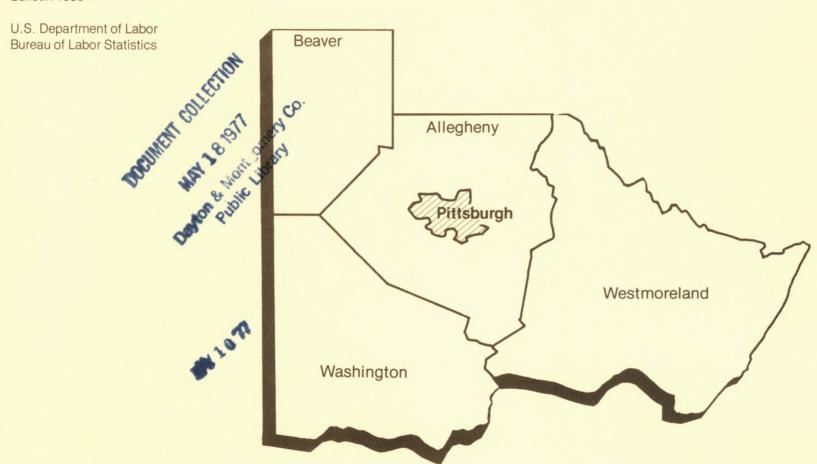
22.3:

Area 1950-1 Wage Survey

Pittsburgh, Pennsylvania, Metropolitan Area, January 1977



Bulletin 1950-1



Preface

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

Note:

A report on occupational earnings and supplementary wage provisions in the Pittsburgh area is available for the machinery industry (February 1975). 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

Pittsburgh, Pennsylvania, Metropolitan Area, January 1977

U.S. Department of Labor Ray Marshall, Secretary Bureau of Labor Statistics Julius Shiskin, Commissioner April 1977

Bulletin 1950- 1



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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 elinimation of changes in average earnings caused by employment shifts among establishments as well as turnover of establishments included in survey samples. For further details, see appendix A.

Appendixes

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

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

A. Earnings

Table A-1. Weekly earnings of office workers in Pittsburgh, Pa., January 1977

					earnings 1	Numb	er of	worke	rs rec	eiving	straig	ght-tir	ne we	ekly ea	arning	s of—										
Occupation and industry division	Number of workers	Average weekly hours ! (standard)	Mean 2	Median 2	Middle range≥	80 and under	90	100	110	120	130	140	150	160	170	180	190	200	210	220	240	260	280	•	-	ar
ALL WORKERS						70	100	110	120	130	140	130	100	170	100	170	200	210	220	240	200	200	300	JEU	340	- 00
ECRETARIES MANUFACTURING NONMANUFACTURING PUBLIC UTILITIES WHOLESALE TRADE RETAIL TRADE FINANCE SERVICES	2,302 2,134 337 213 173	39.5 38.5 38.5 40.0 40.0 37.0	226.00 202.50 237.50 224.50 168.00 182.00	227.50 200.00 236.00 220.00 162.00 180.00	\$ 180.00-248.50 194.50-257.50 169.00-228.00 199.50-268.00 190.00-256.50 144.00-187.00 158.50-203.00 186.00-228.00			12 9 3 - 1 2	- 4	43 15 28 - 8 15 5	107 13 94 1 2 18 42 31	164 38 126 2 4 30 55 35	231 95 136 15 28 17 54 22	93	267 104 163 16 11 19 88 29	326 144 182 21 4 11 109 37		362 152 210 12 5 10 48 135	368 201 167 21 54 7 42 43	3 65	550 409 141 45 17 5 18 56	421 308 113 43 20 2 8 40	191 129 62 20 12 2 3 25	91 48 43 25 9 - 2	29 18 11 8 3	
SECRETARIES, CLASS A MANUFACTURING NONMANUFACTURING	305 191 114	39.0	264.50	278.50	208.50-294.50 215.00-304.50 160.00-256.00	-	:	:	:	=	19	9 4 5	28 23 5	1	10 3 7	1	1	17 16 1	13 5 8	39 11 28	32 15 17	24 20 4	46 36 10	32 30 2	10	
SECRETARIES, CLASS B	792 423 369 75 104 57	39.5 39.0 39.0 40.0 37.0	249.50 229.50 269.50 231.50 221.00	257.50 227.00 268.50 223.00 231.00	205.00-275.00 225.50-276.50 190.50-262.00 226.50-314.50 216.00-267.00 184.00-240.50	:		1 1	:		4 4	9 - 4 - 1	20 - 11 - 6	10 1 9 - 1	27 5 22 7 9 6	40 24 16 - 2 10	57 21 36 10 -	42 25 17 1 -	60 20 40 2 27 27	123 65 58 13 14 20 9	106 59 47 3 5 10 27	158 113 45 16 15 5	83 68 15 5	32 12 20 15 4	10 5 5 4 1	
SECRETARIES, CLASS C	1,431 772 659 147 63 197 207	39.5 39.0 39.0 40.0 37.0	225.50 214.50 247.00 221.50 193.50	230.00 218.50 244.00 216.50 200.00	193.00-245.50 197.50-254.50 185.50-233.50 220.50-268.00 202.00-251.50 177.00-213.00 215.50-228.00	:			4	13 10 3	13	28 4 24 - 11 3	47 17 30 - 13 7 3	60 34 26 - 8 14	64 29 35 1 1 12	97 51 46 7 1 36	82 57 25 4 1 10	114 57 57 11 3 35 5	139 59 80 14 18 32 15	329 149 180 27 8 27 117	232 175 57 31 5 7	141 108 33 25 5	32 14 18 12 1	23 2 21 10 5	9 3 6 4 2 -	
SECRETARIES CLASS D	791 924	39.5 38.5 38.0 37.0	200.00 179.00 195.00 166.00	202.50 179.50 188.00 167.00	161.50-213.00 172.50-227.50 154.00-201.50 163.50-226.50 149.50-184.00 177.00-207.50	:	:	11 9 2 - 1 1	33 20 13 7 6	29 5 24 15 5	70 9 61 1 30 13	118 30 88 2 44 26	133 55 78 15 42 13	160 58 102 16 62 18	161 66 95 15 64 12	183 69 114 14 63 35	162 59 103 1 30 63	54	154 116 38 5 8 24	162 120 42 23	99 79 20 11	44 35 9 2 7	8 7 1 1		:	
ENOGRAPHERS	917	39.5 38.0 38.0 40.0 37.5	177.00 173.50 201.50 178.00 152.00	173.50 165.00 193.50 172.50 148.50	148.50-199.00 153.00-205.00 144.50-193.00 165.50-224.50 150.00-210.00 140.50-163.50 132.50-186.00	:	6 - 6	24 12 12 1 1 1 10	25 14 11 - 2 7 2	99 42 57 1 13 25 16	111 49 62 9 3 43 7	227 75 152 37 1 89 19	181 124 57 12 15 28	233 99 134 22 11 79 13	223 154 69 18 7 19 20	110 36 74 25 10 22 16	110 47 63 24 15 4	114 96 18 12 - 5	95 62 33 17 14	129 74 55 48 6	41 33 8 7 1	20 20 13 2	36 36 30 6			
STENOGRAPHERS, GENERAL MANUFACTURING NOMMANUFACTURING PUBLIC UTILITIES WHOLESALE TRADE	715 336 379 207 61	40.0 38.0 38.0	175.50 173.00 198.50	175.00 155.00 188.50	139.00-206.50 144.00-206.50 136.00-203.50 150.00-222.50 129.50-169.00	=	6 - 6	24 12 12 -	23 14 9 - 2	70 25 45 1 13	57 21 36 9 3	85 33 52 37 1	57 25 32 12 15	44 10 34 22 6	65 49 16 12 2	27 6 21 14 2	45 28 17 11	68 60 8 7	29 19 10 5 5	59 23 36 32 4	16 11 5 5	12	28 28 28	:	:	
STENOGRAPHERS, SENIOR MANUFACTURING NONMANUFACTURING WHOLESALE TRADE FINANCE SERVICES	581 488	39.5 38.5 40.0 37.5	178.00 173.50 208.50 156.50	171.50 167.00 198.50 156.50	154.00-193.50 154.50-201.50 148.50-188.00 187.00-212.50 145.50-165.50 149.50-186.00	:			2 2	29 17 12 - 6	54 28 26 - 20 6	142 42 100 - 76 19	99	189 89 100 5 75	158 105 53 5 18	83 30 53 8 20		46 36 10	66 43 23 9	70 51 19 2	25 22 3 1	8 2	8 6			

Table A-1. Weekly earnings of office workers in Pittsburgh, Pa., January 1977—Continued

					earnings 1 ndard)	Numb	er of v	vorker	s rec	eiving	straig	ht-tin	ne wee	kly ea	rnings	of—										
Occupation and industry division	Number of workers	Average weekly hours ¹ (standard	Mean 2	Median 2	Middle range ²	and under	90	100	110	120	130	140	150	160	170	180	190	200	210	220	240	260	280	300	320	34 and
ALL WORKERS CONTINUED																										
TRANSCRIBING-MACHINE TYPISTS NONMANUFACTURING FINANCE	174 130 76	38.0	119.00	116.00	\$ 109.50-186.50 108.00-132.00 99.00-116.00	-	24 24 24	20 20 19	31 31 15	19	18 18 10	7 7 6	8	2 2	:	12	11	52	:	:	:	Ξ	:	:	:	
TYPISTS	588 796	39.5 37.5 39.0 40.0 36.5	152.50 135.50 189.50 140.00 116.50	142.50 124.00 168.50 136.00 116.00	115.00-153.00 129.00-180.00 110.50-147.50 159.00-206.00 120.00-151.00 108.00-124.00 117.50-181.50	17 - 6	40 1 39 - 3 36	170 30 140 - 6 107 26	183 43 140 - 10 103 19	238 79 159 1 27 112 13	140 87 53 12 12 29	166 103 63 8 12 28 12	106 43 63 24 27 4	23 11 12 9 1	44 22 22 8 3 1	77 49 28 9 2 1	21 16 5 2 1	17 13 4 - 4	27 19 8 6 2	44 40 4 2 - 2	26 10 16	11 11 1 -	:	12		
TYPISTS. CLASS A	418 202 216 56 52	40.0 38.0 39.5	170.50 164.50 202.00	167.00 150.00 182.50	129.00-184.50 138.50-188.50 122.00-184.00 160.00-222.50 170.00-250.00	=	:	26 26 8	26	64 33 31	37 19 18	46 39 7	29 6 23 16 2	12 5 7 5	21 7 14 6 5	60 44 16 9 6	10 6 4 2 2	5 5	14 11 3 3	27 25 2 2	21 5 16	11 11 1 10	:	12	:	
TYPISTS, CLASS B	386 580 26 89	39.0 37.5 38.0 40.0 36.5	143.00 124.50 162.00 141.00 114.50	134.00 120.00 159.00 147.50 113.00	112.00-145.50 121.00-152.50 108.00-138.00 145.00-168.00 120.00-151.00 108.00-124.00 115.00-140.00	17 - 6	40 1 39 - 3 36	144 30 114 - 6 89 18	157 43 114 - 4 85 17	174 46 128 1 27 81 13	103 68 35 - 7 28	120 64 56 8 12 21 12	77 37 40 8 26	11 6 5 4 1	23 15 8 2 1	17 5 12 - 2 -	11 10 1 - 1	15 11 4 - 4	13 8 5 3 2	17 15 2 -	5 5					
FILE CLERKS	737 145 592 341 82	39.5 38.0 37.0	164.50 120.00 115.00	159.50 113.50 113.00	107.00-136.50 131.00-181.50 106.00-127.50 103.00-127.00 98.00-124.50	1	-	125 125 95 15	158 23 135 53 13	120 13 107 61 18	66 17 49 35 2	39 8 31 13 7	30 17 13 8 1	15 12 3 2 1	18 11 7 3	17 16 1	4 1 3 1 1	2	7 1 6 -	17 12 5	10 9 1	7 3 4 - 1	1	:	:	
FILE CLERKS, CLASS A	106 79				125.50-171.00 124.50-148.50		:	2	4	27 27	13 13	13 13	15 4	3	6	:	1	:	:	7	7	7	1	:	:	:
FILE CLERKS, CLASS B	86 142	39.5 38.5	159.00	156.00	112.00-149.00 132.50-181.50 108.50-128.50 109.50-128.00	1	10	41 41 19	31 13 18 4	43 6 37 23	37 16 21 12	11 7 4 3	6	11 10 1	5	11 10 1	1	2 -	7 1 6	7 6 1	3	:	:	:	:	
FILE CLERKS, CLASS C NONMANUFACTURING FINANCE	371	38.0	112.50	110.50	101.00-120.50 100.00-119.50 96.50-114.00	-	90 90 70	82 82 74	123 113 45	50 43 27	16 15 10	15 14 5	9 9	1	1	6	1	:	:	3	:	:	:	:	:	
MESSENGERS	117 160 36	39.0 39.0 39.5	156.50 138.00 195.50	142.50 124.50 155.50	115.00-164.50 127.50-177.50 110.00-141.50 130.00-279.00 115.00-141.50	=	14	28 5 23 -	45 14 31 -	49 28 21 6 9	34 11 23 10 3	24 20 -	9 2 7 4 2	25 22 3 1 2	5 2 3 -	2 -	:	14 14 - -	1	12	1 1 1	5 5 5	9 9		:	
SWITCHBOARD OPERATORS	338 85 253 52 122	39.5 39.5 39.0	212.50 164.50 208.50	215.00 139.50 215.50	138.00-215.50 182.00-248.00 136.00-193.50 191.00-257.50 136.00-142.00	=	:	11 11 -	18 18 6 12	11	89 89 1 69	20 3 17 -	17 7 10	10	15 7 8 5	14 10 4 1	23 6 17 5 7	10 5 5 3 2	26 8 18 13 5	24 11 13 3 1	43 27 16 15	:	7 1 6 -	:	:	

Table A-1. Weekly earnings of office workers in Pittsburgh, Pa., January 1977—Continued

					earnings ndard)	Numb	er of	worker	rs rec	eiving	straig	ht-tin	ne wee	kly.ea	rning	s of—										
Occupation and industry division	Number of workers	Average weekly hours 1 (standard)	Mean 2	Median 2	Middle range ²	and under	90	100 - 110	110	120	130	140	150	160	170	180	190	200	210	220	240	260	-	-	320 - 340	34 an
ALL WORKERS CONTINUED																										
WITCHBOARD OPERATOR-RECEPTIONISTS- MANUFACTURING NONMANUFACTURING PUBLIC UTILITIES WHOLESALE TRADE FINANCE SERVICES	569 205 364 36 105 60 121	39.0 40.0 38.5 39.5 37.0	151.50 134.00 173.50 137.00 125.50	157.50 129.50 152.00 130.00 124.00	\$ \$ 121.00-161.00 129.00-167.00 117.50-146.00 136.00-183.50 121.00-149.00 124.00-136.00 110.00-139.50	:	50 22 28 - 10 7	25 25 9	55 13 42 - 12 - 21	118 27 91 - 22 31 38	79 10 69 10 25 15	42 17 25 1 13 2 4	51 18 33 11 1 1	86 58 28 2 17	15 11 4 2 2	11 3 8 2 2	14 12 2 - 2	5 4 1 - 1 - 1 -	3 2 1 1	3 3	5 4 1 1	7 1 6 6	:			
RDER CLERKS MANUFACTURING NONMANUFACTURING WHOLESALE TRADE	532 288 244 169	39.5	202.00	185.50	134.50-234.00 146.00-278.50 124.50-200.00 184.00-209.50	:	12 10 2	20 10 10	21 10 11 9	76 26 50 3	26 26 13	31 23 8 8	28 26 2 2	23 19 4 4	10 9 1 1	70 22 48 48	13 1 12 10	28 28 28	27 25 2 2	17 11 6 6	6	50 19 31 31	55 55 -	16 16 -	3 3 3	
ORDER CLERKS, CLASS A MANUFACTURING NONMANUFACTURING WHOLESALE TRADE	187 135 52 50	39.5 39.5	254.50	281.00	196.50-284.50 216.00-284.50 195.50-209.50 196.50-209.50	-	:	:	:	2 2 2	1 1 1	1 1	:	6 3 3 3	8 8 -	25 22 3 3	6 4	27 27 27	14 14 -	6 6	2	16 16	54 54	16 16	3 3 3	
ORDER CLERKS, CLASS B MANUFACTURING NJNMANUFACTURING WHOLESALE TRADE	345 153 192 119	39.5 40.0	156.00 166.50	146.00	124.50-185.00 129.50-165.00 124.50-185.00 152.50-261.00	-	12 10 2	20 10 10	21 10 11 9	74 26 48 1	25 25 12	30 23 7 7	28 26 2 2	17 16 1	1 1 1	45 45 45	7 1 6 6	1 1	13 11 2 2	11 11 -	4 4 -	34 3 31 31	1		:	
CCOUNTING CLERKS MANUFACTURING NONMANUFACTURING PUBLIC UTILITIFS WHOLESALE TRADE RETAIL TRADE FINANCE SERVICES	2,251 802 1,449 118 440 502 210 179	39.5 39.0 39.5 39.5 39.5 37.0	207.50 157.00 253.00 166.00 125.00 155.00	192.00 139.00 262.50 155.50 124.50 149.50	129.00-217.50 144.00-274.50 114.00-183.00 223.00-276.50 126.50-203.00 104.50-136.00 138.00-169.00 118.50-175.50	12	126 18 97	43 67	155 20 135 - 31 63 17 24	197 50 147 - 27 93 10	295 92 203 - 64 68 42 29	144 52 92 21 20 41 10	139 50 89 - 21 22 35 11	130 55 75 1 34 15 13	111 30 81 2 38 13 15 13	66 33 33 1 15 7	51 20 31 2 12 11 6	71 9 62 17 28 4 12	86 33 53 4 27 10 6	80 46 34 15 17 1	92 60 32 14 9	126 65 61 34 6 -	150 105 45 12 29	65 49 16 14	5	
ACCOUNTING CLERKS, CLASS A MANUFACTURING	756 336 420 29 167 59 105	40.0 38.5 38.5 39.5 39.0 37.0	258.00 198.50 293.50 210.50 174.50 163.00	275.50 190.00 285.00 210.00 172.00 150.50	169.50-284.50 215.00-296.00 153.50-232.00 285.00-303.50 168.00-243.00 157.00-190.00 142.00-188.50 163.50-247.50				9 - 1 8 -	12	39 - 39 - 28 1	37 37 - 6 25 6	45 12 33 7 10 9	48 14 34 - 13 7 3 11	36 4 32 - 9 12 11	26 18 8 - 3 1 4	36 13 23 7 10 6	43 5 38 - 24 1 12 1	67 24 43 - 27 9 5		41 24 17 - 9 - 1 7	62 40 22 5 6 - 1	130 86 44 12 29	58 46. 12 10	2	
ACCOUNTING CLERKS, CLASS B MANUFACTURING	466	39.5 39.5 40.0 40.0 39.5 36.5	171.50 139.50 239.50 138.50 118.50 147.00	151.00 129.50 246.00 134.00 112.50 142.00	115.00-167.00 132.50-193.00 109.50-155.00 209.50-262.50 110.00-166.00 100.00-132.50 138.00-153.00 112.00-138.00	12	126 18 97	11	146 20 126 31 62 9	185 50 135 26 90 2	256 92 164 36 67 32 29	107 52 55 - 21 14 16 4	94 38 56 - 14 12 26 4	82 41 41 1 21 8 10	75 26 49 2 38 4 3	40 15 25 1 12 6	15 7 8 2 5 1	24 17 4 3	1 1	18 19 15 4	51 36 15 14	29	20 19 1 -	-	:	
BOOKKEEPING-MACHINE OPERATORS MANUFACTURING NONMANUFACTURING WHOLESALE TRADE	217 80 137 58	39.0 38.5	143.50	144.00	123.00-148.00 117.50-148.00 123.00-150.00 130.00-150.00	-	20	13 11 2	10 10 -	39 39 3	20 6 14 14	63 38 25 19	22 4 18 9	1 1 -	5 3 2	2	16 2 14 13	2	1	-		-				

Table A-1. Weekly earnings of office workers in Pittsburgh, Pa., January 1977—Continued

			-		earnings 1	Numbe	er of	worker	s rec	eiving	straig	ht-tin	ne wee	kly ea	rnings	of—										
Occupation and industry division	Number of workers	Average weekly hours ¹ (standard)	Mean 2	Median 2	Middle range ²	and under	90	100 - 110	110	120	130	140	150	160	170	180	190	200	-	220	240	260	\$ 280 - 300	300	340	ar
ALL WORKERS CONTINUED																										
BOOKKEEPING-MACHINE OPERATORS - CONTINUED																										
BOOKKEEPING-MACHINE OPERATORS, CLASS B MANUFACTURING NONMANUFACTURING		38.5	139.50	144.00	\$ 122.00-145.50 117.50-148.00 126.50-143.00	:	20	13 11 2	10 10	29	20 6 14	59 34 25	14 - 14	2 1 1	3 2 1	2 - 2	3 2 1	2 2	1 1 -	:	:	:	:	:	:	
MACHINE BILLERS	89	39.0	145.50	128.00	117.50-205.50 117.50-175.00 123.50-258.50	:	:	30 22 8	26 20 6	19 12 7	10	=	918	11 10 1	6	:	:	9	4	3 2 1	9 3 6	Ξ	15	=	:	
BILLING-MACHINE BILLERS					117.50-235.50 106.00-128.00	:	:	22	20	11 11	4	:	Ξ	1	6	:	:	1	4	2	9	:	15	-	:	
BOOKKEEPING-MACHINE BILLERS	56	39.5	148.00	144.00	119.00-166.00	-	-	8	6	8	6	-	9	10	-	-	-	8	-	1	-	-	-	-	-	
PAYROLL CLERKS	309 138	39.5 38.5	189.50 195.50	179.50	140.50-247.50 135.00-257.50 158.00-234.00 211.00-273.00	=	:	1 -	10 9 1	64 44 20	36 33 3	40 35 5	29 23 6	10 1 9	27 15 12	39 18 21 3	10 8 2 1	12 7 5 2	29 16 13 11	22 10 12 8	52 48 4	41 26 15	15 7 8 3	9 8 1 1	1 -	
KEYPUNCH OPERATORS	685 852 122 204 159 211	40.0 39.0 39.5 39.5 40.0 37.5	191.50 159.00 220.00 146.00 158.00 152.00	193.00 152.00 210.50 140.00 154.00	139.00-202.50 155.00-234.00 128.50-179.50 185.00-262.50 122.00-165.00 144.00-176.00 133.50-172.50 119.00-144.00	6 6	38 12 26 - 18 - 6 2	43 7 36 - 10 4 2	81 32 49 - 10 5 14 20	129 26 103 1 45 5 18 34	100 49 51 4 19 4 15 9	151 27 124 5 13 33 25 48	140 38 102 7 22 36 36 1	106 27 79 6 22 22 28 1	94 31 63 7 3 20 28 5	121 47 74 7 26 18 18	132 98 34 5 1 11 13	58 34 24 19 2 1	30 12 18 5 13	209 206 3 2 - -	39 20 19 17 -	55 14 41 37	3 3	22		
KEYPUNCH OPERATORS, CLASS A MANUFACTURING NONMANUFACTURING PUBLIC UTILITIES WHOLESALE TRADE FINANCE	214 354 60	40.0 39.0 39.5 39.5	196.50 180.50 244.00 179.00	193.00 174.50 262.50 168.50	160.50-201.50 181.50-211.00 156.00-191.00 201.00-280.00 159.50-211.50 150.50-181.00	:	6	:	7 - 7 - 6	30 30 - 2 6	12 4 8 - 6	38 9 29 - 6 10	48 10 38 3 12 9	54 13 41 1 7 14	62 10 52 3 3	78 29 49 3 6 18	84 54 30 1 1	36 23 13 8 2	24 11 13 -	26 25 1	11 3 8 8	49 14 35 33	1 1	2 2		
KEYPUNCH OPERATORS, CLASS B MANUFACTURING NONMANUFACTURING PUBLIC UTILITIES WHOLESALE TRADE FINANCE	471 498 62	40.0 39.0 39.0 39.5	189.50 143.50 197.00 135.00	190.50 142.00 199.50 128.50	128.00-203.50 140.50-239.00 122.00-154.50 160.50-213.00 119.50-153.00 123.00-154.00	6	32 6 26 - 18 6	43 7 36 - 10 2	74 32 42 - 10 8	99 26 73 1 43 12	88 45 43 4 19	113 18 95 5 7 15	92 28 64 4 10 27	52 14 38 5 15 14	32 21 11 4	43 18 25 4 20	48 44 4 -	22 11 11 11	5 5 -	183 181 2 2	28 17 11 9	6 4 -	2 2			

Table A-2. Weekly earnings of professional and technical workers in Pittsburgh, Pa., January 1977

					earnings 1 ndard)	Numl	per of	worke	rs rec	eiving	straig	ght-tir	ne we	ekly ea	rning	s of—										
Occupation and industry division	Number of workers	Average weekly hours ¹ (standard	١,,,		Middle range²	and under	100	120 - 140	140	160	180	200	- 220	240	260	280	300	320	340	360	380	400	440	-	-	-
ALL WORKERS																										
COMPUTER SYSTEMS ANALYSTS (BUSINESS)	506	40.0 39.0 39.5 37.5	383.00 330.00 327.50 334.00	379.50 326.50 328.50 331.00	\$ \$ \$ 311.50-416.00 322.00-437.50 297.50-359.00 295.50-363.50 311.00-357.00 292.50-348.50	:		:	:	:	:::::::::::::::::::::::::::::::::::::::	12 3 9 - 5	3 3 -	19 14 5 3 2	46 28 18 1 5 8		75 47 28 4 15	77 37 40 4 23 8	82 47 35 4 18 3	79 54 25 4 11	51 41 10 2 1	82 13 1 5	59 56 3 -	38 37 1	19	
COMPUTER SYSTEMS ANALYSTS (BUSINESS), CLASS A MANUFACTURING NONMANUFACTURING	208 147 61	40.0	422.50	409.50	365.50-439.00 374.00-460.00 345.50-403.00	-	:	:	:	:	:	:	:	:	1 1	3 3	7	10	22 14 8	42 23 19	23 16 7	49 36 13	20 18 2	14 13 1		
COMPUTER SYSTEMS ANALYSTS (BUSINESS), CLASS 8	250	40.0	378.50	370.50	309.00-398.50 315.00-438.50 294.00-343.50	-	:	:	:	:	:	7 3 4	1	3	29 13 16	38 19 19	58 32 26	54 27 27	46 21 25		20 17 3		27 26 1		9	
COMPUTER SYSTEMS ANALYSTS (BUSINESS), CLASS C	130 109				270.50-379.50 277.50-389.50		:	:	:	:	:	5	2 2	15 11	16 15	13	10	13 10	14 12	10 10	8 8		12		:	
OMPUTER PROGRAMMERS (BUSINESS) MANUFACTURING NONMANUFACTURING	194	39.5 39.0 40.0 37.5	274.00 224.50 236.00 254.00	271.50 215.50 258.50 245.00	185.00-285.00 231.00-307.50 178.50-259.00 189.50-259.00 230.00-279.00 166.00-195.50	=	5 - 5	-	23 6 2 15	67 16 51 - 3 48	63 7 56 17 6 31	39 13 26 1 10 7	53 18 35 2 23 10	16	58 32 26 3 15 4	41 25 16 2 7 3	15	31 20 11 3 6	6 5 1 - 1	6 6	3	9 4 5 1 2 2	3 2 1 - 1			
COMPUTER PROGRAMMERS (BUSINESS), CLASS A MANUFACTURING NONMANUFACTURING	90	39.5	302.00	295.50	251.00-320.50 259.00-324.00 238.50-310.00	-	:	:	:	:	13 4 9	4-4	12 2 10	32 23 9	24 9 15	19 11 8	22 12 10	22 14 8	2 2	4	4 1 3	9 4 5	3 2 1	5 5	1111	
COMPUTER PROGRAMMERS (BUSINESS), CLASS B MANUFACTURING NONMANUFACTURING	231 94 137	39.5	252.00	260.00	183.00-269.50 207.00-286.00 183.00-258.50	-	:	:	13	36 16 20	20	25 11 14	33 16 17	31 3 28	31 20 11	19 13 6	8 4 4	9 6 3	4 3 1	2 2	-	:	:	:	:	
COMPUTER PROGRAMMERS (BUSINESS), CLASS C NONMANUFACTURINGSERVICES	104 94 58	39.5	181.00	166.00	166.00-200.50 166.00-193.50 152.00-166.00	-	5 5 5	2 2	10 10 10	31 31 30	30 27 8	10 8 -	8 8	1 -	3	3 2 2	1 1 1	:	Ξ	:	:	:	:	:	:	
OMPUTER OPERATORS	281 359 35 61	39.5 39.0 39.0 40.0 37.5	214.50 195.00 263.50 186.00 189.00	212.00 187.50 273.50 187.50 182.50	167.00-233.00 180.50-241.50 160.50-225.00 232.00-291.00 146.00-187.50 160.50-219.00 146.00-194.00	:	5	6	16	111 45 66 1 4 33 22	51 72 1 24	68 36 32 4 2 22 2	5		4	8	15 6 9 6 - 1 2	11 6 5 2 3	2 2							

Table A-2. Weekly earnings of professional and technical workers in Pittsburgh, Pa., January 1977—Continued

					earnings 1 ndard)	Numb	er of v	vorker	s rece	iving	straig	ht-tim	ne wee	kly ea	rnings	of—										
Occupation and industry division	Number of workers	Average weekly hours I (standard	Mean 2	Median 2	Middle range 2	and under	100		140	160	-	200	220	240	260	280	-	320	-	360	-	400	\$ 440 - 480	\$ 480 - 520	•	
ALL WORKERS CONTINUED		3																								
COMPUTER OPERATORS - CONTINUED																										
COMPUTER OPERATORS, CLASS A MANUFACTURINGNONMANUFACTURING	179 82 97	39.5	255.50	256.50	\$ 213.00-275.50 220.50-286.50 208.00-255.50	-	Ξ	:	:	12 1 11	21 10 11	17 6 11	44 18 26	29 11 18	18 5 13	20 17 3	9 6 3	7 6 1	5	:		=	:	=	:	
COMPUTER OPERATORS, CLASS B MANUFACTURING NOMANUFACTURING	340 161 179 55 51	39.5 39.0 40.0	203.50 186.00 178.00	199.00 181.50 184.00	167.00-218.50 179.00-231.50 149.00-197.00 146.00-187.50 162.50-199.00	=	:	18 6 12	37 8 29 16	74 36 38 4 14	88 37 51 23 12	41 26 15 1	35 26 9 1 3	26 22 4 1	7 5 2 -	9 1 8 1	3	2 2	:	:			:	:	:	
COMPUTER OPERATORS, CLASS C	121 83				147.00-187.00 147.00-182.50		5	17 8	37	25 17	14	10	7 2	:	:	1	3	2	:	:	:	:	:	:	:	
DRAFTERS	2,174	40.0 39.5 38.0	273.50 229.00 246.50	282.00 240.00 222.50	198.00-320.00 230.50-336.50 150.00-300.00 205.50-298.00 130.00-300.00	35	-	126 66 60 60	109 35 74 5 68	115 59 56 11 44	259 166 93 24 60	208 110 98 31 61	241 146 95 46 44	321 209 112 19 87	289 187 102 3 90	395 259 136 9 125	362 203 159 25 118	272 179 93 2 88	479 402 77 3 74	136 72 64 19 45	20 16 4	13 9 4 -	:	:	:	
DRAFTERS, CLASS A	1,395 996 399 369	40.0	321.00	337.50	292.00-351.00 295.50-355.50 287.50-340.00 287.50-340.00	:	:	:	:	6 5	34 24 10 10	29 24 5 5	30 20 10 10	58 35 23 23	99 74 25 23	162 101 61 57	190 111 79 61	210 142 68 64	433 370 63 62	112 71 41 41	19 15 4	13 9 4	:	:	:	
DRAFTERS, CLASS B	949 440 509 430	40.0	283.00 253.50	283.00	240.00-303.50 251.50-311.50 207.00-300.00 190.00-292.00	-	:	25 25 25	45 45 45	17 17 17	32 7 25 24	29 9 20 17	79 47 32 27	123 65 58 50	119 49 70 60	175 100 75 68	172 92 80 57	62 37 25 24	46 32 14 12	24 1 23 4	1 -	:	:	:	:	
DRAFTERS, CLASS C	613 229	40.0 39.5	206.00	210.50 180.50	150.00-245.50 170.50-253.00 130.00-215.50 126.00-201.50	-	81 56 25 25	35	55 32 23 23	47 28 19 17	129 95 34 22	88 48 40 36	81 66 15 7	133 102 31 14	71 64 7 7	58 58	:	:	:	:			:	:	:	
DRAFTER-TRACERS	476 125				104.00-200.00		201	2	9	45 31	64 40	62 29	51 13	7	:	:	:	-	:	:	:	=	:	:	:	
ELECTRONICS TECHNICIANS		40.0	279.50 333.50	298.00	319.00-350.00 241.00-313.50 332.50-350.00 332.50-350.00	-	:	:	:	:	:	3	36 33 3	33 24 9 2	13 7 6 1	63 30 33 21	65 38 27 22	397 12 385 349	210 6 204 203	24 24 22	2	1 -	:	:	:	
PUBLIC UTILITIES	112 66 27	40.0	308.00	325.00	255.50-325.00 303.50-325.00 312.50-330.00	-	=	Ξ	=	:	:	:	21 3 -	8 5	5 2 -	15 5 1	26 17 16	34 34 10	3	:		:	:	:	:	
ELECTRONICS TECHNICIANS, CLASS C-	61	40.0	259.00	259.00	238.00-290.00	-	-	-	-	-	-	3	15	17	6	20	-	-	-	-	-	-	-	-	-	
REGISTERED INDUSTRIAL NURSES	247 220				217.50-275.50		-	-	11	4	25 24	41	22	36 33	56 49	42	5	1	3	-	1	-	-	-	•	

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

			rerage ean ²)			(me	rage an ²)				verage lean ²)
Sex, $^{\rm 3}$ occupation, and industry division	Number of workers	Weekly hours 1 (standard)	Weekly earnings l (standard)	Sex, 3 occupation, and industry division	Number of workers	Weekly hours 1 (standard)	Weekly earnings 1 (standard)	Sex, 3 occupation, and industry division	Number of workers	Weekly hours 1 (standard)	earnin
OFFICE OCCUPATIONS - MEN		11111		OFFICE OCCUPATIONS -				OFFICE OCCUPATIONS -			
			\$	WOMENCONTINUED				WOMENCONTINUED			
ESSENGERS	140		159.50					TYPISTS - CONTINUED			
NONMANUFACTURING	80		155.00	SECRETARIES - CONTINUED			\$	TYPISTS - CONTINUED			\$
		W. SHITT		SECRETARIES, CLASS C	1,426		220.00	TYPISTS, CLASS B	960		
MANUFACTURING	248 158		235.00	MANUFACTURING	768 658		225.00	MANUFACTURING	382 578		
NONMANUFACTURING	90		224.50	PUBLIC UTILITIES	146		246.50	PUBLIC UTILITIES	26		
WHOLESALE TRADE	90		224.50	WHOLESALE TRADE	63		221.50	WHOLESALE TRADE	89		
WHOLESALE TRADE		37.63		FINANCE	197		193.50	FINANCE	324		
ORDER CLERKS, CLASS A	159	39.5	243.00	SERVICES	207		221.50	SERVICES	108		
MANUFACTURING	115		255.00	SERVICE							1
				SECRETARIES, CLASS D	1.714	39.0	188.50	FILE CLERKS	698	38.5	12
ORDER CLERKS, CLASS B	89	40.0	220.00	MANUFACTURING	791	39.5	200.00	MANUFACTURING	127		
		Into 0	2000	NONMANUFACTURING	923	38.5	179.00	NONMANUFACTURING	571		
CCOUNTING CLERKS	407	39.5	251.50	PUBLIC UTILITIES	106	38.0	195.00	FINANCE	329	37.0	11
MANUFACTURING	242		269.00	FINANCE	379		166.00	SERVICES	81	40.0	11
NONMANUFACTURING	165		225.50	SERVICES	369	40.0	191.50			Mary.	
PUBLIC UTILITIES	37	39.0	273.50		100		1000	FILE CLERKS, CLASS A	99		
			1	STENOGRAPHERS	1.774		175.00	NONMANUFACTURING	73	38.5	14
ACCOUNTING CLERKS, CLASS A			270.00	MANUFACTURING	912		176.50		11 20	177.0	
MANUFACTURING	164		285.50	NONMANUFACTURING	862		173.00	FILE CLERKS, CLASS B	205		
NONMANUFACTURING	108	38.5	247.00	PUBLIC UTILITIES	270		200.50	MANUFACTURING	71		
				WHOLESALE TRADE	113		178.00	NONMANUFACTURING	134		
ACCOUNTING CLERKS, CLASS B	135		214.00	FINANCE	317		152.00	FINANCE	55	37.0	15
MANUFACTURING	78 57		234.50	SERVICES	127	38.5	162.00	ETLE CLEDKS CLASS S	394	38.5	111
NUMMANUFACTURING SEESEN	31	38.3	185.50	STENOGRAPHERS, GENERAL	710	20.0	173.50	FILE CLERKS, CLASS C	364		
AYROLL CLERKS	114	40.0	237.50	MANUFACTURING	335		175.00	FINANCE	231		
MANUFACTURING	98		238.00	NONMANUFACTURING	375		172.50	THAILCE	201	31.00	1.0
HARTON ACTONIZATION	,,,	40.00	250.00	PUBLIC UTILITIES	203		197.50	MESSENGERS	137	39.0	13
				WHOLESALE TRADE	61		152.50	MANUFACTURING	57		
				WINDERSALE THACE			20200	NONMANUFACTURING	80		
OFFICE OCCUPATIONS - WOMEN				STENOGRAPHERS, SENIOR	1.064	39.0	175.50		1	and the same	426
				MANUFACTURING	577		177.50	SWITCHBOARD OPERATORS	337		
		L. Nois	1	NONMANUFACTURING	487		173.50	MANUFACTURING	84		
ECRETARIES			214.50	WHOLESALE TRADE	52		208.50	NONMANUFACTURING	253		
MANUFACTURING	2,292		225.50	FINANCE	244		156.50	PUBLIC UTILITIES	52		
NONMANUFACTURING			202.50		93	39.0	171.50	SERVICES	122	39.5	14
PUBLIC UTILITIES	335		237.00							20 5	
WHOLESALE TRADE	213			TRANSCRIBING-MACHINE TYPISTS	168		137.50	SWITCHBOARD OPERATOR-RECEPTIONISTS-	569 205		
RETAIL TRADE	173		168.00		130		119.00	NONMANUFACTURING	364		
SERVICES	743		207.50		76	30.5	112.50	PUBLIC UTILITIES	36		
SEKAICES COLORES	143	3763	201.50	TYPISTS	1,373	30 5	142.50	WHOLESALE TRADE	105		
SECRETARIES, CLASS A	302	38.5	246.50	MANUFACTURING	582		152.00	FINANCE	60		
MANUFACTURING	188		263.00	NONMANUFACTURING	791		135.00	SERVICES	121		
NONMANUFACTURING	114		219.50		79		190.00	35.77.00		7.00	
Homelin Horonard				WHOLESALE TRADE	110		140.00	ORDER CLERKS	284	40.0	15
SECRETARIES, CLASS B	788	39.0	239.50		411		116.50	MANUFACTURING	130		
MANUFACTURING	420		249.00	SERVICES	160		157.50	NONMANUFACTURING	154	40.0	
NONMANUFACTURING	368		229.00			4.65		WHOLESALE TRADE	79	40.0	1 16
PUBLIC UTILITIES	74	39.0	269.00	TYPICTE CLASS A	413	39.0	167.50		1		
WHOLESALE TRADE	104		231.50	MANUFACTURING	200		170.50	ORDER CLERKS, CLASS B	256		
FINANCE	57	37.0	221.00	NONMANUFACTURING	213		164.50	MANUFACTURING	110		
SERVICES	91		217.00	PUBLIC UTILITIES	53	39.5	204.00	NONMANUFACTURING	146		
3EKAICE2				SERVICES	52				73		0 16

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

			rerage ean ²)			Ave (mea	an ²)				erage ean ²)
Sex, 3 occupation, and industry division	Number of workers	Weekly hours l (standard)	Weekly earnings ¹ (standard)	Sex, 3 occupation, and industry division	Number of workers	Weekly hours ¹ (standard)	Weekly earnings ¹ (standard)	Sex, 3 occupation, and industry division	Number of workers	Weekly hours 1 (standard)	Week earning (standa
OFFICE OCCUPATIONS - WOMENCONTINUED				OFFICE OCCUPATIONS - WOMENCONTINUED				PROFESSIONAL AND TECHNICAL OCCUPATIONS - MENCONTINUED			
CCOUNTING CLERKS	560	39.5	158.00 181.00	KEYPUNCH OPERATORS - CONTINUED			\$	COMPUTER PROGRAMMERS (BUSINESS) -			
NONMANUFACTURING	1,284	39.0	148.00 243.50	KEYPUNCH OPERATORS, CLASS A	548 205		184.00	COMPUTER PROGRAMMERS (BUSINESS),	77	39.5	\$
WHOLESALE TRADE	496	40.0	154.00	NONMANUFACTURING	343 49	39.5	177.50 237.00	NONMANUFACTURING	70		
FINANCE	165 159		154.50 152.50	WHOLESALE TRADE	52 111		179.00	COMPUTER OPERATORS	555 237		
ACCOUNTING CLERKS, CLASS A	484		199.50	KEYPUNCH OPERATORS, CLASS B	959		165.00	NONMANUFACTURING	318	39.0	197
MANUFACTURING	172 312	38.5	231.00	MANUFACTURING	469 490	39.0	189.00	WHOLESALE TRADEFINANCESERVICES	55 133	40.0	182
WHOLESALE TRADEFINANCE	126 54 80	39.0	189.50 170.50 161.50	PUBLIC UTILITIES	152 99	39.5	191.00 135.00 137.00		7.75	17 746	15%
ACCOUNTING CLERKS. CLASS 8	1.360		143.00	FINANCE	,,,	31.63	13100	COMPUTER OPERATORS, CLASS A MANUFACTURING	168 77 91	39.5	256
MANUFACTURING	200	39.5	159.00	PROFESSIONAL AND TECHNICAL					307		1
PUBLIC UTILITIES		40.0	238.00	OCCUPATIONS - MEN				COMPUTER OPERATORS, CLASS B MANUFACTURING	140	39.5	205
FINANCE	85	37.0	118.50 148.00	COMPUTER SYSTEMS ANALYSTS				COMPUTER OPERATORS, CLASS C	80	38.5	17
SERVICES	115	1110	137.50	(BUSINESS) MANUFACTURING NONMANUFACTURING	644 461 183	40.0	371.50 386.50 332.50	NONMANUFACTURING	3,230	12720	
OKKEEPING-MACHINE OPERATORS MANUFACTURING NONMANUFACTURING	210 77 133	39.0	138.00 140.50 136.50	FINANCE	68	37.5	337.00	MANUFACTURING	2-080	40.0	27
WHOLESALE TRADE	58		151.50	COMPLITED SYSTEMS ANALYSTS		37.53	311.50	PUBLIC UTILITIES	122	38.0	265
BOOKKEEPING-MACHINE OPERATORS,	177	39.0	133.50	(BUSINESS), CLASS A	200 142	40.0	411.00			1000	
MANUFACTURING	68 109	38.5	139.00	NONMANUF ACTURING	58	39.0	378.00	DRAFTERS, CLASS A	985 384	40.0	32
CHINE BILLERS	137	39.0	153.50	COMPUTER SYSTEMS ANALYSTS (BUSINESS), CLASS B	339		360.50		100000	5.10	1.83
MANUFACTURING	81 56	39.0 39.5	140.00 173.50	MANUFACTURING	229 110		381.50	DRAFTERS, CLASS B	899 431	40.0	283
BILLING-MACHINE BILLERS	89		161.50	COMPUTER SYSTEMS ANALYSTS	105	30.5	331.00	NONMANUFACTURING	468 391		
YROLL CLERKS	333	333	136.00	(BUSINESS), CLASS C	90		341.00	DRAFTERS, CLASS C	740 562		200
MANUFACTURING	211 122	39.5	176.00 167.00 190.50	COMPUTER PROGRAMMERS (BUSINESS)	377 157		253.50 280.50	NONMANUFACTURING	178	40.0	19
PUBLIC UTILITIES	32		233.00	NONMANUFACTURING	220	39.0	234.50	DRAFTER-TRACERS	222	1	
PUNCH OPERATORS	674	39.5	172.00	COMPUTER PROGRAMMERS (BUSINESS)		,,,,,		MANUFACTURING	1111	40.0	19
NONMANUFACTURING	833	39.0	157.00	CLASS A	145	39.0	295.50	ELECTRONICS TECHNICIANS	820		1.
PUBLIC UTILITIES WHOLESALE TRADE RETAIL TRADE	204 159	39.5	146.00	NONMANUFACTURING	66	38.5	284.00	MANUFACTURING	150	40.0	27
FINANCESERVICES	210 156	37.5	152.00	COMPUTER PROGRAMMERS (BUSINESS),	155	39.5	246.50	PUBLIC UTILITIES	594		33
VE.11 & VEV		3,.5	-50,50	MANUFACTURING	71	39.5	258.00	ELECTRONICS TECHNICIANS, CLASS B-	66	40.0	29
								PUBLIC UTILITIES	27	40.0	31

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

			rerage ean ²)		151	Ave (me	erage an ²)			Ave (me	erage ean ²)
Sex, 3 occupation, and industry division	Number of workers	Weekly hours 1 (standard)	Weekly earnings ¹ (standard)	Sex, 3 occupation, and industry division	Number of workers	Weekly hours 1 (standard)	Weekly earnings 1 (standard)	Sex, 3 occupation, and industry division	Number of workers	Weekly hours 1 (standard)	Weekly earnings (standard)
PROFESSIONAL AND TECHNICAL OCCUPATIONS - WOMEN				PROFESSIONAL AND TECHNICAL OCCUPATIONS - WOMENCONTINUED				PROFESSIONAL AND TECHNICAL OCCUPATIONS - WOMENCONTINUED			\$
COMPUTER SYSTEMS ANALYSTS (BUSINESS)	72	39.0	\$ 334.00	COMPUTER PROGRAMMERS (BUSINESS) - CONTINUED				MANUFACTURING	432 85		150.50
COMPUTER PROGRAMMERS (BUSINESS) NONMANUFACTURING	130		214.50	CLASS B	76		\$ 209.00	DRAFTERS, CLASS B	50		170.50
			1	NONMANUFACTURING	53	39.0	199.00	DRAFTERS, CLASS C	102	40.0	150.00
				COMPUTER OPERATORS	85	39.0	185.00	REGISTERED INDUSTRIAL NURSES	245 218		244.50

Table A-4. Hourly earnings of maintenance, toolroom, and powerplant workers in Pittsburgh, Pa., January 1977

			Hourly ea	mings 4	Num	ber of	worke	rs rec	eiving	straig	ht-tin	ne hou	rly ea	rnings	of—				0.00	111	200		0				
Occupation and industry division	Number of workers	Mean ²	Median ²	Middle range ²	Unde \$ 4.80	and under	5.00	5.20	-	5.60	5.80	6.00	6.20	-	\$ 6.60 - 6.80	-	7.00	7.20	7.40	-	-	-	-	-	-	-	and
ALL WORKERS																	10,000										
MAINTENANCE CARPENTERS	529 397 132 49	5 7.24 7.15 7.49 6.98	7.19 7.08	6.75- 7.60 6.58- 8.31	:	8	4	24 24	17 17 -	5	8	30 24 6	20 13 7	24 5 19 17	7 4 3 3	31 28 3	118 90 28 22	37 36 1	47 44 3 3	6 4 2	20 17 3	16 4 12 3	74 74 -	2	:	25	
MAINTENANCE ELECTRICIANS MANUFACTURING NONMANUFACTURING PUBLIC UTILITIES		7.32 7.28 7.64 7.39	7.47	6.64- 7.94 7.05- 8.18		2	4	:	62 55 7	6	95 95 -	97 96 1	111 108 3	48 42 6	127 111 16 5	122 107 15	112 56 56 50	123 100 23 23	374 367 7 7	58 50 8	198 192 6 1	80 60 20 20	111	73 73 -	30 28 2	26	3 2
MAINTENANCE PAINTERS	242 184 58	6.78 6.78 6.78	6.78	6.38- 6.97	' '	9	3	6 3 3	9 8 1	12 4 8	9	11 11	14 14	25 25	25 20 5	52 42 10	3 2 1	1	22 18 4	10	:	6 2 4	16 12 4	5	:	:	
MAINTENANCE MACHINISTS MANUFACTURING NONMANUFACTURING	1,937 1,823 114		8.06	7.47- 8.45		: :	:	64 64	11 11	16 16	39 30 9	66 66	3	48 48	41	56 56	68 9 59	10 9 1	295 290 5	124 94 30	143 141 2	121 114 7	749 749	38 38	24 24	:	2
MAINTENANCE MECHANICS (MACHINERY) -	2,291	7.06 7.05				8 -	5	5	78 78	80 79	110 110	237 236	50 50	90 84	227	121 120	188 186	392 337	144 126	116 116	88 88	91 91	135 135	68 68	34 34	6	1
MAINTENANCE MECHANICS (MOTOR VEHICLES)		7.36	7.41	7.11- 8.04 6.69- 7.97	2	-	:	6	14	1 -	46 21 25 1	18 10 8 2	5 4 1 -	40 26 14 13	18 18 16	16 3 13 12	13 8 5 1	51 35 16 12	98 88 10 9	33 18 15 15	135 6 129 128	62 58 4	21 18 3 3	39 13 26 25	19 2 17 17	6	
MAINTENANCE PIPEFITTERS MANUFACTURING NONMANUFACTURING	971 921 50 25	7.11	7.23	6.63- 7.58	3	_	:	7 6 1	:	15 15	33 33	75 64 11	55 55 -	19	46 38 8	42 42 -	151 140 11 10	167 150 17 15	135 134 1	53 53	5	51 51	50 50	9 8 1	4	:	1
MAINTENANCE SHEET-METAL WORKERS	153 124					: :	:	:	:	5	50 49	20 20	7	8	5	19 19	10	8	10	:	3	:	2 2	4	5	:	
MAINTENANCE TRADES HELPERS MANUFACTURING NONMANUFACTURING PUBLIC UTILITIES	952 124	5.85	6.62	6.40- 6.96 5.76- 6.13	3	1 2	8 6 2 1	4 4	13 13 13	31 31 27	76 59 17 17	105 52 53 53	131	125 124 1	249 249	137 137	30 30 -	80 80	30 30 -	38 38	2 -	8	6	:	:	:	
MACHINE-TOOL OPERATORS (TOOLROOM) -						6 -	:	:	3	:	90 90	- :	24 24	50 50	105 105	2	27 27	20	:	32 32	15 15	26 26	17 17	28 28	4	:	
TOOL AND DIE MAKERS						: :	:	:	36 36	:	:	87 87	78 78	1	50 50	48 48	6	21 21	41 41	26 26	57 57	6	20 20	153 153	:	:	
STATIONARY ENGINEERS	230 257	7.35	7.29	6.67- 7.9	7	4 -	:	:	16 16	17 3 14 14	8	4 4 -	5 4 1 1	29 16 13 13	77 20 57	17 12 5 4	19 14 5 4	34 29 5 5	53 12 41 24	66	51 44 7	39 39	32 32 -	:	8	8 8 -	
BOILER TENDERS	264 256					: :	12		8	:	10 10	74 74	78 70	22	12 12	24 24	8	16 16	:	:	:	:	:	:	:	:	

Table A-5. Hourly earnings of material movement and custodial workers in Pittsburgh, Pa., January 1977

			Hourly ear	mings 4	Numb	er of v	worke	rs rec	eiving	straig	ht-tim	e hour	ly ear	Section 1													
Occupation and industry division	Number of workers	Mean ²	Median ²	Middle range ²	and under	-	-	2.80	-	3.20	3.40	3.60	3.80	4.00	4-20	4.40	-	5.00	5.40	5.80	6.20	6.60	7.00	-	-	-	
ALL WORKERS																										-	
MANUFACTURING	1,309	7.10 6.79 7.57 6.26 5.67	7.01 7.08 7.77 6.34 5.66	7.77- 7.7 5.90- 6.5 5.66- 6.3	77 -	-	1	4		20	4 - 4 4	67 4 63 - 19 44	12 12	12 12	11 11 11	6 - 6 - 5 -	62 12 50 1 31 18	162 84 78 61 16	204 39 165 2 47 95 3	331 93 238 60 160 18	635 156 479 52 262 88 77	199 100 99 59 40		1148 70 1078 1073 5	45 45 42 3	405 405 -	
RUCKDRIVERS, LIGHT TRUCK NONMANUFACTURING SERVICES		6.21		5.79- 7.7	7 -	:	1	4 4	Ξ	20 20 20	4 4	44 44 44	12	:	:	6	13 13	1 1	2	70 43	80 73 57	19	:	145 145	3	=	
TRUCKDRIVERS, MEDIUM TRUCK MANUFACTURING NONMANUFACTURING WHOLESALE TRADE RETAIL TRADE	288	6.29 6.26 6.35	6.40 5.90 6.50	5.39- 6.9 5.66- 7.0 5.90- 6.9	6 - 18 - 0 -	:	:	:	:	:	:	19	:::::::::::::::::::::::::::::::::::::::	12	:	:	13 13 -	104 77 27 12	146 25 121 4 95	205 29 176 154 15	120 15 105 84	105 70 35 30	117 16 101 75 6	113 44 69	::::	:	
TRUCKDRIVERS, HEAVY TRUCK (TRAILER)	157	7.15 7.70	6.53 7.77 7.77	6.53- 7.5 6.50- 7.7 7.77- 7.7	52 - 17 -	:			:	:	:	:	: : :	:	:		24 24 24	49	10 4 6 - 6	31 25 6 3	139 59 80 17 63	14 10 4 2	75 7 68 -	331 22 309 304 5	42 42 42	28 28 -	
TRUCKDRIVERS. HEAVY TRUCK (OTHER THAN TRAILER) MANUFACTURING NONMANUFACTURING: WHOLESALE TRADE	72	6.68	7.01	6.40- 7.0	-	:		: :	:	:	:	:	:	:	11	:	1 1 -	:	40 4 36	18 12 6	131 13	10 2	36 36	304		:	
MANUFACTURINGNONMANUFACTURING	222 83	5.40 5.15	5.15	4.71- 6.2	22 -	:	:	:	:	4	:	9 9	:	17 14 3	4 -	12 7 5 2	70 67 3	33 21 12 8	80 36 44 43	14 14 -	30 30 -	28 26 2	2 -	1 -	1 1 1	:	
CEIVING CLERKS	134 138 56	5.58 4.74 5.28	5.57 4.64 5.40	5.15- 6.2 4.23- 5.4 5.40- 5.4	0 -	:	:		9 - 9	:::::::::::::::::::::::::::::::::::::::	20 13 7 - 7	10 10 9	1 -	3 - 3		25 25 25	14 7 7 - 7	39 25 14 4 8	66 34 32 30 2	20 7 13 12 1	41 40 1 -	7 6 1	2 -	:	1 1 1	:	
IPPING AND RECEIVING CLERKS MANUFACTURINGNONMANUFACTURING	84	5.86	6.34	5.31- 6.3	36 -	=	:	:	1 1	=	7	3	1 1	1 1	5	3	14 12 2	11 10 1	25 15 10	13 - 13	56 42 14	3 2 1	1 1	2 2	=	:	
REHOUSEMEN	181 669 436	5.67 5.85 6.02	5.38 5.62 5.62	5.38- 5.4 5.50- 6.1	18 -	-		-	1 - 1	:	5 5	:	:	:	8 5 2	18 18 -	36 36 36	153 133 20 12 8	382 21 361 280 81	53 53 4 42	69 12 57 45 12	8 2 6 6	79 3 76 57	:	27 27 27	10	

Table A-5. Hourly earnings of material movement and custodial workers in Pittsburgh, Pa., January 1977—Continued

			Hourly ea	mings 4	Numb	per of	worke	rs rec	eiving	straig	ght-tin	ne hou	rly ea	rning	s of—							Tar.					
Occupation and industry division	Number of workers	Mean 2	Median ²	Middle range ²	and under	2.40	2.60	2.80	-	3.20	3.40	3.60	3.80	4.00	4.20	4.40	•	\$ 5.00 - 5.40	5.40	-	•	-	-		-	-	an
ALL WORKERS CONTINUED DRDER FILLERS NONMANUFACTURING	623 452		4.70	4.25- 5.59	-	=	:	:	:	2 2	17 17	46 46	110	21	68 68	15 14	115 105	71 52	87 78	64	3 2	4 1	:	:	:	:	
WHOLESALE TRADE		5.28 4.95 5.02 4.68	4.98 5.16	4.11- 5.55 4.11- 5.55	-	1 1	:	:	:	78 78	:	13	:	60 27 33	19	1 - 1	105 84 79 5	30 30	78 122 98 24	30 16 14	65 65	5 5	:	:	:	:	
MATERIAL HANDLING LABORERS MANUFACTURING NOMMANUFACTURING PUBLIC UTILITIES RETAIL TRADE	1,078		5.92 5.20 7.75	4.98- 6.71 3.90- 6.29 6.29- 7.7	1 -	-	14 - 14 - 5	36 36 36	66	15 15	68 68 62	13	132 75 57 57	139 139	134 57 77 77	38 24 14 -	215 193 22 -	203 79 124 40 75	132 49 83 6 44	244 220 24 3	193 74 119 119	111 102 9	46 46 -	122 6 116 116	197 125 72 72	28	
ORKLIFT OPERATORS		5.79 6.59 7.81	5.79 6.20 7.82	5.20- 6.49 5.46- 7.86 7.82- 7.86	-	:	:	:	:	:	91 91 -	:	:	41 40 1	10 10 -	136 136	135 128 7 - 6	261 250 11	236 222 14 -	214 207 7	299 269 30 -	224	108 106 2	29 22 7 7	48 4 44 44	6	2
POWER-TRUCK OPERATORS (OTHER THAN FORKLIFT)	740 729	6.62				:	:	:	:	:	=	:	:	:	:	-	97 97	37 37	87 87	5	81 70	38 38	347 347	14	6	:	2
GUARDS AND WATCHMEN	906	5.91 2.71 3.38 4.16	6.35 2.45 3.55 4.53	5.18- 6.43 2.30- 2.66 3.15- 3.55 4.53- 4.66	8 1073 2 12	660 5 9	44 2 42	27 27 4 	239 12 227 5 21 201	24 1 23 3	47 47 35	18 16 2 2	18 16 2 2	2 2 2	50 5 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	89 30 59 1 58	179 95 84 - 81 3	47 38 9 - 4	61 15 46 -	67 59 8 -	515 515	48	32 30 2	1		:::::::::::::::::::::::::::::::::::::::	
GUARDS: MANUFACTURING	816	6.12	6.40	6.07- 6.4	3 -	-			6		-					25	83	38	15	55	515	48	30	1			
WATCHMEN: MANUFACTURING	90	4.02	3.90	3.70- 4.3	8	-	-	-	6	1	-	16	16	2	50	5	12	-	-	4	-	-	-	-	-	-	
JANITORS, PORTERS, AND CLEANERS MANUFACTURING	1,892 4,627 297 80 482 1,313	5.10 3.29 5.17 4.41 3.21 3.95	5.27 3.03 5.07 4.18 3.55 4.07	4.69- 5.70 2.40- 4.00 4.89- 5.40 4.05- 4.70 2.71- 3.50 3.99- 4.30	5 963 - 963 - 24 8 92	795 1 77	25 15	104 9 95 - 23 17 55	56 15 41 - 6 15 20	371 87 284 - 78 60 146	349 15 334 - 206 32 96	130 42 88 3 26 27 32	110 22 88 - 1 3 83 1	661 44 617 10 37 3 559 8	193 70 123 16 2 5 95	496 101 395 24 7 2 318 44	256 131 125 80 18 2	483 348 135 88 10 2 -	592 562 30 23	348 331 17 17	67 36 31 31	24 15 9 8 1					

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

Sex, 3 occupation, and industry division	Number of workers	Average (mean ²) hourly earnings ⁴	Sex, 3 occupation, and industry division	Number of workers	Average (mean ²) hourly earnings ⁴	Sex, 3 occupation, and industry division	Number of workers	Average (mean ² hourly earning
MAINTENANCE, TOOLROOM, AND POWERPLANT OCCUPATIONS - MEN			MATERIAL MOVEMENT AND CUSTODIAL OCCUPATIONS - MEN			MATERIAL MOVEMENT AND CUSTODIAL OCCUPATIONS - MENCONTINUED		
AINTENANCE CARPENTERS	529	\$ 7.24	TRUCKDRIVERS	3,511	\$ 6.93	SHIPPING PACKERS	361	\$ 5.2
MANUFACTURING	397		MANUFACTURING	1,051		MANUFACTURING	298	
NONMANUFACTURING	132		NONMANUFACTURING	2,460			63	5.1
PUBLIC UTILITIES	49	6.98	PUBLIC UTILITIES	1,307				
AINTENANCE ELECTRICIANS	1,895	7.32		740 260		MATERIAL HANDLING LABORERS	1,053	
MANUFACTURING	1,687			133			989	
NONMANUFACTURING	208				100	PUBLIC UTILITIES	351	
PUBLIC UTILITIES	123	7.39	TRUCKDRIVERS, LIGHT TRUCK	374		RETAIL TRADE	486	400
A THITCHIANCE DATHTEDS	242	6.78	NONMANUFACTURING	328 83		FORKLIFT OPERATORS	1,860	-
MANUFACTURING	184		SERVICES THE SERVICES	03	3.30	MANUFACTURING	1.737	
NONMANUFACTURING	58		TRUCKDRIVERS, MEDIUM TRUCK	954	6.27	NONMANUFACTURING	123	
			MANUFACTURING	288	6.29	PUBLIC UTILITIES	51	7.
AINTENANCE MACHINISTS	1,937		NONMANUFACTURING	666			65	5.
MANUFACTURING	1,823			359 148				
NUNHANUF ACTURING -	114	1.20	RETAIL TRADE CONTRACTOR	140	3.43	POWER-TRUCK OPERATORS (OTHER THAN FORKLIFT)	740	6.
AINTENANCE MECHANICS (MACHINERY) -	2,291	7.06	TRUCKDRIVERS, HEAVY TRUCK			MANUFACTURING	729	
MANUFACTURING			(TRAILER)	745	7.11	THE REPORT OF THE PARTY OF THE		-
			MANUFACTURING	157		GUARDS AND WATCHMEN		
INTENANCE MECHANICS	445	7 27	NONMANUFACTURING	588		MANUFACTURING	895	
MANUFACTURING	336	7.37	PUBLIC UTILITIES	368 205			2,160	
NONMANUFACTURING	329		WHOLESALE TRADE	203	0.20	FINANCE	173	
PUBLIC UTILITIES	282		TRUCKDRIVERS, HEAVY TRUCK		11.00	SERVICES	1,921	
			(OTHER THAN TRAILER)	551				
AINTENANCE PIPEFITTERS	971			72	6.68	GUARDS:		
MANUFACTURING	921 50		NONMANUFACTURING: WHOLESALE TRADE	80	6.01	MANUFACTURING	808	6.
PUBLIC UTILITIES	25			- 00	0.01	WATCHMEN:		
			SHIPPING CLERKS	297		MANUFACTURING	87	3.
AINTENANCE SHEET-METAL WORKERS	153		MANUFACTURING	214				
MANUFACTURING	124	6.45	NONMANUFACTURING	83 63	5.25	JANITORS, PORTERS, AND CLEANERS	4,163	
AINTENANCE TRADES HELPERS	1,076	6.60		- 00	3.23	MANUFACTURING	2,565	
MANUFACTURING	952	6.70	RECEIVING CLERKS	263	5.15	PUBLIC UTILITIES	183	
NONMANUFACTURING	124			127		WHOLESALE TRADE	72	4.
PUBLIC UTILITIES	115	5.88	NONMANUFACTURING	136 56			377	
ACHINE-TOOL OPERATORS (TOOLROOM) -	449	6.91	RETAIL TRADE	75			1,389	
MANUFACTURING	449						1,30,	-
			SHIPPING AND RECEIVING CLERKS	134				
OOL AND DIE MAKERS	628		MANUFACTURING	84				
MANUFACTURING	628	7.31	NONMANUFACTURING	50	5.82	ORDER FILLERS	256	4.
TATIONARY ENGINEERS	487	7.30	WAREHOUSEMEN	847	5-81	SHIPPING PACKERS	147	4.
MANUFACTURING	230		MANUFACTURING	181		SHIPPING PACKERS	141	7.
NONMANUFACTURING	257	7.26	NONMANUFACTURING	666	5.85	GUARDS AND WATCHMEN	168	2.
SERVICES	69	6.67	WHOLESALE TRADE	436	6.02			
ALLES TEMPERS	200		RETAIL TRADE	203	5.35	JANITORS, PORTERS, AND CLEANERS	2,356	
OILER TENDERS	264 256	6.32	ORDER FILLERS	367	5.02	MANUFACTURING	2,062	
MANOT ACTURING	230	0.32	NONMANUFACTURING	324		RETAIL TRADE	105	
	1		WHOLESALE TRADE	196		FINANCE	769	
	1	1			1	SERVICES	1,066	

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

Industry and occupational group 5	January 1972 to January 1973	January 1973 to January 1974	to	January 1975 to January 1976	to
All industries:					
Office clerical	6.7	5.9	11.1	9.7	8.0
Electronic data processing		(6)	11.3	6.7	8.4
Industrial nurses		6.9	13.1	9.5	8.7
Skilled maintenance trades	6.3	7.5	13.7	9.3	8.0
Unskilled plant workers	6.8	7.2	11.3	9.2	8.1
Manufacturing:					
Office clerical	6.9	5,8	12.7	10.0	8.5
Electronic data processing	(⁶) 7.4	(6)	12.0	5.7	10.4
Industrial nurses	7.4	6.9	13.5	9.6	8.5
Skilled maintenance trades		7.6	14.4	9.4	8.0
Unskilled plant workers	6.0	7.9	14.5	10.3	8.8
Nonmanufacturing:					
Office clerical	6,3	6,0	9.3	9.4	7.5
Electronic data processing	(°)	(6)	10.1	8.3	6.0
Industrial nurses		(°)	(6)	(6)	(6)
Unskilled plant workers	8.3	6.2	6.6	7.9	7.4

Table A-8. Weekly earnings of office workers-large establishments in Pittsburgh, Pa., January 1977

					earnings 1 ndard)	Numbe	er of v	vorker	s rece	eiving	straig	ht-tim	ne wee	kly ea	rning	s of—										
Occupation and industry division	Number of workers	Average weekly hours ¹ (standard	l ., ,		Middle range 2	80 and under	90	100	110	120	130	140	150	-	170	\$ 180 - 200	-	220	240	260	280	-	-	-	360	а
ALL WORKERS																										
MANUFACTURING	242 164	39.5 39.0 39.0 40.0 37.5	231.50 209.00 249.50 168.50 189.50	234.50 207.00 246.00 162.00 185.00	\$ \$ 189.00-256.50 200.00-260.00 179.50-228.00 220.00-283.50 144.00-191.00 169.00-209.00 201.50-228.00	:		5 5	10 6 4 - 4	13 5 8 - 8	36 9 27 17 9	93 30 63 2 30 26 5	119 65 54 4 17 30	172 79 93 15 20 53	179 83 96 5 15 65	16 24 127	571 292 279 19 17 74 161	549 328 221 40 3 41 128	501 396 105 40 5 15 43	376 308 68 37 2 7 14	161 129 32 20 2 3 5	86 48 38 25 - 2 7	26 18 8 8	14 5 9 6	9544	;
SECRETARIES, CLASS A	155 129				272.00-314.00 276.00-314.00	:	:	Ξ	-	Ξ	-	4	-	Ξ	-	2	1	5 2	12	24 20	43 36	32 30	10	5	6	
SECRETARIES, CLASS B MANUFACTURING NONMANUFACTURING PUBLIC UTILITIES	567 382 185 47	39.5 39.0	255.00	262.00	230.00-277.50 231.50-277.50 223.00-277.50 269.00-315.00	:	:	:	:	:	4	4	6	6 1 5	1 1	39 27 12	30 14 1	94 61 33 3	103 59 44 3	140 113 27 10	75 68 7 5	32 12 20 15	9 5 4 4	5 5 3	3 3	
SECRETARIES, CLASS C	744 463 127 121	39.5 39.0 38.5 37.5	227.50 222.50 251.00 204.50	233.00 227.50 248.00 208.00	202.50-248.50 200.50-255.50 205.50-237.00 229.50-268.00 187.00-215.50 227.50-228.30	:	:		4	3	1	11 11 1	24 17 7	37 30 7 -	40 25 15 1 4	157 108 49 11 36	116 96 13 52	306 143 163 21 21 114	216 175 41 29 4 8	136 108 28 25	31 14 17 12 - 5	18 2 16 10 -	7 3 4 4	3 1 1 -		
SECRETARIES, CLASS D	674	39.5 39.0 40.0	204.00 186.00 200.50	212.50 187.00 199.50	170.00-214.50 176.00-227.50 166.00-207.00 163.50-226.00 195.00-207.50		:	5	6	9 5 4 -	30 5 25	74 26 48 2 5	86 48 38 4	123 48 75 15 4	132 56 76 4 9	280 96 184 5 85	311 144 167 5 142	142 120 22 13 9	89 73 16 8 8	44 35 9 2 7	9 7 1 1	:		:		
ENOGRAPHERS MANUFACTURING NONMANUFACTURING PUBLIC UTILITIES	1,427 873 554 228	39.5 38.5	178.50	173.50	152.00-204.00 154.50-206.50 144.50-196.00 176.00-228.00	:	:	14 12 2	21 10 11	48 21 27 1	99 44 55 9	147 75 72 7	155 120 35 2	181 99 82 22	198 147 51 18	172 80 92 49	193 158 35 29	120 74 46 45	39 33 6 6	12	28 28 28	:	:	:	:	
STENOGRAPHERS, GENERAL MANUFACTURING NOMMANUFACTURING PUBLIC UTILITIES	575 307 268 164	40.0 38.5	179.00	176.50	145.00-206.50 149.00-206.50 140.00-222.50 170.00-258.50	:	:	14 12 2	19 10 9	25 4 21 1	56 21 35 9	54 33 21 7	36 25 11 2	38 10 28 22	61 45 16 12	69 34 35 25	95 79 16 12	52 23 29 29	16 11 5 5	12 12 12	28 28 28	:	:	:	:	
STENOGRAPHERS, SENIOR MANUFACTURING NONMANUFACTURING	852 566 286	39.5	178.50	172.00	154.50-193.50 155.50-202.50 146.00-188.00		:	:	2 - 2	23 17 6	43 23 20	93 42 51	119 95 24	143 89 54	137 102 35	103 46 57	98 79 19	68 51 17	23 22 1	:	:	:	:	:	:	
PISTS MANUFACTURING NONMANUFACTURING PUBLIC UTILITIES	655 404 251 77	40.0 38.5	161.50	146.00	121.00-181.50 129.00-186.50 114.00-160.00 159.00-193.50		1	55 30 25	98 28 70	80 48 32 1	69 55 14	71 55 16 7	44 12 32 23	20 11 9 9	30 17 13 8	87 65 22 11	35 32 3 3	42 40 2 2	10	1 1		12 12 12	:	:	:	
TYPISTS+ CLASS A	262 176 86 56	40.0	176.50	181.50	143.00-193.50 142.50-199.00 150.50-185.00 160.00-222.50		:	:	:	28 15 13	23 18 5	34 32 2	25 6 19 16	10 5 5 5	17 7 10 6	64 50 14 11	16 13 3 3	27 25 2 2	5 -	1 1	:	12 12 12	:	:	:	

Table A-8. Weekly earnings of office workers-large establishments in Pittsburgh, Pa., January 1977 — Continued

					earnings 1 dard)	Numbe																				
Occupation and industry division	Number of workers	Average weekly hours ¹ (standard)	Mean 2	Median č	Middle range 2	80 and under	90	100	110	120	-	140	150	160	-	180	200	-	240	260	280	300	320	-	360 - 380	38 and
ALL WORKERS CONTINUED						70_	100	110	120	130	140	150	100	110	100	200	220	240	200	200	500	320	340	300	300	0
TYPISTS - CONTINUED																										
TYPISTS, CLASS B MANUFACTURING NONMANUFACTURING	393 228 165	40.0	150.00	134.50	\$ 113.00-154.00 119.50-175.50 112.00-143.50		1	55 30 25	98 28 70	52 33 19	46 37 9	37 23 14	19 6 13	10 6 4	13 10 3	23 15 8	19 19	15 15	5	=	:	Ξ	:	:	Ξ	
FILE CLERKS MANUFACTURING NONMANUFACTURING	385 111 274	39.5	173.50	168.50	110.50-156.50 136.00-190.50 110.50-132.50	:	36 36	27 27	99 13 86	57 13 44	36 3 33	21 8 13	16 7 9	15 12 3	18 11 7	21 17 4	8 3 5	13 12 1	10	7 3 4	1 1	Ξ	:	:	=	
FILE CLERKS, CLASS B MANUFACTURING NONMANUFACTURING	113 62 51	39.5	171.50	166.50	127.50-181.50 149.00-182.00 115.50-139.50		:	12	6 3 3	15 6 9	17 2 15	11 7 4	6	11 10 1	5	13 11 2	8 3 5	6	3	=	:	=	:	:	Ξ	
FILE CLERKS, CLASS C	227 195		119.50 115.50	114.00	110.50-123.00	:	36 36	15 15	93 83	41 34	14 13	8	5	1	7	7	Ξ	-	Ξ	Ξ	:	:	:	1	-	
MESSENGERS	105	38.5	154.50 152.50	134.00	121.00-165.50 124.50-202.00 120.00-151.00 130.00-279.00	-	:	12 5 7	32 14 18	41 28 13 6	30 11 19 10	24 4 20	9 2 7 4	9 6 3 1	5 2 3	2 -	15 15 -	12	1 1	5 5	9 9 9	:	:	:	:	
SWITCHBOARD OPERATORS MANUFACTURING NOMMANUFACTURING PUBLIC UTLITIES	78	39.5 39.0	214.00	222.00	159.00-231.50 182.50-248.00 139.50-214.00 195.50-257.50	:	:	1	:	5	26 26	4 3 1	13 7 6	9 - 9	15 7 8 5	33 12 21 6	28 10 18 16	14 11 3	42 27 15 15	:	1 -	:	:	:	:	
SWITCHBOARD OPERATOR-RECEPTIONISTS-	68	40.0	167.50	167.00	138.00-187.50	-	1	-	6	5	7	5	3	12	5	11	6	3	3	1	-	-	-	-	-	
ORDER CLERKS					124.50-284.50 124.50-133.50		1	2	5	50 50	6	2	1	-	2	9 6	20	3	6	20	49	10	3	Ξ	:	
ORDER CLERKS, CLASS B	83	40.0	154.00	124.50	124.50-193.50	-	1	2	2	48	5	1	1	-	-	5	6	3	4	4	1	-	-	-	-	
ACCOUNTING CLERKS	523 468 76	40.0 39.0 39.0	233.50 168.50 258.00	246.00 153.00 271.50	139.00-272.50 176.00-285.50 124.50-196.50 224.50-285.00 124.50-158.00	1	6	37 7 30 - 26	38 16 22 -	106 9 97 - 88	64 23 41 -	41 20 21 -	53 13 40 -	55 25 30 1 15	52 25 27 2 13	79 40 39 3 18	67 28 39 9		55 48 7 5	84 65 19	104	63 47 16 14	19 17 2 2	3		
ACCOUNTING CLERKS, CLASS A MANUFACTURING NONMANUFACTURING PUBLIC UTILITIES	275 131	40.0 38.5	270.00	284.00	203.00-293.50 246.00-298.00 172.00-271.00 285.00-303.50	=	:	:	1	3	1	7	8 8	13 4 9	21 4 17	44 21 23	39 18 21		25 24 1	49 40 9	85 14	56 44 12 10	19 17 2 2	3	:	
ACCOUNTING CLERKS, CLASS B MANUFACTURING NOMMANUFACTURING PUBLIC UTILITIES RETAIL TRADE	248 337 47	40.0 39.5 39.5	193.00 151.00 236.00	173.50 135.50 228.00	124.50-201.50 144.00-240.50 124.50-165.50 213.50-262.50 121.00-138.00	1	6	37 7 30 - 26	37 16 21 -	103 9 94 - 86	63 23 40 -	34 20 14 - 8	45 13 32 -	42 21 21 1 8	31 21 10 2 4	35 19 16 3 7	28 10 18 9 4	13	30 24 6 5		19		:	:	:::	
PAYROLL CLERKS	178	40.0	215.00	231.00	133.00-258.00 148.50-258.00 127.00-223.50	-	:	=	:	53 34 19	10 8 2	3	5	1 3	8 3 5	21 8 13	25 19 6	13 10 3	49 48 1	32 23 9		9 8 1	1 1 -	:	:	

Table A-8. Weekly earnings of office workers-large establishments in Pittsburgh, Pa., January 1977—Continued

					earnings 1	Numb	er of v	vorker	s rece	eiving	straig	ht-tin	ne wee	kly ear	rnings	s of—										
Occupation and industry division	Number of workers	Average weekly hours 1 (standard	Mean 2	Median 2	Middle range 2	80 and under	90	100	\$ 110 -	120	130	140	150	160	170	180	200	220	240	260	\$ 280 -	300	320	340 -	360	38 and
							100	110	120	130	140	150	160	170	180	200	220	240	260	280	300	320	340	360	380	ove
ALL WORKERS CONTINUED																										
EYPUNCH OPERATORS	990 540 450	40.0	205.00	206.00	157.50-231.50 182.00-239.00 148.50-185.50	-	12	4	21 5 16	11	43 15 28	80 19 61	102 28 74	78 20 58	89 28 61	213 131 82	54 37 17	208 206 2	31 20 11	39 14 25	3	5	=	=	:	
PUBLIC UTILITIES	87 147	39.0	217.00	206.00	173.50-267.50 144.00-178.00	-	:	=	5	1 5	4	3 29	6 32	22	7 20	12	13	1 -	11	25	:	:	:	-	=	
KEYPUNCH OPERATORS, CLASS A MANUFACTURING NONMANUFACTURING PUBLIC UTILITIES	438 193 245 40	40.0 39.0	200.00	193.50	169.00-202.50 185.50-211.50 162.50-190.00 196.50-280.00	-	6	=	5	4 - 4	12 4 8	25 9 16	22 3 19 3	42 6 36 1	57 7 50 3	152 79 73 4	40 34 6 2	26 25 1	5 3 2 2	39 14 25 25	1	2 -	:	:	:	
KEYPUNCH OPERATORS, CLASS B MANUFACTURING NONMANUFACTURING	552 347 205 47	40.0 39.0	207.50	234.00	150.00-239.00 175.50-239.00 140.00-162.00 161.00-213.00	-	6	4	16 5 11	7 7 1	31 11 20	55 10 45	80 25 55	36 14 22	32 21 11	61 52 9	14 3 11	182 181 1	26 17 9	:	5	:	:	:	:	

Table A-9. Weekly earnings of professional and technical workers—large establishments in Pittsburgh, Pa., January 1977

					earnings l dard)									kly ea						_						_
Occupation and industry division	Number of workers	Average weekly hours ! (standard)	Mean 2	Median 2	Middle range²	and under	120	140	160	180	-	220	-	260	280	300	320	340	360	380	400	-	-		-	
ALL WORKERS						120	140	100	100	200	220	240	200	200	500	324	340	300	300	400	420	770	400	320		
MPUTER SYSTEMS ANALYSTS BUSINESS) MANUFACTURING NOMMANUFACTURING PUBLIC UTILITIES	618 470 148 26	40.0 38.5	390.00	384.50	\$ 326.50-425.50 336.00-442.00 312.50-364.50 295.50-363.50	-	:	:	:	:	:	3 3 -	19 14 5 3	32 24 8 1	31 20 11 3	50 29 21 4	69 37 32 4	77 47 30 4	76 54 22 4	48 41 7 2	42 38 4 1	50 44 6	58 56 2	37 37 -	19	
COMPUTER SYSTEMS ANALYSTS (BUSINESS), CLASS A	181 137				369.50-448.50 379.50-465.00		:	Ξ	:	:	:	:	:	1	:	:	8 -	18 14	39 23	20 16	21 17	25 19	19 18	13 13	10	
COMPUTER SYSTEMS ANALYSTS (BUSINESS), CLASS B MANUFACTURING NONMANUFACTURING	224	40.0	389.00	379.50	320.00-417.00 332.50-445.00 308.00-351.00	-	=	:	:	:	:	1	4 3 1	15 9 6	18 11 7	40 21 19	48 27 21	45 21 24	27 21 6	20 17 3	16 16	18 18	27 26 1	24 24	9	
COMPUTER SYSTEMS ANALYSTS (BUSINESS), CLASS C					276.50-381.00 277.50-389.50		:	:	:	=	:	2	15 11	16 15	13	10 8	13 10	14 12	10	8	5 5	7 7	12	:	:	
MPUTER PROGRAMMERS (BUSINESS) MANUFACTURING NONMANUFACTURING		39.5	292.50	285.00	243.00-310.50 260.00-324.00 234.00-299.00	-	-	=	5 4 1	9 3 6	19 6 13	33 10 23	35 11 24	52 32 20	35 19 16	29 16 13	31 20 11	6 5 1	6	3 1 2	1 3	5 3 2	3 2 1	5	:	
COMPUTER PROGRAMMERS (BUSINESS), CLASS A MANUFACTURING NONMANUFACTURING	69	39.5	319.00	308.50	271.50-327.50 276.00-330.00 265.00-320.00	-	:	=	:	Ξ	:	6 2 4	16 7 9	22 9 13	18 10 8	20 12 8	22 14 8	2 2	4 4 -	3 1 2	4 1 3	5 3 2	3 2 1	2 2	:	
COMPUTER PROGRAMMERS (BUSINESS), CLASS B MANUFACTURING NONMANUFACTURING	62	39.5	272.50	278.00	233.00-289.00 242.00-293.50 230.00-277.50	-	:	:	4	2 - 2	11 4 7	19 8 11	18 3 15	27 20 7	14 8 6	8 4 4	9 6 3	4 3 1	2 2	:	:	:	:	=	:	
MPUTER OPERATORS	219	39.5 38.5	224.50	223.50	181.00-244.50 188.50-253.00 173.50-233.50 233.50-296.50	:	14 2 12	35 12 23 1	56 25 31 1	75 32 43 1	56 27 29 2	80 46 34 3	53 33 20 2	21 10 11 2	28 18 10 7	11 6 5 4	8 6 2 2	2 -	:	:	:	:	:	=	:	
COMPUTER OPERATORS, CLASS A MANUFACTURING NONMANUFACTURING	82	39.5	255.50	256.50	221.50-276.00 220.50-286.50 223.50-256.00	-	:	:	1	15 10 5	17 6 11	44 18 26	29 11 18	16 5 11	20 17 3	7 6 1	6	2 -	=	Ξ	:	=	:	:	:	
COMPUTER OPERATORS, CLASS B MANUFACTURING NONMANUFACTURING	106	40.0	213.50	216.50	181.00-231.50 184.00-241.00 173.50-211.00	-	4 - 4	8 4 4	34 16 18	46 18 28	30 17 13	29 23 6	24 22 2	5	7 1 6	1 1	:	:	:	Ξ	:	:	=	:	:	
COMPUTER OPERATORS, CLASS C NONMANUFACTURING					150.50-197.50 149.00-195.50		10	27 19	21 13	14 10	9	7 2	:	:	1	3	5	:	:	:	:	-	:	:	:	
AFTERS	1,994	40.0	275.50	284.50	227.00-334.00 233.50-338.50 215.50-303.50 205.50-298.00	56		41 35 6 5	62 49 13 11	151 122 29 24	138 94 44 31	191 135 56 46	235 195 40 19	188 164 24 3	259 243 16 9	222 177 45 25	182 171 11 2	404 394 10 3	87 68 19 19	16 16	1 -	8	:	:	:	

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

					earnings 1 ndard)	Numbe	er of v	vorker	s rece	eiving	straig	ht-tin	ne wee	kly ea	rnings	of—										
Occupation and industry division	Number of workers	Average weekly hours ¹ (standard	M)			and under	\$ 120 - 140	-	-	-	200	-	-	-	-	-	320 - 340	-	360 - 380	380	400	-	440	\$ 480 - 520	-	
ALL WORKERS CONTINUED																										
RAFTERS - CONTINUED			4		* *																					
MANUFACTURING	969 922				295.50-356.50 296.00-356.50		=	Ξ	1 -	24 24	24 24	20 20	31 27	76 70	92 85	96 85	144 134	370 362	67 67	15 15	1	8	:	Ξ	:	
DRAFTERS, CLASS B MANUFACTURING NONMANUFACTURING	512 403 109	40.0	286.00	287.50	255.00-311.50 254.50-311.50 255.50-304.00	-	Ξ	:	:	8 7 1	6 3 3	53 41 12	76 59 17	41 30 11	109 100 9	126 92 34	38 37 1	34 32 2	20 1 19	1	:	Ξ	:	-	:	
DRAFTERS, CLASS C MANUFACTURING NONMANUFACTURING	594 544 50	40.0	208.00	228.50	157.50-255.50 152.50-257.00 211.50-252.50	56	64 64	32 32	20 18 2	56 51 5	49 38 11	67 61 6	121 102 19	71 64 7	58 58	=	=	Ξ	Ξ	Ξ	:	:	=	:	:	
DRAFTER-TRACERS	232 125				182.00-219.50 176.00-216.00		2	9	41	63 40	59 29	51 13	7	:	:	:	:	:	:	:	:	-	:	:	:	
MANUFACTURING	575 141				312.50-332.50 240.00-303.50		:	:	:	:	3	36 33	30 24	13	35 27	65 38	356 6	10	24	2	1	:	:	-	:	
ELECTRONICS TECHNICIANS, CLASS A- NONMANUFACTURING PUBLIC UTILITIES	109 69 42	40.0	337.50	327.00	299.00-350.50 322.00-366.00 325.00-367.50	-	:	:	:	=	Ξ	Ξ	8 2	2 2	19 3 -	15 6 2	31 25 14	7 4 3	24 24 22	2	1	=	:	Ξ	:	
ELECTRONICS TECHNICIANS, CLASS 8-	72	40.0	275.50	287.00	226.50-305.00	-	-	-	-	-	-	21	5	5	12	26	-	3	-	-	-	-	-	-	-	
REGISTERED INDUSTRIAL NURSES	200 175	40.0	255.00 256.50	262.50	227.50-284.50 229.00-285.00	:	:	3 2	4	7	30 27	17 15	33 30	54 48	42 40	5	1	3	:	1	-	-	-	-	:	

Table A-10. Average weekly earnings of office, professional, and technical workers, by sex—large establishments in Pittsburgh, Pa., January 1977

	1000		rerage ean ²)			Ave (me:				Ave (me	erage ean ²)
Sex, 3 occupation, and industry division	Number of workers	Weekly hours 1 (standard)	Weekly earnings l (standard)	Sex, 3 occupation, and industry division	Number of workers	Weekly hours ¹ (standard)	Weekly earnings ¹ (standard)	Sex, 3 occupation, and industry division	Number of workers	Weekly hours 1 (standard)	Weekly earnings (standar
OFFICE OCCUPATIONS - MEN			\$	OFFICE OCCUPATIONS - WOMENCONTINUED				OFFICE OCCUPATIONS - WOMENCONTINUED			
MESSENGERS	107 63		165.00 165.50	STENOGRAPHERS - CONTINUED				ACCOUNTING CLERKS - CONTINUED			
ORDER CLERKS	96	40.0	267.00	STENOGRAPHERS, GENERAL	570		\$ 181.50				\$ 157. 176.
ACCOUNTING CLERKS	291		265.50 272.50	MANUFACTURING	306 264	38.5	179.00		183 311 32	39.5	146.
NONMANUFACTURING	69	38.5	242.00		160	38.5	210.00	RETAIL TRADE	197		130.
PUBLIC UTILITIES	36	39.0	275.00	STENOGRAPHERS, SENIOR	847 562		175.50		163	30 5	185.
ACCOUNTING CLERKS, CLASS A			280.00	NONMANUFACTURING	285		170.50	MANUFACTURING	109	40.0	189.
MANUFACTURING	157	40.0	286.00	TYPISTS	645	39.5	155.00	NONMANUFACTURING	54	39.5	177.
MANUFACTURING	91 65		232.50	MANUFACTURING	398	40.0	161.00	KEYPUNCH OPERATORS	961		187.
MANUFACTURING	05		240.00	NONMANUFACTURING	247 74		145.50		529 432		204.
PAYROLL CLERKS	81		255.50 256.50	TYPISTS, CLASS A	257	20 5	178.00	PUBLIC UTILITIES	70 147	39.0	206.
HANOF ACTORING	"	40.0	230.30	MANUFACTURING	174	40.0	176.00				1
	1			NONMANUFACTURING	83 53	39.0	182.00	MANUFACTURING	184		187.
OFFICE OCCUPATIONS - WOMEN						1000		NONMANUFACTURING	235	39.0	179.
				TYPISTS, CLASS B	388 224		139.50		30	39.5	233.
SECRETARIES	3,408		222.00	NONMANUFACTURING	164		127.00		542 345		188.
NONMANUFACTURING	1,364	39.0	208.50	FILE CLERKS	352		137.50	NONMANUFACTURING	197	39.0	154.
PUBLIC UTILITIES	164		168.50	MANUFACTURING	93 259		175.50	PUBLIC UTILITIES	40	38.5	185.
FINANCE	452	37.5	189.50		733		17.00				
SERVICES	465	40.0	217.00	FILE CLERKS, CLASS B	96	38.5	155.00	PROFESSIONAL AND TECHNICAL			
SECRETARIES, CLASS A	152		294.50	FILE CLERKS, CLASS C	218 188		119.00				
SECRETARIES, CLASS 8	563	39.5	252.50	MESSENGERS	99		140.50	COMPUTER SYSTEMS ANALYSTS			
MANUFACTURING	379		254.50	MANUFACTURING	57	38.0	146.50	(BUSINESS)	550 429		383.
PUBLIC UTILITIES	46			SWITCHBOARD OPERATORS	190		195.50	NONMANUFACTURING	121		344.
SECRETARIES, CLASS C	1,202	39.5	225.50	MANUFACTURING	113		213.50 183.00	COMPUTER SYSTEMS ANALYSTS			
MANUFACTURING	740	39.5	227.00	PUBLIC UTILITIES	43		219.50	(BUSINESS) + CLASS A			419.
NONMANUFACTURING	126	39.0	222.50	SWITCHBOARD OPERATOR-RECEPTIONISTS-	68	40.0	167.50	MANUFACTURING	132	40.0	433.
FINANCE	121	37.5	204.50		90			COMPUTER SYSTEMS ANALYSTS			
SERVICES	156						161.00	MANUFACTURING	277		376.
SECRETARIES, CLASS D	1,338	39.5	195.00	ACCOUNTING CLERKS	700 301		176.50 204.50	NONMANUFACTURING	70	38.0	332.
NONMANUFACTURING	664	39.0	186.00	NONMANUFACTURING	399	39.0	155.50	COMPUTER SYSTEMS ANALYSTS			
SERVICES	269		200.50		40 245		243.00 139.00	(BUSINESS), CLASS C	100		337.
STENOGRAPHERS	1,417		178.00		206			COMPUTER PROGRAMMERS (BUSINESS)			289.
MANUFACTURING	868	39.5	178.50	MANUFACTURING	118		248.50		115	39.5	299.
PUBLIC UTILITIES			209.00		00	30.3	170.00	HOMENAUT ACTURING	90	30.3	15100

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

			erage ean ²)			Ave (me:			Number		erage ean ²)
Sex, 3 occupation, and industry division	Number of workers	Weekly hours ¹ (standard)	Weekly earnings ¹ (standard)	Sex, 3 occupation, and industry division	Number of workers	Weekly hours ¹ (standard)	Weekly earnings 1 (standard)	Sex, 3 occupation, and industry division	of workers	Weekly hours 1 (standard)	Weekly earnings (standard
PROFESSIONAL AND TECHNICAL OCCUPATIONS - MENCONTINUED				PROFESSIONAL AND TECHNICAL OCCUPATIONS - MENCONTINUED				PROFESSIONAL AND TECHNICAL OCCUPATIONS - MENCONTINUED			¢
COMPUTER PROGRAMMERS (BUSINESS)-				COMPUTER OPERATORS - CONTINUED				ELECTRONICS TECHNICIANS	558		316.00
CONTINUED				COMPUTER OPERATORS. CLASS C	70	39.5	\$ 181.50	MANUFACTURING	141	40.0	277.5
COMPUTER PROGRAMMERS (BUSINESS) .			\$	NONMANUFACTURING	50		184.50		109	40.0	323.5
CLASS A	106	39.0	316.50		1			NONMANUFACTURING	69	40.0	337.5
MANUFACTURING	58	39.5	326.50	DRAFTERS	2,140		278.00		42	40.0	346.5
				MANUFACTURING	1,909		279.50				
COMPUTER PROGRAMMERS (BUSINESS),				NONMANUFACTURING	231		267.50		72	40.0	275.50
CLASS B	86		272.50		122	38.0	265.00		1		
MANUFACTURING	50	39.5	277.50					PROFESSIONAL AND TECHNICAL OCCUPATIONS - WOMEN			
COMPUTER OPERATORS	392	20.0	217 50	DRAFTERS, CLASS A	958		322.00				1
MANUFACTURING	196		217.50		911	40.0	323.00				
NONMANUFACTURING	196		209.00		499	20 5	288.00	(BUSINESS)	68	30 5	337.50
Holl March 200	1,0	30.0	207.00	MANUFACTURING	394		286.50		00	37.03	331.30
COMPUTER OPERATORS. CLASS A	146	39.0	248.50		105			COMPUTER PROGRAMMERS (BUSINESS)	64	38.5	254.00
MANUFACTURING	77		256.50								
NONMANUFACTURING	69	38.5	239.50	DRAFTERS. CLASS C	535	40.0	214.50	DRAFTERS	167	39.0	203.50
				MANUFACTURING	493	40.0	213.00	MANUFACTURING	85	40.0	191.50
COMPUTER OPERATORS, CLASS B	176		206.00								
MANUFACTURING	99		213.00		148		192.00		59	39.5	167.5
NONMANUFACTURING	77	39.0	197.50	MANUFACTURING	111	40.0	194.50	REGISTERED INDUSTRIAL NURSES	100	40 0	254.5
								MANUFACTURING			256.5

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

			Hourly ea	mings 4	Numb	er of	worke	rs rec	eiving	strai	ght-tin	ne hou	rly ea	arnings	of-												
Occupation and industry division	Number of workers	Mean ²	Median ²	Middle range ²	Under \$ 5.20	and under	5.40	5.60	\$ 5.80 - 6.00	6.00	6.20	6.40	6.60	6.80	-	7.20		7.60	7.80	8.00	8.20	-	-	-	-	-	and
ALL WORKERS MAINTENANCE CARPENTERS MANUFACTURING NOMMANUFACTURING PUBLIC UTILITIES	364 104 47	7.25 7.77 6.93	7.19 7.08 7.08	6.84= 7.99 6.58= 9.50 6.58= 7.08	=	24	3 3 -	:	7 7	23 17 6	13 6 7 -	23 5 18 17	7 4 3 3	-	112 90 22 22	33 32 1	47 44 3 3	4 4	20 17 3	12 4 8 1	66	8 8 -				25	
MAINTENANCE ELECTRICIANS		7.40	7.48	6.77- 7.94 7.17- 8.07	8					31 30 1	88 87 1	45 39 6	83 67 16 5		110 56 54 50	115 92 23 23	308 301 7 7	58 50 8 8	195 189 6 1	80 60 20 20	105	6	63	10	29 28 1	12	2
MAINTENANCE PAINTERS	221 181					3	9	12	7	11 11	14	25 25	25 20	52 42	3	1	22 18	10	:	2	8	4	:	5	:	:	
MAINTENANCE MACHINISTS	1,679				=	-	6	3	39 30	50 50	3	44	35 35	31 31	65	10	214	100 94	126 125	121 114	82 82	667 667	23	15 15	24 24	=	
MAINTENANCE MECHANICS (MACHINERY) - MANUFACTURING	1,775					:				141 140	41	79 78	49 39		134 132	338 328	132 126	75 75	70 70	91 91	113 113	55 55	56 56	12	34 34	6	
MAINTENANCE MECHANICS (MOTOR VEHICLES) MANUFACTURING NONMANUFACTURING PUBLIC UTILITIES	446 295 151 110	7.50	7.41	7.25- 8.04 6.57- 7.84	-	6		1	44 19 25 1	18 10 8 2	5 4 1	22 8 14 13	10	5 3 2 1	11 8 3 1	47 35 12 12	91 81 10 9	18 18 -	50 6 44 43	58 58 -	2 2	16 16	13 13	4 3	19 2 17 17	6	
MAINTENANCE PIPEFITTERS	868 819 25	7.28	7.25	6.90- 7.58	4	1	:	15 15		52 41	27 27	19	46 38		141 131	167 150	135 134	53 53	5 5	51 51	26 26	24	9 8	:	4	:	
MAINTENANCE SHEET-METAL WORKERS						:	:	5	50 49	10	7 7	8	5	19 19	10	8	10	:	3	:	2	:	2	5	2		
MAINTENANCE TRADES HELPERS MANUFACTURING NONMANUFACTURING PUBLIC UTILITIES	909	5.84	5.89	6.49- 6.96 5.76- 6.13	5		13	27	59 17	78 25 53 53		124 124 -	249		30 30 -	80	30 30	38 38 -	2 -	8	=	6	:	:	:	:	
MACHINE-TOOL OPERATORS (TOOLROOM) - MANUFACTURING						:	3	:	90 90	:	24 24	50 50	29 29	5	:	20 20	:	32 32	15 15	26 26	:	17 17	20 20	8	4	:	
TOOL AND DIE MAKERS						:		:	Ξ	87 87	78 78	1	40 40	17 17	6	21	41 41	16 16	47 47	6	:	15	47 47	106 106	:	:	
STATIONARY ENGINEERS	204	7.41	7.37	6.67- 7.97	-	:	16		8	=	5 4 1	16 16	70 13 57	5	15 14 1	34 29 5	23 12 11	34	48 41 7	39	8	24 24	:	:	8 8 -	8	
BOILER TENDERS							. 8	:	7	7	50 42	22	12		8	16 16	:	Ξ	:	:	:	:	- :	:	:	:	

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

			Hourly ea	rnings 4	Numb	er of	worke	rs rec	eiving	straig	ht-tim	e hour	ly ea	rnings	of—											
Occupation and industry division	Number of workers	Mean ²	Median ²	Middle range ²	and under	-	-	2.80	-	3.20	3.40	3.60	3.80	-	4.20	-	4.60	-	-	-	-	-	-	-	-	-
ALL WORKERS																										
JCKDRIVERS MANUFACTURING NONMANUFACTURING PUBLIC UTILITIES	1,303 727 576 381	7.54	8.31 6.48	6.73- 8.3 5.81- 7.7	-	=	:	:	Ë	:	:	4	:	:	:	1 -	7 6 1 1	17 12 5	117 17 100 2	108 30 78 60	215 98 117 52	151 92 59 59	57 37 20 20	174 24 150 145	45 45 42	405 405
TRUCKDRIVERS, MEDIUM TRUCK	260 150					-	:	-	:	:	:	:	:	:	:	:	:	8	102 99	24 22	13 1	75 5	36 20	5	:	:
IRUCKDRIVERS, HEAVY TRUCK (TRAILER) MANUFACTURINGNONMANUFACTURING	78	7.45	7.52	6.34- 8.4	1 -	=	:	:	:	:	:	:	:	:	:	:	:	:	4	14 8 6	25 8 17	2 2	4 4	27 22 5	42	28 28
IPPING CLERKS						:	:	:	:	4	:	:	:	3	4	1 -	13 10	9	20 19	6	24 24	28 26	5	1	1	:
MANUFACTURINGNOMMANUFACTURING	166 98 68 63	5.75	5.57	5.15- 6.24 4.23- 4.91	-	=	:	:	:	:	7 7 7	1 -	:	3 3 3	13 13 13	21	14 7 7 7	35 25 10 8	28 26 2 2	4 3 1 1	30 29 1	7 6 1	2 -	:	1	:
REHOUSEMEN	318 164					:	:	:	:	:	:	:	:	:	3	6	24 24	116	46 25	48 48	20 12	7 5	11 11	:	27 27	10
DER FILLERS	198	4.79	4.40	3.74- 6.10	-	-	-	-	-	2	9	46	-	3	30	15	10	19	9	50	1	4	-	-	-	-
PPING PACKERS	216 148			4.84- 5.79 4.98- 5.88		=	:	:	-	Ξ	- :	1	:	33	19	1 -	51 51	:	58 58	30 16	18 18	5	:	:	:	:
ERIAL HANDLING LABORERS MANUFACTURINGNONMANUFACTURING	1,350 787 563	5.53 6.13 4.68	5.92	4.98- 7.0	-	8 - 8	5	28	12	15 15	62	4-4	48 15 33	127	53 48 5	26 24 2	151 139 12	161 65 96	25 3 22	164 161 3	144 25 119	111 102 9	46 46	6	125 125	28 28
KLIFT OPERATORS		6.19				-	:	-	=	:	Ξ	Ξ	:	11 10	10 10	:	29 28	253 250	88 86	122	198 168	187 187	106 106	55	4	6
ER-TRUCK OPERATORS (OTHER AN FORKLIFT) MANUFACTURING	646 635					:	:	:	Ξ	:	:	Ξ	:	=	:	:	42 42	37 37	87 87	2	45 34	38 38	347 347	14 14	6	:
RDS AND WATCHMEN	863	6.02 4.56	6.40	5.89- 6.43 3.55- 5.47	2	5	2 2		17 12 5 5	4 1 3 3	35 35 35	6 4 2 2	18 16 2 2	2 2 2	2 2 2	41 25 16 1	161 95 66	42 38 4	61 15 46	67 59 8	515 515 -	48	32 30 2	1 -	:	:
ARDS: MANUFACTURING	816	6.12	6.40	6.07- 6.43	-	-	-	-	6	-	-	-	-	-	-	25	83	38	15	55	515	48	30	1	-	-
ITORS, PORTERS, AND CLEANERS MANUFACTURING NONMANUFACTURING PUBLIC UTILITIES RETAIL TRADE	2,657 1,434 1,223 268 336	5.33	5.59 4.07 5.04	5.04- 5.76 3.55- 4.54 4.87- 5.24	5 2		33 10 23 -	28 5 23	12	72 1 71 - 65	238	64 42 22 14	47 3 44 3	253 32 221 10 3	131 38 93 16 5	257 57 200 24 2	204 95 109 79 2	404 294 110 88 2	511 502 9	306 289 17 17	61 36 25 25	15	:	:	:	:

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

Sex, 3 occupation, and industry division	Number of workers	Average (mean ²) hourly earnings ⁴	Sex, 3 occupation, and industry division	Number of workers	Average (mean ²) hourly earnings ⁴
MAINTENANCE, TOOLROOM, AND POWERPLANT OCCUPATIONS - MEN			MATERIAL MOVEMENT AND CUSTODIAL OCCUPATIONS - MENCONTINUED		
MAINTENANCE CARPENTERS	468	\$ 7.37	TRUCKDRIVERS - CONTINUED		
MANUFACTURING	364				\$
PUBLIC UTILITIES	104	7.77 6.93	TRUCKDRIVERS, MEDIUM TRUCK	260 150	6.28 5.92
MAINTENANCE ELECTRICIANS	1,567	7.43	TRUCKDRIVERS, HEAVY TRUCK		
MANUFACTURING	1,401		(TRAILER)	150	
NONMANUFACTURING	166 114	7.66	MANUFACTURING	78 72	
A INTENANCE DAINTEDS	221	6 01	SHIPPING CLERKS	113	5.83
MANUFACTURING	181	6.81	MANUFACTURING	94	
MAINTENANCE MACHINISTS	1,679			157	
MANUFACTURING	1,590	7.97	MANUFACTURING	91	
ATTICLE MEGUANICO ANACUTUEDA	1 775	7 15	NONMANUFACTURING	66	
MAINTENANCE MECHANICS (MACHINERY) -	1,775			61	
ATMITTMANCE MECHANICS			WAREHOUSEMEN	315	
MOTOR VEHICLES)	446	7.44	NONMANUFACTURING	161	6.1
MANUFACTURING	295		ORDER FILLERS	185	4.8
NONMANUFACTURING	151				
PUBLIC UTILITIES	110	7.71	SHIPPING PACKERS	148	
MAINTENANCE PIPEFITTERS	868	7.26	MANUFACTURING	114	5.6
MANUFACTURING	819			1,237	5.63
NONMANUFACTURING:			MANUFACTURING	762	6.15
PUBLIC UTILITIES	25	7.21	NONMANUFACTURING	475	4.80
MAINTENANCE SHEET-METAL WORKERS	143	6.60	FORKLIFT OPERATORS	1,058	6.20
MANUFACTURING	114	6.49	MANUFACTURING	1,021	6.2
MAINTENANCE TRADES HELPERS	1,028		POWER-TRUCK OPERATORS (OTHER		
MANUFACTURING	909		THAN FORKLIFT)	646	
NONMANUFACTURING	119 115		MANUFACTURING	635	6.80
			GUARDS AND WATCHMEN	1,045	5.7
MACHINE-TOOL OPERATORS (TOOLROOM) -	340		MANUFACTURING	852	
MANUFACTURING	340	6.99	NONMANUFACTURING	193 56	
TOOL AND DIE MAKERS	523	7.44	NETHER THREE	30	3.4.
MANUFACTURING	523	7.44	GUARDS:		
TATTOUNDY FUCTOFFED	274	7 27	MANUFACTURING	808	6.1
MANUFACTURING	374 204		JANITORS, PORTERS, AND CLEANERS	2,000	5.0
NONMANUFACTURING	170			1,241	
			NONMANUFACTURING	759	
BOILER TENDERS	154		PUBLIC UTILITIES	156	
MANUFACTURING	146	6.53	RETAIL TRADE	565	3.5
MATERIAL MOVEMENT AND CUSTODIAL OCCUPATIONS - MEN			MATERIAL MOVEMENT AND CUSTODIAL OCCUPATIONS - WOMEN		
TRUCKDRIVERS	1,301	7.17	JANITORS. PORTERS, AND CLEANERS	657	4.1
MANUFACTURING	727	7.54	MANUFACTURING	193	4.4
NONMANUFACTURING	574	6.71	NONMANUFACTURING	464	4.0

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.

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.

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 74 ¹ 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

Unskilled plant

Janitors, porters, and cleaners Material handling laborers

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

- 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.
- 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 Pittsburgh, Pa., January 1977

	Minimum	Number of es	tablishments	Workers in establishments							
Industry division 2	employment in establish-	Within scope		Within sco	pe of study 4						
	ments in scope of study	of study 3	Studied	Number	Percent	Studied					
ALL ESTABLISHMENTS											
ALL DIVISIONS	_	1,006	246	392+492	100	219,826					
ANUFACTURINGONMANUFACTURINGTRANSPORTATION, COMMUNICATION, AND	100	327 679	75 171	201,803 190,689	51 49	109:016 110:810					
OTHER PUBLIC UTILITIES 5	100 50	62 155	26 32	40 • 196 17 • 120	10	33,610 7,032					
RETAIL TRADE FINANCE, INSURANCE, AND REAL ESTATE 6 SERVICES 7	100 50 50	120 103 239	31 24 58	63,603 27,124 42,646	16 7 11	34,594 16,559 19,015					
LARGE ESTABLISHMENTS						177015					
ALL DIVISIONS	-	125	83	249,544	100	186,125					
ANUFACTURINGONMANUFACTURINGTRANSPORTATION, COMMUNICATION, AND	500	74 51	39 44	147.237 102.307	59 41	99,927 86,198					
OTHER PUBLIC UTILITIES 5	500 500	13	13	29,948 3,501	12	29,948					
FINANCE, INSURANCE, AND REAL ESTATE 6	500 500	19 8	7	43,670 15,570	17	30,276 13,520					
SERVICES 7	500	6	6	9,618	4	9,618					

¹ The Pittsburgh Standard Metropolitan Statistical Area, as defined by the Office of Management and Budget through February 1974, consists of Allegheny, Beaver, Washington, and Westmoreland Counties. The "workers within scope of study" estimates shown in this table provide a reasonably accurate description of the size and composition of the labor force included in the survey. Estimates are not intended, however, for comparison with other employment indexes to measure employment trends or levels since (1) planning of wage surveys requires establishment data compiled considerably in advance of the payroll period studied, and (2) small establishments are excluded from the scope of the survey.

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. Pittsburgh's local and suburban transit operations are municipally owned and are excluded by definition from the scope of the survey.

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

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 corporatewide 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

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

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.

TY PIST-Continued

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 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.

<u>Class B.</u> 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:

<u>Class A.</u> 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:

<u>Class A.</u> 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.

OI

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.

COMPUTER PROGRAMMER, BUSINESS—Continued

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

COMPUTER OPERATOR-Continued

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 <u>not</u> 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 airconditioning. 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 engincers 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 $1\frac{1}{2}$ tons) Truckdriver, medium truck ($1\frac{1}{2}$ 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. A directory of occupational wage surveys, covering the years 1950 through 1975, is available on request.

Area	Bulletin	number price *
Akron, Ohio, Dec. 1976 1	1900-76,	85 cents
	1900-59,	
Anaheim-Santa Ana-Garden Grove,		
Calif., Oct. 1976	1900-67,	75 cents
Atlanta, Ga., May 1976	1900-30,	85 cents
Baltimore, Md., Aug. 1976	1900-52,	85 cents
Billings, Mont., July 1976 Birmingham, Ala., Mar. 19761	1900-39,	55 cents
Birmingham, Ala., Mar. 1976	1900-11,	95 cents
Boston, Mass., Aug. 1976	1900-53,	85 cents
Buffalo, N.Y., Oct. 1976	1900-70,	75 cents
Canton, Ohio, May 1976	1900-28,	55 cents
Chattanooga, TennGa., Sept. 1976	1900-57,	55 cents
Chicago, Ill., May 1976 Cincinnati, Ohio-KyInd., Mar. 1976	1900-32,	\$1.05
	1900-7,	75 cents
Cleveland, Ohio, Sept. 1976	1900-62,	95 cents
Columbus, Ohio, Oct. 1976	1900-68,	
Corpus Christi, Tex., July 1976	1900-41,	
Dallas-Fort Worth, Tex., Oct. 1976	1900-63,	
Davenport-Rock Island-Moline, Iowa-Ill., Feb. 1976	1900-25,	
Dayton, Ohio, Dec. 1976	1900-78,	
Daytona Beach, Fla., Aug. 1976	1900-45,	
Denver-Boulder, Colo., Dec. 1976	1900-73,	
Detroit, Mich., Mar. 1976 1	1900-15,	
Fresno, Calif., June 1976	1900-29,	
Gainesville, Fla., Sept. 1976	1900-54,	
Green Bay, Wis., July 1976	1900-37,	55 cents
Greensboro-Winston-Salem-High Point,		
N.C., Aug. 1976Greenville-Spartanburg, S.C., June 19761	1900-47,	
Greenville-Spartanburg, S.C., June 1976	1900-36,	
Hartford, Conn., Mar. 1976	1900-14,	
Houston, Tex., Apr. 1976	1900-26,	
Huntsville, Ala., Feb. 1976	1900-17,	
Indianapolis, Ind., Oct. 1976	1900-58,	
Jackson, Miss., Feb. 1976	1900-8,	
Jackson, Miss., Feb. 1976 Jacksonville, Fla., Dec. 1976	1900-80,	
Kansas City, Mo-Kans., Sept. 1976	1900-60,	
Los Angeles-Long Beach, Calif., Oct. 1976		85 cents
Louisville, Ky.—Ind., Nov. 1976	1900-69,	55 cents

Area	Bulletin number and price *
Memphis, Tenn.—Ark.—Miss., Nov. 1976 1	1900-75, 85 cents
Miami, Fla., Oct. 1976	1900-66, 75 cents
Milwaukee, Wis., Apr. 1976	1900-22, 85 cents
Minneapolis-St. Paul, MinnWis., Jan. 1976	1900-3, 95 cents
Nassau-Suffolk, N.Y., June 1976	1900-35, 85 cents
Newark, N.J., Jan. 1976	1900-10, 85 cents
New Orleans, La., Jan. 1976	1900-2, 75 cents
New York, N.YN.J., May 1976	1900-48, \$1.05
Norfolk-Virginia Beach-Portsmouth, Va-	
N.C., May 1976 1	1900-27, 85 cents
Norfolk-Virginia Beach-Portsmouth and	
Newport News-Hampton, VaN.C., May 1976 1	1900-33, 85 cents
Northeast Pennsylvania, Aug. 1976	1900-43, 65 cents
Oklahoma City, Okla., Aug. 1976	1900-42, 55 cents
Omaha, Nebr.—Iowa, Oct. 1976	1900-61, 55 cents
Paterson-Clifton-Passaic, N.J., June 1976	1900-38, 55 cents
Philadelphia, PaN.J., Nov. 1976 1	1900-64, \$1.10
Pittsburgh, Pa., Jan. 1977	1950-1, \$1.50
Portland, Maine, Dec. 1976 1	1900-72, 85 cents
Portland, OregWash., May 1976	1900-51, 75 cents
Poughkeepsie, N.Y., June 1976	1900-50, 45 cents
Poughkeepsie-Kingston-Newburgh, N.Y., June 1976	1900-55, 55 cents
Providence-Warwick-Pawtucket, R.I	
Mass., June 1976	1900-31, 75 cents
Richmond, Va., June 1976	1900-34, 65 cents
St. Louis, Mo.—Ill., Mar. 1976 1	1900-19, \$1.25
Sacramento, Calif., Dec. 1976	1900-71, 55 cents
Saginaw, Mich., Nov. 1976 1	1900-74, 75 cents
Salt Lake City-Ogden, Utah, Nov. 1976	1900-65, 55 cents
San Antonio, Tex., May 1976	1900-23, 65 cents
San Diego, Calif., Nov. 1976	1900-79, 55 cents
San Francisco-Oakland, Calif., Mar. 1976	1900-9, 95 cents
San Jose, Calif., Mar. 1976	1900-13, 75 cents
Seattle-Everett, Wash., Jan. 1976	1900-6, 65 cents
South Bend, Ind., Mar. 1976	1900-5, 55 cents
Syracuse, N.Y., July 1976	1900-44, 55 cents
Toledo, Ohio-Mich., May 1976	1900-24, 55 cents
	1900-24, 55 cents
Trenton, N.J., Sept. 1976 Washington, D.CMdVa., Mar. 1976	
washington, D.CIVId va., IVIAF. 17/0	1900-12, 85 cents
Wichita, Kans., Apr. 1976	1900-21, 55 cents
Worcester, Mass., Apr. 1976	1900-16, 55 cents
York, Pa., Feb. 1976	1900-4, 55 cents

^{*} 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.

U.S. Department of Labor Bureau of Labor Statistics Washington, D.C. 20212

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Bureau of Labor Statistics Regional Offices

Region I

1603 JFK Federal Building Government Center Boston, Mass. 02203 Phone: 223-6761 (Area Code 617)

Connecticut Maine Massachusetts New Hampshire Rhode Island Vermont

Region V

9th Floor, 230 S. Dearborn St. Chicago, III. 60604 Phone: 353-1880 (Area Code 312)

Illinois Indiana Michigan Minnesota Ohio Wisconsin

Region II

Suite 3400 1515 Broadway New York, N.Y. 10036 Phone: 399-5406 (Area Code 212)

New York New York Puerto Rico Virgin Islands

Region VI

Second Floor 555 Griffin Square Building Dallas, Tex. 75202 Phone: 749-3516 (Area Code 214)

Arkansas Louisiana New Mexico Oklahoma Texas

Region III

3535 Market Street, P.O. Box 13309 Philadelphia, Pa. 19101 Phone: 596-1154 (Area Code 215)

Delaware
District of Columbia
Maryland
Pennsylvania
Virginia
West Virginia

Regions VII and VIII

VII

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

VIII

lowa Colorado Kansas Montana Missouri North Dakota Nebraska South Dakota Utah Wyoming

Region IV

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

Alabama Florida Georgia Kentucky Mississippi North Carolina South Carolina Tennessee

Regions IX and X

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

IX X
Arizona Alaska
California Idaho
Hawaii Oregon
Nevada Washington

