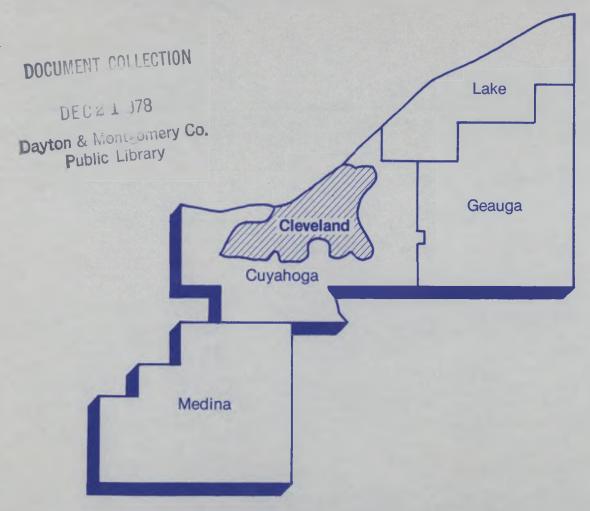
Area Wage Survey

Cleveland, Ohio, Metropolitan Area September 1978



Bulletin 2025-49

U.S. Department of Labor Bureau of Labor Statistics



Preface

This bulletin provides results of a September 1978 survey of occupational earnings in the Cleveland, Ohio, 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 Chicago, Ill., under the general direction of Lois L. Orr, Assistant Regional Commissioner for Operations. The survey could not have been accomplished without the cooperation of the many firms whose wage and salary data provided the basis for the statistical information in this bulletin. The Bureau wishes to express sincere appreciation for the cooperation received.

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Note:

Current reports on occupational earnings and supplementary wage provisions in the Cleveland area are available for the department stores (May 1977), construction (May 1977), contract cleaning services (July 1977), and machinery (January 1978) industries, as well as reports on occupational earnings only in the laundry and dry cleaning industry (September 1978). Also available are reports on occupational earnings and supplementary benefits for municipal workers in the city of Cleveland (June 1977) as well as 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

Cleveland, Ohio, Metropolitan Area September 1978



U.S. Department of Labor Ray Marshall, Secretary

Bureau of Labor Statistics Janet L. Norwood Acting Commissioner

November 1978

Bulletin 2025-49

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Introduction

This area is 1 of 75 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 Cleveland, Ohio, September 1978

					y earnings ' andard)	Numbe	er of v	vorker	s rec	eiving	straig	ht-tin	ne wee	kly ea	rning	of—										
Occupation and industry division	Number of workers	Average weekly hours ¹ (standard)	Mean ²		Middle range 2	90 and		110 											260			\$ 320		\$ 360 _	380	\$ 4
						under 100	110	120	130	140	150	160	170	180	200	220	240	260	280	300	320	340	360	380	400	ov
ALL WORKERS			\$	\$	\$ \$																					
CRETARIES	3 . 934	39.0	221.00	213.00	180-00-253-00	-	-	9	21	27	137	142	268	352	669	553	970	390	325	209	125	1 38	76	7	9	
MANUFACTURING	1.984				199.00-270.50		_	_	_	_	11	32	65	143	263	300	263	260	231	127	100	120	52	4	6	
NONMANUFACTURING	1.950	38.5	202.50	190.00	170.00-229.50	-	_	9	21	27	126	110	203	209	406	253	207	130	94	82	25	18	24	3	3	
PUBLIC UTILITIES	226	39.5	256-00	269.00	218.00-293.50	-	-	-	6	-	12	_	6	13	14	8	13	26	34	49	14	11	18	1		
WHOLESALE TRADE	319	39.5	204.50	196.00	170.50-233.50	-		-	9	7	6	21	32	40	48	59	28	27	22	6	5	3	3	1	2	
FINANCE	765	38-0	197.50	190.00	168.00-221.00	-	-	_	3	8	37	61	92	83	171	110	103	50	21	15	4	4	2	1	_	
SERVICES	420	37.5	185.50	181.50	161.00-198.50	-	-	8	-	8	67	20	38	46	134	31	28	14	12	11	2	-	1	-	-	
SECRETARIES. CLASS A	297				230.00-315.00	-	-	-	-	-	3	-	-	7	25	23	37	27	40	27	37	34	30	2	2	
MANUFACTURING	1 95				252.00-320.00		_	-	_	_	3	-	-	-	-	7	31	19	26	24	34	25	22	1	-	
NONMANUFACTURING	102	39-0	247.50	235.00	198-50-279-00	-	-	-	-	_	-		-	7	25	16	6	8	14	3	3	9	8	1	5	
SECRETARIES. CLASS B	853				202.50-277.00		-	-	-	-	3	26	29	35	111	84	139	124	98	88	29	46	28	4	5	
MANUFACTURING	425				234.00-289.50			-	-	-	3	д	-	6	22	37	66	81	68	62	15	38	13	2		
NONMANUFACTURING	428				182.50-256.00		_	-	-	-	_	22	29	29	89	47	73	43	30	26	14	8	15	2	1	
PUBLIC UTILITIES	51				261.50-322.50		-	-	-	-	-	_	-	- 1	7	-	_	- 6	8	9	7	2	12		-	
WHOLESALE TRADE	71				180.00-270.00		_	-	-	-	-	-	11	7	17	4	3	8	6	3	5	3	2	1	1	
FINANCE	127	38.0	234.50	230.00	218.50-256.00	-	-	-	-	-	-	6	-	2	10	17	48	16	13	9	2	3	-	1	-	
SECRETARIES. CLASS C	1.184	39.0	225.50	221.00	194.00-252.50	-	-	1	10	-	10	24	62	80	171	216	198	150	1.34	43	29	51	2	1	2	
MANUFACTURING	599				207-00-266-50		-	_	-	-	2	2	2	20	78	112	109	82	94	23	21	50	Ĩ	1	2	
NONMANUFACTURING	585	39.0	210.00	207.50	178-00-236-00	-	_	1	10	-	В	22	60	60	93	104	89	68	40	20	8	1	1	-	-	
PUBLIC UTILITIES	76	39.5	251-00	251-50	223.00-277.50	-	_	_	-	-	-	_	-	1	7	8	13	17	17	6	6	1		_	-	
WHOLESALE TRADE	123	39.5	203.50	210.00	169.50-243.00	-	-	-	9	-	-	12	12	17	5	23	13	18	11	2	-	-	1	-	-	
FINANCE	2 3 8				180.00-228.50		_	-	_	_	5	7	21	26	56	4.7	36	27	7	6	-	_	- 5	_		
SERVICES	75	38-5	225.50	230.00	201.50-233.00	-	-	-	-	-	_	-	-	3	12	19	24	4	5	6	2	_	-	-	-	
SECRETARIES. CLASS D	1=087				174.00-229.50		-	-	8	4	77	2 9	90	153	251	169	74	81	49	51	30	5	16	-	-	
MANUFACTURING	565				184.00-253.00		_	-	-	_	-	12	20	96	112	97	47	72	40	18	30	5	16	_	_	
NONMANUFACTURING	522				162.00-205.00		_	-	8	4	77	17	70	57	139	72	27	9	9	33	-	-	_	_	_	
PUBLIC UTILITIES	80				161.50-288.00		_	-	6	_	12	_	6	12	-	-	_	3	9	32	_	_		_	_	
WHOLESALE TRADE					172.50-212.00		_	-	-	_	6	9	9	9	26	26	12	1	_	1	_	-		_	_	
FINANCE	168	38.0	192.00	190.00	175-00-208-50	-	-	_	-	-	2	5	34	9	59	40	14	5	-	_	-	-	_	_	_	
SECRETARIES CLASS E	458				157.50-190.00		-	8	3	23	44	61	80	68	100	50	10	6	3	-	-	2	=	-	-	
MANUFACTURING	188				168-00-204-00		_	_	_	+	3	14	43	21	45	43	8	6	3	_	_	2	-	-	-	
NONMANUFACTURING	270				149.50-179.00		_	8	3	23	41	47	37	47	55	7	2	_	_	_	-	_	_	_	-	
FINANCE	204				152.00-178.50			-	3	8	30 11	43	33 4	40	11	3 4	- 2	_	_	_	-	_	_	_	_	
SERVICES	59	31.5	160.50	156.00	132.50-184.00		_	8	_	8	11	~	*	,	''	*	2	_	_	_	_	_	_			
ENOGRAPHERS	820				171.50-249.00		-	-	15	11	27	60	82	70	118	95	98	146	49	7	42		_	-	-	
MANUFACTURING	427				177-00-239-50		-		7	_	5	18	52	44	65	61	70	36	22		42	_	_	-	_	
NONMANUFACTURING	393				165-00-253-00		-	-	8	11	22	4.2	30	26	53	34	28					_	-	=	_	
PUBLIC UTILITIES	216				213-50-256-00		-	_	-	-	-	8	12	8	18	15	21	107	26	1	-	-	-	-	_	
FINANCE	1 35	38.0	165-50	160.00	150.50-181.00	-	-	-	8	11	14	34	18	15	20	10	5	-	-	-	_		_	_	-	
STENOGRAPHERS. GENERAL	395	39.5	201.00	188.00	162.00-235.00	-	-	-	13	8	22	3 9	51	42	60	39	26	41	16	1	37	-	-	-	-	
MANUFACTURING	177	39 - 0	212.50	188.50	167.00-260.50	-	-	_	6	-	3	10	29	24	28	16	9	7		1	37	-	-	-	-	
NONMANUFACTURING	218	39.5	191-50	187.50	155.50-230.00	-	-	_	7	8	19	29	22	18	32	23	17	34	9	-	-	-	_	-	~	
PUBLIC UTILITIES	107	40.0	218-00	231.00	188.50-249.00	-	-	_	-	-	-	8	11	5	12	11	17	34	9	-	-	-	-	-	-	
FINANCE	83	38-5	160.50	156.50	145.00-173.00	-	_	-	7	8	11	21	11	10	12	3	-	-	-	-	-	-	-	-	-	f

Table A-1. Weekly earnings of office workers in Cleveland, Ohio, September 1978—Continued

				Week!	y earnings ' andard)	Numb	er of v	vorker	rs rec	eiving	straig	ght-tim	ne wee	kly ea	arning	s of—										
	Number	Average					\$			\$				5	3		\$					\$	\$	\$	\$	\$
Occupation and industry division	women	weekly bours l (standard)	Mean ²	Median 2	Middle range 2	and under	-	-	120	130	-	-	-	-	-	200	-	-	-	-	-	-	340	-	380	an
		ļ				100	110	120	130	140	150	160	170	180	200	220	240	260	280	300	320	340	360	380	400	OVE
ALL WORKERS CONTINUED																										
STENOGRAPHERS - CONTINUED STENOGRAPHERS, SENIOR					\$ \$ 183.00-256.00	_	_	-	2	3	5	21	31	28	58	56		105	33	6	5	-	-	_	-	
MANUFACTURING	175	39.0	223.50	241.00	184.00-238.50 182.00-256.00 154.50-185.50	= =	-	-	1 1 1	- 3 3	2 3 3	8 13 13	23 8 7	20 8 5	37 21 8	45 11 7	61 11 5	76	15 18	2	5	3	1	G	1	
RANSCRIBING-MACHINE TYPISTS MANUFACTURING NONMANUFACTURING:					129.00-167.50 160.50-205.00	=	-	_	81	67 3	38 9	19	13 8	12 12	21 15	28 27	6	4 -	-	-	-	-	-	-	-	
FINANCE	59	37.0	143.00	145.00	132.00-147.50	-	-	-	4	14	29	9	3	-	-	-	-	-	-	-	-	-	-	-	-	
MANUFACTURING	653	39.5	172.50	164.50	140.00-182.50 148.50-185.00 138.00-179.00	_	6 - 6	66 13 53	18	266 65 201	94	75	308 112 196	71 175	222 101 121	79 41 38	105 26 79	215 3 212	8 7 1	19	6	2	-	-	3	
NONMANUFACTURING	607	37.5	153.00	148.00	134.50-163.50 143.00-172.50	=	-	21	82 13		123	92 25	58 37	56 38	39 14	11	26 11	-	-	-	-	-	-	-	-	
TYPISTS, CLASS A	283	39.5	187.50	177.00	155.50-213.50 162.50-200.00	_	=	2	17	43 12	96 19	31	125 47	133	126 56 70	4 8 2 3	64 19 45	124 3 121	3	19	2	2		5		
NONMANUFACTURING	317	37.5	167.00	161.00	153.50-224.50 148.00-178.50 153.50-179.50	=	=	-	17 8 8	31 24 5	77 61 13	75 58 7	78 36 32	88 54 22	39 14	25 11 4	26 11	-	- 0	-	=	=	Ĩ.	=	-	
TYPISTS. CLASS B					134.50-168.00 140.00-173.00	-	6	11	18	223 53	75	4.4	65	113 26	96 45	31 18	41 7	91	4	Ē.	4 4	_		_	-	
NONMANUFACTURINGFINANCE					132.00-166.00 126.50-147.50	-	6	53 21	192 74	170 75	242 62	160 34	118 22	87 2	51 -	13	34 -	91	_	_	-	-	-	-	-	
MANUFACTURING	128	39.0	161.00	147.00	124.50-161.50 132.50-175.00	-	25	1	29	126 15	35	55	56 3	16	19	13	12	30	_	10 10	1	-	- 2	ē	- 2	
NONMANUFACTURING WHOLESALE TRADE FINANCE	171	40.0	140-00	130.00	120.00-160.00 120.00-150.00 123.00-152.00	_ _ _	25 11	69 4 57	93 48 35	111 48 62	80 16 55	. 26 13	53 15 33	30 7 20	10 - 5	1 2 6 5	11 1 -	2 9 - -	-	-	_	_	2	_	=	
FILE CLERKS. CLASS B					130.00-168.00 140.00-175.00	-	7	42	27	61 7	55 28	2 2 5	28 2	26 13	6 1	7	7	22	_	10 10	_	_	=	- 5	_	
NONMANUFACTURINGFINANCE	245 133				125.00-164.00 119.00-142.50	-	7	4 2 35	18 11	54 47	27 14	17	26 8	13 10	5 -	7	7	22	_	_	_	_	-	-	_	
FILE CLERKS+ CLASS C	227	38.5	128-50	126.50	120.00-135.50 120.00-133.50	-	18 18	28 27	95 75	65 57	24 17	27 27	6 5	1	1 -	_	_	-	-	_	-	-	-	-	_	
WHOLESALE TRADEFINANCE	123 82				120.00-140.00 114.00-130.50	-	11	22	46 24	41 15	5	26	5	-	-	-	-	-	-	_	-	-	-	-	-	
MESSENGERS	131	39.0	161-00	148.00	121.00-172.50 132.50-180.00	-	25	4 2	109	45 32	33 15	57 5	36 12 24	27 17 10	29 14 15	12 9 3	7 4 3	39 2 37	8 1 7	1	-	-	÷	-	_	
NONMANUFACTURING PUBLIC UTILITIES FINANCE	66	40.0	227.00	241.50	120.00-167.00 192.00-251.00 123.00-157.50	3	25	15	23	13	18 1 9	52 3 26	2 7	5	7	1 -	3	37	7	_	-	-	2	-	1 -	
WANUFACTURING	424 117				124.00-185.50 161.00-210.00	10	27 3	40	102	22	35 14	11	26 17	24 13	39 17	29 18	10	25	8	4	9	3	-	-	-	
NONMANUFACTURING	307	39.5	147-00	125.00	121.00-169.50 226.00-254.00	10	24	38	102	22	21	1	9	11	22	11	6		8	_	_	-	-	-	-	
SERVICES					114.00-125.00	10	16	29	85	3	1	+	1	2	7	-	2	-	-	-	-	-	-	-	-	

Table A-1. Weekly earnings of office workers in Cleveland, Ohio, September 1978—Continued

Occupation and industry division ALL WORKERS CONTINUED SWITCHBOARD OPERATOR-RECEPTIONISTS- MANUFACTURING NONMANUFACTURING	Number of workers 6 37 266 371 151		\$	Mediun ²	Middle range ²	and under	100	110	120	130	140	\$ 150	\$ 160	\$ 170	180	\$ 200	\$ 220	2 40	260	280	300		\$ 340	\$ 360	\$ 380
CONTINUED SWITCHBOARD OPERATOR-RECEPTIONISTS- MANUFACTURING NONMANUFACTURING	266 371		\$			100	110				-	-	-	-	-	-	-	-	-	-			_	_	_
CONTINUED SWITCHBOARD OPERATOR-RECEPTIONISTS- MANUFACTURING NONMANUFACTURING	266 371		\$				110	120	130	140	150	160	170	180	200	220	240	260	280	300	320	340	360	380	400
MANUFACTURING	266 371		>	I in																					
NONMANUFACTURING	371	39.5			140-00-167-00		-	-	67		136	96	133	42	50	25	17	3	1	2	_	_	-	_	_
					148-00-170-00		-	-	27	11	45	46	64	26	24	7	6	1	1	2	-	-	-	-	-
	131				140-00-164-50		_	_	40	48	91	50	6 9 30	16	26 13	18 14	11	2	-	-	-	-	_	-	_
FINANCE	121				132-50-161-00		_	_	13 19	13 34	57 5	26	32	- [5	17	_	2	_	_	_	_	_	- 31	_
SERVICES	74				140.00-167.00		-	-	8	-	25	16	7	8	6	4	-	-	-	-	-	-	-	-	-
DER CLERKS	763				161.00-230.00		2	-	5	35	31	62	117	93	57	84	104	60	79	11	12	6	4	-	-
MANUFACTURING	306				171.50-241.50		_	-	3	25	3	14	28	32	35	46	33	55	12	1	9	6	4		_
NONMANUFACTURING	457 413				160.00-224.50 160.00-226.00		2	-	2 1	10 10	28 27	4 B	89 78	61 50	22 22	38 25	71 71	5 5	67 67	10 10	3	-	_	-	_
ORDER CLERKS. CLASS A	342				176.50-268.00		_	-	_	12	7	16	27	26	16	40	53	4.6	78	11	3	5	2	-	-
MANUFACTURING	131				213.00-253.00		-	-	-	2	2	6	10	4	7	15	25	41	11	1	_	5	2	-	_
WHOLESALE TRADE	211 211	40.0	219.50 219.50	226.00	170.00~268.00 170.00~268.00	-	_	-	-	10 10	5 5	10 10	17 17	22	9	25 25	28 28	5	67 67	10 10	3	-	-	_	_
DRDER CLERKS. CLASS B	421	39.5	182.00	175.00	160.00-201.50	1	2	_	5	23	24	46	90	67	41	44	51	14	1	_	9	*1	2	_	_
MANUFACTURING	175	39.5	193.00	184.00	165.00-211.50	-	-	-	3	23	1	8	18	28	28	31	8	14	1	_	9	1	2	-	-
NONMANUFACTURING	246				155.50-186.00		2	_	2	-	23	3 8	72	39	13	13	43	-	-	_	-	-	-	-	-
WHOLESALE TRADE	202	40.0	174-50	160.00	150.00-180.00	-	1.7	-	1	-	22	34	61	28	13	-	43	-	-	-	-	-	-	-	-
MANUFACTURING	3+405 1+441				156.00-224.50		.0	34 19	83 18	24 4 68	249 118	334 133		269 94	543 239	307 163	195 107	273 129	242 57	39 28	37 28	46 39	34 20	25 25	-
NONMANUFACTURING	1.969				153-50-214-00		_	15	65	176	131	201		175	304	144	88	144		11	9	7	14	20	_
PUBLIC UTILITIES	369				251.00-263.50		-	-	-	-	_		1	7	11	27	19	110	160	8	7	5	14	4	-
WHOLESALE TRADE	612				150-00-184-00		-	-	10	57	43	104	148	58	99	30	32	7	20	_	2	2	0.4	-	_
FINANCE	364				152.00-196.00		-	1	10	35	32	39	58	40	68	50	21	7	3	-	-	-		-	-
SERVICES	235	38.5	174.00	180.00	142.00-195.00	-	-	-	23	34	20	11	22	5	82	15	5	16	-	2	-	-	-	-	-
ACCOUNTING CLERKS. CLASS A					186-00-260-50		-	-	5	5	ц0 26	40 25	94 36	88 29	261 112	210 121	117	167 98	226 52	24	35	22 15	34 20	25 25	-
NONMANUFACTURING	674 719				191.00-253.00 183.50-263.50			_	5	2	14	15	58	59	149	89	48	69	174	16	28 7	7	14	23	
PUBLIC UTILITIES	241				257.00-263.50			_	_	_	14	- 19	20	37	2	10	10	40	149	5	5	5	14	-	-
WHOLESALE TRADE	93				178.00-260.50		_	_	_	_	1	4	10	12	12	11	14	5	20	_	2	2		_	_
FINANCE	180				171-50-209-50		-	-	5	2	9	4	28	21	49	45	12	7	3	-	_	-	-	-	_
SERVICES	93	38.5	200.50	190.00	190.00-204.00	-	-	-	-	-	5	-	2	1	53	13	3	1.4	-	2	-	7	-	-	-
ACCOUNTING CLERKS+ CLASS B	2+012				148-00-186-00		_	34	78	239	20 9 92	294	357 120	181 65	282 127	97 42	78 38	106 31	16 5	15	2	24 24	Ē	-	-
NONMANUFACTURING	767 1+245				150.00-193.00 145.00-184.00			19 15	18 60	66 173		10 8 186		116	155	55	40	75	11	12	2	24	-		_
PUBLIC UTILITIES	128				217.00-256.00		_	13	-	113		100	1	116	1,7,7	17	9	70	11	3	2	_	_	-	_
WHOLESALE TRADE	519				150.00-178.00		_	_	10	57	4.2	100	_	46	87	19	18	2	-	_	_	_	-	_	_
FINANCE	184				145.50-171.50		-	1	5	33	28	35	30	19	19	5	9	_	-	1	_	_	_	_	_
SERVICES	142				138.00-178.00		-	-	23	34	15	11	20	4	29	2	2	2	-	-	-	-	-	-	-
OKKEEPING-MACHINE OPERATORS	147				146.00-187.50		-	2	9	16	23	28	22	6	18	10	5	7	1	-	-	-	-	-	-
MANUFACTURING	75 72				150.00-187.50 133.00-163.00		- 5	2	9	7 9	7 16	23 5	7 15	6	16 2	3 7	5	1 6	1	=	_	_	_	_	_
BOOKKEEPING-MACHINE OPERATORS+																									
CLASS B	104				144.50-174.00		-	2	7	16	14	23	14	3	12	3	5	5	-	_	-	-	-	-	-
MANUFACTURING	60	39.0	170.50	159.00	150.00-192.00	-	-	-	-	7	4	20	7	3	10	3	5	1	-	-	-	-	-	-	-

Table A-1. Weekly earnings of office workers in Cleveland, Ohio, September 1978—Continued

					y earnings ⁴ andard)	Numb	er of v	vorke	s rec	eiving	straig	ght-tir	ne we	ekly e	arning	s of										
Occupation and industry division	Number of workers	Average weekly hours l (standard	Mean ²	Median ²	Middle range ²	90 under	-	110	120	-	140	-	160	170	180	200	220	240	-	-	-	-	\$ 340 -	-	-	and
						100	110	120	1 30	140	150	160	170	180	200	220	240	260	280	300	320	340	360	380	400	ove
ALL WORKERS CONTINUED																										
ACHINE BILLERS	92 60				160.00-213.00 160.00-218.00		7	2	2	5 4	3	12 11	13	-	21 9	16 16	9	7	-	-	-	-	_	Ē	-	
AYROLL CLERKS MANUFACTURING NONNANUFACTURING HHOLESALE TRADE	640 392 248 69	39.5 39.5	208.50 189.50	193.50 186.00	161.00-236.00 166.50-241.00 150.00-227.00 130.00-180.00	_	-	7 - 7 -	22 22 17	20 7 13 12	31 19 12 7	63 36 27 2	79 58 21 8	27 17 10 4	127 83 44 11	57 30 27 6	54 41 13	70 45 25	33 13 20 1	13 8 5	7 7 -	17 16 1	13 12 1	-	-	
MANUFACTURING	689 881 182 373	39.5 39.0 40.0 39.5 37.5	198.50 176.00 225.00 169.00 156.00	184.00 171.00 234.50 171.00 158.00	158.00-205.50 165.50-221.00 150.00-194.00 205.00-251.50 150.00-186.00 135.00-170.50 144.00-176.03	1	3	8 3 5 - - 1	97 12 85 - 36 35 5	58 12 96 13 14	103 35 68 32 11	156 58 98 5 36 46	165 78 87 8 36 24 2	263 103 160 14 91 20 24	273 133 140 17 94 17	141 82 59 24 22 7	107 62 45 33 9	79 22 57 53 4	55 27 28 28 -	29 29 - - -	16 16 - - -	6 6	11	11111111	1411411	
KEY ENTRY OPERATORS CLASS A MANUFACTURING	717 404 313 84 111 74	39.5 39.0 40.0 39.5	207.50 195.00 237.50 189.50	195.00 188.50 238.00 188.00	173.00-221.00 174.50-225.00 171.00-213.50 213.50-262.00 177.50-203.00 164.00-188.00	-	11(1)11	1.00	2	10 - 10 - - 6	18 8 10 - 2 3	54 36 18 - 6 7	73 40 33 - 10 16	112 59 53 2 25 19	152 86 66 2 39 16	116 60 56 23 21	57 37 20 16 4	32 15 17 13 4	48 20 28 28	11	16 16 - - -	5	11 11 -	110		
KEY ENTRY OPERATORS. CLASS B MANUFACTURING NONMANUFACTURING	568 98 262	39.5 39.0 40.0 39.5	186.00 165.50 214.00 160.50	173.00 160.00 228.50 160.00	146.00-185.00 159.00-207.00 140.00-178.00 178.50-249.00 140.00-175.00 126.50-158.00	1	3 - 3	8 3 5 - 1	95 12 83 - 36 35	48 12 36 - 13 8	85 27 58 - 30 8	102 22 80 5 30 39	92 38 54 8 26	151 44 107 12 66 1	121 47 74 15 55	25 22 3 1	50 25 25 17 5	47 7 40 40 -	7 7	18	0.11.611	1		111111	11111	

Table A-2. Weekly earnings of professional and technical workers in Cleveland, Ohio, September 1978

					ly earnings ' tandard)	Num	ber of	worke	ers re	ceivin	_	_	me we	ekly e	arning	gs of—										
Occupation and industry division	Number of workers	Average weekly hours! (standard)	Mean ²	Median 2	Middle range ²	and under	140	160	180	200	220	240 -	260	280	300	320	340 -	360	380	-	420	9 60	500	540	580	and
	-	-	1	-		140	160	180	200	220	240	260	280	300	320	340	369	380	400	420	460	5 00	540	580	620	ove
ALL WORKERS																										
MPUTER SYSTEMS ANALYSTS					f f																					
BUSINESS)	706	39.0	407.50	405.00	345.00-474.00	_	_	-	_	2	5	8	20	33	54	44	53	59	50	77	86	117	64	26	4	
MANUFACTURING	342				361-50-475-00	-	-	-	-	_	2	1	6	15	16	16	29	36	32	29	57	43	40	14	4	
NONMANUFACTURING	364	39.0	399.00	401.50	326.50-474.03	-	-	-	-	2	3	7	14	18	38	28	24	23	10	48	29	74	24	12	-	
FINANCE	113	38.5	333-50	334.00	304.00-359.50	-	-	_	-	2	2	4	8	9	18	23	19	12	6	3	5	2	-	-	-	
COMPUTER SYSTEMS ANALYSTS																										
(BUSINESS) + CLASS A	307	39.0	451.00	435.00	400.50-508.50	-	_	-	-	-	-	_	-	_	1	7	12	27	27	53	46	46	56	24	4	
MANUFACTURING					394-50-510-50	-	-	_	-	_	-	-	-	-	_	4	6	23	18	18	31	33	39	12	ц	
NONMANUFACTURING					401-50-502-50	-	-	-	-	-	-	-	-	-	1	3	6	Ą	9	35	15	13	17	12	-	
PUBLIC UTILITIES	42	39.0	517.50	515.50	489.50-544.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	10	16	12	-	
COMPUTER SYSTEMS ANALYSTS		-																								
(BUSINESS)+ CLASS B	327	39.0	388.50	376.00	323.00-459.00	-	_	_	-	1	1	-	6	22	46	29	35	31	20	20	36	70	8	2	-	
MANUFACTURING					325.00-429.50		_	-	-	_	-	-	4	13	12	6	18	12	11	9	25	9	1	2	-	
NONMANUFACTURING					323.00-474.50		-	-	-	1	1	_	2	9	34	23	17	19	9	11	11	61	7	-	-	
FINANCE	69	38.5	333.50	335.50	317-00-355-00	-	_	_	-	1	_	_	2	5	14	19	15	9	1	3	-	-	-	-	-	
COMPUTER SYSTEMS ANALYSTS																										
(8USINESS) + CLASS C	72	39.0	311.00	297.50	264.50-347.00	-	-	-	_	1	4	8	14	11	7	8	6	1	3	4	4	1	-	-	-	
OMPUTER PROGRAMMERS (BUSINESS)	965	39.0	327 - 50	324.50	267.50-383.50	_	_	2	18	16	73	98	74	90	91	9.0	ОД	69	96	54	70	17			_	
MANUFACTURING					289.50-373.00	_	_	_	3	3	16	41	36	58	55	66	43	59		26	19	4	Å	_	_	
NONMANUFACTURING					250.00-392.50	-	_	2	15	13	57	57	38	32	36	24	51	10	_	28	51	13	2	5	-	
PUBLIC UTILITIES					388.50-445.00	_	_	_	_	-	3	_	6	7	4	2	5	3		22		13	2	5	_	
WHOLESALE TRADE	142	39.5	275.00	255.00	233.50-322.50	-	_	-	15	-	28	29	10	9	13	8	27	-	1	1:	1	_	_	-	-	
FINANCE	139				246.00-340.50	-	-	_	-	6	24	19	14	12	15	12	19	7	2	5	4	-	-	-	-	
COMPUTER PROGRAMMERS (BUSINESS).					-																1					
CLASS A	319	39.0	373.50	370.00	336-00-405-50	_	-	_	_	-	_	3	3	20	32	31	51	36	55	30	34	11	8	5	_	
MANUFACTURING	200				329.50-396.50	-	-	_	-	-	_	3	-	17	18	26	25	31	34	18	18	4	6	_	_	
NONMANUFACTURING					345.00-420.00		-	-	=	_	-	-	3	3	14	5	26	5	21	12	16	7	2	5	_	
PUBLIC UTILITIES	32	39.0	466.50	449.00	430-00-497-00	-	-	-	-	_	-	-	-	-	-	-	-	-	-	6	12	7	2	5	~	
COMPUTER PROGRAMMERS (BUSINESS).																										
CLASS B	484	39.5	319.50	312.50	263-50-373-00	-	-	1	5	7	37	63	39	61	51	50	33	30	0.1	24	36	6	-		-	
MANUFACTURING	194				280.00-340.00		-	-	_	3	10	15	20	35	31	31	8	25		8		_	_	-	_	
NONMANUFACTURING					251.50-392.50		-	1	5		27	48	19	26	20	19	25	5	34	16	35	6	_	-	_	
WHOLESALE TRADE					235.00-300.50 249.00-328.00		-		5	1	19 8	28 13	5 4	9	3 11	6	13	-	-	-	1	_	-	-	-	
THRACE		31.03	270.00	247.00	247.00 328.00						0	1.5	•	,		,	,	2	_	_	-	_	_	_	_	
COMPUTER PROGRAMMERS (BUSINESS).																										
CLASS C					230-50-279-00		-	1	13	9	36	32	32	9	в	9	10	3	-	-	-	-	_	-	_	
MANUFACTURING					256-00-320-00		_	_	3		6	23	16	6	6	9	10	3	_		-	_	-	-	-	
NONMANUFACTURING	80	58.5	256.50	231.50	219.50-262.00	-	-	1	10	9	30	9	16	3	2	-	-	-	-		_	-	-	-	-	
OMPUTER OPERATORS	1.028	39.5	232.50	224.50	187-00-263-50	4.8	58	92	128	163	123	59	190	56	17	27	8	18	8	5	28	_	_	_	_	
MANUFACTURING					209.00-280.50		6	23	45	60	85	32	37	38	16	11	8	18		5		_	_	_	_	
NONMANUFACTURING					174-50-263-50			69		103	38		153	18	1		_		_	_	15	_	-	-	-	
WHOLESALE TRADE					160.50-209.50			37			12	12	5	1	1		-	-	-	_	-	-	_	_	-	
FINANCE		38.5	191.00	183.50	152.00-230.50	29	24	25	18		12	8		3	-	_	-	-	-	~	-	-	_	_	_	
SERVICES	57	39.5	255.00	224.50	210.00-291.00	-	-	-	-	26	6	-	1	12	-	12	-	-	-	-	-	-	-	-	-	
	1			1																	l					
	1	1	1	I .	1	1															1					

Table A-2. Weekly earnings of professional and technical workers in Cleveland, Ohio, September 1978—Continued

					y earnings ¹ andard)	Num	ber of	worke	ers rec	eivin	g strai	ght-ti	me we	ekly e	earning	gs of—	-									
Occupation and industry division	Number of workers	Average weekly hours! (standard)	Mean 2	Median 2	Middle range ²	and under	140	160 -	180	-	220	240	260 -	280	300	320	340	360	3 80	-	420 -	4 60	500	540 -	580	aı
ALL WORKERS CONTINUED						140	160	180	200	220	240	260	280	300	320	340	360	360	400	420	460	500	540	580	620	01
MPUTER OPERATORS - CONTINUED																										
COMPUTER OPERATORS, CLASS A MANUFACTURING NONMANUFACTURING	198 106 92	39.5	275.50	268.50	231.50-315.00 233.50-299.00 228.00-333.00	-	1	1	6	20 7 13	34 25 9	1 9 1 4 5	30 19 11	31 15 16	11 11	20 4 16	1 1 -	3 3 -	6 6 -	-	16 1 15	-	5 -	- - -	-	
COMPUTER OPERATORS, CLASS B MANUFACTURING	483 226 257 43 110 61	39.5 39.0 38.5 39.5	265.00 210.00 248.50 198.00	236.00 206.50 273.00 192.00	200.00-264.50 217.00-290.00 180.00-223.50 214.00-274.00 180.00-210.00 171.00-244.50		5 - 5 - 3	42 5 37 - 14 19	73 15 58 - 49 8	131 50 81 14 32 6	68 47 21 2 5 8	28 16 12 5 3	58 18 90 21 5	25 23 2 1	6 5 1 - 1	7 7	7 7 - -	1 9 1 9 - - -	2 2 - - -	5	12 12 - - -	-	-	-	- - - -	
COMPUTER OPERATORS, CLASS C MANUFACTURING	347 84 263 65 67	39.5 39.5 39.5	186.50 203.50 170.50	183.50 197.00 160.00	154.50-263.50 168.00-196.50 152.00-263.50 155.00-173.00 138.00-158.00	48 11 37 5 29	53 6 47 23 21	49 18 31 23 5	49 30 19 2 7	12 3 9 - 4	21 13 8 4	12 2 10 8	102	-	3		-	1 1 - -	-	1 1 1 1	- - - -	-	-	-	-	
AFTERS	1+392 988 404 260	40.0 40.0	284.50 261.00	286-00 271-00	234.50-324.00 236.00-334.50 220.00-299.00 199.50-307.00	14 14 14	28 21 7 7	62 31 31 23	84 57 27 26	75 58 17 16	117 92 25 21	146 92 54 46	208 106 102 14	150 123 27 18	137 100 37 36	113 93 20 19	121 96 25 20	74 63 11	15 9 6	94	4 3 1 -	-	11111	114	1	
DRAFTERS, CLASS A	548 447 101	40-0	328-00	324.50	295.50-355.00 291.50-355.50 307.00-351.00	-	-	-	~	-	7	3	48 48 -	96 79 17	109 74 35	90 71 19	87 66 21	51 43 8	9	44	4 3 1	- - -	-	-	-	
DRAFTERS, CLASS B	537 349 188	39.5	269-50	260.90	241.50-280.50 234.50-299.00 253.00-276.00	-	-	5 5 -	18 17 1	37 29 8	60 48 12	123 74 49	149 54 95	42 35 7	25 23 2	20 19 1	29 25 8	23 20 3	6 - 6	- -		- -	-	-	-	
DRAFTERS, CLASS C	275 167 108	40.0	217-00	215.00	175.00-229.50 184.00-235.50 161.00-207.00	14 - 14	23 16 7	50 20 30	53 27 26	37 28 9	50 37 13	15 15 -	10 4 6	12 9 3	3	3	5 5 -	-	- -	-	-	-	=	-	-	
ECTRONICS TECHNICIANS	605 361				233.00-307.00 219.50-283.00	_	-	12 12	17 17	62 62	113 73	50 38	90 53	86 62	64 14	34	19	13	12	3	24 24	6 -	_	_	_	
ELECTRONICS TECHNICIANS. CLASS A- MANUFACTURING	302 116				262.00-331.00 221.50-281.00	-	-	-	-	26 26	27 20	18 18	46 22	33 9	56 6	34 4	19	13	12	3	9	<u>6</u> -	Ξ	_	-	
ELECTRONICS TECHNICIANS, CLASS B- MANUFACTURING	165 146				244.00-289.00 238.00-289.00	_	-	_	_	7	33 33	14	37 24	51 51	8 8	_	-	_	-	-	15 15	-	-	_	=	
ELECTRONICS TECHNICIANS: CLASS C- MANUFACTURING	138 99				203.00-239.00 195.50-239.00	-	-	12 12	17 17	29 29	53 20	18 12	7	2	_	-	=	-	-	-	-	=	-	-	_	
GISTERED INDUSTRIAL NURSES	173 155				256.50-335.00 256.00-335.00	0	-	Ç	1	2	9	35 33	29 28	26 22	11 7	23 23	14 11	12	8	2 2	1	=	-	-	-	

Table A-3. Average weekly earnings of office, professional, and technical workers, by sex, in Cleveland, Ohio, September 1978

	l	(m	eaz ²)			Ave (me	mge an ²)			Ave (me	an ²)
Sex, 3 occupation, and industry division	Number of workers	Weekly hours (standard)	Weekly earnings ¹ (standard)	Sex, 3 occupation, and industry division	Number of workers	Weekly hours ¹ (standard)	Weekly earnings! (standard)	Sex, 3 occupation, and industry division	Number of workers	Weekly hours (standard)	Week earnin (stand
OFFICE OCCUPATIONS - MEN				OFFICE OCCUPATIONS -				OFFICE OCCUPATIONS -			
MECCENOEDC			\$	WOMENCONTINUED] i	WOMENCONTINUED			
MESSENGERS	243		158-50	SECOSTADISS - CONTYNUED				FILE CLERKS - CONTINUED			
NONMANUFACTURING	176		156.50	SECRETARIES - CONTINUED			c	FILE CLERKS - CONTINUED			\$
FINANCE	67		148.00	SECRETARIES. CLASS E	458	38.5	174.50	FILE CLERKS. CLASS C	265	39.0	129
]	MANUFACTURING	188	40.0	190.50	NONMANUFACTURING	227		
ORDER CLERKS	317		219.00	NONMANUFACTURING	270		164.00	WHOLESALE TRADE	123		
MANUFACTURING	77		254.00	FINANCE	204		165.50	FINANCE	82	36.5	12
NONMANUFACTURING	240 240		208.00	SERVICES	59	37.5	160.50	HEREFUEEN	202	38.5	1 7
WHOLESALE TRADE	240	40.0	200.00	STENOGRAPHERS	695	39.0	205.00	MANUFACTURING	64	39.5	
ORDER CLERKS. CLASS A	231	40.0	229.50	MANUFACTURING	420		212.00	NONMANUFACTURING	138	38.0	
MANUFACTURING	51	40.0	254.50	NONMANUFACTURING:		3,43					
NONMANUFACTURING	180		222.50	FINANCE	135	38.0	165.50	SWITCHBOARD OPERATORS	405		15
WHOLESALE TRADE	180	40.0	222.50	<u> </u>	1			MANUFACTURING	115	39.5	
ADDED OFFDER CLASS D				STENOGRAPHERS. GENERAL	359		200.50	NONMANUFACTURING	290		
ORDER CLERKS. CLASS B	86	40.0	191.00	MANUFACTURING	176		212.00	SERVICES	156	37.3	12
CCOUNTING CLERKS:	1			NONMANUFACTURING	183	39.0	189-50	SWITCHBOARD OPERATOR-RECEPTIONISTS-	637	39.0	15
MANUFACTURING	116	39.5	258.00	FINANCE	83	38.3	100.50	MANUFACTURING	266		
				STENOGRAPHERS. SENIOR:	!			NONMANUFACTURING	371	38 • 5	15
ACCOUNTING CLERKS. CLASS A:				MANUFACTURING	244	39.5	212.00	WHOLESALE TRADE	151		
MANUFACTURING	82	40.0	287.50	NONMANUFACTURING:	İ			FINANCE	121		
	1			FINANCE	52	37.5	174-00	SERVICES	74	38.5	15
OFFICE OCCUPATIONS - WOMEN				TO A MECOTOTAL MACHINES THOUGHT					0.04	39.5	1.0
ECRETARIES	3,906	30 0	220.50	TRANSCRIBING-MACHINE TYPISTS	288 81		181.00	MANUFACTURING	446 229		
MANUFACTURING			238.00	NONMANUFACTURING:	0.1	70.0	101.00	NONMANUF ACTURING	217		
NONMANUFACTURING	1.950		202-50	FINANCE	59	37.0	143.00	WHOLESALE TRADE	173		
PUBLIC UTILITIES	226		256.00		-				'		1
WHOLESALE TRADE	319	39.5	204.50	TYPISTS	2+160	39-0	159-00	ORDER CLERKS. CLASS A	111		
FINANCE	765		197.50	MANUFACTURING	643	39.5	172.00	MANUFACTURING	80	38.5	21
SERVICES	420	37.5	185.50	NONMANUFACTURING:					775	39.5	
SECRETARIES. CLASS A	200	70.0	272.00	FINANCE	604		153.00	ORDER CLERKS. CLASS B	335 149	l	
MANUFACTURING	294 192		284.50	SERVICES	225	38.5	160-50	MANUFACTURING	186		
NONMANUFACTURING	102		247.50	TYPISTS+ CLASS A	776	38.5	176.50	WHOLESALE TRADE	142		
		3.00		MANUFACTURING	280		186.50				
SECRETARIES. CLASS B	842	39.0	242.00	NONMANUFACTURING:				ACCOUNTING CLERKS	2,968		
MANUFACTURING	414		260.50	FINANCE	315		167.00	MANUFACTURING	1,315		
NONMANUFACTURING	428		224.50	SERVICES	116	38.5	169.50	NONMANUFACTURING	1,653		
PUBLIC UTILITIES	51		284.50	TABLETS OF THE D	. 700	70.0	440 50	WHOLESALE TRADE	581 333		
WHOLESALE TRADE	71 127		229.50	TYPISTS+ CLASS B	1,384		149.50	FINANCE	225		
FINANCE	121	3000	234850	MANUFACTURING			145.50	SERVICES	""		-
SECRETARIES. CLASS C	1+170	39.0	224.50	FINANCE	289		137.50	ACCOUNTING CLERKS+ CLASS A	1.081	39.0	3 2
MANUFACTURING	585		239.50					MANUFACTURING	588	39 . 5	5 2
NONMANUFACTURING	585			FILE CLERKS	607		142.00	NONMANUFACTURING:	1	i .	. .
PUBLIC UTILITIES	76		251.00	MANUFACTURING	125		160-50	WHOLESALE TRADE	75		
WHOLESALE TRADE	123		203-50	NONMANUFACTURING	482		137.00	FINANCE	154	37.5	
FINANCE	238		206-00	WHOLESALE TRADE	171		140.00	SERVICES	84	300:	` *`
SERVICES	75	35.5	225.50	FINANCE	261	2000	135.50	ACCOUNTING CLERKS. CLASS B	1,887	39.0	11
SECRETARIES. CLASS D	1.087	38.5	205.50	FILE CLERKS+ CLASS A	70	37.5	169.50	MANUFACTURING	727	1	
MANUFACTURING	565		221.50		, ,			NONMANUFACTURING	1		
NONMANUFACTURING	522		188.00	FILE CLERKS. CLASS B	272	38.0	147.50	WHOLESALE TRADE	506	39.0	
PUBLIC UTILITIES	80		224.00	MANUFACTURING	75	39.0	167.50	FINANCE	179		
WHOLESALE TRADE	99		190.00	NONMANUFACTURING: FINANCE			l	SERVICES	141	38 - 5	5 1
FINANCE		38.0	192.00				136-00				

Table A-3. Average weekly earnings of office, professional, and technical workers, by sex, in Cleveland, Ohio, September 1978—Continued

			rerege ean ²)				emge				erage (an ²)
Sex, 3 occupation, and industry division	Number of workers	Weekly hours (standard)	Weekly earnings l (standard)	Sex, 3 occupation, and industry division	Number of workers	Weekly hours I (standard)	Weekly earnings ¹ (standard)	Sex, 3 occupation, and industry division	Number of workers	Weekly hours* (standard)	Weekly earnings (standard
OFFICE OCCUPATIONS - WOMENCONTINUED			s	PROFESSIONAL AND TECHNICAL OCCUPATIONS - MENCONTINUED				PROFESSIONAL AND TECHNICAL OCCUPATIONS - MENCONTINUED			
BOOKKEEPING-MACHINE OPERATORS	147 75	39.0	166.00 170.50	COMPUTER SYSTEMS ANALYSTS (BUSINESS) - CONTINUED				DRAFTERS	1 • 188 894		276.! 281.0
NONMANUFACTURING	72	38.5	161-50	COMPUTER SYSTEMS ANALYSTS (BUSINESS) CLASS A	251	39.0	\$ 449.50	NONMANUFACTURING: SERVICES	222	40.0	252.5
CLASS 8	104 60		163.00 170.50	MANUFACTURING			459.00	DRAFTERS+ CLASS A	511 412		322.5 321.5
MACHINE BILLERS	90 58		177.00 190.50	(BUSINESS) CLASS B:	116	39.5	379.00	DRAFTERS. CLASS B MANUFACTURING	410 300		268.5 267.5
PAYROLL CLERKS	588 367		195.50 203.50	COMPUTER SYSTEMS ANALYSTS (BUSINESS)+ CLASS C	54	39.0	318.00	DRAFTERS+ CLASS C	243 159		203.5
NONHANUFACTURING	221 69		183.00 156.50	COMPUTER PROGRAMMERS (BUSINESS) MANUFACTURING	674 369		325.00	NONMANUFACTURINGELECTRONICS TECHNICIANS	84	40.0	178.5
MANUFACTURING	1+507 674		184.00 196.50	NONMANUFACTURING: WHOLESALE TRADE			263.50	MANUFACTURING	573 329		262.0
NONMANUFACTURING	833 372 173	39.5	173.50 169.00 155.50	COMPUTER PROGRAMMERS (BUSINESS)+	105	37.5	308-00	ELECTRONICS TECHNICIANS, CLASS A-	298 112		302.0 269.5
SERVICES	53	39.5	166.50	CLASS A	157	39.5	369-00 371-00	ELECTRONICS TECHNICIANS+ CLASS B- MANUFACTURING	159 140		281.5
KEY ENTRY OPERATORS. CLASS A MANUFACTURING NORMANUFACTURING	696 390 306	39.5	200.50 204.00 195.50	NONMANUFACTURING	93	38 • 5	366.00	ELECTRONICS TECHNICIANS. CLASS C-	116	40.0	218.5
PUBLIC UTILITIES	81 110	40.0 39.5	238.00 189.50	CLASS 8: MANUFACTURING	155	40.0	314.00				
FINANCE KEY ENTRY OPERATORS CLASS 8	72 811		169.50	NONMANUFACTURING: WHOLESALE TRADE	76	39.5	272.00	PROFESSIONAL AND TECHNICAL OCCUPATIONS - WOMEN			
MANUFACTURING	284 527 262	39-0	186.00 161.00 160.50	COMPUTER PROGRAMMERS (BUSINESS)+ CLASS C MANUFACTURING	100 57		274-00 292-50	COMPUTER PROGRAMMERS (BUSINESS):	103	39.5	311-0
FINANCE	101		143.50	COMPUTER OPERATORS	668	39.5	234.50	COMPUTER PROGRAMMERS (BUSINESS).			
PROFESSIONAL AND TECHNICAL				MANUFACTURING	325 131		258.50 190.50	CLASS C	62	39 a U	238.5
OCCUPATIONS - MEN				FINANCE	122 174		201.00	MANUFACTURING	86		186.5
COMPUTER SYSTEMS ANALYSTS (BUSINESS)	512		403.50	MANUFACTURING	95 79	39.5	276.00 277.50	COMPUTER OPERATORS CLASS B	139	39.5	224-0
MANUFACTURING	312 80	1	420.50 335.50	COMPUTER OPERATORS. CLASS B	341 182		239.50 269.00	NONMANUFACTURING	98 26		253-5
, AMMRGG	50	,,,,,	,,,,,,,	NONMANUFACTURING	159 76	39.0		REGISTERED INDUSTRIAL NURSES	167 155		297.0

Table A-4. Hourly earnings of maintenance, toolroom, and powerplant workers in Cleveland, Ohio, September 1978

			Hourly ea	mings 4	Numbe	er of v	vorker	s rece	eiving	straig	ht-tin	ne hou	rly ea	rnings	of—											
Occupation and industry division	Number of workers	2	,	,			\$ 5.20			\$ 5.80				\$ 7.00						_	-	-	s s 0.6011	.0011	-4011	1-801
	WOLKELS	Mean	Median	Middle range ²	5.00	ınder	5.40	- 5.60	5.80	6.00	- 6.20	6.60	7.00	7.40	7.80	- 8.20	8.60	9.00	9.40	- 9.801	- 0-201	0.601	- 1-0011	.4011	- 8012	2.20
ALL WORKERS																										
NTENANCE CARPENTERS	269 177 92	8 . 4 4	9.20 8.60 12.15	7-13- 9-82	-	2 - 2	-	-	-	5 4 1	8 8 -	25 4 21	9	32 32 -	8 8 -	6 4 2	14 14	23 23	13 13	13 11 2	41 41	6 6 -	2 - 2	1 - 1	-	24
NTENANCE ELECTRICIANS						-	(*)	-	9	20 20	18 18	47 47	105 105	94 80	168 167	54 54	120 119	142 41	29 29	154 152	389 389	319 316	56 55	39 39	18 17	_
NTENANCE PAINTERS	292 133					-	-	3	3	1	-	6 2	7 7	8	7	5 3	10 10	147	10 10	47 47	31 29	Ţ	3	1	2	1
NTENANCE MACHINISTS	542 533					-	.3.	_	7	2	19 19	42 42	58 51	45 45	38 38	89 87	86 86	30 30	15 15	41 41	11 11	29 29	27 27	1	2	-
TENANCE MECHANICS (MACHINERY) - MANUFACTURING MONMANUFACTURING	2+883 2+660 223	8-77	9-43	7.30-10.05	1	-	2 - 2	-	37 37	54 54 -	124 122 2	137 126 11	160 147 13		144 141 3	87 44 43	172 168 4	146 12 134	90 85 5	306 304 2	944 944 -	30 30	79 79 -	33 33	8 8 -	30 30
ITENANCE MECHANICS OTOR VEHICLES)	621	8.94	9.64 8.72	7-40- 9-13	_	3 - 3 3	- - -	10 3 7 7	1 - 1	4 4 2 4 2	25 14 11 7	13 5 8	9 4 5	49 19 30 10	121 56 65 56	45 3 42 26	87 9 78 52	12	136 3 133 105	66 37 29	215 137 78 78	21 21 -	4 4 -	-	- - -	0.0
NTENANCE PIPEFITYERS	683					-	-	11 11		15 15	12 12	8	8 A	47 47	21 21	1	70 70	26 26	3 6 3 6	63 63	348 348	17 17	_	-	÷	
NTENANCE SHEET-METAL WORKERS MANUFACTURING	216					-	_	_		-	50	-	1	1	-	-	17 17	_	-	-	147 147	-	-	_	-	
LWRIGHTS						-	_	-	-	-	-	7	45 45	28 28	110 110	16 16	32 32	_	37 37	110 110	670 670	1	_	-	÷	-
MTENANCE TRADES HELPERS MANUFACTURING	31! 304			5.91- 8.10 5.91- 8.13		3	34 24	7	1	21 21	-	56 56	13 13	33 32	20 20	21 21	40	31 31	1	3	-	1	_	-	-	
HINE-TOOL OPERATORS (TOOLROOM) - MANUFACTURING	762		9.10	7.47- 9.96	~	6	9	18 18	9	6	6	56 56	15 15	60 60	76 76	5	116 116	3	16 16	21 21	335	14 14	-	~	-	
L AND DIE MAKERS	1+898	8.78	8-96	7.72-10.13	-	_	_	-	-	-	-	60	251 251	74 74		108		220		113		3	1	-		
FIONARY ENGINEERS	191	8.57	8 - 63	7.59- 9.83 7.41- 9.86 7.82- 9.00	-	12 9 3		1.1	1	10	1	6 5 1	3 2 1	22 22 -	35 29 6	14 1 13	15 14 1	8	39 11 28	18	37 36 1	20	Ē	3 -	4	
LER TENDERS	177			6.02- 8.59 6.02- 8.59		-	35 35	5	j,	5 5	13 13	5 5	1 4 1 4	5 5	21 21	16 16	23 23	6	-	-	34 34	-	:	-	_	-

^{*} Workers were distributed as follows: 36 at \$12.60 to \$13; and 1 at \$13 to \$13.40.

Table A-5. Hourly earnings of material movement and custodial workers in Cleveland, Ohio, September 1978

			Hourly ea	ımings ⁴	Num	ber of	worke	rs rec	eiving	strai	ght-ti	me ho	urly ea	arning	s of—											
	Number					\$									\$						S			\$	\$	\$ (
Occupation and industry division	of	l .			2.60	2.80	3.00	3.20	3.40	3.60	3.80	4.00	4.40	4.80	5,20	5.60	6.00	6.40	6.80	7 - 20	7.60	8-00	8.40	8.80	9.20	9-6016
	workers	Mean 2	Median ²	Middle range 2	and	_	_	_	_	-	_	_	_	_	_	_	-	-	_	_	_	_	_	_	_	~
					under																					
		ļ			2.80	3.00	3.20	3.40	3.60	3.80	4.00	4.40	4.60	5.20	5.60	6.00	6.40	6.80	7.20	7.60	8.00	8.40	8. 80	9.20	9.601	0.00
ALL WORKERS	ļ		ļ																							
NEE WORKERS	ŀ	\$	s	\$ \$	}																					
CKORIVERS	3,005	7.96	8.72	6.97- 9.13	: -	-	9	10	2	16	8	55	107	43	31	191	182	38	210	154	137	222	88	894	574	26
MANUFACTURING	662			6.20- 8.88	-	_	_	-	2	+	1	8	27	27	25	47	57	21	40	16	120	88	13	135	1	26
NONMANUFACTURING				7.00- 9.13		-	9	10	-	16	7	47	80	16	6	144	125	17	170		17		75	759		-
PUBLIC UTILITIES				9-13- 9-48		-	-		-	_	-	-		-	-	31	4	11	_	33	-	7		700		
WHOLESALE TRADE				6.25- 8.34		-	_	10	-	-	7	19	35	5		48	118	6	60	_	-	127	57	-	35	-
SERVICES	252	5.48	5.73	4.50- 7.00	-	_	9	_	-	16	-	27	45	11	-	64	_	_	80	_	_	_	_	-	_	_
RUCKORIVERS. LIGHT TRUCK	379	5.64	5.73	4.50- 6.96	-	-	9	10	2	16	-	40	48	35	7	72	36	5	8	26	62	2	1	-	-	-
MANUFACTURING	118	6.65	7.51	5.00- 7.69		-	-	-	2	_	-	7	3	19	1	7	3	5	3	11	54	2	1	-	-	-
NONMANUFACTURING	261	5.19	5.50	4.00- 5.73	-	-	9	10	-	16	-	33	45	16	6	65	33	-	5	15	8	-	-	_	-	+
SERVICES	172	4.77	4.50	4.00- 5.73	-	-	9	-	-	16	-	27	45	11	-	64	-	-	-	_	-	-	-	-	_	-
PUCKORIVERS. MEDIUM TRUCK	796	7.95	8.34	6.25- 9.48		_	_	_	-		7	14	3	6	3	77	107	19	27	93	2	91	1	12	334	_
MANUFACTURING		1		1		_	-	_	-	-	-	-	3	6	3	29	15	9	20	3	2	24	_	12	_	-
NONMANUFACTURING						-	-	-	-	-	7	14	-	_	-	48	92	10	7	90	_	67	1	_	334	-
WHOLESALE TRADE						-	-	_	-	-	7	14	-	-	-	48	92	-	_	-	-	67	-	_	-	-
												_	56	_	12	8	6	1	9	33	59					1
RUCKORIVERS. HEAVY TRUCK				4.70- 7.90 5.44- 7.90		_	_	_	_	_		_	21	_	12	7	6	1	9	- 33	59	_	_		12	1
MANUFACTURING						-	_	-	-	-	-	_	35	_	-	í	_	1	-	33			-	-	12	_
	""	0.75																								
RUCKDRIVERS+ TRACTOR-TRAILER						-	-	-	-	-	1	1 1	-	-	9	4	22	3	148	2	14	120	86			25
MANUFACTURING			8.88	_		_	_	_	_	-	1	1	_	_	7			3	8 143	2	5 9	53	12	120	227	25
NONMANUFACTURING			9 · 13	8-80- 9-13 6-97- 8-45		_	_	_	_			_	_	_	_	_	_	_	60	_	4	67	74 57	759	28	
WHOLESALE TRADE	203	0411	0 = 3 =	0.77- 0.45	1														80				51		20	
PPERS	392	5.98	5.77	5-20- 6-56	-	-	1	1	2	11	1	3	56	23	85	47	40	4.3	q	10	34	15	4	12	_	_
MANUFACTURING	255	6.22	5.96	5.27- 7.29	-	-	1	_	2	10	1	2	21	17	38	39	30	20	q.	8	32	15	3	12	-	-
ONMANUFACTURING				4.70- 6.27		_	_	1	-	1	-	1	35	6	47	8	10	23	-	2	2	_	1	-	-	-
WHOLESALE TRADE	123	5.49	5-45	4.70- 6.00	-	_	_	-	_	-	-	-	33	6	45	8	10	20	_	-	-	-	1	-	-	-
IVERS	411	5.76	5-64	4.70- 7.22	1	2	1	35	12	25	14	3	4.7	25	14	54	38	27	7	22	28	45	6	5	_	_
MANUFACTURING	188	1		5.75- 8.12	1	-	-	7	-	-	-	2	1	11	9	33	19	17	5	19	13	43	4	5	-	-
NONMANUFACTURING	1	1				2	1	28	12	25	14	1	4.6	14	5	21	19	10	2	3	15	2	2	-	-	-
WHOLESALE TRADE	104	4.86	4.70	3.95- 5.60	-	-	-	14	-	-	14	-	34	12	-	13	8	7	-	-	-	-	2	100	-	-
PERS AND RECEIVERS	370	6-17	5.85	5.28- 6.87		_	_	_		_	-	14	17	12	116	39	26	53	21	15	18	15	24	_	_	_
ANUFACTURING				5.85- 7.30		_	_	_	961	-	-	1	3	_	6	38	26	25	21	15	16	15	6	_	_	-
IDNMANUFACTURING				5.25- 5.45		-	_	_	-	-	-	13	14	12	110	1	_	28	_	-	2	-	18	_	-	-
WHOLESALE TRADE			l .	5.11- 6.50		-	-	-	-	+	-	13	7	12	19	-	-	29	-	-	2	-	-	-	-	-
ALCOHOL ME H				F // 7 00			10				-	16	87	36	120	227	149	185	445	51	1.8	37	24			
HOUSEMENANUFACTURING			6-44	5.66- 7.00 5.27- 7.10		6	10	_	_	_	-	10	75	23	119	47	68	69	169	21	16	6	24	_	_	_
ONMANUFACTURING						6	10	_	-		7	16	12	13	1	180	81	121	276	51	2	31	24	_	-	
PUBLIC UTILITIES			8.25	7.08- 8.32		-	-	_	_	_			-	_	-	_	_		23	-	2		-	_	_	_
WHOLESALE TRADE			6.44	5.66- 7.00		-	-	-	-	-	7	12	12	12	-	180	10	117		6	-	1	24	-	-	-
- ETT-1-EDE	0.570	F 75	E				7.0	7.0	4.7	1.7	2.5	E #	436	74	794	154	102	07	E 4	77	"."	7.5	E 70	_		
R FILLERS				4.69- 7.87		1	38 9	79 45	62 19	13	25 1	54 21	133	16	122	64	88	96 31	5 1 1	33 8	404 124	75 51	53 49	5 5	1	_
ONMANUFACTURING	1,768		5.45	4-74- 6-44		_	29	34	43	7	24		303	58	672	90	14	65	50	25	280	24	4	-	_	_
WHOLESALE TRADE				4.70- 5.45			29	34	31	7	24		303	58	672	90	13	65	49	-	52	-	-	-	-	-
AUGGEDIEF INDOC	1 41713	7 r	20.20	1	1 **		- /	- 1			_ ,			-							~ =					

Table A-5. Hourly earnings of material movement and custodial workers in Cleveland, Ohio, September 1978—Continued

			Hourly ea	mings 4	Numb	er of v	vorke	rs rec	eiving	straig	ght-ti	me hou	ırly ea	rning	s of—												_
	Number						\$		\$						\$								5			\$ 1	\$
Occupation and industry division	of workers	., ,	2	2	į.	2.80	3.00	3.20	3-40	3.60	3.80	4.00	4.40	4.80	5.20	5.60	6.00	6.40	6.80	7.20	7-60	8.09	8.40	8.80	7.20	9.601	3.00
	HOIREIS	Mean	Median 2	Middle range 2	under	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	- ē	and
					1	3.00	3.20	3.40	3.60	3.80	4.00	4.40	4.80	5.20	5.60	6.00	6.40	6.80	7.20	7.60	8.00	8.40	8.80	9.20	0.601	0.00 o	ver
***					1																						
ALL WORKERS	1																										
CONTINUED	1	¢																									
SHIPPING PACKERS	1.784	5.36	5 · 20	4.55- 6.30	6	7	22	64	13	26	2	157	422	140	279	130	75	219	72	20	-	122	8	-	-	-	_
MANUFACTURING	963		5.79	5.20- 6.51		_	12	30	3	5	1	33	63	87	199	114	60	166	4 3	13	-	122	8	-	-	-	-
WHOLESALE TRADE	821 547	4.77		4.55- 5.45		7	10	34 28	10	21	1	124	35 9 23 1	53 21	80 80	16 16	15 15	53 53	29 29	7	_	_	_	_	_		_
												,							-								
MATERIAL HANDLING LABORERS	2,493	I	6.92	5.31- 8.07 5.50- 8.10	7	4	6	6	12	8	2	58 57	174	52 14	454 239	222 131	117 98	93 82	188 105	93 71	290 256	683 520	10	_	-	8	6
NONMANUFACTURING	717	1	7 - 14 5 - 86	5.26- 7.94	7	1	-	6	5	5	1	1	9	38	215	91	19	11	83	22	34	163	6	4	_	-	-
WHOLESALE TRADE	342		5 - 26	5.26- 5.86		-	-	-	-	-	-	-	2	30	198	43	1	-	64	2	2	-	-	-	-	=	_
FORKLIFT OPERATORS	3+111	6.88	7.07	5.58- 8.14	_	_	_	7	а	7	_	7	34 9	58	349	266	153	182	216	1 26	188	1106	24	33	15	7	14
MANUFACTURING			7-13	5.58- 8.14	-	-	-	7	4	7	-	7	271	42	349	240	141	175	131	101		1041	21	33	14	7	19
NONMANUFACTURING	382	6.75	7-07	5-69- 7-90		-	-	-	_	_	-	_	78 78	16 16	-	26 26	12	7	85 84	25	64	65	3	-	1	-	-
WHOLESACE TRADE	208	5.84	3007	4.75- 6.95									10	10		2.0	7	_	04	_	_	_	_	_			_
POWER-TRUCK OPERATORS															20	45								_			
(OTHER THAN FORKLIFT)	504 326		7.21 8.09	6.95- 8.09 7.21- 8.17	- 0	_		_	_	_	_	-	_	_	24 24	23	_	1	177	25 25	17 17	149	12 12	5 5	3	12 12	34 34
			1									l	010		F.0	101	440			_		-			-		
MANUFACTURING	3+642 744	3.85 6.74	2.95 7.14	2.72- 4.50 5.68- 8.15		343	349	118	31 3	123	112	16	212 61	41 27	52 21	101 57	112	29 25	73 66	17 17	27 27	203	83 83	_	_		_
NONMANUFACTURING	1		2.75	2.72- 3.02		343	349	117	28	122	70	52	151	14	31	44	18	4	7	-	_	-	-	-	-	-	_
FINANCE	262		4-65	4.65~ 5.61 2.72~ 3.00	1871	338	345	112	23	117	4 61	15 33	137	10	30	38	18	3	7	-	-	-	-	-		-	-
SERVICES	2.572	2.90	2012	2.72- 3.00	1931	230	242	112	23	111	01	''	12	_	_		_	_	_	_	_	_	_	- 3		,,	_
GUARDS+ CLASS A	555		5-75	3-85- 8-02		33	33	5	2	2	46	31	31	11	35	56	32	8	29	6	23	150	_	-	-	51	-
NONMANUFACTURING	310 245		7.85	5.67- 8.07 3.00- 5.65		33	33	5	2	- 2	42	12	18	11	4 31	12	17 15	4	22	6	23	150	_	_	_	-	_
FINANCE	131		5-60	5.04- 5.87	-	-	-	-	-	-	q	14	11	9	30	38	15	3	7	-	-	_	_	-	-	-	-
GUARDS+ CLASS B	3,087	3.51	2.82	2.72- 3.70	1526	310	316	113	29	121	66	37	181	30	17	45	80	21	44	11	4	53	83	_	_	-	-
MANUFACTURING	434		6.39	5.78- 8.15		710	210	1	3	1	-	4	43	27	17	45	77	21	44	11	4	53	83	_	-	-	_
NONMANUFACTURING			2.72	2.72- 3.00		310	316	112	26	120	66		138	3	-	-	3	-	-	-	-	-	-	-	-	-	-
SERVICES	2 • 474	2.90	2.72	2.72- 3.00	1509	305	313	107	22	117	61	28	12	-	+	_	-	-	-	-	-	-	_	-	-	-	-
JANITORS. PORTERS. AND CLEANERS			4 - 02	4.02- 5.09		189	308	87	176	208		2744	211	504	180	111	141	39	198	76	456	35	1	14	-	-	-
MANUFACTURING	1+675		6 • 12 4 • 02	5.08- 7.79 3.55- 4.32		5 184	4 304	20 67	15 161	31 177	36	85 2659	124 87	224	167	80 31	121 20	37 2	173 25	70	446	34	1	18	-	-	-
WHOLESALE TRADE	86	4.36	4.02	3.50- 5.01	***	704	10	-	18	111	7		10	6	6	-	- 20	1	25	6	10	1	_	14	_	-	_
SERVICES			4.02	4.02- 4.32	53	128	97	5	33	158	9	2445	12	160	-	-	-	-	-	-	-	-	-	-	-	-	-

Table A-6. Average hourly earnings of maintenance, toolroom, powerplant, material movement, and custodial workers, by sex, in Cleveland, Ohio, September 1978

		Average			Average			
Sex, 3 occupation, and industry division	Number	(mean ²)	Sex, 3 occupation, and industry division	Number of	(mean ²)	Sex, occupation, and industry division	Number of	Aver (mea
	workers	earnings 4		workers	earnings ⁴		workers	earni
MAINTENANCE, TOOLROOM, AND			MATERIAL MOVEMENT AND CUSTODIAL			MATERIAL MOVEMENT AND CUSTODIAL		
POWERPLANT OCCUPATIONS - MEN			OCCUPATIONS - MENCONTINUED			OCCUPATIONS - MENCONTINUED		
		\$	TRUCKBOTHEOS ASSETULES			FARM 157 AREA		\$
AINTENANCE CARPENTERS	269 177		TRUCKDRIVERS - CONTINUED		¢	FORKLIFT OPERATORS	3,039	1
MANUFACTURING		10.69		379	5.64	MANUFACTURING	2+658	
NOWINANDI NC FORTING	/-	1000	MANUFACTURING	118	1		381 207	
AINTENANCE ELECTRICIANS	1.756	9.03		261		WINDE THINDE	201	ĺ
MANUFACTURING	1+631	9.05	SERVICES	172		POWER-TRUCK OPERATORS		
						(OTHER THAN FORKLIFT)	497	7
AINTENANCE PAINTERS	289			761			319	8
MANUFACTURING	130	8.87		125				
ATNIENANCE MACHINISTS	542	8.09	NONMANUFACTURING	636	6.59	GUARDS	3+339 703	
AINTENANCE MACHINISTS MANUFACTURING	533			228	0.07	MANUFACTURING	2+636	
THE THE THE	,,,,	00.00	TRUCKDRIVERS+ HEAVY TRUCK	197	6.64	FINANCE	247	
INTENANCE MECHANICS (MACHINERY) -	2,856	8.73	MANUFACTURING	115		SERVICES	2,329	
MANUFACTURING	2+633	8.76	NONMANUFACTURING	82	6-45			
NONMANUFACTURING	223	8.34	l)			GUARDS. CLASS A	525	
***************************************			TRUCKDRIVERS. TRACTOR-TRAILER	1,548		MANUFACTURING	284	
INTENANCE MECHANICS MOTOR VEHICLES)	กลา	8.57	MANUFACTURING	274		NONMANUFACTURING	241	
MANUFACTURING	321	I	NONMANUFACTURING	1+274 204		FINANCE	1 30	!
NONMANUFACTURING	621		andersale made	207	0011	GUARDS+ CLASS B	2 . 814	1 :
PUBLIC UTILITIES	388		SHIPPERS	341	5.99	MANUFACTURING	419	
			MANUFACTURING	229	6-16	NONMANUFACTURING	2+395	
INTENANCE PIPEFITTERS	680		NONPANUFACTURING	112	5-63	SERVICES	2+233	:
MANUFACTURING	680	9.07	WHOLESALE TRADE	98	5.60			
THIENANCE CHEET HETAL HORNERS	214	0 05	RECEIVEDS	77.00	5.79	JANITORS, PORTERS, AND CLEANERS	3+383	
INTENANCE SHEET-METAL WORKERS MANUFACTURING	216 166		RECEIVERS	380 175		MANUFACTURING	1+323	
HANDY RETOKING	100	7870	MANUFACTURING	205		NONMANUFACTURING	2+060 74	
LLWRIGHTS	1+936	9.27	WHOLESALE TRADE	92		SERVICES	1.202	
MANUFACTURING	1.036							
			SHIPPERS AND RECEIVERS	355	6.14			
INTENANCE TRADES HELPERS	314		MANUFACTURING	157	6.68			
MANUFACTURING	303	6.91		198	5.70			
CUITNE TOOL ODEDATORS (YOULDOOMS	760		WHOLESALE TRADE	81	5.52	OCCUPATIONS - WOMEN		
CHINE-TOOL OPERATORS (TOOLROOM) - MANUFACTURING	752 752		WAREHOUSEMEN	1+266	6.36			
THE THE TONE THE	, ,,,,	0004	MANUFACTURING	561		MAREHOUSEMEN	152	
OL AND DIE MAKERS	1+889	8.76		705		NONMANUFACTURING	126	
MANUFACTURING		8.77		47	7.75			
			WHOLESALE TRADE	558	6.43	ORDER FILLERS	910	
ATIONARY ENGINEERS	242	8.46	ADDED STATERS	4 500		NONMANUFACTURING	722	
MANUFACTURING	185 57	8.18	ORDER FILLERS	1+522	6.04	WHOLESALE TRADE	710	
NONMANUFACTURING	31	0.10	NONMANUFACTURING	763		SHIPPING PACKERS	782	4
ILER TENDERS	177	7.52	andressee There		3.30	MANUFACTURING	237	
MANUFACTURING	177	7.52	SHIPPING PACKERS	984	5.82	NONMANUFACTURING	545	
			MANUFACTURING	708	6.10			
MATERIAL MOVEMENT AND CUSTODIAL			NONMANUFACTURING	276		GUAROS	285	
OCCUPATIONS - MEN			WHOLESALE TRADE	219	5.29	NONMANUFACTURING	262	3
UCKDRIVERS	2.040	7.04	MATERIAL MANOLING LAGORERS	2-277	4 40	GUARDS CLASS B	277	١.
	2 • 9 6 8 6 6 1	7.46	MATERIAL HANDLING LABORERS	2 + 277	6.79	NONMANUFACTURING	273 258	
MANUFACTURING	0.01		MANUFACTURING	1 + 628	6.45	MONTH ACTORING	290	-
MANUFACTURING	2.307							1
NONMANUFACTURING	2 · 307	9.11				JANITORS, PORTERS, AND CLEANERS	2,437	6
MANUFACTURING	2 • 307 1 • 289 526		WHOLESALE TRADE	291		JANITORS PORTERS AND CLEANERS NONMANUFACTURING	2 • 4 3 7 2 • 1 4 9	

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

	September	1972	September	1973	September	1974	September 1	975	September 1976	September 1	97
Industry and occupational group 5	to		to		to		to		to	to	
	September	1973	September	1974	September	19 7 5	September 1	976	September 1977	September 1	97
All industries:											
Office clerical	5.6		8.8		8.0		7.1		7.5	7.6	
Electronic data processing	(6)		8.7		8.4		6.8		8.7	7.5	
Industrial nurses			10.4		8.9		8.0		8.1	8.2	
Skilled maintenance trades	7.3		10.2		8.1		6.8		12.1	7.5	
Unskilled plant workers	7.5		10.1		8.9		6.9		9.0	8.3	
Manufacturing:											
Office clerical	5.5		8.5		8.3		7.7		7.0	7.8	
Electronic data processing	(6)		8.4		7.8		7.9		6.5	7.1	
Industrial nurses	7.3		10.7		9.2		8.3		8.2	8.0	
Skilled maintenance trades			10.5		8.3		6.5		12.8	7,5	
Unskilled plant workers	7.8		10.6		8.6		7.7		10.9	8.5	
Nonmanufacturing:											
Office clerical	5.6		9.1		7.7		6.6		8.0	7.3	
Electronic data processing	(6)		8.6		8.7		5.8		10.5	7.9	
Industrial nurses	(⁶)		(6)		(6)		(6)		(6)	(6)	
Unskilled plant workers	6.9		9.5		9.4		6.6		(6)	8.4	

Table A-8. Weekly earnings of office workers—large establishments in Cleveland, Ohio, September 1978

					ly earnings ¹ tandard)	1401111)CI 01	worke.	rs rec	eiving	g strai	gnt-tu	ine we	ekty e	arning	gs oi—										
	Number	Average		,-,-		S												\$							s	\$
Occupation and industry division	of workers	weekly hours! (standard)	Mean 2	Median ²	Middle range ²	and under	100	110	120	130	140	150	160	170	180	200	220	240 -	260 -	280	300	320	340	360 -		and
							110	120	130	140	150	160	170	180	200	220	240	260	280	300	320	340	360	380	400	ovi
ALL WORKERS			\$,																						
SECRETARIES	2+628	39.0	232-50	223.50	189.50-270.50	-	-	1	7	12	39	70	136	204	385	396	316	273	260	192	118	1 20	76	7	9	
MANUFACTURING	1+525				202.50-281.00	-	-	_	-	-	7	23	41	97	185	214	188	193	187	120	97	104	52	4	6	
NONMANUFACTURING	1.103	38.5	215.00	205.50	177.00-245.00	-	-	1	7	12	32	47	95	107	200	182	128	80	73	72	21	16	24	3	3	
PUBLIC UTILITIES	143	40.0	291.50	288.00	270.50-306.00	-	-	_	-	-	-	-	-	1	1	2	1	14	34	45	14	11	18	1	1	
WHOLESALE TRADE	98	40.0	234.50	229.00	195.50-268.50	-	-	-	1	-	-	3	2	9	12	18	12	13	12	6	3	1	3	1	2	
FINANCE	577	38.0	199-50	192.00	172-00-220-00	-	-	_	3	8	25	35	60	62	135	98	74	33	18	15	4	4	2	1	-	
SECRETARIES. CLASS A	199				263.00-330.00	-	-	-	-	-	3	=	-	-	1	8	12	22	24	27	37	28	30	2	2	
MANUFACTURING	147				272.00-325.00	_	-	-	-	_	3	-	-	-	1	1	6	14	20	24	34	19	22	1	_	
NONMANUFACTURING	52	39.5	284-00	275.00	239.00-333.00	-	_	-	_	_	-	-	-	-	1	7	6	8	4	3	3	9	8	1	2	
SECRETARIES + CLASS B	540 342				227.00-291.50	_	_	-	3	_	3	4	2	10	23 12	63 26	82	82	84	80	24	42	28	ą	5	
MANUFACTURING					235.00-292.00				- 5		,	7	2	å	11	37	45	55	62	58	12	36	13	2	4	
NONMANUFACTURING	198				215.50-287.00	_			-	_		_	~	- 1	11	31	37	27	22	22	12	- 6	15	2	1	
FINANCE	42 79				267-50-344-00 219-00-272-00	_	_	_	_	_	_	-	_	2	4	14	21	13	10	7	7 2	2	12	1	_	
SECRETARIES. CLASS C	868	39.0	229.50	222.50	197.00-260.50	_	_	1	2	_		13	43	48	121	171	148	93	107	35	27	46	2		2	
MANUFACTURING	482				208.50-270.50	_	_		_	_	-	2	2	10	58	97	93	59	70	21	21	45	1	- 1	2	
NONMANUFACTURING	386				178.00-239.00	_	_	1	2	_	8	11	41	38	63	74	55	34	37	14	6	1	1	_	-	
PUBLIC UTILITIES	38				260.50-294.00	_	_	Det	_	_	_	_	_	1	1	2	1	5	17	4	6	î	_	_	_	
FINANCE	210				178.50-222.50	-	-	_	-	-	5	7	21	21	47	47	36	13	7	6	-	_	-	_	_	
SECRETARIES. CLASS D	684	39.0	220.00	207.00	184.00-253.00	_	_	-	2	4	3	13	32	87	156	121	56	71	41	50	30	2	16	_	_	
MANUFACTURING	428	39.0	227.50	213.50	187.50-253.00	-	-	-	-	-	-	3	15	60	84	71	36	6.2	32	17	30	2	16	_	_	
NONMANUFACTURING	256	39.0	207.50	198.00	180-00-224-00	-	-	-	2	4	3	10	17	27	72	50	20	9	9	33	_	-	-	-	-	
SECRETARIES+ CLASS E	308				161.00-187.50	-	-	-	3	6	22	38	56	56	81	26	10	3	3	_	_	2	_	_	_	
MANUFACTURING	126				167.50-202.50	-	-	-	-	_	1	1.4	24	21	31	19	8	3	3	-	-	2	-	_	_	
NONMANUFACTURING	182	37.5	169-50	170.50	154.50-183.00	-	-	_	3	8	21	24	32	35	50	7	2	-	-	-	-	-	-	-	-	
STENOGRAPHERS	676				178.00-255.00	-	-	-	3	11	17	4.4	50	67	93	77	8 4	138	44	7	41	_	-	-	-	
MANUFACTURING	340				179.50-247.50	_	_		1	_	3	12	32	91	53	49	56	28	19	5	91	-	-	-	-	
NONMANUFACTURING	336				172.00-256.00	-	-	- 5	2	11	14	32	18	26	40	28	28	110	25	2		-	_	_	_	
PUBLIC UTILITIESFINANCE	108				219.00-256.00 150.00-183.00	_	_	-	2	11	14	8 24	5 13	15	18 14	15 10	21 5	107	24	1	_	_	_	_	_	
STENOGRAPHERS+ GENERAL	349	30.5	207.00	191.50	166.50-245.50	_	_	_			14	3 9	33	42	58	33	26	9.1	16	1	37	_	_	_	_	
MANUFACTURING	158				176.00-267.50	_	_	_	100	_	3	10	18	24	26	16	9	7	7	1	37	_	_	_	_	
NONMANUFACTURING	191				159.50-234.50	_	_	_	1	В	11	29	15	18	32	17	17	34	9		<i>31</i>	_	_	_	_	
PUBLIC UTILITIES	100				195.00-249.00	-	-	-	-	-	-	8	4	5	12	11	17	34	9	_	_	_	_	-	-	
STENOGRAPHERS+ SENIOR	327	39.5	224.50	230.00	194.50-256.00	-	-	_	2	3	3	5	17	25	35	44	58	97	28	. 6	4	_	_	_	_	
MANUFACTURING	182	39.5	217-00	218.50	187.00-238.50	-	_	_	1	-	-	2	14	17	27	33	47	21	12	4	4	_	_	_	-	
NONMANUFACTURING	145	39.5	234.00	256.00	217-00-256-00	-	-	-	1	3	3	3	3	8	8	11	11	76	16	2	-	-	$\overline{}$	-	-	
FRANSCRIBING-MACHINE TYPISTS	50	39.5	194.00	200.00	174.00-218.00	-	-	-	4	1	1	2	4	3	9	16	6	a	-	-	-	-	-	-	-	
TYPISTS	1,290	39.0	182.00	167.00	149.00-213.50	_	_	22	64	121	134	167	163	102	143	64	66	215	6	18	3	2	-	_	-	
MANUFACTURING	499				149.50-186.00	-	-	10	14	43	67	62	99	49	66	35	23	3	5	18	3	2	-	-	-	
NONMANUFACTURING	791				148.50-241.50	-	-	12	50	78	67	105	64	53	77	29	43	212	1	_	-	_	_	-	-	
					132-50-161-50			10	90	64	49	55	37	21	20	11										

Table A-8. Weekly earnings of office workers—large establishments in Cleveland, Ohio, September 1978—Continued

					ly earnings ^I tandard)	Num	ber of	worke	ers re	eiving	g stra	ight-ti	ime we	ekly	earnin	gs of-	_									
Occupation and industry division	Number	Average weakly hours					\$ 100					\$ 150		\$ 170				\$ 240					\$ 340	\$ 360	\$ 9 380	400
	workers	(standard)	Mean ²	Median 2	Middle range 2	and under	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	- 7	and
		ļ				100	110	120	130	140	150	160	170	180	200	220	240	260	280	300	320	340	360	380	400 c	ver
ALL WORKERS CONTINUED																										
TYPISTS - CONTINUED																										
TYPISTS, CLASS A	607 231 376 160	39.5 39.0	191.00 195.00	177.50 184.00	\$ 157.50-236.50 163.50-212.50 155.50-256.00 150.00-176.50	- - -	-	2 2 -	17 - 17 8	24 6 18 11	42 13 29 19	74 24 50 43	85 47 38 29	64 35 29 19	78 35 43 20	44 23 21 11	19	124 3 121	3 2 1	18 18 -	2 2 -	2 -		1111	-	-
TYPISTS» CLASS B MANUFACTURING NOMMANUFACTURING	683 268 415 147	39.5 39.5 39.0	171.50 159.50 179.50	157.50 156.50 163.00	140.00-195.00 141.00-168.50 140.00-234.50 129.00-145.00	-	-	20 8 12	47 14 33 32	97 37 60 53	92 54 38 30	93 38 55	78 52 26 8	38 14 24	65 31 34	20 12 8	38 4 34	91 - 91	3 -	<u>-</u> -	1 1 -	-		1,7	1	-
FILE CLERKS MANUFACTURING FINANCE	210 82 128	38.5 39.0 38.5	168.00 168.00 168.50	147.00 147.00 151.00	125.00-197.50 129.00-183.00 123.50-234.50 117.50-138.50	-	5 - 5 5	20 1 19	36 20 16	31 15 16	18 10 8	18 6 12 3	8 3 5	9 4 5	14 9 5	2 1 1	8 1 7	30 1 29		10 10 -	1	-	-	1	-	-
FILE CLERKS, CLASS B	129 94	38.0	179.50	153.50	139.00-234.50 133.50-234.50	- -	-	7	11	20 13	17	16 11	7 5	5	6 5	1	7	22 22	-	10	-	-	-	-	=	-
FILE CLERKS, CLASS C	58	39.0	125.00	125.00	116.00-131.00	-	5	13	25	11	1	1	1	-	1	_	-	_	_	-	_	-	-	-	~	-
MESSENGERS	235 95 140 66	39.0 39.0	167.50 180.00	164.00 167.50	134.50-214.50 139.00-185.50 129.50-241.50 192.00-251.00		1 1 -	18 4 14 -	30 9 21	23 16 7	22 9 13 1	14 5 9 3	15 7 8 2	25 17 8 5	20 11 9 7	12 9 3 1	7 4 3 3	39 2 37 37	8 1 7 7	1 1 -	. :	-	3	=	-	-
SWITCHBOARD OPERATORS	201 88 113 37	39.5 39.0	207.50 181.00	194.50 172.00	150.00-229.00 173.50-231.00 138.00-229.00 226.00-254.00	_	4 3 1	11 2 9	9 - 9 -	12	14 4 10	1 1 7 4	14 5 9 1	18 9 9	32 17 15 4	19 15 4 2	8 4 4 3	25 6 19 18	8 8	4 -	9 -	3 -	13	1111		- - -
SWITCHBOARD OPERATOR-RECEPTIONISTS-	60	39.5	189.00	184.00	159.00-214.00	-	-	-	2	-	10	3	10	3	10	9	8	3	1	1	-	-	-	-	_	-
ORDER CLERKS	156 126				165.00-270.50 172.50-248.50	1 -	2	-	5 3	7	5 1	8 7	15 12	19 18	16 16	19 19	4	15 15	7 5	11	12	6	ą	-	-	_
ORDER CLERKS. CLASS B	108 96				158.50-212.00 163.00-218.50	1 -	2	_	5	7	5 1	8	12 11	16 16	14 14	17 17	2	7	-	-	9	1	2	-	-	-
ACCOUNTING CLERKS	1+582 824 758 340 106	39.5 39.5 40.0 38.0	213.00 211.50 260.00 179.50	200.50 213.00 263.50 175.00	163.50-256.00 165.50-242.00 161.00-263.50 256.00-263.50 158.00-204.00	- - -		27 19 8 - 1	48 18 30 7	74 26 48 - 7	77 39 38 - 6	108 57 51 - 10	141 77 64 1 12	95 53 42 1 15	178 117 61 11 17	142 88 54 12 18	19 6	104 7	209 42 167 160		5	37 30 7 5	30 16 14 14	22 22	112111	11111
ACCOUNTING CLERKS, CLASS A MANUFACTURING NOMMANUFACTURING FINANCE	864 453 411 71	39.5 39.5	234.00 234.00	229.90 254.00	191.00-263.50 188.50-265.00 192.50-263.50 169.00-218.00	_	-	-	5 - 5 5	2 3 2	24 8 1	17 12 4	23 27 6	14 24 11	70 37 13	63 35 16	60 36 24 6	130 82 48 7	193 37 156 -	24 16 8 -	19 3 -	19 12 7 -	16 14 -	22	- - -	-
ACCOUNTING CLERKS. CLASS B MANUFACTURING NOMMANUFACTURING PUBLIC UTILITIES	716 371 347 114	39.0 39.5	187.50 184.50	173.00 166.00	149.50-228.00 157.50-216.50 140.00-241.50 241.50-256.00	-	-	27 19 8	43 18 25	69 24 45	45 15 30	79 40 39	91 54 37 1	57 39 18	71 47 24 9	44 25 19 9	48 35 13 9	96 23 73 70	16 5 11 11	12 9 3 3	2	18 18 -		1111	1.4.1	

Table A-8. Weekly earnings of office workers-large establishments in Cleveland, Ohio, September 1978—Continued

					ly earnings ¹ tandard)	Num	ber of	worke	ers re	eiving	g strai	ght-ti	me w	eekly	earnin	gs of-	_									
	Number	Average				5	\$	\$	\$	\$	\$	-	-		_			\$	\$	\$	S	\$	S	S	\$	\$
Occupation and industry division	of	weekly bours 1			25 7 2014	90	100	110	120	130	140	150	160	170	180	200	220	240	260	280	300	350	340	360	380	400
	workers	(standard)	Mean 2	Median 3	Middle range 2	and under	-	-	-	-	-	-	-	-	-	-	-	- 1	-	-	-	-	-	-	-	and
						100	110	120	130	140	150	160	170	180	200	220	240	260	280	300	320	340	360	380	#DO	over
ALL WORKERS CONTINUED															-											
ODKKEEPING-MACHINE OPERATORS	53	39.0	\$ 172.00	\$ 156.50	\$ \$ \$ \$ \$ \$ \$ \$ \$	-	-	2	1	3	8	16	7	3	3	-	2	7	1	-		Œ.	-	-	- 12	
		19.7	44.4																							
BOOKKEEPING-MACHINE OPERATORS. CLASS B	50	39.0	167.00	156-50	148.00-170.50	-	-	2	1	3	8	16	7	3	3	-	2	5	-	-	-	-	-	-	-	-
AYROLL CLERKS	310	70 E	217 50	207 00	172.50-253.00	=		_	7	10	1.0	1.4	21	26	49	29	24	50	27				1.7	_	_	
MANUFACTURING	178				180.50-253.00		-	_		10	2	14	10	16	33	22	14	25	21	11		10	13	- 5		
NONMANUFACTURING	132				165.50-257.00	-	-	-	7	3	12	6	11	10	16	7	10	25	20	3	-	1	1	-	-	-
EY ENTRY OPERATORS	859	39.5	198.50	186.00	161.00-233.00	-	3	8	36	29	52	82	89	81	112	98	76	79	52	29	16	6	13	_	_	
MANUFACTURING	454				166.50-234.50	1-1	-	3	6	3	23	4.6	47	50	69	61	38	22	24	29	16	6	1.5	_	-	
NONMANUFACTURING	405				152.00-230.00	-	3	5	30	26	29	36	42	31	4.3	37	38	57	28	_	_	_	_	_	_	
PUBLIC UTILITIES	161				213.50-255.00	-	_	-	-	_	-	5	1	7	17	17	33	53	28	_	_	_	_	-	_	-
FINANCE	104				133.00-172.50	-	-	1	20	14	11	16	14	10	11	7	-	-	-	-	-	-	-	-	-	-
KEY ENTRY OPERATORS. CLASS A	468	39.5	208.00	198.00	167.00-241.50	-	-	-	2	9	15	50	54	43	80	79	33	32	48	11	16	5	11	-	-	-
MANUFACTURING	286	40.0	213.50	198.50	172.50-247.50	-	-	-	-	_	5	36	28	25	56	45	13	15	20	11	16	5	11	-	-	-
NONMANUFACTURING	202	39.0	200.00	198.00	165.00-234.00	-	-	-	2	9	10	14	26	16	24	34	20	17	28	-	-	-	-	-	-	-
PUBLIC UTILITIES	77	40.0	240.00	250.50	217.00-262.00	-	-	-	-	-	-	-	-	2	2	16	16	13	28	-	-	-	-	-	-	
FINANCE	53	38.5	170-50	170.00	154.50-186.50	-	-	-	-	6	3	7	11	9	10	7	-	-	-	-	-	-	-	4	-	-
KEY ENTRY OPERATORS+ CLASS B	371				148.00-232.50	-	3	8	34	20	37	32	35	38	32	19	9.3	47	4	18	-	1	-	-	-	-
MANUFACTURING	168				161.50-232.50	-	-	3	6	3	18	10	19	25	13	16	25	7	4	18	-	1	-	-	-	-
NONMANUFACTURING	203				139.00-228.50	-	3	5	28	17	19	22	16	13	19	3	18	40	-	-	-	-	-	-	-	-
PUBLIC UTILITIES	84	40.0	222.00	237.00	183.00-249.00	-	-	-	-	-	-	5	1	5	15	1	17	40	-	_	-	-	-	-	-	-

Table A-9. Weekly earnings of professional and technical workers—large establishments in Cleveland, Ohio, September 1978

					y earnings (Numbe	er of v	vorker	s rece	iving	straig	ht-tin	ne wee	kly ea	rning	s of—										
	Number	Average		, , , , , , , , , , , , , , , , , , , 	,			\$							\$			\$			-		_	S	S	\$
Occupation and industry division	of workers	weekly hours l (standard)	Mean ²	Median 2	Middle range ²	and under	140	160	180	200	220	240	260	280	300	320	340	360	380	400	420	468	500	540	580	a
						1	160	180	200	220	240	260	280	300	320	340	360	380	400	420	460	500	540	580	620	01
ALL WORKERS																					9					
MPUTER SYSTEMS ANALYSTS					\$ \$																					
(BUSINESS)	579	30.0	A18 50	820 DO	353.50-483.00	_	-	-	-	2	3	5	10	25	26	41	53	4.0	43	42	0.0	117	รค	26		
MANUFACTURING	286				368-00-481-50	_	-	-	-	_	_	1	2	7	5	16	29	22	25	25	57	43	34	14	9	
NONMANUFACTURING	293				335.50-487.00		_	_	_	2	3	4	8	18	21	25	24	18	18	17	23	74	24	12	_	
FINANCE	113				304.00-359.50	~	-	-	-	2	2	4	8	9	18	23	19	12	6	3	5	2	-	-	-	
COMPUTER SYSTEMS ANALYSTS																										
(BUSINESS)+ CLASS A	239	39.0	462.50	466.00	410-00-514-50	-	-	-	-	_	-	-	-	_	1	7	12	13	20	18	40	46	50	24	4	
MANUFACTURING	159	39.0	464-00	466.00	416.00-512.00	-	_	-	-	-	-	_	-	-	-	4	6	9	11	14	31	33	33	12	4	
NONMANUFACTURING	80	38.5	460.00	465.50	395.50-518.00	-	-	-	-	-	-	-	-	-	1	3	6	4	9	4	9	13	17	12	_	
PUBLIC UTILITIES	42				489.50-544.50	-	-	- 7	_	~	-	-	-		-	-	-	-	-	i	1	10	16	12	-	
COMPUTER SYSTEMS ANALYSTS																					1					
(BUSINESS) + CLASS B					345.00-470.50	-	-	-	_	1	1	_	2	14	18	26	35	26	20	20	36	70	8	2	_	
MANUFACTURING					351.50-442.50		-	-	_	_	-	_	-	5	1	6	18	12	11	9	25	9	1	2	_	
NONMANUFACTURING	180	39.0	404.50 333.50	398.50	336.00-479.00 317.00-355.00	-	_	-	_	1	1	_	2	9 5	17 14	20 19	17 15	14	9	11	11	61	7	_	_	
																		,		٦						
(BUSINESS) CLASS C	61	39.5	321.50	307.00	278.50-354.50	-	-	-	-	1	2	5	8	11	7	8	6	1	3	4	4	1	-	-	_	
OMPUTER PROGRAMMERS (BUSINESS)	752	39.0	338-50	336.00	283-00-392-50	_	_	2	3	14	46	53	63	64	76	74	62	63	78	54	70	17	8	5	_	
MANUFACTURING	404				291.50-378.00		-	_	3	3	15	28	30	37	52	50	37	53	4.1	26	19	4	- 6	_	-	
NONMANUFACTURING	348				269.00-412.00		-	2	-	11	31	25	33	27	24	24	25	10	37	28	51	13	2	5	-	
PUBLIC UTILITIES	152	39.0	406-00	412.00	388.50-445.00	-	-	-	-	_	3	-	6	7	4	2	5	3	34	22	46	13	2	5	_	
FINANCE	129	37.5	301.50	298.00	255.00-340.50	-	-	-	-	6	19	14	14	12	15	12	19	7	2	5	4	-	-	-	-	
COMPUTER PROGRAMMERS (BUSINESS).																										
CLASS A	266				338-00-416-00	-	_	-	-	_	-	3	3	17	22	2 B	32	36	37	30	34	11	8	5	_	
MANUFACTURING	188				333-00-399-00	-	_	-	-	_	_	3	_	14	18	23	19	31	34	18	18	4	6	-	-	
NONMANUFACTURING	78				345.00-443.00	=	_	-		-	_	-	3	3	4	5	13	5	3	12	16	7	2	5	-	
PUBLIC UTILITIES	32	39-0	466-50	449.00	430.00-497.00	-	_	-	-	-	-	-	-	-	-	- 7	-	-	-	6	12	7	2	5	-	
COMPUTER PROGRAMMERS (BUSINESS).										_	13	30	28	38	46	37										
CLASS B					287-00-392-50			1	_	7	10	14	14	17	28	18	20	24	41	24	36	6	_	_	_	
MANUFACTURING	147				272.50-358.50 292.50-411.00			-	_	3 4	3	16		21	18	19	8		7	8	1	-	_	_	_	
FINANCE	54				264.50-333.50	_	_	1 -	-	1	3	8	4	9	11	9	12	5	34	16	35	6		_	_	
COMPUTER PROGRAMMERS (BUSINESS).																										
CLASS C	135	39.0	268.00	262.50	232.00-292.00	-	_	1	3	7	33	20	32	9	8	9	10	3	_	_	_	_	_	_	_	
MANUFACTURING	69				259.00-329.50	-	-	_	3	_	5	11	16	6	6	9	10	3			1 -	_	_	_	_	
NONMANUFACTURING	66				230.00-267.00	-	-	1	_	7	28	9	16	3	2	-	-	-	-	-	-	-	-	-	-	
MPUTER OPERATORS	620	39.0	251.00	253.00	206.50-274.00	6	35	42	52	77	69	40	171	32	14	15	8	18	8	5	28	-	_	_	_	
MANUFACTURING					214.00-313.50	-	6	18	20	37	40	24	31	26	13	11	8	18	8	5	13	_	_	_	_	
NONMANUFACTURING	342				193-00-263-50	6		24	32	40	29	16	140	6	1	4	-	+	-	-	15	_	_	_	_	
FINANCE	114				160.00-229.50	3	24	15	18	20	12	8	11	3	-	-	-	-	-	-	-	_	-	-	-	
COMPUTER OPERATORS+ CLASS A	156				232.00-314.00	_	-	1	6	17	24	14	30	19	11	8	1	3	6	_	16	_	_	_	_	
MANUFACTURING					246.00-310.50	_	-	_	_	4	15	9	19	15	11	4	î	3		_	1	_		_	_	
NONMANUFACTURING	68				215.00-330.00		-	1	6	13	9	5	11	4	-	¢	_	_	_	-	15	_	-	-	_	
	1	1	1	1	1																1					

Table A-9. Weekly earnings of professional and technical workers—large establishments in Cleveland, Ohio, September 1978—Continued

					ly earnings tandard)	Numb	er of v	vorkei	rs rec	eiving	straig	ht-tin	ne wee	ekly ea	rning	s of—										
	Number	Average		1		1 -	-		-		5									\$	1-	_	-	\$	\$	\$
Occupation and industry division	of workers	weekly hours l (standard)	Mean 2	Median 2	Middle range ²	and under	140	160	180	200	220	240	260	280	- 300	320	340 -	36 0	380	+00	420	4 60	50 a -	540	580 -	ar
						140	160	180	200	220	240	260	280	300	320	340	360	380	400	420	460	5 00	540	580	620	01
ALL WORKERS CONTINUED																										
MPUTER OPERATORS*- CONTINUED			6	4	S S																					
COMPUTER OPERATORS. CLASS B MANUFACTURING NONMANUFACTURING	151	39.5	278.00	249.50	209.50-279.00 216.00-348.50 190.50-274.00	1.1	5	18 5 13	19 10 9	49 30 19	35 21 14	22 13	39 12 27	13 11 2	3 2 1	7 7 -	7 7 -	14 14 -	2 2 -	5 5 -	12 12 -	-	7	-	- -	
COMPUTER OPERATORS. CLASS C NONMANUFACTURING					174.00-263.50 183.50-263.50		30 24	23 10	27 17	11 8	10 6	4	102 102	-	-	_	-	1	-	1	_	(=)	-	-		
AFTERS MANUFACTURING	617 514				249.50-337.00 241.00-341.00		21 21	20 19	20 19	32 31	40 36	46 38	112 51	62 53	54 53	62 61	63 58	36 32	12 6	36 36	1 -	-	-	_	_	
DRAFTERS, CLASS A	246 241				299.00-359.50 298.50-357.50	_	_	_	-	÷	7	3	23 23	31 30	37 36	4.8 4.8	35 34	19 18	6	36 36	1	-	-	_	=	
DRAFTERS+ CLASS B MANUFACTURING	263 183				240.00-306.00 227.50-315.00		_	5 5	12 11	24 24	25 22	26 23	78 24	22 17	14 14	11 10	23 19	17 14	6	-	_	Ē	ē	-	_	
DRAFTERS. CLASS C	94 83				173.00-268.00 171.00-261.50		16 16	14 14	7	7	8	12 12	10	9 6	3	3	5 5	-	_	-	-	ċ	Ī	Ξ	1,-	
ECTRONICS TECHNICIANS					229.00-289.00 229.00-283.00		-	12 12	17 17	36 36	58 55	38 38	45 45	51 51	16 8	4	1	1	_	3 -	24 24	-	-	-	Ē	
ELECTRONICS TECHNICIANS. CLASS A- MANUFACTURING	71 60				258.50-320.50 256.50-320.00		_	_	_	_	2	18 18	16 16	3 3	1 q 6	4 4	1	1	1.3	3 -	9	-	_	-	-	
ELECTRONICS TECHNICIANS. CLASS B- MANUFACTURING	133 133				236.00-289.00 236.00-289.00	Ţ	1,=	-	-	7	33 33	8	22 22	46 46	2	_	_	-	_	1.	15 15	-	_	1	-	
ELECTRONICS TECHNICIANS, CLASS C- MANUFACTURING	102 99				195.50-239.00 195.50-239.00		-	12 12	17 17	29 29	23 20	12 12	7 7	2	-	_	-		-	-	_	ė	-	-	-	
SISTERED INDUSTRIAL NURSES MANUFACTURING	149 131				257.50-336.00 258.00-337.00		-	1	1	2	9	27 25	1 9 18	26 22	10 6	21 21	11 8	12 11	8	2 2	1	2	- (-)	1.2	- 2	

Table A-10. Average weekly earnings of office, professional, and technical workers, by sex—large establishments in Cleveland, Ohio, September 1978

		(m	emga emal)			Ave (me	mge an ²)			(me	erage
Sex, 3 occupation, and industry division	Number of workers	Weekly hours (standard)	Weekly earnings ¹ (standard)	Sex, 3 occupation, and industry division	Number of workers	Weekly hours (standard)	Weekly earnings ¹ (standard)	Sex, 3 occupation, and industry division	Number of workers	We ekly houm ¹ (standard)	Week carning (stands
OFFICE OCCUPATIONS - MEN				OFFICE OCCUPATIONS -				OFFICE OCCUPATIONS -			
ESSENGERS	1 30	39.0	\$ 174.50	WOMENCONTINUED				WOMENCONTINUED			
	1	"""		TYPISTS - CONTINUED				KEY ENTRY OPERATORS - CONTINUED			\$
MCCOUNTING CLERKS:	87	39.5	256.00	TYPISTS+ CLASS A:			\$	KEY ENTRY OPERATORS, CLASS A	467 272	1	
				MANUFACTURING	228	39.5	190.00	NONMANUFACTURING	195 74		
MANUFACTURING	OUNTING CLERKS, CLASS A: INUFACTURING	158	38.0	163.00	FINANCE	51					
				TYPISTS, CLASS B:				KEY ENTRY OPERATORS. CLASS B	329	39.5	181
AFFICE ACCURATIONS . HOMEN				MANUFACTURING	261	39.5	159-00	MANUFACTURING	167	39.5	197
OFFICE OCCUPATIONS - WOMEN				NONMANUFACTURING: FINANCE	146	38 - 0	137.00				
SECRETARIES	2,600	39.0	231.50	FILE CLERKS:				PROFESSIONAL AND TECHNICAL			
MANUFACTURING	1+497	39.0	243.50	MANUFACTURING	79	39.0	167.50	OCCUPATIONS - MEN			
NONMANUFACTURING	1+103		215.00	NONMANUFACTURING: FINANCE	59	34.5	129.00				
WHOLESALE TRADE	98	40.0	234.50		_			COMPUTER SYSTEMS ANALYSTS			
FINANCE	577	38.0	199.50	FILE CLERKS. CLASS C	58	39.0	125.00	(BUSINESS): MANUFACTURING	256	39.5	934
SECRETARIES. CLASS A	196	39.0	293.50	SWITCHBOARD OPERATORS	182		187.00	NONMANUFACTURING:			
MANUFACTURING	144 52		297.00 284.00	MANUFACTURING	86 96		205.00 170.50	FINANCE	80	38.5	335
	1							COMPUTER SYSTEMS ANALYSTS	100	70.0	
SECRETARIES + CLASS B	529 331		261.50	SWITCHBOARD OPERATOR-RECEPTIONISTS-	60	37.5	189.00	(BUSINESS) CLASS A	189	_	
NONMANUFACTURING	198	39.0	255.00	ORDER CLERKS	114		191.50				
PUBLIC UTILITIESFINANCE	42 79		301-50 245-00	MANUFACTURING	91	39.5	190.50	COMPUTER SYSTEMS ANALYSTS (BUSINESS) CLASS B:			
		1		ORDER CLERKS+ CLASS B	85		175.50	MANUFACTURING	93	39.5	400
SECRETARIES CLASS C	854 468		228.00	MANUFACTURING	73	39.5	181-00	COMPUTER PROGRAMMERS (BUSINESS)	496	39.0	334
NONMANUFACTURING	386	38.5	212.00	ACCOUNTING CLERKS			198-50	MANUFACTURING	308	39.5	340
FINANCE	210		271.00	MANUFACTURING	727	39.0	206.00	NONMANUFACTURING: FINANCE	100	37.5	312
	_			FINANCE	88	38.0	177.50				
SECRETARIES + CLASS D	684 428		220.00	ACCOUNTING CLERKS+ CLASS A:				CLASS A	200	39.0	371
NONMANUFACTURING	256		207.50	MANUFACTURING	390	39.0	224.50	MANUFACTURING	148		
SECRETARIES. CLASS E	308	38.5	177.50	NONMANUFACTURING: FINANCE	58	38.0	187.00	COMPUTER PROGRAMMERS (BUSINESS).			
MANUFACTURING	126	40.0	189.50					CLASS B:	1		
NONMANUFACTURING	182	37.5	169.50	ACCOUNTING CLERKS+ CLASS B	612 337		178-00 184-50	MANUFACTURING	112	40.0	315
TENOGRAPHERS:				NONMANUFACTURING	275		170.50	COMPUTER PROGRAMMERS (BUSINESS).			
MANUFACTURING	333	39.5	217.00	BOOKKEEPING-MACHINE OPERATORS	53	39.0	172.00	CLASS C	89	39.0	276
FINANCE	108	38.0	168.00			3	11000	COMPUTER OPERATORS:			
STENGGRAPHERS. GENERAL	313	39-0	207.00	BOOKKEEPING-MACHINE OPERATORS. CLASS B	50	39.0	167.00	MANUFACTURING	233	39.5	272
MANUFACTURING	157		219.50			i		FINANCE	91	38.0	203
STENOGRAPHERS. SENIOR:				PAYROLL CLERKS	266 156		209.00	COMPUTER OPERATORS, CLASS A	140	39.0	27
MANUFACTURING	176	39.5	215.00	NONMANUFACTURING	110		199.50	MANUFACTURING	82	39.5	282
TYPISTS:				KEY ENTRY OPERATORS	796	39.5	195.50	NONMANUFACTURING	58	38.5	264
MANUFACTURING	489	39.5	173.00	MANUFACTURING	439	39.5	204.50	COMPUTER OPERATORS. CLASS B			
NONMANUFACTURING:		70.0		NONMANUFACTURING	357		184.50	MANUFACTURING	128		279
FINANCE	304	38.0	150.50	FINANCE	102	38.0	155.00	NONMANUFACTURING	66	38.5	216

Table A-10. Average weekly earnings of office, professional, and technical workers, by sex–large establishments in Cleveland, Ohio, September 1978—Continued

			erage ean 1	·			erage ean ²)				rerage sean ²)
Sex, 5 occupation, and industry division	Number of workers	Weekly hours (standard)	Weekly earnings ¹ (standard)	Sex, 3 occupation, and industry division	Number of workers	Weekly boum! (standard)	Weekly earnings ¹ (standard)	Sex, 3 occupation, and industry division	Number of workers	Weekly houn (standard)	earning
PROFESSIONAL AND TECHNICAL OCCUPATIONS - MENCONTINUED				PROFESSIONAL AND TECHNICAL OCCUPATIONS - MENCONTINUED			5	PROFESSIONAL AND TECHNICAL OCCUPATIONS - WOMEN			
RAFTERS:				ELECTRONICS TECHNICIANS	278			COMPUTER PROGRAMMERS (BUSINESS):			\$
MANUFACTURING	435	39.5	282.50	MANUFACTURING	264	40-0	266-00	MANUFACTURING	92	39.5	1310.
DRAFTERS+ CLASS A	211		321-00	ELECTRONICS TECHNICIANS. CLASS A-			305.50		53	39.0	249.
MANUFACTURING	206	39.5	320.00	MANUFACTURING	60	40.0	299.50	REGISTERED INDUSTRIAL NURSES	143	40.0	299.
DRAFTERS+ CLASS 8:				ELECTRONICS TECHNICIANS. CLASS B-	127		283.00	MANUFACTURING	131	40-0	302.
MANUFACTURING	149	39.5	266.00	MANUFACTURING	127	40.0	283.00				
DRAFTERS. CLASS C	80	39.5	224.50								
MANUFACTURING	75	39.5	221.00								

Table A-11. Hourly earnings of maintenance, toolroom, and powerplant workers—large establishments in Cleveland, Ohio, September 1978

			Hourly er	rmings ⁴	Num	ber of	worke	ers re	ceivin	g stra	ight-ti	me hou	ırly ea	arning	s of—												
Occupation and industry division	Number of workers	Mean ²	Median ²	Middle range ²	Unde \$ 4.80	and under	5.00	5.20	5.40	5.60 -	5.80	-	-60	7.00	7.40	7.80	8.20	8.60	9.00	9.40	9.801	-	-	-	-	-	an
						3.00	3.20	3.40	9,40	3. 00	0.20	0240	7.00	1440		4,20	0200	7000	7= 40	78 80 1	0.201	0.001				2020	-01
ALL WORKERS		\$	S	\$ \$							l																
INTENANCE CARPENTERS MANUFACTURING NONMANUFACTURING	210 148 62	8.73	8 - 85	7-43-10-06 7-86- 9-86	-		-	=		-	13 12 1	22 1 21	2	16	5 5 -	6 4 2	14	23 23 -	13 13 -	13 11 2	41 41	6 -	2 - 2	1 1	Ξ	29	
INTENANCE ELECTRICIANS MANUFACTURING			10.05 10.05		_	-	Ē	-	_	ā	20 20	16 16	20 20	43 42	52 51	39 39	102 101	138 37	29 29	154 152	389 389	319 316	56 55	39 39	16 17	-	
INTENANCE PAINTERS	144 125				-	-	- 2	-	3	-	1 1	6 2	4	8	7	3 1	10 10	7 3	10 10	47 47	31 29	_	3 -	1 -	2	1	
INTENANCE MACHINISTS MANUFACTURING	307 305				_	-	-	-	<u> </u>	1-7	15 15	7	9	33 33	17 17	35 33	74 74	9	15 15	#1 #1	11 11	11 11	27 27	t 1	2	-	
INTENANCE MECHANICS (MACHINERY) - MANUFACTURING			9.96		-	1 1	_	-	-	-	34 34	43 39	97 84	45 45	51 50	43 38	159 156	143 12	82 79	277 277	944 944	30 30	79 79	33 33	8	30 30	
INTENANCE MECHANICS MOTOR VEHICLES)	519 263 256 218	9.42 8.37	9 - 86 8 - 43	7.40- 8.90 7.40- 8.90	-	į	-		3 3 -	1 -	2 2 -	į	1 -	19 6 13 10	83 26 57 56	29 3 26 26	75 9 66 52	73 12 61 43	3	38 37 1 1	167 137 30 30	21 21 -	4 4 -		- - -	1191	
INTENANCE PIPEFITTERS	631 631	1			-	_	-	+	6	-	23 23	2	5 5	33 33	16 16	1	55 55	26 26	36 36	63 63	348 348	17 17	_	-	-	-	
INTENANCE SHEET-METAL WORKERS	214 164					-	_	=	=	-	50	-	1	1	-	-	15 15	_	-	-	147 147	_	_	-	-	-	
MANUFACTURING	925 925					1.2	Ξ	-	<u> </u>	-		3	-	13 13	49 49	10 10	32 32	-	37 37	110 110	670 670	1	-	-	-	-	
AINTENANCE TRADES HELPERS MANUFACTURING	211 200						- 2	10	1 1	1	3	23 23	13 13	33 32	20 20	21 21	40 40	31 31	1	3 3	-	1	_	-	_	_	
ACHINE-TOOL OPERATORS (TOOLROOM) - MANUFACTURING	555 555			1		-		-	-	-	-	10 10	9	20 20	21 21	5 5	101 101	3	16 16	21 21	335 335	14 14	_	-	_	2	
OOL AND DIE MAKERS MANUFACTURING			10.07			_		-	-	-	-	Ē	9	16 16	93 93	56 49	50 50	193 193	-	92 92	770 770	3 3	1	1.5	Ē	-	
ATIONARY ENGINEERS	189					-	12 9	-	_	1	11 9	1 -	1	10 10	33 27	7	12 11	8	1 1 1 1	18 18	37 36	20 20	-	3	4	1	
ILER TENDERS	114					-	-			-	15 15	5 5	4	5 5	6	16 16	23 23	6	-	-	34 34	-	-	-	-	-	

^{*} Workers were distributed as follows: 8 at \$12.60 to \$13; and 1 at \$13 to \$13.40.

Table A-12. Hourly earnings of material movement and custodial workers-large establishments in Cleveland, Ohio, September 1978

			Hourly es	mings 4		Numb	er of	worke	rs rec	eiving	strai	ght-ti	me ho	urly e	arning	a of—												
Occupation and industry division	Number					\$ 2.60	\$ 2.70	2.80	3.00		3.40	-	\$ 3.80			\$ 4.80									8.40	8.80	9.20	9-61
Occupation and madery devices.	workers	Mean 2	Median ²	Middle ra	inge ²	and under	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	and
						2.70	2.80	3.00	3.20	3.40	3.60	3.80	4.00	4.40	4,80	5,20	5.60	6.00	6.40	6.80	7.20	7-60	8=00	8.40	8.80	9.20	9-60	over
ALL HARVERS																												
ALL WORKERS		\$	\$		\$									١.	-		10	7.5										_
MANUFACTURING	1+108 350	8.50 8.01	8.80 7.95	7.69-		-		-	-	-	2	-	i	1	6	1	10 10	35 3	19 11	24 7	38 14	127 7	131 114	88 88	17 13	96 37	477	3
TRUCKDRIVERS. LIGHT TRUCK	109	7.25	7-69	7-30-	7.69	-	-	-	-	-	2	-	-	-	4	1	1	1	7	-	8	20	62	2	1	-	-	
TRUCKDRIVERS, MEDIUM TRUCK:	57	7.77	8-28	7-19-	8.34	-	-	-	-	-	-	-	-	-	3	-	-	1	2	4	9	-	2	24	-	12	-	
TRUCKDRIVERS. HEAVY TRUCK	100	7.76	7.90	7.35~	7.90	-	-	-	-	-	-	~	-	-	-	-	-	2	-	1	-	33	58	-	-	-	5	:
TRUCKDRIVERS+ TRACTOR-TRAILER	353 144		9-11 8-33	8.45- 8.30-		_	-	-	-	-	_	-	1	1	-	_	9	1	9	3	3 2	2	9	53 53	15 12	8 I 22	138	*3
SHIPPERS	124 107	6.90 7.02	7 • 68 7 • 68	5.69- 5.71-		_		+	1	1	-	1	1	3 2	6 6	13 13	2	6	10 6	3 2	A	2	34 32	15 15	4	12 12	-	-
RECEIVERS MANUFACTURING NONMANUFACTURING	185 114 71	6.60 7.27 5.52	6.65 7.92 5.55	5.49- 6.22- 4.51-	8.23	-	1	2 - 2	1 - 1	6 - 6	3	3	-	3 2 1	13 1 12	6 4 2	14 9 5	10 6 4	23 10 13	12 8 4	5 5 -	8 7 1	24 13 11	43 43 -	3 1 2	9 5 -	=	
SHIPPERS AND RECEIVERS	62	7.52	7.79	6.66-	8.76	-	-	-	-	-	-	-	-	1	-	-	-	2	10	6	9	2	6	8	18	-	_	
WAREHOUSEMEN	350 149 201	6.58 6.44 6.68	6 • 25 6 • 22 6 • 65	6.22- 6.07- 6.25-	6.92	_	- 17	6 - 6	10 - 10	-		-	-	1 - 1	-	3 2 1	11 11 -	10 10	149 68 81	23 19	44 23 21	45 - 45	1 0 1 6	30 - 30	-	-	-	
ORDER FILLERS MANUFACTURING NONMANUFACTURING	932 522 410	7.12 6.71	7.85 6-68 7.85	6.31- 5.59- 7.85-	7.88	-	111	1 1 -	1	1 1 -	2	-	1 1 -	15 15	56 55 1	14 14	77 77	40 28 12	66 52 14	31 31 -	51 1 50	33 8 25	404 124 280	75 51 24	53 49 4	5	1	
SHIPPING PACKERS	361 258 103	6 • 60 7 • 06 5 • 45	6.81 7.55 6.14	5 · 85 - 6 · 07 - 3 · 48 -	8.07	10.0	2 - 2	7 - 7	10 - 10	6	3 - 3	6 5 1	2 1 1	6 3 3	Ē	9 7 2	7 7 -	34 18 16	66 51 15	3 2 1	60 31 29	12 5 7		122	6	-	ż	
MATERIAL HANDLING LABORERS MANUFACTURING NONMANUFACTURING	1+490 1+160 330	7.35 7.39 7.23	7.97 7.97 7.90	7.06- 7.14- 6.72-	8.14		1.1	9 3 1	4	6	8 7 1	2 1 1	2 1 1	5 4 1	107 105 2	19 8 11	26 19 7	53 29 24	51 32 19	36 25 11	150 99 51	91 71 20	256	636 478 158	8	-	=	1
FORKLIFT OPERATORS	1.937 1.710 227	7.51 7.49 7.60	8-14 8-14 7-90	7 • 1 3 - 7 • 3 2 - 7 • 0 7 -	8.20	- - -	-	-	9	-	4 4 -	-	- -		189 189 -	5 4 1	5	42 40 2	96 84 12	65 58 7	90 42 48	109 84 25		10 94 10 29 65	18 15 3	9 9 -	8	2
POWER-TRUCK OPERATORS (OTHER THAN FORKLIFT)	296 281	8 • 22 8 • 35	8.09 8.09	7.80- 8.09-		<u>-</u>	<u>-</u>	-	-	-	-	-	-	_	-	_	-	17	_	1	21 21	25 25	17 17	149 149	12 12	5 5	3	**4
GUARDS MANUFACTURING NONNANUFACTURING:	1+373 571	4.85 7.07	4 • 25 7 • 69	2.65- 6.02-		390	119	53	40	15	12 1	8	16	40 16	47 34	41 27	52 21	80 36	79 64	27 23	48 41	14 14	27 27	182 182	83 83	-	-	
FINANCE	133	5.42	5.60	4.95-	5.86	-	-	-	-	-	-	-	4	15	11	10	30	38	15	3	7	-	-	-	-	-		

^{*} Workers were distributed as follows: 25 at \$ 9.60 to \$ 10; and 8 at \$ 10 to \$ 10.40.

** Workers were distributed as follows: 12 at \$ 9.60 to \$ 10; 31 at \$ 10.40 to \$ 10.80; and 3 at \$ 11.60 to \$ 12.

Table A-12. Hourly earnings of material movement and custodial workers—large establishments in Cleveland, Ohio, September 1978—Continued

			Hourly es	mings 4	Numl	er of	worke	rs rec	eiving	strai	ght-tir	ne ho	urly e	arning	s of-												
Occupation and industry division	Number of				\$ 2.60	\$ 2.70	\$ 2.80	s 3.00	3.20	s 3.40	s 3.60	\$ 3.80	\$ 4.00	\$ 4.40	\$ 4.80	5.20	5.60	\$ 6.00	\$ 6.40	\$ 6-80	\$ 7.20	\$ 7.60	8.00	8.40 E	.80 9	20	7.60
	workers	Mean 2	Median ²	Middle range 2	and under	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	_	and
					2.70	2.80	3.00	3.20	3.40	3.60	3.80	4.00	4,40	4.80	5,20	5.60	6.00	6-40	6.80	7.20	7.60	8.00	8-40	8-80 9	.20 9	0.60	ver
ALL WORKERS CONTINUED																											
GUARDS - CONTINUED																											
GUARDS+ CLASS A	459	\$ 5.89	5 86	\$ \$ 4.16- 8.03	-	22	27	33	5	2	2	4	31	16	11	35	53	32	6	25	3	23	129	-	-	-	_
MANUFACTURING	220	7.42	8.03	7.14- 8.25		-	-	-	-	_	-	-	12	3	-	4	9	17	2	18	3	23	129	_	-	-	-
NONMANUFACTURING	239	4.47		3-00- 5-65		22	27	33	5	2	2	4	19	13	11		44	15 15	4	7	-	_	-			-	_
FINANCE	131	5.44	5-60	5-04- 5-87		_	-	-	_	-	_	4	14	11	9	30	38	15	3	,	_	-					
GUARDS. CLASS B	914	4.33	2.70	2.65- 6.26	390	97	26	7	10	10	6	12	9	31	30	17	27	47	21	23	11	4	53	83	-	-	_
MANUFACTURING	351	6.84	6-76	5.68- 8.26	-	-	-	-	1	1	1	-	4	31	27	17	27	47	21	23	11	4	53	83	-	_	-
JANITORS. PORTERS. AND CLEANERS	2 0 6 2 9	5.26	9.36	4.02- 6.87	36	29	44	36	39	51	89	28	974	111	206	46	56	132	5	190	70	447	23	1	14	-	-
MANUFACTURING	1+113	6.69	7.12	5.72- 7.79	-	2	5	4	6	5	6	6	42	55	92	39	38	112	4	173	64	437	22	1	-	-	-
NONMANUFACTURING	1+516	4.20	4.02	4.02- 4.32	38	27	39	32	33	46	83	22	932	56	114	7	18	20	1	17	6	10	1	-	14	-	-
					[

Table A-13. Average hourly earnings of maintenance, toolroom, powerplant, material movement, and custodial workers, by sex—large establishments in Cleveland, Ohio, September 1978

Sex, 3 occupation, and industry division	Number of workers	Average (mean ²) hourly earnings	Sex, 3 occupation, and industry division	Number of workers	Average (mean ²) hourly earnings ⁴	Sex, occupation, and industry division	Number of workers	Average (mean ²) hourly earnings
MAINTENANCE. TOOLROOM. AND			MAINTENANCE. TOOLROOM. AND			MATERIAL MOVEMENT AND CUSTODIAL OCCUPATIONS - MENCONTINUED		
POWERPLANT OCCUPATIONS - MEN			POWERPLANT OCCUPATIONS - MENCONTINUED			OCCUPATIONS - NEWCONTINUED		
MAINTENANCE CARPENTERS	210	9-07	MEM-COMITMOED			FORKLIFT OPERATORS	1.089	7.51
MANUFACTURING	148		BOILER TENDERS	114			1 . 6 6 3	1
NONMANUFACTURING	62	9.89	MANUFACTURING	114			226	7.60
MAINTENANCE ELECTRICIANS	1+409	9.49				POWER-TRUCK OPERATORS		
MANUFACTURING	1.297	9.53	MATERIAL MOVEMENT AND CUSTODIAL OCCUPATIONS - MEN			MANUFACTURING	296 281	
MAINTENANCE PAINTERS	141	9.04	OCCOPATIONS - NEW					
MANUFACTURING	122	9.01	TRUCKORIVERS	1.072	8.47	GUARDS	1+241	4.91
			MANUFACTURING	349	8.01	MANUFACTURING	530	7.03
MAINTENANCE MACHINISTS	307	8-51		-		NONMANUFACTURING:		
MANUFACTURING	305	8-51	TRUCKORIVERS. LIGHT TRUCK	109	7 - 25	FINANCE	1 32	5.43
MAINTENANCE RECHANICS (MACHINERY) -	2.072	9-37	TRUCKDRIVERS, MEDIUM TRUCK:	1		GUARDS+ CLASS A	429	5.78
MANUFACTURING	1+912	9.43	MANUFACTURING	56	7.76	MANUFACTURING	194	
						NONMANUFACTURING	235	
MAINTENANCE MECHANICS	644	8.90	TRUCKDRIVERS. HEAVY TRUCK	100	7.76	FINANCE	1 30	5.45
MANUFACTURING	511 255		TRUCKORINGOS TOACTOR TRAILER	750		GUARDS+ CLASS B	812	4.46
NONMANUFACTURING	256	8.37	TRUCKDRIVERS. TRACTOR-TRAILER	352 144		MANUEACTURING	336	
PUBLIC UTILITIES	218	8.39	HANDF RCT OK ING	'''	0.50			İ
			SHIPPERS	105	6.83	JANITORS. PORTERS. AND CLEANERS	1 . 487	5.71
MAINTENANCE PIPEFITTERS	628	9-22	MANUFACTURING	88	6.97	MANUFACTURING	819	6.91
MANUFACTURING	628	9.22	i e			NONMANUFACTURING	668	4.22
			RECEIVERS	172				
MAINTENANCE SHEET-METAL WORKERS	214	8 - 85	MANUFACTURING	101				
MANUFACTURING	164	9.71	NONMANUFACTURING	71	5.52	MATERIAL MOVEMENT AND CUSTODIAL		
MILLWRIGHTS	905	9.58	SHIPPERS AND RECEIVERS	54	7.46			
MANUFACTURING	905		JULITURES AND RESERVERS	- 77	7.40	a distribution of the state of		
			WAREHOUSEMEN	287	6-73			
MAINTENANCE TRADES HELPERS	210	7.45	MANUFACTURING	138	6.45	WAREHOUSEMEN	63	5 . 86
MANUFACTURING	199	7.56	NONMANUFACTURING	149	7.00	NONMANUFACTURING	52	5.77
			PUBLIC UTILITIES	45	7.78			
MACHINE-TOOL OPERATORS (TOOLROOM) - MANUFACTURING	545 545	9.31				SHIPPING PACKERS	108	_
HANUFACTORING	545	7031	ORDER FILLERS:	700	7 7/	NONMANUFACTURING	63	4.96
TOOL AND DIE MAKERS	1,267	9.46	NONMANUFACTURING	360	7.76	GUARDS	114	3 - 65
MANUFACTURING	1,260		SHIPPING PACKERS	235	7.03	I	91	2.76
I			MANUFACTURING	195				1
STATIONARY ENGINEERS	183	8.54				GUARDS+ CLASS B	102	3.31
MANUFACTURING	161	8.73	MATERIAL HANDLING LABORERS	1 - 344				
			MANUFACTURING	1.042		JANITORS, PORTERS, AND CLEANERS NONMANUFACTURING	983	
			NONMANUFACTURING	302	7.37		753	4.07

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.
- 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

In each of the 75¹ areas currently surveyed, the Bureau obtains wages and related benefits data from representative establishments within six broad industry divisions: Manufacturing; transportation, communication, and other public utilities; wholesale trade; retail trade; finance, insurance, and real estate; and services. Government operations and the construction and extractive industries are excluded. Establishments having fewer than a prescribed number of workers are also excluded because of insufficient employment in the occupations studied. Appendix table 1 shows the number of establishments and workers estimated to be within the scope of this survey, as well as the number actually studied.

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

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

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

Occupations and earnings

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

l Included in the 75 areas are 5 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.; Poughkeepsie-Kingston-Newburgh, N.Y.; and Utica-Rome, 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.

and powerplant; and (4) material movement and custodial. Occupational classification is based on a uniform set of job descriptions designed to take account of interestablishment variation in duties within the same job. Occupations selected for study are listed and described in appendix B.

Unless otherwise indicated, the earnings data following the job titles are for all industries combined. Earnings data for some of the occupations listed and described, or for some industry divisions within the scope of the survey, are not presented in the A-series tables because either (1) 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 Key entry 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:

- 1. Average earnings are computed for each occupation for the 2 years being compared. The averages are derived from earnings in those establishments which are in the survey both years; it is assumed that employment remains unchanged.
- 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 Cleveland, Ohio, September 1978

	Minimum	Number of es	tablishments	Workers in establishments						
Industry division ²	employment in establish-	Within scope		Within scope	of study 4					
	ments in acope of study	of study	Studied	Number	Percent	Studied				
ALL ESTABLISHMENTS										
ALL DIVISIONS	_	1+174	305	394 + 354	100	245+301				
MANUFACTURING	100	434 740	146 159	205+266 189+088	52 48	136+414 108+887				
TRANSPORTATION, COMMUNICATION, AND OTHER PUBLIC UTILITIES ⁵	100	47 212	16 33	32 • 762 27 • 450	8	26+872 8+351				
RETAIL TRADEFINANCE, INSURANCE, AND REAL ESTATE	100 50	116 147	39 26	68 • 610 27 • 957	17	48+139 15+151				
SERVICES THE LARGE ESTABLISHMENTS	50	218	45	32 + 30 9	8	10+374				
ALL DIVISIONS		148	119	232.755	100	208:474				
MANUFACTURING NONMANUFACTURING TRANSPORTATION, COMMUNICATION, AND	500	8 4 6 4	67 52	131,337 101,418	56 44	116•756 91•718				
OTHER PUBLIC UTILITIES	500 500 500	9 6 35	8 6	25 • 762 4 • 944	11 2	25+088 4+944				
FINANCE, INSURANCE, AND REAL ESTATE 6 SERVICES 7	500 500 500	8 6	24 8 6	53+914 12+109 4+689	23 5 2	44+888 12+109 4+689				

The Cleveland Standard Metropolitan Statistical Area, as defined by the Office of Management and Budget through February 1974, consists of Cuyahoga, Geauga, Lake, and Medina 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 <u>Standard Industrial Classification Manual</u> 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 one establishment.

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

5 Abbreviated to "public utilities" in the A-series tables. Taxicabs and services incidental to water transportation are excluded. Local-transit operations and an electric utility (supplying less than half the electricity consumed in the Cleveland area) 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 approriate 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; and parttime, temporary, and probationary workers. Handicapped workers whose earnings are reduced because of their handicap are also excluded. Learners, beginners, and trainees, unless specifically included in the job descriptions, are excluded.

Office

SECRETARY

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

Exclusions

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

- a. Positions which do not meet the "personal" secretary concept described above;
- b. Stenographers not fully trained in secretarial-type duties;
- Stenographers serving as office assistants to a group of professional, technical, or managerial persons;
- d. Assistant-type positions which entail more difficult or more responsible technical, administrative, or supervisory duties which are not typical of secretarial work, e.g., Administrative Assistant, or Executive Assistant;

SECRETARY—Continued

Exclusions-Continued

- e. Positions which do not fit any of the situations listed in the sections below titled "Level of Supervisor, "e.g., secretary to the president of a company that employs, in all, over 5,000 persons;
- f. Trainees.

Classification by Level

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

Level of Secretary's Supervisor (LS)

Secretaries should be matched at one of the four LS levels described below according to the level of the secretary's supervisor within the company organizational structure.

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

SECRETARY-Continued

Classification by Level-Continued

- b. Secretary to a nonsupervisory staff specialist, professional employee, administrative officer or assistant, skilled technician or expert. (NOTE: Many companies assign stenographers, rather than secretaries as described above, to this level of supervisory or nonsupervisory worker.)
- LS-2 a. Secretary to an executive or managerial person whose responsibility is not equivalent to one of the specific level situations in the definition for LS-3, but whose organizational unit normally numbers at least several dozen employees and is usually divided into organizational segments which are often, in turn, further subdivided. In some companies, this level includes a wide range of organizational echelons; in others, only one or two; or
 - b. Secretary to the head of an individual plant, factory, etc., (or other equivalent level of official) that employs, in all, fewer than 5,000 persons.
- LS-3 a. Secretary to the chairman of the board or president of a company that employs, in all, fewer than 100 persons; or
 - b. Secretary to a corporate officer (other than chairman of the board or president) of a company that employs, in all, over 100 but fewer than 5,000 persons; or
 - c. Secretary to the head (immediately below the officer level) over either a major corporatewide functional activity (e.g., marketing, research, operations, industrial relations, etc.) or a major geographic or organizational segment (e.g., a regional headquarters; a major division) of a company that employs, in all, over 5,000 but fewer than 25,000 employees; or
 - d. Secretary to the head of an individual plant, factory, etc., (or other equivalent level of official) that employs, in all, over 5,000 persons; or
 - e. Secretary to the head of a large and important organizational segment (e.g., a middle management supervisor of an organizational segment often involving as many as several hundred persons) of a company that employs, in all, over 25,000 persons.
- LS-4 a. Secretary to the chairman of the board of president of a company that employs, in all, over 100 but fewer than 5,000 persons; or
 - b. Secretary to a corporate officer (other than the chairman of the board or president) of a company that employs, in all, over 5,000 but fewer than 25,000 persons; or
 - c. Secretary to the head, immediately below the corporate officer level, of a major segment or subsidiary of a company that employs, in all, over 25,000 persons.

NOTE: The term "corporate officer" used in the above LS definition refers to those officials who have a significant corporatewide policymaking role with regard to major company activities. The title "vice president," though normally indicative of this role, does not in all cases identify such

SECRETARY-Continued

Classification by Level-Continued

positions. Vice presidents whose primary responsibility is to act personally on individual cases or transactions (e.g., approve or deny individual loan or credit actions; administer individual trust accounts; directly supervise a clerical staff) are not considered to be "corporate officers" for purposes of applying the definition.

Level of Secretary's Responsibility (LR)

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

Level of Responsibility 1 (LR-1)

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

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

Level of Responsibility 2 (LR-2)

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

- a. Screens telephone and personal callers, determining which can be handled by the supervisor's subordinates or other offices.
- b. Answers requests which require a detailed knowledge of office procedures or collection of information from files or other offices. May sign routine correspondence in own or supervisor's name.
- c. Compiles or assists in compiling periodic reports on the basis of general instructions.

Level of Responsibility 2 (LR-2)-Continued

- d. Schedules tentative appointments without prior clearance. Assembles necessary background material for scheduled meetings. Makes arrangements for meetings and conferences.
- e. Explains supervisor's requirements to other employees in supervisor's unit. (Also types, takes dictation, and files.)

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

Level of secretary's supervisor	Level of secretary's responsibility		
	LR-1	LR-2	
LS-1	Class E Class D	Class D Class C	
LS-2LS-3	Class C	Class B	
LS-4	Class B	Class A	

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

STENOGRAPHER-Continued

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

TYPIST

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

Class A. Performs one or more of the following: Typing material in final form when it involves combining material from several sources; or responsibility for correct spelling, syllabication, punctuation, etc., of technical or unusual words or foreign language material; or planning layout and typing of complicated statistical tables to maintain uniformity and balance in spacing. May type routine form letters, varying details to suit circumstances.

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

FILE CLERK

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

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

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

FILE CLERK—Continued

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.

ORDER CLERK-Continued

Positions are classified into levels according to the following definitions:

<u>Class A.</u> 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.

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

ACCOUNTING CLERK

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

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

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

Class A. Under general supervision, performs accounting clerical operations which require the application of experience and judgment, for example, clerically processing complicated or nonrepetitive accounting transactions, selecting among a substantial variety of prescribed accounting codes 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.

<u>Class B.</u> 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.

BOOKKEEPING-MACHINE OPERATOR-Continued

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 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.

KEY ENTRY OPERATOR

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

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

Class A. Work requires the application of experience and judgment in selecting procedures to be followed and in searching for, interpreting, selecting, or coding items to be keypunched from a variety of source documents. On occasion may also perform some routine keypunch work. May train inexperienced keypunch operators.

KEY ENTRY OPERATOR—Continued

<u>Class B.</u> 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.

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 systems analysis. Problems are complex because of diverse sources of input data and multiple-use requirements of output data. (For example, develops an integrated production scheduling, inventory control, cost analysis, and sales analysis record in which every item of each type is automatically processed through the full system of records and appropriate 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,

COMPUTER SYSTEMS ANALYST, BUSINESS-Continued

develops systems for maintaining depositor accounts in a bank, maintaining accounts receivable in a retail establishment, or maintaining inventory accounts in a manufacturing or wholesale establishment.) Confers with persons concerned to determine the data processing problems and advises subject-matter personnel on the implications of the data processing systems to be applied.

OR

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

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

COMPUTER PROGRAMMER, BUSINESS

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

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.

COMPUTER PROGRAMMER, BUSINESS-Continued

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

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

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

OR

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

May guide or instruct lower level programmers.

<u>Class C.</u> 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 <u>most of the following</u>: 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

COMPUTER OPERATOR—Continued

are of critical importance to minimize downtime; the programs are of complex design so that identification of error source often requires a working knowledge of the total program, and alternate programs may not be available. May give direction and guidance to lower level operators.

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

OR

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

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

DRAFTER

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

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

DRAFTER-Continued

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).

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, 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

MAINTENANCE CARPENTER—Continued

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

MAINTENANCE ELECTRICIAN

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

MAINTENANCE PAINTER

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

MAINTENANCE MACHINIST

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

MAINTENANCE MECHANIC (Machinery)

Repairs machinery or mechanical equipment of an establishment. Work involves most of the following: Examining machines and mechanical equipment to diagnose source of trouble; dismantling or partly dismantling machines and performing repairs that mainly involve the use of handtools in scraping and fitting parts; replacing broken or defective parts with items

MAINTENANCE MECHANIC (Machinery)—Continued

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 \underline{not} include machine-tool operators (toolroom) employed in tool and die jobbing shops.

TOOL AND DIE MAKER

Constructs and repairs jigs, fixtures, cutting tools, gauges, or metal dies or molds used in shaping or forming metal or nonmetallic material (e.g., plastic, plaster, rubber, glass). Work typically involves: Planning and laying out work according to models, blueprints, drawings, or other written or oral specifications; understanding the working properties of common metals and

TOOL AND DIE MAKER-Continued

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 <u>not</u> 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 engineers in establishments employing more than one engineer are excluded.

BOILER TENDER

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

Material Movement and Custodial

TRUCKDRIVER

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

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

Truckdriver, light truck (straight truck, under $1^1/2$ tons, usually 4 wheels) Truckdriver, medium truck (straight truck, $1^1/2$ to 4 tons inclusive, usually 6 wheels) Truckdriver, heavy truck (straight truck, over 4 tons, usually 10 wheels) Truckdriver, tractor-trailer

SHIPPER AND RECEIVER

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

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

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

For wage study purposes, workers are classified as follows:

Shipper Receiver Shipper and receiver

WAREHOUSEMAN

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

Exclude workers whose primary duties involve shipping and receiving work (see Shipper and Receiver and Shipping Packer), order filling (see Order Filler), or operating power trucks (see Power-Truck Operator).

ORDER FILLER

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

SHIPPING PACKER

Prepares finished products for shipment or storage by placing them in shipping containers, the specific operations performed being dependent upon the type, size, and number of units to be packed, the type of container

SHIPPING PACKER-Continued

employed, and method of shipment. Work requires the placing of items in shipping containers and may involve one or more of the following: Knowledge of various items of stock in order to verify content; selection of appropriate type and size of container; inserting enclosures in container; using excelsior or other material to prevent breakage or damage; closing and sealing container; and applying labels or entering identifying data on container. Packers who also make wooden boxes or crates are excluded.

MATERIAL HANDLING LABORER

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

POWER-TRUCK OPERATOR

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

For wage study purposes, workers are classified by type of power-truck, as follows:

Forklift operator Power-truck operator (other than forklift)

GUARD

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

GUARD-Continued

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

For wage study purposes, guards are classified as follows:

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

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

JANITOR, PORTER, OR CLEANER

Cleans and keeps in an orderly condition factory working areas and washrooms, or premises of an office, apartment house, or commercial or other establishment. Duties involve a combination of the following: Sweeping, mopping or scrubbing, and polishing floors; removing chips, trash, and other refuse; dusting equipment, furniture, or fixtures; polishing metal fixtures or trimmings; providing supplies and minor maintenance services; and cleaning lavatories, showers, and restrooms. Workers who specialize in window washing are excluded.

Service Contract Act Surveys

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

Alaska (statewide) Albany, Ga. Alexandria-Leesville, La. Alpena-Standish-Tawas City, Mich. Ann Arbor, Mich. Atlantic City, N.J. Augusta, Ga.-S.C. Austin, Tex. Bakersfield, Calif. Baton Rouge, La. Battle Creek, Mich. Beaumont-Port Arthur-Orange, Tex. Beaumont-Port Arthur-Orange and Lake Charles, Tex.-La. Biloxi-Gulfport and Pascagoula-Moss Point, Miss. Binghamton, N.Y. Birmingham, Ala. Bloomington-Vincennes, Ind. Bremerton-Shelton, Wash. Brunswick, Ga. Cedar Rapids, Iowa Champaign-Urbana-Rantoul, Ill, Charleston-North Charleston-Walterboro, S.C. Charlotte-Gastonia, N.C. Cheyenne, Wyo. Clarksville-Hopkinsville, Tenn.-Ky. Colorado Springs, Colo. Columbia-Sumter, S.C. Columbus, Ga.-Ala. Columbus, Miss. Decatur, Ill. Des Moines, Iowa Duluth-Superior, Minn.-Wis. El Paso-Alamogordo-Las Cruces, Tex.-N. Mex. Eugene-Springfield-Medford, Oreg. Fayetteville, N.C.

Fort Lauderdale-Hollywood and West Palm Beach-Boca Raton, Fla. Fort Smith, Ark.-Okla. Frederick-Hagerstown-Chambersburg, Md.-Pa. Goldsboro, N.C. Grand Island-Hastings, Nebr. Guam, Territory of Harrisburg-Lebanon, Pa. Knoxville, Tenn. Laredo, Tex. Las Vegas-Tonopah, Nev. Lima, Ohio Little Rock-North Little Rock, Ark. Logansport-Peru, Ind. Lorain-Elyria, Ohio Lower Eastern Shore, Md.-Va.-Del. Macon, Ga. Madison, Wis. Maine (statewide) Mansfield, Ohio McAllen-Pharr-Edinburg and Brownsville-Harlingen-San Benito, Tex. Meridian, Miss. Middlesex, Monmouth, and Ocean Cos., N.J. Mobile-Pensacola-Panama City, Ala.-Fla. Montana (statewide) Nashville-Davidson, Tenn. New Bern-Jacksonville, N.C. New Hampshire (statewide) New London-Norwich, Conn.-R.I. North Dakota (statewide) Northern New York Northwest Texas Orlando, Fla. Oxnard-Simi Valley-Ventura, Calif. Peoria, Ill. Phoenix, Ariz. Pine Bluff, Ark. Pueblo, Colo. Puerto Rico Raleigh-Durham, N.C. Reno. Nev. Salina, Kans.

Salinas-Seaside-Monterey, Calif. Sandusky, Ohio Santa Barbara-Santa Maria-Lompoc, Calif. Savannah, Ga. Selma, Ala. Shreveport, La. South Dakota (statewide) Southern Idaho Southwest Virginia Spokane, Wash. Springfield, Ill. Stockton, Calif. Tacoma, Wash. Tampa-St. Petersburg, Fla. Topeka, Kans. Tucson-Douglas, Ariz. Tulsa, Okla. Upper Peninsula, Mich. Vermont (statewide) Virgin Islands of the U.S. Waco and Killeen-Temple, Tex. Waterloo-Cedar Falls, Iowa West Virginia (statewide) Wichita Falls-Lawton-Altus, Tex.-Okla. Wilmington, Del.-N.J.-Md. Yakima-Richland-Kennewick-Pendleton, Wash,-Oreg.

ALSO AVAILABLE-

An annual report on salaries for accountants, auditors, chief accountants, attorneys, job analysts, directors of personnel, buyers, chemists, engineers, engineering technicians, drafters, and clerical employees is available. Order as BLS Bulletin 1980, National Survey of Professional, Administrative, Technical and Clerical Pay, March 1977, \$2.40 a copy, from any of the BLS regional sales offices shown on the back cover, or from the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402.

Area Wage Surveys

A list of the latest bulletins available is presented below. Bulletins may be purchased from any of the BLS regional offices shown on the back cover, or from the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402. Make checks payable to Superintendent of Documents. A directory of occupational wage surveys, covering the years 1970 through 1976, is available on request.

	Bulletin	
<u>Area</u>	and price*	
Akron, Ohio, Dec. 1977	1950-70.	80 cents
Albany-Schenectady-Troy, N.Y., Sept. 1977		
Anaheim-Santa Ana-Garden Grove,		
Calif., Oct. 1977	1950-60.	\$1.00
Atlanta, Ga., May 19781	2025-28,	
Baltimore, Md., Aug. 1977	1950-39,	\$1.20
Billings, Mont., July 1978	2025-38,	\$1.00
Birmingham, Ala., Mar. 1978	2025-15,	80 cents
Boston, Mass., Aug. 19781	2025-43,	\$1.50
Buffalo, N.Y., Oct. 1977	1950-58,	\$1.00
Canton, Ohio, May 1978	2025-22,	70 cents
Chattanooga, Tenn-Ga., Sept. 1977	1950-44,	70 cents
Chicago, Ill., May 1978	2025-32,	\$1.30
Cincinnati, Ohio-KyInd., July 1978	2025-39,	\$1.10
Cleveland, Ohio, Sept. 1978	2025-49,	\$1.30
Columbus, Ohio, Oct. 1977	1950-64,	\$1.00
Corpus Christi, Tex., July 1978	2025-29,	
Dallas-Fort Worth, Tex., Oct. 1977	1950-65,	
Davenport-Rock Island-Moline, Iowa-Ill., Feb. 1978	2025-6,	70 cents
Dayton, Ohio, Dec. 19771	1950-71,	\$1.10
Daytona Beach, Fla., Aug. 1978	2025-48,	
Denver-Boulder, Colo., Dec. 1977	1950-74,	\$1.40
Detroit, Mich., Mar. 1978	2025-11,	\$1.20
Fresno, Calif., June 1978 1	2025-31,	
Gainesville, Fla., Sept. 1978	2025-45,	
Green Bay, Wis., July 19781	2025-41,	\$1.20
Greensboro-Winston-Salem-High Point,	2025 47	4.1.00
N.C., Aug. 1978	2025-46,	The state of the s
Greenville-Spartanburg, S.C., June 1978	2025-30,	
Hartford, Conn., Mar. 1978 1	2025-14,	T
Houston, Tex., Apr. 1978	2025-23,	\$1,20
Huntsville, Ala., Feb. 1978	2025-4,	70 cents
Indianapolis, Ind., Oct. 1977	1950-56,	T
Jackson, Miss., Jan. 1978	2025-1,	70 cents
Jacksonville, Fla., Dec. 1977		70 cents
Kansas City, Mo-Kans., Sept. 1977	1950-54,	
Los Angeles-Long Beach, Calif., Oct. 1977	1950-61,	
Louisville, Ky.—Ind., Nov. 1977	1950-66,	
Memphis, TennArkMiss., Nov. 1977	1950-63,	70 cents

Miami, Fla., Oct. 1977 1950-57, \$1.00 Milwaukee, Wis., Apr. 1978¹ 2025-18, \$1.40 Minneapolis—St. Paul, Minn—Wis., Jan. 1978¹ 2025-2, \$1.40 Nassau—Suffolk, N.Y., June 1978¹ 2025-33, \$1.30 Newark, N.J., Jan. 1978¹ 2025-7, \$1.40 New Orleans, La., Jan. 1978 2025-5, \$1.00
Nassau-Suffolk, N.Y., June 1978 2025-33, \$1.30 Newark, N.J., Jan. 1978 2025-7, \$1.40 New Orleans, La., Jan. 1978 2025-5, \$1.00
Nassau-Suffolk, N.Y., June 1978 2025-33, \$1.30 Newark, N.J., Jan. 1978 2025-7, \$1.40 New Orleans, La., Jan. 1978 2025-5, \$1.00
Nassau-Suffolk, N.Y., June 1978 2025-33, \$1.30 Newark, N.J., Jan. 1978 2025-7, \$1.40 New Orleans, La., Jan. 1978 2025-5, \$1.00
Newark, N.J., Jan. 1978 2025-7, \$1.40 New Orleans, La., Jan. 1978 2025-5, \$1.00
New Orleans, La., Jan. 1978 2025-5, \$1.00
7,000
New York, N.Y.—N.J., May 1978 2025-35, \$1.50
Norfolk-Virginia Beach-Portsmouth, Va
N.C., May 1978 2025-20, 70 cents
Norfolk-Virginia Beach-Portsmouth and
Newport News-Hampton, VaN.C., May 1978 2025-21, 80 cents
Northeast Pennsylvania, Aug. 1978
Oklahoma City, Okla., Aug. 19782025-40, \$1.00
Omaha, NebrIowa, Oct. 1977 1 1950-55, \$1.10
Omaha, Nebr.—Iowa, Oct. 1977 ¹ 1950-55, \$1.10 Paterson—Clifton—Passaic, N.J., June 1978 ¹ 2025-36, \$1.20
Philadelphia, Pa.—N.J., Nov. 1977
Pittsburgh, Pa., Jan. 19782025-3, \$1.10
Portland, Maine, Dec. 1977 1950-69, 70 cents
Portland, Oreg.—Wash., May 1978
Poughkeepsie, N.Y., June 1978 2025-37, \$1.10
Poughkeepsie-Kingston-Newburgh, N.Y., June 1978 2025-42, \$1.20
Providence-Warwick-Pawtucket, R.I
Mass., June 1978 2025-27, \$1.40
Richmond, Va., June 19782025-26, 80 cents
St. Louis, MoIII., Mar. 1978
Sacramento, Calif., Dec. 1977 ¹ 1950-72, \$1.00
Saginaw, Mich., Nov. 1977 1950-59, 70 cents
Salt Lake City-Ogden, Utah, Nov. 19771950-68, 80 cents
San Antonio, Tex., May 1978
San Diego, Calif., Nov. 1977 1 1950-73, \$1.10
San Francisco-Oakland, Calif., Mar. 1978 1 2025-10, \$1.40
San Jose, Calif., Mar. 1978 1 2025-9, \$1.20
Seattle-Everett, Wash., Dec. 19771950-75, 80 cents
South Bend, Ind., Aug. 1978
South Bend, Ind., Aug. 1978 2025-44, \$1.00 Toledo, Ohio-Mich., May 1978 2025-24, \$1.20
Trenton, N.J., Sept. 1977 1950-47, 70 cents
Utica-Rome, N.Y., July 1978
Utica-Rome, N.Y., July 1978
Wichita, Kans., Apr. 1978
Worcester, Mass., Apr. 1978 1 2025-19, \$1.10
York, Pa., Feb. 1978 2025-8, \$1.10

Prices are determined by the Government Printing Office and are subject to change.
 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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Kansas Montana
Missouri North Dakota
North 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

