE CLERKS, CLASS C -----	635	38.0	\$ 118.50
NONMANUFACTURING -----	139	38.5	156.50	MANUFACTURING -----	1,621	38.5	202.50	MANUFACTURING -----	72	38.5	135.00
ORDER CLERKS -----	65	39.5	281.50	NONMANUFACTURING -----	798	37.5	169.50	NONMANUFACTURING -----	563	37.5	116.50
MANUFACTURING -----	65	39.5	281.50	PUBLIC UTILITIES -----	64	40.0	250.00	FINANCE -----	534	38.0	113.50
ACCOUNTING CLERKS -----	616	39.5	253.50	RETAIL TRADE -----	69	37.5	165.00	MESSENGERS -----	264	39.0	150.50
NONMANUFACTURING -----	212	39.0	218.50	FINANCE -----	586	37.0	159.50	MANUFACTURING -----	143	39.5	149.00
ACCOUNTING CLERKS, CLASS A -----	244	39.0	251.00	STENOGRAPHERS -----	1,795	39.0	186.50	NONMANUFACTURING -----	121	38.0	152.00
MANUFACTURING -----	160	39.0	272.00	MANUFACTURING -----	932	39.5	191.00	SWITCHBOARD OPERATORS -----	525	39.0	182.00
ACCOUNTING CLERKS, CLASS B -----	372	39.5	254.50	NONMANUFACTURING -----	863	38.0	182.00	MANUFACTURING -----	272	39.5	193.50
NONMANUFACTURING -----	128	39.5	222.50	PUBLIC UTILITIES -----	329	38.5	229.00	NONMANUFACTURING -----	253	38.5	169.50
PAYROLL CLERKS -----	60	39.5	265.00	RETAIL TRADE -----	51	37.5	169.00	PUBLIC UTILITIES -----	65	39.5	234.00
MANUFACTURING -----	57	39.5	268.50	FINANCE -----	350	37.5	141.00	RETAIL TRADE -----	97	38.5	143.00
TABULATING-MACHINE OPERATORS -----	105	39.5	236.50	STENOGRAPHERS, GENERAL -----	1,037	38.5	181.50	FINANCE -----	69	38.0	150.00
MANUFACTURING -----	58	40.0	269.00	MANUFACTURING -----	439	39.5	189.00	SWITCHBOARD OPERATOR-RECEPTIONISTS-----	127	39.0	169.50
TABULATING-MACHINE OPERATORS, CLASS B -----	67	39.0	210.00	NONMANUFACTURING -----	598	38.0	175.50	MANUFACTURING -----	83	39.0	181.00
OFFICE OCCUPATIONS - WOMEN				PUBLIC UTILITIES -----	270	38.5	215.50	ORDER CLERKS -----	154	38.5	175.50
SECRETARIES -----	8,034	38.5	217.50	FINANCE -----	237	37.5	134.00	MANUFACTURING -----	134	38.5	183.50
MANUFACTURING -----	5,521	39.0	226.00	STENOGRAPHERS, SENIOR -----	758	39.0	193.50	ORDER CLERKS, CLASS A -----	52	38.0	204.50
NONMANUFACTURING -----	2,513	37.5	199.00	MANUFACTURING -----	493	40.0	192.50	ORDER CLERKS, CLASS B -----	102	38.5	160.50
PUBLIC UTILITIES -----	331	39.0	297.50	NONMANUFACTURING -----	265	38.0	196.00	MANUFACTURING -----	98	38.5	160.50
RETAIL TRADE -----	347	38.0	191.00	TYPISTS -----	2,337	37.5	148.50	ACCOUNTING CLERKS -----	2,471	38.5	172.50
FINANCE -----	1,643	37.0	179.00	MANUFACTURING -----	1,062	37.0	160.00	MANUFACTURING -----	1,004	39.0	192.00
SECRETARIES, CLASS A -----	703	39.0	259.00	NONMANUFACTURING -----	1,275	38.0	139.00	NONMANUFACTURING -----	1,467	38.5	159.50
MANUFACTURING -----	540	39.0	252.00	PUBLIC UTILITIES -----	112	39.5	223.00	PUBLIC UTILITIES -----	168	39.5	259.50
NONMANUFACTURING -----	163	38.5	282.00	RETAIL TRADE -----	115	38.0	143.50	RETAIL TRADE -----	661	38.0	149.00
PUBLIC UTILITIES -----	80	39.0	315.00	FINANCE -----	872	37.5	124.50	FINANCE -----	595	38.5	143.00
SECRETARIES, CLASS B -----	1,776	39.0	239.00	TYPISTS, CLASS A -----	985	38.0	163.00	ACCOUNTING CLERKS, CLASS A -----	1,109	38.5	189.00
MANUFACTURING -----	1,164	39.0	241.50	MANUFACTURING -----	440	38.5	176.50	MANUFACTURING -----	519	39.0	205.50
NONMANUFACTURING -----	612	38.0	234.00	NONMANUFACTURING -----	545	38.0	152.50	NONMANUFACTURING -----	590	38.5	174.00
PUBLIC UTILITIES -----	103	39.5	330.00	PUBLIC UTILITIES -----	90	39.5	224.00	PUBLIC UTILITIES -----	64	40.0	272.00
RETAIL TRADE -----	101	38.0	207.00	FINANCE -----	369	37.5	131.50	RETAIL TRADE -----	225	38.5	165.50
FINANCE -----	352	37.5	210.50	TYPISTS, CLASS B -----	1,352	37.0	138.00	FINANCE -----	282	38.0	159.00
SECRETARIES, CLASS C -----	3,049	39.0	216.00	MANUFACTURING -----	622	35.5	149.00	ACCOUNTING CLERKS, CLASS B -----	1,362	38.5	159.50
MANUFACTURING -----	2,181	39.5	228.00	NONMANUFACTURING -----	730	38.0	129.00	MANUFACTURING -----	485	39.0	177.50
NONMANUFACTURING -----	868	37.5	186.50	RETAIL TRADE -----	104	38.0	142.50	NONMANUFACTURING -----	877	38.5	149.50
PUBLIC UTILITIES -----	84	38.5	276.50	FINANCE -----	503	37.5	119.50	PUBLIC UTILITIES -----	104	39.5	251.50
RETAIL TRADE -----	70	37.5	175.00	FILE CLERKS -----	1,351	38.0	125.50	RETAIL TRADE -----	436	38.0	140.50
FINANCE -----	661	37.0	173.50	MANUFACTURING -----	195	38.5	157.50	FINANCE -----	313	38.5	128.50
				NONMANUFACTURING -----	1,156	37.5	120.00	BOOKKEEPING-MACHINE OPERATORS: MANUFACTURING -----	105	37.5	164.00
				FINANCE -----	1,096	37.5	118.00	BOOKKEEPING-MACHINE OPERATORS, CLASS B -----	69	37.5	151.50
				FILE CLERKS, CLASS A -----	145	38.0	150.50				
				NONMANUFACTURING -----	108	37.5	137.00				
				FINANCE -----	92	37.0	133.50				
				FILE CLERKS, CLASS B -----	571	38.0	127.00				
				MANUFACTURING -----	86	38.5	162.50				
				NONMANUFACTURING -----	485	37.5	121.00				
				FINANCE -----	470	37.5	120.00				

See footnotes at end of tables.

Table A-10. Average weekly earnings of office, professional, and technical workers, by sex—large establishments in Philadelphia, Pa.—N.J., November 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 - WOMEN--CONTINUED				PROFESSIONAL AND TECHNICAL OCCUPATIONS - MEN--CONTINUED				PROFESSIONAL AND TECHNICAL OCCUPATIONS - MEN--CONTINUED			
PAYROLL CLERKS -----	349	38.5	\$ 179.50	COMPUTER PROGRAMMERS (BUSINESS) - CONTINUED				ELECTRONICS TECHNICIANS -----	1,435	40.0	\$ 306.50
MANUFACTURING -----	170	39.0	196.50					MANUFACTURING -----	706	40.0	267.00
NONMANUFACTURING -----	179	37.5	163.50					ELECTRONICS TECHNICIANS, CLASS A- MANUFACTURING -----	425	40.0	282.50
PUBLIC UTILITIES -----	32	39.0	203.50	COMPUTER PROGRAMMERS (BUSINESS), CLASS A -----	501	38.0	\$ 344.50		403	40.0	279.50
RETAIL TRADE -----	77	37.5	147.50	MANUFACTURING -----	234	38.5	350.50	ELECTRONICS TECHNICIANS, CLASS B- MANUFACTURING -----	297	40.0	289.50
FINANCE -----	55	37.5	166.50	NONMANUFACTURING -----	267	38.0	339.50		220	40.0	269.50
KEYPUNCH OPERATORS -----	2,141	38.5	176.00	FINANCE -----	201	37.0	313.50				
MANUFACTURING -----	1,034	39.0	179.00					PROFESSIONAL AND TECHNICAL OCCUPATIONS - WOMEN			
NONMANUFACTURING -----	1,107	38.0	173.50	COMPUTER PROGRAMMERS (BUSINESS), CLASS B -----	332	38.0	317.50				
PUBLIC UTILITIES -----	235	39.5	238.00	MANUFACTURING -----	146	38.5	311.00				
RETAIL TRADE -----	377	38.5	165.50	NONMANUFACTURING -----	186	38.0	323.00				
FINANCE -----	453	37.0	147.00	FINANCE -----	67	37.5	261.50				
KEYPUNCH OPERATORS, CLASS A -----	1,200	39.0	188.50	COMPUTER PROGRAMMERS (BUSINESS), CLASS C -----	98	39.0	282.50	COMPUTER SYSTEMS ANALYSTS (BUSINESS) -----	268	38.0	367.50
MANUFACTURING -----	622	39.0	191.50	NONMANUFACTURING -----	69	39.0	287.00	MANUFACTURING -----	94	38.5	381.00
NONMANUFACTURING -----	578	38.5	185.00					NONMANUFACTURING -----	174	37.5	360.50
FINANCE -----	270	37.5	152.50	COMPUTER OPERATORS -----	1,236	38.5	230.00	FINANCE -----	97	37.0	291.50
KEYPUNCH OPERATORS, CLASS B -----	941	38.5	160.50	MANUFACTURING -----	657	39.0	236.00	COMPUTER SYSTEMS ANALYSTS (BUSINESS), CLASS A -----	147	38.0	417.50
MANUFACTURING -----	412	39.0	160.00	NONMANUFACTURING -----	579	38.0	224.00	COMPUTER SYSTEMS ANALYSTS (BUSINESS), CLASS B -----	75	37.5	343.00
NONMANUFACTURING -----	529	38.0	160.50	RETAIL TRADE -----	100	38.5	217.50	COMPUTER PROGRAMMERS (BUSINESS) ---	274	38.0	299.50
PUBLIC UTILITIES -----	97	39.0	217.50	FINANCE -----	304	37.5	201.00	MANUFACTURING -----	146	38.0	299.00
RETAIL TRADE -----	209	38.0	152.50					NONMANUFACTURING -----	128	37.5	300.50
FINANCE -----	183	37.0	139.00	COMPUTER OPERATORS, CLASS A -----	449	39.0	262.00	FINANCE -----	83	37.0	267.50
PROFESSIONAL AND TECHNICAL OCCUPATIONS - MEN				MANUFACTURING -----	268	39.0	268.50	COMPUTER PROGRAMMERS (BUSINESS), CLASS A -----	92	38.0	333.00
COMPUTER SYSTEMS ANALYSTS (BUSINESS) -----	969	38.5	376.00	NONMANUFACTURING -----	181	38.5	252.00	MANUFACTURING -----	56	38.0	336.50
MANUFACTURING -----	518	39.5	382.00	FINANCE -----	86	37.0	223.50	COMPUTER PROGRAMMERS (BUSINESS), CLASS B -----	137	38.0	302.00
NONMANUFACTURING -----	451	37.5	369.00	COMPUTER OPERATORS, CLASS B -----	559	38.5	224.00	MANUFACTURING -----	77	38.0	283.00
FINANCE -----	285	37.0	329.50	MANUFACTURING -----	266	39.0	228.50	NONMANUFACTURING -----	60	38.0	327.00
COMPUTER SYSTEMS ANALYSTS (BUSINESS), CLASS A -----	635	38.5	403.00	NONMANUFACTURING -----	293	38.0	219.50	COMPUTER OPERATORS -----	173	38.5	217.00
MANUFACTURING -----	342	39.5	401.00	PUBLIC UTILITIES -----	68	39.5	272.00	MANUFACTURING -----	87	39.0	217.50
NONMANUFACTURING -----	293	37.5	405.00	RETAIL TRADE -----	64	38.0	209.50	COMPUTER OPERATORS, CLASS B -----	109	38.5	219.00
FINANCE -----	159	37.0	363.50	FINANCE -----	153	37.5	201.50	MANUFACTURING -----	70	39.0	220.00
COMPUTER SYSTEMS ANALYSTS (BUSINESS), CLASS B -----	252	38.5	340.50	COMPUTER OPERATORS, CLASS C -----	228	38.5	183.50	DRAFTERS -----	143	38.5	242.50
MANUFACTURING -----	145	39.0	352.00	MANUFACTURING -----	123	39.0	180.50	MANUFACTURING -----	67	40.0	243.50
NONMANUFACTURING -----	107	37.5	324.50	NONMANUFACTURING -----	105	38.5	187.00	REGISTERED INDUSTRIAL NURSES -----	265	39.0	260.50
FINANCE -----	83	37.0	307.00	FINANCE -----	63	37.5	169.50	MANUFACTURING -----	215	39.5	258.00
COMPUTER SYSTEMS ANALYSTS (BUSINESS), CLASS C -----	82	38.0	279.00	DRAFTERS -----	1,268	40.0	300.00	NONMANUFACTURING -----	50	38.0	270.50
NONMANUFACTURING -----	51	37.5	257.00	MANUFACTURING -----	1,113	40.0	300.00				
COMPUTER PROGRAMMERS (BUSINESS) ---	931	38.0	328.50	NONMANUFACTURING -----	155	39.0	257.50				
MANUFACTURING -----	409	38.5	330.50	PUBLIC UTILITIES -----	45	38.5	271.00				
NONMANUFACTURING -----	522	38.0	326.50	DRAFTERS, CLASS A -----	649	40.0	335.50				
PUBLIC UTILITIES -----	186	39.0	381.00	MANUFACTURING -----	593	40.0	339.50				
FINANCE -----	291	37.5	294.50	NONMANUFACTURING -----	56	39.5	289.50				
				DRAFTERS, CLASS B -----	419	40.0	288.00				
				MANUFACTURING -----	362	40.0	292.50				
				NONMANUFACTURING -----	57	39.5	257.50				
				DRAFTERS, CLASS C -----	143	40.0	218.50				
				MANUFACTURING -----	122	40.0	220.00				

See footnotes at end of tables.

Table A-11. Hourly earnings of maintenance, toolroom, and powerplant workers—large establishments in Philadelphia, Pa.—N.J., November 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	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
					3.20	3.40	3.60	3.80	4.00	4.20	4.40	4.60	5.00	5.40	5.80	6.20	6.60	7.00	7.40	7.80	8.20	8.60	9.00	9.40	9.80	10.20	and over	
					Under \$ 3.20																							
						3.40	3.60	3.80	4.00	4.20	4.40	4.60	5.00	5.40	5.80	6.20	6.60	7.00	7.40	7.80	8.20	8.60	9.00	9.40	9.80	10.20	over	
ALL WORKERS																												
MAINTENANCE CARPENTERS -----	560	7.94	7.96	6.51- 8.61	-	-	-	-	-	-	-	2	1	15	10	33	97	15	47	36	31	111	41	1	11	109	-	
MANUFACTURING -----	376	7.53	7.47	6.54- 8.56	-	-	-	-	-	-	-	2	-	-	7	30	71	14	46	34	28	101	41	1	1	-	-	
NONMANUFACTURING -----	184	8.80	10.12	6.51-10.12	-	-	-	-	-	-	-	-	1	15	3	3	26	1	1	2	3	10	-	-	10	109	-	
MAINTENANCE ELECTRICIANS -----	1,740	7.92	7.90	6.99- 8.69	-	-	-	-	-	-	-	-	1	8	5	72	271	82	175	166	215	185	338	17	152	24	29	
MANUFACTURING -----	1,454	7.71	7.70	6.75- 8.56	-	-	-	-	-	-	-	-	-	8	4	68	261	78	167	154	195	170	276	12	44	-	17	
NONMANUFACTURING -----	286	8.95	9.49	8.38- 9.49	-	-	-	-	-	-	-	-	1	-	1	4	10	4	8	12	20	15	62	5	108	24	12	
RETAIL TRADE -----	124	8.91	8.80	8.38- 8.80	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	9	9	15	62	-	-	24	4	
MAINTENANCE PAINTERS -----	310	7.44	7.41	6.50- 8.49	-	-	-	-	-	-	4	-	2	9	5	20	62	29	22	24	26	55	35	2	8	-	7	
MANUFACTURING -----	237	7.45	7.41	6.50- 8.34	-	-	-	-	-	-	-	-	-	-	1	13	52	28	22	20	24	52	23	2	-	-	-	
NONMANUFACTURING -----	73	7.40	6.98	5.66- 8.79	-	-	-	-	-	-	4	-	2	9	4	7	10	1	-	4	2	3	12	-	8	-	7	
PUBLIC UTILITIES -----	26	7.90	8.37	6.52- 8.79	-	-	-	-	-	-	-	-	-	-	-	-	8	-	-	4	-	2	12	-	-	-	-	
MAINTENANCE MACHINISTS -----	1,500	7.98	7.97	7.22- 8.75	-	-	-	-	-	-	-	-	-	8	5	75	124	100	211	119	147	28	498	19	122	44	-	
MANUFACTURING -----	1,338	7.91	7.97	7.28- 8.69	-	-	-	-	-	-	-	-	-	8	5	75	124	93	167	113	136	28	496	18	31	44	-	
NONMANUFACTURING: PUBLIC UTILITIES -----	162	8.55	9.49	7.13- 9.49	-	-	-	-	-	-	-	-	-	-	-	-	-	7	44	6	11	-	2	1	91	-	-	
MAINTENANCE MECHANICS (MACHINERY) -----	1,621	7.30	7.43	6.57- 7.96	-	-	-	-	-	-	-	-	11	31	3	130	301	139	64	425	257	187	73	-	-	-	-	
MANUFACTURING -----	1,586	7.28	7.43	6.57- 7.90	-	-	-	-	-	-	-	-	11	31	3	130	301	139	64	425	232	177	73	-	-	-	-	
MAINTENANCE MECHANICS (MOTOR VEHICLES) -----	724	8.34	8.48	7.97- 8.86	-	-	-	-	-	-	-	-	-	-	-	4	16	12	13	26	219	145	257	7	25	-	-	
MANUFACTURING -----	251	8.25	8.52	7.97- 8.81	-	-	-	-	-	-	-	-	-	-	-	1	16	12	3	15	42	54	108	-	-	-	-	
NONMANUFACTURING -----	473	8.39	8.35	8.03- 8.86	-	-	-	-	-	-	-	-	-	-	-	3	-	-	10	11	177	91	149	7	25	-	-	
PUBLIC UTILITIES -----	409	8.40	8.35	7.81- 8.93	-	-	-	-	-	-	-	-	-	-	-	3	-	-	10	8	169	38	149	7	25	-	-	
MAINTENANCE PIPEFITTERS -----	1,166	7.96	7.97	7.43- 8.58	-	-	-	-	-	-	-	-	-	-	-	34	129	49	33	169	213	309	163	-	54	-	13	
MANUFACTURING -----	1,098	7.90	7.97	7.43- 8.58	-	-	-	-	-	-	-	-	-	-	-	34	129	45	31	169	205	309	160	-	9	-	7	
MAINTENANCE SHEET-METAL WORKERS -----	249	7.24	6.63	6.55- 7.97	-	-	-	-	-	-	-	-	-	5	-	20	88	27	-	19	42	17	23	1	7	-	-	
MANUFACTURING -----	231	7.18	6.60	6.55- 7.97	-	-	-	-	-	-	-	-	-	5	-	20	88	18	-	18	42	17	23	-	-	-	-	
MILLWRIGHTS -----	672	7.86	8.40	7.16- 8.52	-	-	-	-	-	-	-	-	-	-	-	8	136	7	21	78	68	192	162	-	-	-	-	
MANUFACTURING -----	672	7.86	8.40	7.16- 8.52	-	-	-	-	-	-	-	-	-	-	-	8	136	7	21	78	68	192	162	-	-	-	-	
MAINTENANCE TRADES HELPERS -----	496	5.69	6.16	3.59- 7.39	42	64	27	13	1	4	12	-	10	13	42	23	19	16	129	74	7	-	-	-	-	-	-	
MANUFACTURING -----	410	5.62	6.15	3.59- 7.39	36	60	24	12	-	4	9	-	9	6	28	23	18	6	114	52	7	-	-	-	-	-	-	
NONMANUFACTURING -----	86	6.03	6.77	5.01- 7.43	6	4	3	1	1	-	3	-	1	7	14	-	1	8	15	22	-	-	-	-	-	-	-	
MACHINE-TOOL OPERATORS (TOOLROOM) -----	259	7.00	6.68	6.18- 7.80	-	-	-	-	-	-	-	-	-	1	1	87	31	42	-	36	12	49	-	-	-	-	-	
MANUFACTURING -----	259	7.00	6.68	6.18- 7.80	-	-	-	-	-	-	-	-	-	1	1	87	31	42	-	36	12	49	-	-	-	-	-	
TOOL AND DIE MAKERS -----	1,076	7.68	7.54	7.00- 8.75	-	-	-	-	-	-	-	-	-	7	3	7	142	78	110	328	67	37	294	-	-	3	-	
MANUFACTURING -----	1,076	7.68	7.54	7.00- 8.75	-	-	-	-	-	-	-	-	-	7	3	7	142	78	110	328	67	37	294	-	-	3	-	
STATIONARY ENGINEERS -----	594	7.70	8.03	6.90- 8.60	-	-	-	-	-	-	-	-	-	9	30	15	54	56	53	55	81	73	142	17	4	-	5	
MANUFACTURING -----	402	7.70	7.81	6.90- 8.49	-	-	-	-	-	-	-	-	-	2	12	12	45	46	43	40	46	68	62	17	4	-	5	
NONMANUFACTURING -----	192	7.70	8.11	7.00- 8.61	-	-	-	-	-	-	-	-	-	7	18	3	9	10	10	15	35	5	80	-	-	-	-	
BOILER TENDERS -----	156	7.31	7.58	6.20- 7.99	-	-	-	-	-	-	-	-	4	2	11	22	5	10	16	21	42	-	12	-	13	-	-	
MANUFACTURING -----	136	7.08	7.33	5.98- 7.96	-	-	-	-	-	-	-	-	4	2	11	22	5	10	16	21	42	-	12	-	-	-	-	

See footnotes at end of tables.

Table A-12. Hourly earnings of material movement and custodial workers—large establishments in Philadelphia, Pa.—N.J., November 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	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$		
					2.30 and under	2.40	2.60	2.80	3.00	3.20	3.40	3.60	3.80	4.00	4.20	4.60	5.00	5.40	5.80	6.20	6.60	7.00	7.40	7.80	8.20	8.60	9.00	and over				
ALL WORKERS																																
TRUCKDRIVERS -----	2,200	\$ 8.08	\$ 8.57	\$ 7.71- 8.57	-	-	2	-	4	8	2	24	-	2	8	13	2	21	105	48	41	127	213	39	1267	256	18	-	-	-		
MANUFACTURING -----	534	7.02	7.38	6.01- 7.79	-	-	-	-	-	-	2	24	-	2	8	9	2	21	71	13	39	104	125	39	70	5	-	-	-			
NONMANUFACTURING -----	1,666	8.42	8.57	8.57- 8.57	-	-	2	-	4	8	-	-	-	-	-	4	-	-	34	35	2	23	88	-	1197	251	18	-	-	-		
PUBLIC UTILITIES -----	1,208	8.36	8.57	8.44- 8.57	-	-	-	-	-	-	-	-	-	-	-	4	-	-	34	35	2	23	88	-	786	236	-	-	-			
TRUCKDRIVERS, LIGHT TRUCK -----	106	5.88	6.24	4.65- 7.10	-	-	2	-	4	8	-	-	-	-	6	9	-	2	11	24	8	32	-	-	-	-	-	-	-			
MANUFACTURING -----	60	6.42	7.10	5.99- 7.10	-	-	-	-	-	-	-	-	-	-	6	5	-	2	7	-	8	32	-	-	-	-	-	-	-			
NONMANUFACTURING: PUBLIC UTILITIES -----	32	6.07	6.23	6.18- 6.28	-	-	-	-	-	-	-	-	-	-	-	4	-	-	4	24	-	-	-	-	-	-	-	-	-			
TRUCKDRIVERS, MEDIUM TRUCK -----	244	7.18	7.38	7.18- 7.79	-	-	-	-	-	-	-	24	-	-	2	-	2	6	4	6	9	70	60	-	56	5	-	-	-			
MANUFACTURING -----	176	7.05	7.38	6.79- 8.33	-	-	-	-	-	-	-	24	-	-	2	-	2	6	3	6	9	63	-	-	56	5	-	-	-			
NONMANUFACTURING: PUBLIC UTILITIES -----	68	7.50	7.56	7.50- 7.61	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	7	60	-	-	-	-	-	-			
TRUCKDRIVERS, HEAVY TRUCK (TRAILER) -----	950	8.49	8.57	8.44- 8.57	-	-	-	-	-	-	-	-	-	-	-	2	-	9	4	-	19	5	72	6	597	236	-	-	-			
MANUFACTURING -----	103	7.34	7.57	6.95- 7.79	-	-	-	-	-	-	-	-	-	-	-	2	-	9	4	-	19	5	44	6	14	-	-	-	-			
NONMANUFACTURING -----	847	8.63	8.57	8.57- 8.94	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	28	-	583	236	-	-	-			
SHIPPING CLERKS -----	150	5.93	6.00	5.45- 6.38	-	-	-	-	-	-	5	-	-	-	-	8	23	24	38	26	17	1	-	8	-	-	-	-	-			
MANUFACTURING -----	115	5.80	5.84	5.29- 6.14	-	-	-	-	-	-	-	-	-	-	-	8	22	24	34	24	-	-	-	3	-	-	-	-	-			
RECEIVING CLERKS -----	519	5.97	6.14	5.07- 7.18	-	-	7	5	5	1	5	11	13	12	14	41	47	59	63	58	18	84	64	12	-	-	-	-	-			
MANUFACTURING -----	265	6.23	6.15	5.42- 7.37	-	-	-	-	-	-	-	-	-	3	3	10	39	49	38	35	7	22	58	1	-	-	-	-	-			
NONMANUFACTURING -----	254	5.70	6.12	4.50- 7.18	-	-	7	5	5	1	5	11	13	9	11	31	8	10	25	23	11	62	6	11	-	-	-	-	-			
RETAIL TRADE -----	236	5.54	6.05	4.22- 7.06	-	-	7	5	5	1	5	11	13	9	11	31	8	9	25	23	11	62	-	-	-	-	-	-	-			
SHIPPING AND RECEIVING CLERKS -----	246	6.36	5.79	5.71- 7.83	-	-	3	-	-	-	3	5	-	9	3	-	32	83	6	1	-	2	-	99	-	-	-	-	-			
MANUFACTURING -----	135	5.43	5.71	5.24- 5.79	-	-	-	-	-	-	3	1	-	9	3	-	31	82	6	-	-	-	-	-	-	-	-	-	-			
WAREHOUSEMEN -----	1,355	6.95	7.68	6.08- 7.68	-	-	-	-	-	4	27	4	5	6	24	20	29	135	137	14	124	105	492	139	90	-	-	-	-			
MANUFACTURING -----	308	6.32	6.12	6.03- 7.20	-	-	-	-	-	-	21	-	-	-	7	2	8	2	135	12	32	58	-	31	-	-	-	-	-			
NONMANUFACTURING -----	1,047	7.13	7.68	6.68- 7.68	-	-	-	-	-	4	6	4	5	6	17	18	21	133	2	2	92	47	492	108	90	-	-	-	-			
PUBLIC UTILITIES -----	273	6.93	7.01	5.55- 8.49	-	-	-	-	-	-	-	-	-	-	-	-	-	122	-	-	3	34	14	10	90	-	-	-	-			
ORDER FILLEES -----	1,168	6.50	6.82	4.72- 7.83	8	-	-	2	-	22	22	8	13	24	83	196	45	64	10	30	62	7	259	239	17	-	57	-	-			
MANUFACTURING -----	366	5.37	5.22	4.69- 6.67	8	-	-	2	-	22	22	8	2	4	8	101	28	39	3	19	58	6	6	27	3	-	-	-	-			
NONMANUFACTURING -----	802	7.02	7.68	4.99- 7.86	-	-	-	-	-	-	-	-	11	20	75	95	17	25	7	11	4	1	253	212	14	-	57	-	-			
RETAIL TRADE -----	637	6.50	7.68	4.75- 7.68	-	-	-	-	-	-	-	-	11	20	75	95	17	25	7	11	4	1	253	118	-	-	-	-	-			
SHIPPING PACKERS -----	1,079	4.68	4.75	3.59- 5.24	12	12	-	39	4	8	200	-	72	38	99	222	149	56	47	48	61	4	-	-	-	-	8	-	-			
MANUFACTURING -----	917	4.65	4.84	3.45- 5.31	12	12	-	38	2	8	200	-	72	35	62	149	125	49	40	47	58	-	-	-	-	-	8	-	-			
MATERIAL HANDLING LABORERS -----	2,904	5.56	5.85	3.93- 7.09	-	75	130	237	114	41	58	32	47	19	144	74	234	235	113	208	270	594	71	160	48	-	-	-	-			
MANUFACTURING -----	1,226	5.81	6.13	4.95- 6.95	-	18	27	-	20	-	29	22	22	12	112	56	107	134	58	169	223	161	-	56	-	-	-	-	-			
NONMANUFACTURING -----	1,678	5.38	5.50	3.05- 7.13	-	57	103	237	94	41	29	10	25	7	32	18	127	101	55	39	47	433	71	104	48	-	-	-	-			
RETAIL TRADE -----	1,386	5.03	5.33	2.95- 7.11	-	57	103	237	94	41	29	10	25	7	32	18	41	100	27	39	47	433	17	29	-	-	-	-	-			
FORKLIFT OPERATORS -----	2,805	6.41	6.35	5.69- 7.16	-	-	-	2	-	-	30	13	-	5	50	210	128	282	506	334	169	614	172	290	-	-	-	-	-			
MANUFACTURING -----	2,270	6.25	6.16	5.48- 7.08	-	-	-	2	-	-	-	2	-	5	40	195	118	281	506	329	147	477	132	41	-	-	-	-	-			
NONMANUFACTURING -----	535	7.10	7.43	7.28- 7.83	-	-	-	-	-	-	30	11	-	5	10	15	10	1	-	5	22	137	40	249	-	-	-	-	-			
RETAIL TRADE -----	432	6.88	7.28	7.25- 7.83	-	-	-	-	-	-	30	11	-	5	10	15	10	1	-	5	19	137	40	149	-	-	-	-	-			

See footnotes at end of tables.

Table A-12. Hourly earnings of material movement and custodial workers—large establishments in Philadelphia, Pa.—N.J., November 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	\$ 2.30 and under	\$ 2.40	\$ 2.60	\$ 2.80	\$ 3.00	\$ 3.20	\$ 3.40	\$ 3.60	\$ 3.80	\$ 4.00	\$ 4.20	\$ 4.60	\$ 5.00	\$ 5.40	\$ 5.80	\$ 6.20	\$ 6.60	\$ 7.00	\$ 7.40	\$ 7.80	\$ 8.20	\$ 8.60	\$ 9.00	\$ and over		
					2.40	2.60	2.80	3.00	3.20	3.40	3.60	3.80	4.00	4.20	4.60	5.00	5.40	5.80	6.20	6.60	7.00	7.40	7.80	8.20	8.60	9.00	over			
ALL WORKERS-- CONTINUED																														
POWER-TRUCK OPERATORS (OTHER THAN FORKLIFT) -----	243	\$ 6.89	\$ 6.99	\$ 6.86- 7.11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8	25	6	81	114	-	7	-	-	-	-	
MANUFACTURING -----	221	6.92	7.11	6.86- 7.11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8	10	8	81	114	-	-	-	-	-	-	
GUARDS AND WATCHMEN -----	3,609	3.62	2.70	2.50- 4.58	665	917	411	39	173	88	89	53	64	58	158	88	161	165	77	86	84	125	25	69	14	-	-	-	-	
MANUFACTURING -----	878	5.92	5.76	5.05- 7.15	-	-	-	-	6	3	30	11	21	11	60	38	134	134	47	75	75	125	25	69	14	-	-	-	-	
NONMANUFACTURING -----	2,731	2.88	2.55	2.40- 3.00	665	917	411	39	167	85	59	42	43	47	98	50	27	31	30	11	9	-	-	-	-	-	-	-	-	
RETAIL TRADE -----	150	4.14	3.73	3.36- 4.90	-	-	8	3	16	11	36	4	12	4	5	18	1	6	16	10	-	-	-	-	-	-	-	-	-	
FINANCE -----	306	4.41	4.45	3.87- 4.84	-	-	-	2	4	15	14	33	29	30	84	32	26	23	14	-	-	-	-	-	-	-	-	-	-	
GUARDS: MANUFACTURING -----	817	5.95	5.76	5.07- 7.17	-	-	-	-	6	3	26	11	21	11	60	7	134	133	47	69	71	111	25	69	13	-	-	-	-	
WATCHMEN: MANUFACTURING -----	61	5.56	4.91	4.64- 6.98	-	-	-	-	-	-	4	-	-	-	-	31	-	1	-	6	4	14	-	-	1	-	-	-	-	
JANITORS, PORTERS, AND CLEANERS ---	4,334	5.14	5.22	4.40- 5.79	5	35	63	108	77	75	195	84	94	121	289	649	432	1168	105	495	247	29	48	15	-	-	-	-	-	
MANUFACTURING -----	2,712	5.50	5.58	4.94- 6.26	-	4	4	20	8	29	58	37	2	45	84	468	341	815	86	487	204	17	3	-	-	-	-	-	-	
NONMANUFACTURING -----	1,622	4.55	4.38	3.56- 5.44	5	31	59	88	69	46	137	47	92	76	205	181	91	353	19	8	43	12	45	15	-	-	-	-	-	
PUBLIC UTILITIES -----	526	5.57	5.44	5.09- 5.65	-	-	-	-	-	-	-	7	-	-	11	90	48	285	10	5	39	-	31	-	-	-	-	-	-	
RETAIL TRADE -----	789	3.97	3.56	3.10- 4.37	4	30	43	85	63	42	129	29	52	60	83	44	12	68	9	3	4	-	14	15	-	-	-	-	-	
FINANCE -----	255	4.34	4.21	4.12- 4.63	-	-	-	-	1	3	3	7	36	16	111	47	31	-	-	-	-	-	-	-	-	-	-	-	-	

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 Philadelphia, Pa.—N.J., November 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		\$	MAINTENANCE, TOOLROOM, AND POWERPLANT OCCUPATIONS - MEN--CONTINUED		\$	MATERIAL MOVEMENT AND CUSTODIAL OCCUPATIONS - MEN--CONTINUED		\$
MAINTENANCE CARPENTERS -----	554	7.95	BOILER TENDERS -----	158	7.31	MATERIAL HANDLING LABORERS -----	2,687	5.66
MANUFACTURING -----	370	7.52	MANUFACTURING -----	136	7.08	MANUFACTURING -----	1,158	5.85
NONMANUFACTURING -----	184	8.80				NONMANUFACTURING -----	1,529	5.52
MAINTENANCE ELECTRICIANS -----	1,698	7.92				RETAIL TRADE -----	1,237	5.15
MANUFACTURING -----	1,412	7.71						
NONMANUFACTURING -----	286	8.95	MATERIAL MOVEMENT AND CUSTODIAL OCCUPATIONS - MEN			FORKLIFT OPERATORS -----	2,578	6.41
RETAIL TRADE -----	124	8.91				MANUFACTURING -----	2,044	6.23
MAINTENANCE PAINTERS -----	299	7.44				NONMANUFACTURING -----	534	7.10
MANUFACTURING -----	227	7.44	TRUCKDRIVERS -----	2,190	8.09	RETAIL TRADE -----	431	6.88
NONMANUFACTURING -----	72	7.42	MANUFACTURING -----	534	7.02			
PUBLIC UTILITIES -----	26	7.90	NONMANUFACTURING -----	1,656	8.43	POWER-TRUCK OPERATORS (OTHER THAN FORKLIFT) -----	243	6.89
MAINTENANCE MACHINISTS -----	1,489	7.98	PUBLIC UTILITIES -----	1,198	8.39	MANUFACTURING -----	221	6.92
MANUFACTURING -----	1,327	7.91						
NONMANUFACTURING: PUBLIC UTILITIES -----	162	8.55	TRUCKDRIVERS, LIGHT TRUCK -----	101	5.91	GUARDS AND WATCHMEN: MANUFACTURING -----	858	5.93
MAINTENANCE MECHANICS (MACHINERY) - MANUFACTURING -----	1,524	7.27	MANUFACTURING -----	60	6.42	NONMANUFACTURING: RETAIL TRADE -----	140	4.12
MAINTENANCE MECHANICS (MOTOR VEHICLES) -----	724	8.34	NONMANUFACTURING: PUBLIC UTILITIES -----	27	6.22	FINANCE -----	286	4.42
MANUFACTURING -----	251	8.25	TRUCKDRIVERS, MEDIUM TRUCK -----	244	7.18			
NONMANUFACTURING -----	473	8.39	MANUFACTURING -----	176	7.05	GUARDS: MANUFACTURING -----	802	5.96
PUBLIC UTILITIES -----	409	8.40	NONMANUFACTURING: PUBLIC UTILITIES -----	68	7.50	WATCHMEN: MANUFACTURING -----	56	5.46
MAINTENANCE PIPEFITTERS -----	1,114	7.99	TRUCKDRIVERS, HEAVY TRUCK (TRAILER) -----	950	8.49	JANITORS, PORTERS, AND CLEANERS -----	3,446	5.22
MANUFACTURING -----	1,046	7.91	MANUFACTURING -----	103	7.34	MANUFACTURING -----	2,260	5.53
MAINTENANCE SHEET-METAL WORKERS -----	241	7.22	NONMANUFACTURING -----	847	8.63	NONMANUFACTURING -----	1,186	4.63
MANUFACTURING -----	223	7.17	SHIPPING CLERKS -----	126	6.11	PUBLIC UTILITIES -----	396	5.66
MILLWRIGHTS -----	672	7.86	MANUFACTURING -----	98	5.90	RETAIL TRADE -----	612	4.05
MANUFACTURING -----	672	7.86	RECEIVING CLERKS -----	496	5.99	FINANCE -----	126	4.51
MAINTENANCE TRADES HELPERS -----	496	5.69	MANUFACTURING -----	252	6.24	MATERIAL MOVEMENT AND CUSTODIAL OCCUPATIONS - WOMEN		
MANUFACTURING -----	410	5.62	NONMANUFACTURING -----	244	5.74	ORDER FILLERS -----	206	4.38
NONMANUFACTURING -----	86	6.03	RETAIL TRADE -----	226	5.56	SHIPPING PACKERS -----	514	4.34
MACHINE-TOOL OPERATORS (TOOLROOM) - MANUFACTURING -----	259	7.00	SHIPPING AND RECEIVING CLERKS -----	231	6.45	MANUFACTURING -----	378	4.22
MANUFACTURING -----	259	7.00	WAREHOUSEMEN -----	1,315	7.01	MATERIAL HANDLING LABORERS -----	211	4.28
TOOL AND DIE MAKERS -----	1,076	7.68	MANUFACTURING -----	308	6.32	MANUFACTURING -----	62	4.97
MANUFACTURING -----	1,076	7.68	NONMANUFACTURING -----	1,007	7.22	NONMANUFACTURING -----	149	3.99
STATIONARY ENGINEERS -----	592	7.70	PUBLIC UTILITIES -----	273	6.93	RETAIL TRADE -----	149	3.99
MANUFACTURING -----	402	7.70	ORDER FILLERS -----	962	6.95	JANITORS, PORTERS, AND CLEANERS -----	864	4.85
NONMANUFACTURING -----	190	7.70	MANUFACTURING -----	326	5.58	MANUFACTURING -----	443	5.31
			NONMANUFACTURING -----	636	7.66	NONMANUFACTURING -----	421	4.37
			RETAIL TRADE -----	471	7.18	PUBLIC UTILITIES -----	130	5.30
			SHIPPING PACKERS -----	565	5.00	RETAIL TRADE -----	162	3.78
			MANUFACTURING -----	539	4.95	FINANCE -----	129	4.17

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, classes
A and B
Accounting clerks,
classes A and B
Bookkeeping-machine
operators, class B
Payroll clerks
Keypunch 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 Philadelphia, Pa.—N.J.,¹ November 1977

Industry division ²	Minimum employment in establishments 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 -----	-	2,255	418	771,449	100	368,056
MANUFACTURING -----	100	952	187	403,989	52	171,035
NONMANUFACTURING -----	-	1,303	231	367,460	48	197,021
TRANSPORTATION, COMMUNICATION, AND OTHER PUBLIC UTILITIES ⁵ -----	100	87	29	64,621	8	51,373
WHOLESALE TRADE -----	50	333	39	40,203	5	8,601
RETAIL TRADE -----	100	173	38	111,694	15	71,190
FINANCE, INSURANCE, AND REAL ESTATE ⁶ -----	50	270	49	81,669	11	46,059
SERVICES ⁷ -----	50	440	76	69,073	9	19,798
LARGE ESTABLISHMENTS						
ALL DIVISIONS -----	-	289	153	443,890	100	314,219
MANUFACTURING -----	500	177	81	241,335	54	145,958
NONMANUFACTURING -----	-	112	72	202,555	46	168,261
TRANSPORTATION, COMMUNICATION, AND OTHER PUBLIC UTILITIES ⁵ -----	500	16	13	49,656	11	47,835
WHOLESALE TRADE -----	500	3	3	2,416	1	2,416
RETAIL TRADE -----	500	45	23	87,733	20	68,006
FINANCE, INSURANCE, AND REAL ESTATE ⁶ -----	500	35	25	51,208	12	41,713
SERVICES ⁷ -----	500	13	8	11,542	3	8,291

¹ The Philadelphia Standard Metropolitan Statistical Area, as defined by the Office of Management and Budget through February 1974, consists of Bucks, Chester, Delaware, Montgomery, and Philadelphia Counties, Pa.; and Burlington, Camden, and Gloucester Counties, N.J. 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. Local transit in the city of Philadelphia is governmentally operated and excluded by definition from the scope of the study.

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.

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.

SECRETARY—Continued

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;
- 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 corporatwide policymaking role with regard to major company activities. The title "vice president," though normally indicative of this role, does not in all cases

SECRETARY—Continued

Exclusions—Continued

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 material; 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 written or verbal customers' purchase orders for material or merchandise from customers or sales people. Work typically involves some combination of the following duties: Quoting prices; determining availability of ordered items and suggesting substitutes when necessary; advising expected delivery date and method of delivery; recording order and customer information on order sheets; checking order sheets for accuracy and adequacy of information recorded; ascertaining credit rating of customer; furnishing customer with acknowledgement of receipt of order; following-up to see that order is delivered by the specified date or to let customer know of a delay in delivery; maintaining order file; checking shipping invoice against original order.

Exclude workers paid on a commission basis or whose duties include any of the following: Receiving orders for services rather than for material or merchandise; providing customers with consultative advice using knowledge gained from engineering or extensive technical training; emphasizing selling skills; handling material or merchandise as an integral part of the job.

Positions are classified into levels according to the following definitions:

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

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

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:

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

ACCOUNTING CLERK—Continued

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.

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

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

PAYROLL CLERK—Continued

listings against source records; tracing and correcting errors in listings; and assisting in preparation of periodic summary payroll reports. In a non-automated payroll system, computes wages. Work may require a practical knowledge of governmental regulations, company payroll policy, or the computer system for processing payrolls.

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

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.

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, 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.

COMPUTER SYSTEMS ANALYST, BUSINESS—Continued

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.)

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.

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.

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).

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;

ELECTRONICS TECHNICIAN—Continued

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.

REGISTERED INDUSTRIAL NURSE

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 CARPENTER—Continued

using a variety of carpenter's handtools, portable power tools, and standard measuring instruments; making standard shop computations relating to dimensions of work; and selecting materials necessary for the work. In general, the work of the maintenance carpenter requires rounded training and experience usually acquired through a formal apprenticeship or equivalent training and experience.

MAINTENANCE ELECTRICIAN

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

MAINTENANCE PAINTER

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

MAINTENANCE MACHINIST

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

MAINTENANCE MECHANIC (Machinery)

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

MAINTENANCE MECHANIC (Motor vehicle)

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

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

MAINTENANCE PIPEFITTER

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

MAINTENANCE SHEET-METAL WORKER

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

MILLWRIGHT

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

MAINTENANCE TRADES HELPER

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

MACHINE-TOOL OPERATOR (Toolroom)

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

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

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.)

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 tasks; 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. 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.

TRUCKDRIVER—Continued

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

SHIPPING AND RECEIVING CLERK—Continued

shipped, making up bills of lading, posting weight and shipping charges, 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

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 PACKER—Continued

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.

Area Wage Surveys

A list of the latest bulletins available is presented below. Bulletins may be purchased from any of the BLS regional offices shown on the back cover, or from the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402. Make checks payable to Superintendent of Documents. A directory of occupational wage surveys, covering the years 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. 1977	1950-52, 80 cents
Anaheim-Santa Ana-Garden Grove, Calif., Oct. 1977	1950-60, \$1.00
Atlanta, Ga., May 1977	1950-17, \$1.20
Baltimore, Md., Aug. 1977	1950-39, \$1.20
Billings, Mont., July 1977 ¹	1950-40, \$1.00
Birmingham, Ala., Mar. 1977	1950-8, 85 cents
Boston, Mass., Aug. 1977	1950-50, \$1.20
Buffalo, N.Y., Oct. 1977	1950-58, \$1.00
Canton, Ohio, May 1977 ¹	1950-28, \$1.10
Chattanooga, Tenn.-Ga., Sept. 1977	1950-44, 70 cents
Chicago, Ill., May 1977 ¹	1950-41, \$1.40
Cincinnati, Ohio-Ky.-Ind., July 1977 ¹	1950-45, \$1.20
Cleveland, Ohio, Sept. 1977 ¹	1950-53, \$1.40
Columbus, Ohio, Oct. 1976	1900-68, 75 cents
Corpus Christi, Tex., July 1977 ¹	1950-35, \$1.00
Dallas-Fort Worth, Tex., Oct. 1976	1900-63, 85 cents
Davenport-Rock Island-Moline, Iowa-Ill., May 1977 ¹	1950-26, \$1.10
Dayton, Ohio, Dec. 1976	1900-78, 85 cents
Daytona Beach, Fla., Aug. 1977 ¹	1950-43, \$1.00
Denver-Boulder, Colo., Dec. 1976	1900-73, 85 cents
Detroit, Mich., Mar. 1977	1950-13, \$1.20
Fresno, Calif., June 1977	1950-30, 70 cents
Gainesville, Fla., Sept. 1977 ¹	1950-46, \$1.00
Green Bay, Wis., July 1977	1950-36, 70 cents
Greensboro-Winston-Salem-High Point, N.C., Aug. 1977 ¹	1950-42, \$1.10
Greenville-Spartanburg, S.C., June 1977	1950-33, 70 cents
Hartford, Conn., Mar. 1977	1950-9, 80 cents
Houston, Tex., Aug. 1977 ¹	1950-48, \$1.40
Huntsville, Ala., Feb. 1977 ¹	1950-4, \$1.40
Indianapolis, Ind., Oct. 1977	1950-56, \$1.00
Jackson, Miss., Jan. 1977 ¹	1950-2, \$1.50
Jacksonville, Fla., Dec. 1976 ¹	1900-80, 85 cents
Kansas City, Mo.-Kans., Sept. 1977	1950-54, \$1.00
Los Angeles-Long Beach, Calif., Oct. 1977	1950-61, \$1.20
Louisville, Ky.-Ind., Nov. 1976	1900-69, 55 cents
Memphis, Tenn.-Ark.-Miss., Nov. 1976 ¹	1900-75, 85 cents

Area	Bulletin number and price*
Miami, Fla., Oct. 1977	1950-57, \$1.00
Milwaukee, Wis., Apr. 1977	1950-14, \$1.10
Minneapolis-St. Paul, Minn.-Wis., Jan. 1977	1950-3, \$1.60
Nassau-Suffolk, N.Y., June 1977	1950-27, \$1.00
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 1977	1950-31, \$1.20
Norfolk-Virginia Beach-Portsmouth, Va.-N.C., May 1977	1950-20, 70 cents
Norfolk-Virginia Beach-Portsmouth and Newport News-Hampton, Va.-N.C., May 1977	1950-21, 70 cents
Northeast Pennsylvania, Aug. 1977 ¹	1950-38, \$1.10
Oklahoma City, Okla., Aug. 1977 ¹	1950-49, \$1.10
Omaha, Nebr.-Iowa, Oct. 1977 ¹	1950-55, \$1.10
Paterson-Clifton-Passaic, N.J., June 1977	1950-34, 70 cents
Philadelphia, Pa.-N.J., Nov. 1977	1950-62, \$1.20
Pittsburgh, Pa., Jan. 1977	1950-1, \$1.50
Portland, Maine, Dec. 1976 ¹	1900-72, 85 cents
Portland, Oreg.-Wash., May 1977 ¹	1950-32, \$1.20
Poughkeepsie, N.Y., June 1977	1950-25, 70 cents
Poughkeepsie-Kingston-Newburgh, N.Y., June 1976	1900-55, 55 cents
Providence-Warwick-Pawtucket, R.I.-Mass., June 1977 ¹	1950-22, \$1.20
Richmond, Va., June 1977 ¹	1950-23, \$1.10
St. Louis, Mo.-Ill., Mar. 1977	1950-10, \$1.20
Sacramento, Calif., Dec. 1976	1900-71, 55 cents
Saginaw, Mich., Nov. 1977	1950-59, 70 cents
Salt Lake City-Ogden, Utah, Nov. 1976	1900-65, 55 cents
San Antonio, Tex., May 1977 ¹	1950-24, \$1.10
San Diego, Calif., Nov. 1976	1900-79, 55 cents
San Francisco-Oakland, Calif., Mar. 1977	1950-29, \$1.20
San Jose, Calif., Mar. 1977	1950-19, \$1.00
Seattle-Everett, Wash., Jan. 1977 ¹	1950-12, \$1.20
South Bend, Ind., Aug. 1977 ¹	1950-51, \$1.10
Syracuse, N.Y., July 1976	1900-44, 55 cents
Toledo, Ohio-Mich., May 1977	1950-18, 80 cents
Trenton, N.J., Sept. 1977	1950-47, 70 cents
Utica-Rome, N.Y., July 1977 ¹	1950-37, \$1.10
Washington, D.C.-Md.-Va., Mar. 1977	1950-11, \$1.20
Wichita, Kans., Apr. 1977 ¹	1950-16, \$1.10
Worcester, Mass., Apr. 1977	1950-15, 70 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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Connecticut
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Vermont

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9th Floor, 230 S. Dearborn St.
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Phone: 353-1880 (Area Code 312)

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New York, N.Y. 10036
Phone: 399-5406 (Area Code 212)

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Phone: 749-3516 (Area Code 214)

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Phone: 881-4418 (Area Code 404)

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North Carolina
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Hawaii	Oregon
Nevada	Washington

