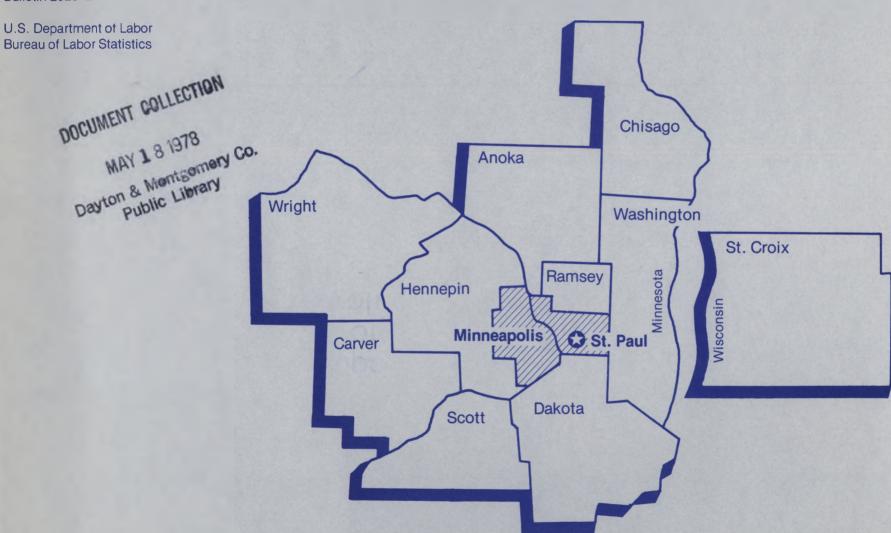
Area Jazs 2
Wage
Survey

Minneapolis—St. Paul, Minnesota—Wisconsin, Metropolitan Area, January 1978



Bulletin 2025-2



Preface

This bulletin provides results of a January 1978 survey of occupational earnings and supplementary wage benefits in the Minneapolis—St. Paul, Minnesota—Wisconsin, 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:

Reports on occupational earnings and supplementary wage provisions in the Minneapolis—St. Paul area are available for the nursing homes (May 1976), banking (December 1976), moving and storage (January 1978), and laundry and dry cleaning (January 1978) industries. Also available for Minneapolis and for St. Paul are listings of union wage rates for building trades, printing trades, local-transit operating employees, local truck-drivers 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

Minneapolis—St. Paul, Minnesota—Wisconsin, Metropolitan Area, January 1978

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

April 1978 Bulletin 2025-2



Contents	raye	9

Dage

Tables:			
		gs, all establishments:	
		Weekly earnings of office workers 3	
1	A-2.	Weekly earnings of professional and technical workers6	
A	A-3.	Average weekly earnings of office, professional, and technical workers, by sex8	
1	A-4.	Hourly earnings of maintenance, toolroom, and powerplant	
	A-5.	workers 10 Hourly earnings of material	
2	M-0.	movement and custodial workers 11	
1	A-6.	Average hourly earnings of maintenance, toolroom, power-plant, material movement, and custodial workers, by sex13	
1	A-7.	Percent increases in average hourly earnings, adjusted for employment shifts, for selected occupational groups14	
		gs, large establishments:	
		Weekly earnings of office workers 15	
4	A-9.	Weekly earnings of professional and technical workers18	
1	A-10.	Average weekly earnings of office, professional, and technical workers, by sex20	
4	A-11.	Hourly earnings of maintenance, toolroom, and powerplant workers21	

Introduction _____2

Cambanta

Tables—Co	ntinued	
	ings, large establishments—	
A-12	. Hourly earnings of material movement and custodial workers	2.2
A-13	. Average hourly earnings of maintenance, toolroom, power-plant, material movement, and	
	custodial workers, by sex	_ 24
	blishment practices and plementary wage provisions:	
B-1.	Minimum entrance salaries for inexperienced typists and clerks	25
B-2.		
B-3,		
B-4.	Annual paid holidays for full-time	
B-5.	F	
B-6.	full-time workersHealth, insurance, and pension	
B-7.	L L	
	full-time workers	_ 33
	. Scope and method of survey	
appendix B	. Occupational descriptions	_ 41

Page

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.

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

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

A-series tables

Tables A-1 through A-6 provide estimates of straight-time weekly or hourly earnings for workers in occupations common to a variety of manufacturing and nonmanufacturing industries. For the 31 largest survey areas, tables A-8 through A-13 provide similar data for establishments employing 500 workers or more.

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

B-series tables

The B-series tables present information on minimum entrance salaries for inexperienced typists and clerks; late-shift pay provisions and practices for production and related workers in manufacturing; and data separately for production and related workers and office workers on scheduled weekly hours and days of first-shift workers; paid holidays; paid vacations; health, insurance, and pension plans; and more detailed information on life insurance plans.

Appendixes

Appendix A describes the methods and concepts used in the area wage survey program. It provides information on the scope of the area survey, the area's industrial composition in manufacturing, and labor-management agreement coverage.

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 Minneapolis-St. Paul, Minn.-Wis., January 1978

					y carnings 1 andard)	Numb	er of	worke:	rs rec	eiving	strai	ght-tir	ne we	ekly ea	arning	gs of-										
Occupation and industry division	Number of workers	Average weekly hours! (standard)	Mean 2	Median ²	Middle range ²	90 and	\$ 95	100						160						260					360	1
						under 95	100	110	120	130	140	150	160	170	180	200	220	240	260	280	300	320	340	360	380	<u> </u>
ALL WORKERS																										
CRETAKIES	61372	70.5	\$	\$	\$ \$	1.5			В	17		20.1	700	E00	0.1.7	11/02										
MANUFACTURING	1				174.00-217.00 178.50-216.50					11	15	62	135	502 257	448		724		212	204 86	30	33 7	69	21	2	
NONMANUFACTURING					169.30-217.30	_	_	-	8	17		179	247		365			287			76	26	66	20	1	
PUBLIC UTILITIES	356				216.00~298.50	-	15-	-	2	-	-	2	5	22	22	30	21	51	26	56	32	23	45	16	1	
SECRETAKIES: CLASS A	550				213.00-270.00	-	-	-	-	-	-	25	3	3	6	63	58	87	128	78	39	10	30	17	3	
MANUFACTURING	262				230.00-269.03	-	-	-	_	_	-		-	-	-	11	38	41	92	48	26	5	2	-	2	
NONMANUFACTURING	288				190.00-276.00	7	-	-	-	-	(-)	25	3	3	6	52	20	46	36	30	13	В	28	17	1	
PUBLIC UTILITIES	73	40.0	300.00	325.00	269.00-338.00	_	-	-	_	-	-	_	1	3	-	2	1	6	2	6	6	5	23	17	1	
SECRETARIES, CLASS B					191.00-234.50	-	_	-	-	=	3	26	15	89 5	91 18		377 227		138	65	52 1	13	38	4	-	
MANUFACTURING	679 684				184.00-236.00	3			1,50		3	26	15	84	73			219 104	81 57	13 52	51	13	38	3	_	
PUBLIC UTILITIES	107				243.00-317.00	-	-	-	-	-	-	-	-	13	-	2	2	6	9	21	18	13	22	1	-	
SECRETARIES. CLASS C	2+348	39.5	189.50	187.50	176.00-203.50	_	_	-	-	_	6	85	127	178	429	814	499	152	36	12	8	2	_	_	_	
MANUFACTURING	1 + 4 0 4	39.5	191.00	190.50	178.50-202.50	-	-	-	-	-	-	23		110	256		327	69	7	4	-	-	-	-	-	
NONMANUFACTURING	944				169.00-208.00	-	_	-	-	-	6	62	104	68	173		172	8.3	29	8	8	2	_	-	-	
PUBLIC UTILITIES	78	40.0	228.50	228.50	209.50-244.00	-	-	-	-	_	-	-	-	7	13	5	3	33	11	4	7	5	-	-	-	
SECRETARIES. CLASS D					156.50-196.50		-	-	8	13	85			155	215		171	53	24	38	3	2	-	-	-	
MANUFACTURING	604				162.00-195.50	-	-	1 -	_	-	15	28	79	100	123	135	69	23	16	12	2	2	_	-	-	
PUBLIC UTILITIES	704				150.50-199.00 181.58-268.50	- 5	_	-	8	13	70	60	105	55 6	92	134	102	30	8 4	26 24	1		_	_	_	
POBLIC DILLIIES	7-								2			_						ь	,				-	_		
SECRETARIES. CLASS E	277				159.00-194.00	-	-	-	-	4	2	16	51	55	49	41	37	18	1	1	1	1	_	-	-	
MANUFACTURING	161				159.00-178.50	-	-	-	-	-	-	1 1	33	39	39	30	4	4	1		-	-	-	-	-	
NONMANUFACTURINS	116	39.5	185.03	185.00	159.50-213.00	-	-	-	-	4	2	5	18	16	10	11	33	14	-	1	1	1	-	-	-	
ENOGRAPHERS					144.00-180.50	-	-	-	В		217			204	215	159	21	17	56		114	12	2	1	-	
MANUFACTURING	709				150.50-175.03	-	-	-	5	7		121		143	129	105	6	2	7	2		-	-	-	-	
NONHANUFACTURING	860				138.00-213.00	-	_	_	3	92	174	130	36	61	86	54	15	15	49		114	12	2	1	-	
PUBLIC UTILITIES	241	40.0	261.00	283.00	240.00-289.00	_	-	-	_	_	2	6	4	2	5	5	10	14	48	16	114	12	2	1	_	
STENOGRAPHERS+ GENERAL					140.50-240.00	-	-	-	8	47	67	81	50	19	58	20	12	9	54	15	69	8	_	-	-	
MANUFACTURING					140.00-162.50	-	-	-	5	4	35	5 2	36	12	14	13	4	-	7	-	-	-	-	-	-	
NONMANUFACTURING	335				144.00-277.50	-	-	_	3	43	32	29	14	7	44		8	9	4.7		69	а	-	-	-	
PUBLIC UTILITIES	180	40.0	253.00	265.00	240.30-288.00	-	-	-	-	_	2	6	4	2	5	5	8	9	47	15	69	8	-	_	_	•
STENOGRAPHERS, SENIOR					144.00-175.50		-	-	-		150				157	139	9	8	2		45	4	2	1	-	-
MANUFACTURING	527				157.50-177.00	-	-	-	-	3	8	69			115	92	2	2	-	2	-	-	-	-	-	,
NONMANUFACTURING	525	39.0	166.50	149.50	137.00-173.00	-	-	-	-	49	142	101	22	54	42	47	7	6	2	1	45	4	2	1	-	
ANSCRIBING-MACHINE TYPISTS					138.00-156.00	-	=	-	1	5	36	4.3	21	10	6	11	3	-	-	-	-	1	-	-	-	
MANUFACTURING					136-00-156-00	-	-	-	1	4	23	20	14	1	1	9	2	_	_	7	-		-	_	-	
NONHABUFACTURING	62	39.5	154.00	146.00	142.50-162.00	-	_	-	_	1	13	23	7	9	5	2	1	-	-	_	_	1	-	-	-	
PISTS					126.50-157.50	-	-		143		444	329	205	98	84	79	60	38	47	37	3	-	-	-	-	
MANUFACTURING	480				129.50-155.00	-	-	5	20 123	97		87 242	59	33 65	15 69	71	1 59	38	31 16	37	- 3	_	_	_	_	
NONMANUFACTURING	1 + 5 2 2				126.50-158.53				123			16	30	17	6	12	23		15		3	- 3	_	=	-	
																										3

Table A-1. Weekly earnings of office workers in Minneapolis-St. Paul, Minn.-Wis., January 1978—Continued

					y earnings (Numb	oer of	worke	ers re	ceivin	g strai	ght-ti	me we	ekly e	arnin	gs of—	-									
Occupation and industry division	Number of workers	A verage weekly hours ¹ (standard)	Mean ²	Median ²	Middle range ²	90 and under	\$ 95 -	100 -								\$ 180 -	\$ 200 -					_	_	\$ 340 -	360 -	\$ 38
						95	100	110	120	130	140	150	160	170	180	200	220	240	260	280	300	320	340	360	380	40
ALL WORKERS CONTINUED																										
TYPISTS - CONTINUED																										
TYPISTS, CLASS A	237 728	39.5 39.0	155.00	140.50	\$ 132.50-160.03 130.00-159.00 132.50-161.00 214.50-275.50			3		136 51 85		4 1	24	44 11 33 3	36 9 27 6	25 5 20 7	39 1 38 17	36 36 36	32 31 1	34 - 34 34	5				6111	
TYPISTS, CLASS B MANUFACTURING NONMANUFACTURING PUBLIC UTILITIES	1 • 031 237 794 141	39.5 39.5	139.50 143.00	138.50 133.50	122.00-155.50 127.50-151.50 122.00-157.50 139.00-167.50	101	-	7 5 2 -	115 17 98 1	288 42 246 11	197 63 134 39	4.6	77 33 44 29	54 22 32 14	48 6 42 -	54 3 51 5	21 21 6	2 - 2 2	15 15 15	3 - 3 3	3 - 3 3	- - -	-	-	-	-
FILE CLERKS MANUFACTURING MONMANUFACTURING PUBLIC UTILITIES	133 1+250	40.0 39.0	138.5J 129.50	131.00	108.00-137.0J 123.00-149.50 108.00-133.5J 180.90-273.50	24 - 24 -	140 - 140 -	-	291 8 283 2	212 52 160 2	100 19 81 3	111 29 82 2	42 7 35 14	16 6 10 7	24 4 20 3	43 8 35 13	6 - 6 6	18 18 18	14 - 14 14	29 - 29 29	15 - 15 15	4 - 4 4	1 1 1		-	-
FILE CLERKS. CLASS A NONMANUFACTURING					140.00-224.00 140.00-232.00	-	-	1 1	-	1	20 20	45 44	1	7	7	. 9 6	-	5 5	_	12 12	13 13	3	1	_	-	
FILE CLERKS. CLASS B NONMANUFACTURING PUBLIC UTILITIES	707 665 77	39.0	131.00	117.00	109.50-139.00 109.50-132.50 190.00-263.00	24	72 72 -		178 176 2		36 32 3	28 25 2	26 19 1	9 6 5	17 13 -	34 29 9	6 6	13 13 13	14 14 14	17 17 17	2 2 2	1 1 1	-	- -	-	
FILE CLERKS+ CLASS C MANUFACTURING NONMANUFACTURING	556 83 473	40.0	131.50	129.00	108.00-124.50 120.00-141.50 103.50-119.50	-	8 o - 6 8	201	113 6 107	77 37 40	44 15 29	38 25 13	15 - 15	- - -	-	- - -	-	-	-	-	-	-	-	-	-	
MESSENGERS NANUFACTURING NONMANUFACTURING PUBLIC UTILITIES	564 199 365 39	39.5 39.0	129.50	127.50 115.00	109.50-135.50 116.00-137.00 109.50-126.50 251.50-269.00	- - -	-	166 23 143	122 42 80	91 38 53	83 53 30 2	34 15 19	21 19 2 2	12 8 4 1	1 - 1 -	1 1 1	3 1 2 2	-	15 15 15	9 - 9 9	6 6 6	-	-	- - -	-	-
SWITCHBOARD OPERATORS	426 67 359 26	39.5 39.5	166.50	162.00 135.00	122.50-165.50 146.00-184.00 121.00-152.50 241.00-270.00	-	4 - 4	1 - 1 -	-	125 - 125	92 8 84 -	50 14 36 1	19 10 9	1 4 5 9 1	38 10 28 1	23 15 8	18 - 18 2	5 5 -	3 - 3 3	1 4 - 1 4 1 4	3 - 3 3	-	31161	-	1	
SWITCHBUARD OPERAIOR-RECEPTIONISTS- NAMUFACTURING NONPANUFACTURING PUBLIC UTILITIES	873 205 668 74	40.0 39.5	155.50	149.50 144.00	129.50-172.50 138.00-172.56 126.00-170.00 138.00-246.00	=	Ē	11 - 11 11	-	167 13 154 6	109 60 49 2	124 34 90 2	77 13 64	115 32 83	8 3 5	72 39 33	109 9 100 24	1	17 1 16 16	13 - 13 13	Ē,	100	-	-	1	
ORDER CLERKS		40.0	182.50 180.0J	172.00 171.00	149.50-204.00 149.50-201.50 144.00-204.00	-	-	14	22 8 14	34 10 24	58 11 47	81 50 31	20 10 10	23	122 22 100	136 43 93	87 29 58	5	23 9 14	71 1 70	20 16 4	1 1 -	-	-	-	-
ORDER CLERKS, CLASS A	459 116 343	40.0	200.00	195.50	170.00-217.50 179.50-218.50 170.00-204.00	-		Ţ.	į	-	13 - 13	28 2 26	9 6 3	10	112 12 100	102 37 65	49 21 26	5 5 -	20 6 14	70 70	16	1 -	-	-	-	-
ORDER CLERKS, CLASS B MANUFACTURING NONMANUFACTURING	282 122 160	40.0	155.50	149.50	130.50-188.50 140.00-162.00 124.00-189.00	-	-	14 - 14	22 8 14	34 10 24	45 11 34	53 46 5	1 1 4 7	13 13 -	10 10 -	34 6 28	38 8 30	- - -	3 3 -	1 1 -	4 - 4	- -	-	- - -	- - -	-

Table A-1. Weekly earnings of office workers in Minneapolis-St. Paul, Minn.-Wis., January 1978—Continued

					y earnings ¹ andard)	Numb	er of	worke	rs rec	eiving	strai	ght-ti	me we	ekly e	arning	gs of—										
Occupation and industry division	Number of workers	Average weekly hours 1 (standard)	Mean ²	Median ²	Middle range 2	90 and under	95 -									180								\$ 340 -	\$ 360 -	3
						95	100	110_	120	130	140	150	160	170	180	200_	220	243	260	280	300	320	340	360	380	4
ALL WORKERS CONTINUED																										
OUNTING CLERKS	6 - 169				\$ 138.00-195.00 146.50-184.50		-	43 14	345 26	603 77	718 194	829 226		615 186	471 193	621 270	432 131	273 62	234	86	212	182	15	5	1	
NONMANUFACTURING	4 • 501 1 • 222	39.0	175.50	159.00	135.00-204.00 198.00-287.00	-		29	319		524 28	603 38		429 54	278 81			211 130		84 78	208 208	173 173	9	5 5	1	
ACCOUNTING CLERKS, CLASS A	2 • 5 4 2 7 3 2				160.00-235.00		-	-	24	47	97 8	229 71	232 75	296 88	276 102		285 123	152	171 31	28	193	180	15	5	1	
NONMANUFACTURING		39.5	205.50	187.00	157.00-240.00	-	-	-	24	45	89		157 7		174		162	91	140	26	189 189	173	9	5 5	1	
CCOUNTING CLERKS+ CLASS 8		39.5	155.00	146.00	130.00-170.00	_	-						250					121	63	58	19	2	-	-	-	
MANUFACTURING NONMANUFACTURINS PUBLIC UTILITIES	924 2+665 497	39.0	155.00	144.00	136.00-169.00 126.50-170.00 170.00-234.00	-	-	14 29	26 295 -	75 468 2	186 435 28	151 432 25	147 103 4	96 221 54	89 104 52	192	8 139 56	1 120 109	13 50 47	58 58	19	-	_	-	13	
KKEEPING-MACHINE OPERATORS	270 249	39.0	156.00	150.00	149.50-174.00 149.50-161.50	-	-	_	43 43	3	4	77	35 35	34 29	41 33	21 13	2	9	-	1	-	_	-	ē	. g	
OOKKEEPING-MACHINE OPERATORS+ CLASS A	99				161.50-174.00		-	-	_	_	_	17	_	29	33	8	2	9	-	1	_	-	_	-	-	
NONMANUFACTURING	91	39.5	173.03	161.50	161.50-174.00		-	-	-	-	_	17	-	29	33		2	9	-	1	-	-	*			
OOKKEEPING-MACHINE OPERATORS: CLASS B NONMANUFACTURING	171 158				118.50-150.00		19	-	43 43	3	4	60	35 35	5	8	13 13	-	-	-	-	-	_	_	-	-	
HINE BILLERS	295 247	39.0	198.50	192.50	135.00-264.00 135.00-268.00	-	_	2	2	44	45 29	32 30	17	3 -	-	5 -	1	1	26 26	117 117	-		-	-	_	
ROLL CLERKS	695 287				157.00-218.50 162.00-218.50		-	=	4	25 11	32 8	58 22	65 18	75 24	51 21	103 55	128	53 29	25 5	3 2	34 26	19	6	1	-	
NONMANUFACTURING	408	39.5	194.03	177.00	155.50-205.00	-	_	-	4	14	24	36	47	51	30		65 9		20 16	1		18	4	1 1	_	-
ENTRY OPERATORS					138.00-172.50		-	35	119	200			444		245 101	291 81	82	6	14	69 10	21	3	-	-	-	
MANUFACTURING NONMANUFACTURING	846 1 • 6 31 203	39.5	160.03	150.50	146.00-170.50 133.00-175.00 187.00-273.00	-	-	33	116	166	78 262 5	169 180 14		162 97 7	144	210	74 43	5	6	59 59	-	3	_	=	_	
EY ENTRY OPERATORS. CLASS A	1 • 164				150.00-180.00 149.50-173.50		-	-	1	25 2	104	150 110	207	193 113	187 86	159	50 3	2	6	67	10	3	-	-	-	
NONMANUFACTURING	631	39.5	178.50	169.50	150.50-190.00	-	_	_	1	23	60		112	80	101	94	47 39			_	10 10		-	_	-	
EY ENTRY OPERATORS, CLASS B					129.50-158.50		-				236			66	56	130	32		6				-	-	-	-
MANUFACTURINGNONMANUFACTURINGPUBLIC UTILITIES	301 1:000 68	39.0	148.00	140.00	140.00-166.00 126.50-156.50 146.50-218.50	1	-	33	115	32 143	34 202 5	59 140 14	82 147 12	49 17 7	13 43		5 27 4		2 6 6	_	7	-	=	-		-

Table A-2. Weekly earnings of professional and technical workers in Minneapolis—St. Paul, Minn.—Wis., January 1978

					ly earnings ¹ tandard)	Num	ber of	worke	ers re	ceivin	gstra	ight-ti	ime w	eekly	earnin	gs of—	_									
	Number	Average		1.5		s	s	s	S.	S	S	5	5	S	\$	S	s	5						s	S	S
Occupation and industry division	of workers	hours 1 (standard)	Mean 2	Median 2	Middle range ²	and under	130	140	150	160	180	200	220	240	260 -	280	300	320	340	360	380	400	420	440	460 -	480 and
		-				l .	140	150	160	160	200	220	240	260	280	300	320	340	360	380	400	420	440	460	480	ove
ALL WORKERS																										
COMPUTER SYSTEMS ANALYSTS		1	\$	\$	\$ \$																					
(BUSINESS)	1				317.00-398.00	_	-	-	-	-	1	6	11	24		101	84	148	163			143	93	34	23	1
MANUFACTURING	731				333.50-405.00	_	_	_	_		1	5	3 8	12	42 60	36 65	29 55	83	107	96	106	111	62	23	9	
NONMANUFACTURING	515 113				299.00-374.50 347.50-429.00		-	-	-	-	-	-	-	-	7	2	9	65	56 14	73 20	28 9	32 9	31 15	11 7	14 12	
COMPUTER SYSTEMS ANALYSTS																			_							
(BUSINESS), CLASS A					359.50-416.50		-	_	-	_	-	-	1	2	20	10	20	41	74	103	112	123	80	32	23	1
MANUFACTURING	418				373.00-419.00	-	_		-	_		-	1	2	20	9	19	14 27	52 22	60	94	97	61	22	9	
PUBLIC UTILITIES	241 42				421.50-465.00	-	-	-	-	-	-	-	-	-	-	_	-	-	2	43	18	2 6 4	27 11	10	14 12	
COMPUTER SYSTEMS ANALYSTS																										
(BUSINESS)+ CLASS B	493				297.50-358.00		_	_	_	_	1	1		11	56 21	73 20	52	98	83	63	22	20	5	2	_	
MANUFACTURING	244				317.50-361.50 292.60-351.50		_	_	-	_	1	1	1 5	7	35	53	20 32	62 36	53 30	35 28	12 10	14	1 4	1	_	
PUBLIC UTILITIES	60				327.50-389.00		-	-	-	-	_	_	-	-	7	2	6	4	8	16	7	5	4	1	_	
COMPUTER SYSTEMS ANALYSTS												_														
(BUSINESS) CLASS C	94 69				262.50-310.50 262.50-301.50	- 1	-	-	_	1,2,	_	5 5	2	11	26 21	18 15	12 8	7	2	3 1	_	- 2	-	_	-	
DMPUTER PROGRAMMERS (BUSINESS)	1+613	39.5	286.50	282.50	244.00-323.00	-	-	_	7	16	38		129			241		145	98	84	42	25	16	10	1	
MANUFACTURING					265.00-336.00	-	-	-	1	1	- 5	21	45	73	128	115	97	102	73	51	21	19	8	5	1	
PUBLIC UTILITIES	845 153				228.J0-299.00 299.00-371.50	1	_	-	6	15	33	129	84	131	115	126 16	65 20	43 21	25 15	33 26	21 12	6 5	8	5 5	_	
COMPUTER PROGRAMMERS (BUSINESS).																										
CLASS A	450				288.50-370.50		-	-	-	=	-	2	14	24	45	96	4 1	43	36	60	37	25	16	10	1	
MANUFACTURING	188				321.00-384.50		-	_	-	-	-	2	1	5	8	14	17	25	25	40	18	19	8	5	1	
NONMANUFACTURING	262				278.50-345.00			- 5	_	_			13	19	37	82	24	18	11	20 13	19	6	8	5	_	
PUBLIC UTILITIES	51	40.0	386.00	383.30	362.50-422.00	_	_		_	_							-	*	3	13	10	5	8	5	_	
CLASS B	716	30 5	586 53	287 50	255.50-322.00	_	_	_	6	_	9	57	51	90	102	107	106	100	61	24	3	_	_	_	_	
MANUFACTURING	[282.50-331.00		_	_	-	_	_	5	20	14	44	68	67	76	48	11	í	_	_	_	_	
NONAANUFACTURING	362				236.00-300.00		-	-	6	-	9	52	31	76	58	39	39	24	13	13	2	_	_	_	_	
PUBLIC UTILITIES	81				299.00-351.00		-	-	- :	-	-	1	1	7	3	11	16	16	11	13	2	-	-	-	-	
COMPUTER PROGRAMMERS (BUSINESS) +																										
NONMANUFACTURING	408 192				216.00-269.00		-	_	1:	16 15	29 24	9 1 7 7	64 40	61 7	94 20	34 5	15 2	2	1 1	_	_	_	_	-	_	
OMPUTER OPERATORS	1 . 397	39.5	203.00	196.50	175.30-222.50	18	36	55	65	250	354	255	125	94	48	23	40	16	11	_	7	_	_	_	_	
MANUFACTURING	638				172.50-217.50	1	5	21	41			122	75	39	22	5	_	2	2	_	1	_	_	_	_	
NOWMANUFACTURING					175.00-228.50 228.50-314.50		31 1	34	24	123	179	133	50 25	55 4	26 12	18 17	40 23	14	9	1	6	-	-	-	_	
COMPUTER OPERATORS: CLASS A					200.50-252.00		_	_		8	86	86	53	67	25	22	15	4	6	_	6	_	_	_	_	
MANUFACTURING	176				199.00-242.00	1.0	_	-	_	Š	40	47	37	28	11	5	-	2	-	-	-	_	_	_	_	-
NONMANUFACTURING	202				201.50-270.50	_	_	_	-	2	46	39	16	39	14	17	15	2	6	-	6	_	-	_	_	_
PUBLIC UTILITIES	38				270.50-293.50	-	-	-	-	-	-	1	2	4	6	16	1	2	6	-	-	-	-	-	-	-
										L																

Table A-2. Weekly earnings of professional and technical workers in Minneapolis—St. Paul, Minn.—Wis., January 1978—Continued

					y earnings ^l andard)	Numb	oer of	worke	rs re																	
Occupation and industry division	Number of	A verage weekly				120		140								280		320				400	420	440	460	41
occupation and industry division	workers	hours 1 (standard)	Mean ²	Median ²	Middle range ²	and	_	-	_	_	-	_	-	_	-	-	_	_	-	_	_	_	_	~	-	aı
						under 130	140	150	160	180	200	220	240	260	280	300	320	34 ú	360	380	400	4 20	440	460	480	ov
ALL WORKERS CONTINUED																										
OMPUTER OPERATORS - CONTINUED																										
COMPUTER OPERATORS CLASS 8 MANUFACTURING NONMANUFACTURING	655 275 380	39.5 37.0	230.50 211.50	195.50 196.00	\$ \$ 183.00-219.00 184.00-217.50 181.50-226.00	1	1	7 2 5	10 6 4	127 46 81	99 107	144 61 83	66 35 31	27 11 16	23 11 12	1 - 1	25 - 25	12	1 3	-	1	6.9	-		-	
PUBLIC UTILITIES	63	40.0	265.00	264.00	228.50-314.50	-	-	-	-	-	3	5	23	-	6	1	22	3	_	-	-	_	-	- 7	_	
COMPUTER OPERATORS, CLASS C MANUFACTURING NOMMANUFACTURING	331 187 144	40.0	172.50	169.50	150.00-179.50 158.00-183.50 139.00-167.50	17	24 4 20	37 19 18	55 35 20	115 75 40	62 36 26	14	6 3 3	-	-	-	-	-	1	-	-	-	-	-	-	
ERIPHERAL EQUIPMENT OPERATORS	55	40.0	181.50	189.00	164.50-198.03	5	3	4	2	3	26	7	4	1	-	-	~	-	-	-	-	-	-	-	-	
OMPUTER DATA LIBRARIANS	76 64				155.00-184.00 156.00-184.00	-	5	8 7	11	15 15	29 26	5	1	1	-	1	_	-	-	-	_	_	_	-	-	
RAFTERS MANUFACTURING NONMANUFACTURING PUBLIC UTILITIES	1+913 1+428 485 75	40.0	254.03 244.03	248.50	206.00-288.00 209.50-289.00 195.50-285.50 263.50-325.00	-		6	4	142 84 58 2	256 196 60	192 151 41	218 167 51 12	310 210 100	205 168 37 7	202 148 54 11	151 120 31 17	101 85 16	53 40 13	41 30 11 4	13 8 5 5	17 17 -	2 - 2 2	11(4)		
DRAFTERS, CLASS A	640 532 108	40.0	296.00 306.00	289.00 301.00	265.50-321.50 264.50-318.00 276.00-348.00 301.00-362.00	-			1.4.4.4			100	38 20 18	98 96 2	106 90 16	112 101 11 8	117 95 22 13	5 y 5 1 8 5	53 40 13	25 14 11	13 8 5	17 17 -	2 2 2	-	-	
DRAFTERS, CLASS B	608 409 199	40.0	242.00 237.00	240.00	220.00-260.00 218.50-254.00 240.00-285.50	-	-		1.1.1	2 - 2	47 39 8	100 75 25	119 105 14	136 111 75	61 45 16	74 31 43	9	10 2	-	-	-	Ę	-	19-	-	
DRAFTERS, CLASS C	465 312 153	40.0	194.00	192.00	178.50-207.00 186.00-206.00 169.50-215.00	-	-	6	4	125 73 52	179 133 46	86 74 12	32 24 8	26 3 23	6 1 5		1	-	-	-	-	-	-	-	-	
LECTRONICS TECHNICIANS	1 • 1 0 3 3 3 9	40.0 39.0	268.00 370.00	256.00 383.50	230.00-354.00 220.00-313.00 356.50-396.00			-	-	18	81 81	172	173 167 6	145 144 1	94 76 18	96 92 4	125 108 17	113 90 23	89 70 19	109 51 58	145 29 116	82 5 77		-	1	
PUBLIC UTILITIES	299				354.00-401.00	-	-	-	Ī	-	5	-	6	1	18	4	17	23	18	19	116	77	-	-	-	
ELECTRONICS TECHNICIANS, CLASS 8-	360				227.00-269.00	-	-	-	-	16	8		112	85	18	32	29	15	9	-	-	-	-	-	-	
EGISTERED INDUSTRIAL NURSES MANUFACTURING	118				236.50-278.50	-	-	-	-	-	-	12	21 16	17 16	4 O 3 4	18 15	6	1	-	3	-	_	-	-	-	

Table A-3. Average weekly earnings of office, professional, and technical workers, by sex, in Minneapolis—St. Paul, Minn.—Wis., January 1978

			erage ean ²)			Av.	erage ean ²)		3-3	Ave (me	rage 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 (standard)	Weekly earnings ¹ (standard)	Sex, 3 occupation, and industry division	Number of workers	Weekly hours 1 (standard)	Weel earnin (stand
			, , ,				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			(Fi-Duela)	(
OFFICE OCCUPATIONS - MEN			L .	OFFICE OCCUPATIONS - Womencontinued				OFFICE OCCUPATIONS - WOMENCONTINUED			
RDER CLERKS		40.0	239.00								
MANUFACTURING	54	1		TYPISTS - CONTINUED			\$	BOOKKEEPING-MACHINE OPERATORS - CONTINUED			
ORDER CLERKS. CLASS A	148		239.50	TYPISTS, CLASS B	991 228		141.00	BOOKKEEPING-MACHINE OPERATORS.			
				NONMANUFACTURING	763	39.5	141.50	CLASS A	99		
				PUBLIC UTILITIES	120		163-00	NONMANUFACTURING	91	39.5	17.
OFFICE OCCUPATIONS - WOMEN				MANUFACTURING	1,325		125.50	BOOKKEEPING-MACHINE OPERATORS:	168	38.5	1.0
			ŀ	MANUFACTURING NONMANUFACTURING	1,206		124.50		155		
NONMANUFACTURING	2,966		197.50 198.50	FILE CLERKS+ CLASS B	678	39.0	129.50	MACHINE BILLERS	295	39.0	19
PUBLIC UTILITIES	352	39.5	252.00	NONMANUFACTURING	643	39.0	128.50 215.00	NONMANUFACTURING	247	39.0	20
SECRETARIES. CLASS A	463		240.00		61			PAYROLL CLERKS	597	39.5	19
NONMANUFACTURING	286 71		299.00	FILE CLERKS. CLASS C	555 83		116.00 131.50	NANUFACTURING	229 368		
				NONMANUFACTURING	472		113.00		1		
SECRETARIES CLASS B	1+354 883	39.0	214.50 214.50	MESSENGERS	409	39.0	121.50	NONMANUFACTURING	2 • 222		
PUBLIC UNILITIES	106	40.0	271.00	MANUFACTURING	129 280		127.50 118.50				
SECRETARIES: CLASS C:				NONMANUFACTURING				KEY ENTRY OPERATORS, CLASS A: NONMANUFACTURING	562	39.5	16
NONMANUFACTURING	943		187.50	SWITCHBOARD OPERATORS	410		146.50	KEY ENTRY OPERATORS. CLASS B	1,255	39.5	15
	1.308		179.50	NONMANUFACTURING	344		142.50	MANUFACTURING	273	39.5	15
SECRETARIES CLASS D	604	40.0	182.50	SWITCHBOARD OPERATOR-RECEPTIONISTS-	871		155.50	NONMANUFACTURING	982		
PUBLIC UTILITIES	704		176.50 211.50	MANUFACTURINGNONMANUFACTURING	205 666		155.50 155.50				
				PUBLIC UTILITIES	72		204.00				
SECRETARIES, CLASS E: NONMANUFACTURING	116	39.5	188.00	ORDER CLERKS	589	40.0	168.00	OCCUPATIONS - MEN			
EWOGRAPHERS	1+340		167.50	MANUFACTURING	184 405		164.50	COMPUTER SYSTEMS ANALYSTS (BUSINESS)	979	39.5	34
NONAANUFACTURING	759		170.50					MANUFACTURING	569	39.5	36
STENOGRAPHERS. GENERAL	468	39.5	178.00	ORDER CLERKS: CLASS A	311 66		179.50 183.50	PUBLIC UTILITIES	410 95	39.5 40.0	
MANUFACTURING	182 286	39.5	155.50	NONHANUFACTURING	245	40.0	178.50	COMPUTER SYSTEMS ANALYSTS			
	200	3713	172.00	ORDER CLERKS+ CLASS B	278		155.50	(BUSINESS), CLASS A	541	39.5	
STENOGRAPHERS, SENIOR: NONMANUFACTURING	473	39.0	157.50	MANUFACTURING	118 160		153.50	NONHANUFACTURING	197	39.0 40.0	
ANSCRIBING-MACHINE TYPISTS	137	30.5	151.50	ACCOUNTING CLERKS	5 • 231	10 E	164.50				
MANUFACTURING	75	39.5	150.00	MANUFACTURING	1:506		165.00	(BUSINESS), CLASS B	372		
NONMANUFACTURING	62	39.5	154.00	NONMANUFACTURING	3.725	39.0	164.00	MANUFACTURING	180 192		
PISTS			148.50	ACCOUNTING CLERKS+ CLASS 4:		70 -		PUBLIC UTILITIES	46	40.0	
MANUFACTURING	471 1+474		147.00	MANUFACTURING	636	39.5	182.50	COMPUTER SYSTEMS ANALYSTS			
PUBLIC UTILITIES	223		194.00	ACCOUNTING CLERKS+ CLASS B MANUFACTURING	3 • 227 858		152.00 152.00	(BUSINESS), CLASS C	66	40.0	29
TYPISTS: CLASS A	948		156.00	NONMANUFACTURING	2:369			COMPUTER PROGRAMMERS (BUSINESS)			
NANUFACTURING	237 711		155.00	BOOKKEEPING-MACHINE OPERATORS	267	39.0	156.50	MANUFACTURING	607 648		
PUBLIC UTILITIES	103		229.50	NONMANUFACTURING	246		154.50	PUBLIC UTILITIES	118		

Table A-3. Average weekly earnings of office, professional, and technical workers, by sex, in Minneapolis—St. Paul, Minn.—Wis., January 1978—Continued

			rage an ²)				rage an ²)			Ave (me	rage an ²)
Sex, 3 occupation, and industry division	Number of workers	Weekly hours ((standard)	Weekly earnings? (standard)	Sex, 3 occupation, and industry division	Number of workers	We ekly hours (standard)	Weekly earnings ^l (standard)	Sex, 3 occupation, and industry division	Number of workers	Weekly hours (standard)	Weekly earnings1 (standard)
PROFESSIONAL AND TECHNICAL UCCUPATIONS - MENCONTINUED				PROFESSIONAL AND TECHNICAL OCCUPATIONS - MENCONTINUED				PROFESSIONAL AND TECHNICAL OCCUPATIONS - WOMENCONTINUED			
COMPUTER PROGRAMMERS (BUSINESS) - CONTINUED				DRAFTERS	1 + 228	40.0	257.00				
COMPUTER PROGRAMMERS (BUSINESS), CLASS A	384		\$33.00	NONMANUFACTURING	411 62	40.0	252.00 312.50		66	39.0	\$ 306.50
MANUFACTURING NONMANUFACTURING PUBLIC UTILITIES	165 219 45	39.0	356.00 315.50 386.00	DRAFTERS, CLASS A	582 478 104	40.0	297.50 296.00 306.50 333.00				275.50 269.00
COMPUTER PROGRAMMERS (BUSINESS).	541 277		288.00 305.00		545 347	40.0	241.50 235.50	COMPUTER PROGRAMMERS (BUSINESS),			248.50
MANUFACTURING	264	38.5	270.50 324.00	NONMANUFACTURING	198	90.0	252.00	NONMANUFACTURING	56 479	38.5	240.50
COMPUTER PRUGRAMMERS (BUSINESS), CLASS C NOMMANUFACTURING			239.00 214.50	MANUFACTURING	238 98	40.0	192.50 202.00	MANUFACTURING	258 221	40.0	185.50
COMPUTER OPERATORS	850	39.0	206.50	ELECTRONICS TECHNICIANS MANUFACTURING NONMANUFACTURING		40.0	291.50 269.00 371.50		251 140		194.00 184.00
NONMANUFACTURING	511	39.0	208.00	PUBLIC UTILITIES ELECTRONICS TECHNICIANS, CLASS B-	256 352	į	370.50	MANUFACTURING	131 65 66	40.0	168.50 172.00 165.00
NONMANUFACTURING		39.0	250.00 297.50	ELECTRONICS VECTOR OF ASS		,,,,,		COMPUTER DATA LIBRARIANS	65 56	38.5	174.00
COMPUTER OPERATORS, CLASS B MANUFACTURING	117	7 39.5	210.00 219.50 205.50	PROFESSIONAL AND TECHNICAL OCCUPATIONS - WOMEN				DRAFTERS:	74		197.50
COMPUTER OPERATORS. CLASS C		39.5		COMPUTER PROGRAMMERS (BUSINESS)	339		272.50 285.50	REGISTERED INDUSTRIAL NURSES		39.5	260.50
NONMANUFACTURING	74		150.00	NONMANUFACTURING	195	39.0	262.50 316.00]	

Table A-4. Hourly earnings of maintenance, toolroom, and powerplant workers in Minneapolis—St. Paul, Minn.—Wis., January 1978

			Hourly e	amings 4	Num	nber of	work	ers re	ceivin	g strai	ght -t	ime ho	urly e	arning	gs of	1											
Occupation and industry division	Number of workers	Mean 2	Median ²	Middle range 2	\$ 3.70 and	\$ 3.80	\$ 4.00			\$ 4.60		5.00						7.40				9.00 -	\$ 9.40	7.8010	-201	0.6011	-00
					under 3.80	F .	4.20	4.40	4.60	4.80	5.00	5.40	5.80	6.20	6.60	7.00	7.40	7.80	8.20	8.60	9.00	9.40	9.801	2010	.601	1.0011	.4(
ALL WORKERS																											
MAINTENANCE CARPENTERS	147 76 71 39	7.81 7.48 8.16 7.09	\$ 7.39 7.39 7.25 6.82	7.01- 7.92 7.16- 7.68 6.82- 9.88 6.80- 7.12			- - -	- - -	-	- - -	- - -	- - - -	-	5	-	30 10 20 20	46 26 20 15	22 21 1 1	8 7 1	1 -	5 2 3 1	2		26 2 24 1	2 -	11.11	
MAINTENANCE ELECTRICIANS MANUFACTURING	439 364	8.67	8.78 8.11	7.85- 9.51 7.80- 8.80		-	-	-	-	_	-	-	-	_	1	16 16	48	26 26	97 92	29 26	75 75	1	38 36	51	4	50 42	3
MAINTENANCE PAINTERS	90 50	8.14 7.87	8.16 7.68	7.39- 9.13 7.41- 8.32		-	-	-	_	-	-	-	-	-	1	6	16	20 19	2	19 16	-	17	5	3	1	1	-
MAINTENANCE MACHINISTS	527 519	8.11	8.01	7.90- 8.42 7.90- 8.42		-	-	-	_	_	_	-	-	1	9	10	9	74 74	181 181	188 188	32 32	14 14	3	-	5	1	-
MAINTENANCE MECHANICS (MACHINERY) - MANUFACTURING NONMANUFACTURING PUBLIC UTILITIES	916 808 138 48	7.38 7.36 7.51 8.68	7.12 7.07 7.47 8.45	6.72- 7.78 5.91- 8.45	3 -	-	-	-	-	- - -	-	-	-	93 62 31	58 58	231 224 7	121 105 16	189 176 13	28 23 5	99 79 20 20	61 60 1	3	18 18	15 15 15	1111	1111	
MAINTENANCE MECHANICS (MOTOR VEHICLES)	1+195 64 1+131 1+044	8.18 7.52 8.22 8.36	8 - 7 4 7 - 37 8 - 87 8 - 87	6.68- 7.91 8.50- 8.87	1 - 7 15	11.5	1	1111	1.1.1.7	1 1 7 1	15	110 - 110 110	13.113	5	14	12 9 3	11 10 1	73 6 67 65	56 12 44	159 159 159	696 8 688 685	5	3 3 3	21 21 21	1111	11111	
MAINTENANCE PIPEFITTERS	121 114	8.77	8.75			-	-	-	-	-	-		-	-	-	5	5	3	1	1	70 70	30 30	-	2	4	12,	9
MILLWRIGHTS	166 159	8.02 8.00	7.80 7.80	7.68- 8.32 7.68- 8.28		-	-	-	-	-	-	-	-	-	1	2	6	59 59	53 53	24 17		2 5 2 3	1	-	1	=	-
MAINTENANCE TRADES HELPERS: MANUFACTURING	78	6.37	6.66	6.31- 6.66		-	-	-	-	2	-	-	16	-	12	48	-	-	-	-	-	-	-	-	-	-	
MACHINE-TOOL OPERATORS (TOOLROOM) - MANUFACTURING	66 66	7.25 7.25	7.43 7.43			-	-	-	-	Ī	-	-	-	-	q	24 24	4	22 22	12 12	===	- 3	-	Ē	1.	-	-	-
TOOL AND DIE MAKERS	768 767	8.24	8.33 8.33	7.93- 8.47 7.93- 8.47		-	-	-	_	_	-	-	_	_	-	36 36	1 0 10	43 43	165 165	415 415	51 51	26 26	20 20	2	2	-	
STATIONARY ENGINEERS	544 138 406	7.86 8.13 7.78	8.21 8.27 8.15	7.77- 8.50) -	7	7-1-1	1	1	Ī	24 - 24	15 - 15	3 - 3	1 - 1	1 - 1	24 5 19	59 25 34	26 6 20	118 29 89	235 43 192	20 20 -	12 10 2	-	6	1.1	Ė	
BOILER TENDERS	315 226	7.27 7.22	7.31 7.31			-	-	-	-	-	-	-	12 12	53 28	19 19	26 24	85 75	12 12	9	79 27	17 17	3 3	-	-	-	-	

Table A-5. Hourly earnings of material movement and custodial workers in Minneapolis—St. Paul, Minn.—Wis., January 1978

			Hourly ea	mings *		_			eiving																		
Occupation and industry division	Number				2.60				s 3.40					.40				5.40						7.80	\$ 8.20	8.60	\$ 9.
	workers	Mean 2	Median ²	Middle range 2	and	~	-	-	-	-	-	-	_	-	-	-	-	-	-	-	-	-	-	-	-	-	
						3.00	3.20	3.40	3.60	3.80	4.00	4.20	4.40	1.60	4.80	5.00	5.40	5.80	6.20	6.60	7-00	7-40	7-80	8.20	8.60	9.00	9.
ALL WORKERS																											
		\$	\$	\$ \$											_												
MANUFACTURING	1,220		8.50	8.29- 8.50 6.47- 8.85		-	-	_	-	_	3	30	17	30	7	60	26 23	59 43	120	254 250	198 39	118	358 25	208 133	3444 64		
NONMANUFACTURING	4.784	8.18	8.50	8.50- 8.50	-	-	-	-	-	-	3	30	17	30	7	60	3	16	90			117			3380		
PUBLIC UTILITIES	3+372	8.48	8.50	8.50-8.50	-	-	-	-	-	-	-	-	_	-	-	-	-	-	-	4	6	19	40	-	3303	-	
TRUCKORIVERS. LIGHT TRUCK	373	7.19	6.98	5.87- 8.90	-	_	-	_	-	-	-	-	-	_	-	_	19	24	94	13	70	_	24	2	_	127	
NONMANUFACTURING	202	6-46	6.16	5-87- 6.98	-	-	-	-	-	-	-	-	-	-	-	-	-	16	90	-	70	-	24	2	-	-	
TRUCKDRIVERS. MEDIUM TRUCK	1 + 385	8.02	8.50	7.87- 8.50	_	_	-	_	_	_	3	30	_	_	7	_	7	16	12	89	52	15	102	72	953	27	
MANUFACTURING	186	6.84	6.40	6.40- 7.47	-	-	-	-	-	-	-	-	-	-	-	-	4	16	12	89	10	1	10	18	-	26	
TRUCKDRIVERS. HEAVY TRUCK	498	8.16	8.50	8.50- 8.70	-	-	-	-	-	-	-	-	17	-	-	-	-	19	-	9	24	5	7	5	230	182	
TRUCKORIVERS. TRACTOR-TRAILER	2,483	8.21	8.50	8.50- 8.60	_	_	-	_	_	_	-	_	-	30	_	60	_	_	_	139	42	98	46	116	1222	730	
MANUFACTURING	534	8.00	8.81	6.47- 8.85	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	139	6	-	10	104	4	271	
NONMANUFACTURING	1,949	8.26	8.50	8.50- 8.59	-	-	1	_	-	_	0	-	-	30	_	60	-	-	-	-	36	90	36	12	1218	459	
IPPERS	429			5.50- 7.51	-	-	-	-	4	-	-	-	18	-	-	-	32	72	29	10	33		160	42	14	-	
MANUFACTURING	196		5.50 7.51		-	-	-	-	-	-	- 5	-	18	-	_	_	31	72	10	10	18 15	9	156	18 24	14	_	
NORTH OF ACTORING			,,,,,	1.52					•												13		130	24	1.4		
ECEIVERS	563 159		6.69	5.10- 7.53 5.36- 7.60		5	10	9	28 8	5	4	1	9	5	13	3	66	37 19	37	47 R	70	15	143	30 9	26	-	
MANUFACTURING	404		6.69		-	5	10	9	20	5	4	1	-	1	4	1	56	19	16 21	39	23 47	6	33 110	21	26	_	
			1																								
MANUFACTURING	369 286				_	-	-		_	_	4	_	_	_	9 9	19 19	50 25	71 71	26 26		133	2	2	_	26	2	
		-															-										
MANUFACTURING	1,610				-	-	-	57 57	3	3	18	19 19	41 38	22 19	63 63	74 45	23 19	59 54	40	43 22	162	138	392 16	168	129	156	
NONMANUFACTURING				7.27- 8.12	-	_	-	-	3	3	18	-	3	3	-	29	4	5	29		117		376	168		156	
PUBLIC UTILITIES	281	7.64		7.17- 8.12		-	_	~	-	_	-	-	-	-	-	-	4	-	12	-	42	47	8	168	-	-	
RDER FILLERS	3+313	6.43	6.66	5.43- 7.50	10	1	69	52	8.2	25	63	18	96	96	114	69	128	12	34	562	575	60	1000	105	64	78	
MANUFACTURING	632					-	9	9	45	9	8	18	71	17	34	-	99	12	32	63	85	60	52	-	_	-	
NONMANUFACTURING	2+681	6.63	6.66	6.58- 7.50	1	1	60	43	37	16	55	-	25	79	80	69	29	-	2	499	490	-	948	105	64	78	
HIPPING PACKERS	1,580	5.75	5.69	4.65- 6.66	6	-	3	8	_	41	15	60	67	49	185	95	176	155	184	25	155	135	1 95	_	13	13	
MANUFACTURING	730					-	0-	-	-		9	28	_	30	-	64	115		183	22	2	135	8	-	-	-	
NONHANUFACTURING	850	5.71	5.30	4.60- 7.33	6	-	3	8	-	41	6	32	67	19	185	31	61	21	1	3	153	-	187	-	13	13	
ATERIAL HANDLING LABORERS	5+646				1	.4	124	85	47	42	244	37	1 36	45	77	60	224					213				-	
MANUFACTURING	3+953		6.35 8.50		42	4	124	19	47	42	244	20 17	134	19 26	64 13	18 42	175 49		161 179	110	392		111	59		_	
PUBLIC UTILITIES				8.50- 8.50		_	+	-	-	-	-	-	-	-	-	-	-	-	-	5	13	3	342		2250 2236	_	
DRKLIFT OPERATORS	1,711		4 80	6.01- 7.96	_	_				_	_			_	27		110	70	0.0			0.5	0.7.0	2			
MANUFACTURING	1,245		6.90		_	_		_	_	_		9	-	_	27	-	110		29∠ 292		223 197	85 85	23B 79	74 26	124	85	
NONMANUFACTURING	466	7.96	8.15	7.58- 8.59		-	-	-	1.0	-	-	-	-			-	-	-	-	35	26	-	159	48		82	
DARTIC MITTILLE	62	8.39	8.50	8.50~ 8.60	_	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	-	-	-	29	27	
OWER-TRUCK OPERATORS																											
(OTHER THAN FORKLIFT)	180			5.97- 7.21	30	-	-	-	-	-	-	-	8	-	_	-	-	4	36	19	17	42	18	3	1	2	
MANUFACTURING	144	6.67	6.92	6.04- 7.21	-	-	-	-	-	-	-	-	8	~	-	-	_	4	36	19	11	42	18	3	1	2	

Table A-5. Hourly earnings of material movement and custodial workers in Minneapolis—St. Paul, Minn.—Wis., January 1978—Continued

			Hourly ea	mings 4	Numl	ber of	worke	rs re	eiving	strai	ight-ti	me ho	urly e	arning	gs of-												
Occupation and industry division	Number of workers	Mean ²	Median ²	Middle range ²	\$ 2.60 and under	0.00	\$ 3.00 -	\$ 3.20 -	\$ 3,40 -	\$ 3.60 ~	3.80	\$ 4.00	4.20 -	\$ 4.40 -	\$ 4.60 -	\$ 4.80 -	\$ 5.00	5.49 -	\$ 5.80	\$ 6.20 -	\$ 6.60 -	5 7.00	\$ 7.40 -	\$ 7.80	\$ 8 • 20 -	\$ 8+60 -	9 • 0 0 -
			_		2.80	3.00	3.20	3.40	3.60	3.80	4.00	4,20	4,40	4,60	4.80	5.00	5.40	5.80	6.20	6.60	7.00	7,40	7.80	8.20	B.60	9,00	9,40
ALL WORKERS Continued		\$	\$	\$ \$																							
GUARDS	2,576			2.70- 4.40		325	118	83	45	15	21	87	67	147	43	21	102	75	82	79	68	17	2	25	4	-	+
MANUFACTURING	380	5.80		5.30-6.36		-	-	5	5	8	1	6	1	15 132	6 37	14	83 19	61 14	23 59	78	67	7 10	2	5	_	-	-
NONEANUFACTURING	2+196			2.65- 3.30 6.90- 7.84		325	118	18	40	-	50	8 1 1	66	1 32	-	14	1	-	9	-	1	10	-	20	4	_	
																						-			-		
GUARDS+ CLASS A		4.54		4.10- 4.91		-	64	14	-	-	20	62	62	129	2	7	15	13	50	27	-	-	-	5	4	-	-
NONMANUFACTURING	443	4.40	4.40	4.10- 4.40	-	_	64	14	-	-	20	62	62	129	2		15	13	50	1	_	_	-	-	4	-	-
GUARDS. CLASS B	1.728	3.54	2.80	2.72- 3.50	862	310	29	58	43	12	1	9	2	16	38	12	84	61	32	52	68	17	2	20	_	_	_
MANUFACTURING	349	5.73		5.30- 6.36		-	-	5	5	8	1	6	1	15	6	7	83	61	23	52	67	7	2	-	-	-	-
NONMANUFACTURING	1,379			2.65- 2.85		310	29	53	38	4	-	3	1	1	32	5	1	=	9	-	1	10	_	20	-	-	-
PUBLIC UTILITIES	42	7.13	7.35	6.14- 7.84	~	-	_	-	_	-	-	1	-	_	_	-	1	-	9	-	1	10	-	20	-	-	-
JANITORS. PORTERS. AND CLEANERS	7.552	4.26	4.54	3.37- 4.66	502	348	522	809	636	237	100	324	16 0	1680	432	192	525	274	286	343	21	144	2	2	13	_	_
MANUFACTURING	1,677	5.31	5.10	4.84- 6.07	-	16	30	43	21	-	5	91	14	37		128		223	198	248	_	77	2	2	1	-	_
NONMANUFACTURING	5+875	3.96	3.75	3.25- 4.56	502	332	492	766	615	237	95	233	146	1643	304	64	112	51	88	95	21	67	-	_	12	-	-
PUBLIC UTILITIES	271	6.12	6.27	5.80- 6.47	-	-	6	-	-	4	3	2	3	-	-	-	17	19	74	95	21	15	-	-	12	-	-
																- 1											

Table A-6. Average hourly earnings of maintenance, toolroom, powerplant, material movement, and custodial workers, by sex, in Minneapolis—St. Paul, Minn.—Wis., January 1978

Sex, ³ occupation, and industry division	Number of workers	Average (mean ²) hourly earnings ⁴	Sex, 3 occupation, and industry division	Number of workers	Average (mean ²) hourly earnings ⁴	Sex, 3 occupation, and industry division	Number of workers	Average (mean ²) hourly earnings
MAINTENANCE + TOOLROOM + AND POWERPLANT OCCUPATIONS - MEN			MATERIAL MOVEMENT AND CUSTODIAL OCCUPATIONS - MEN			MATERIAL HOVEMENT AND CUSTODIAL OCCUPATIONS - MENCONTINUED		¢
MAINTENANCE CARPENTERS: MANUFACTURING	76		TRUCKDRIVERS	5,983 1,220 4,763	7.87	FURKLIFT OPERATORS	1,701 1,241 460	6.68
MAINTENANCE ELECTRICIANS	434 364		PUBLIC UTILITIES	3,351		POWER-TRUCK OPERATORS		""
MAINTENANCE PAINTERS	87	8.17	TRUCKORIVERS+ LIGHT TRUCK NONMANUFACTURING	373 202		MANUFACTURING	150 144	
MAINTENANCE MACHINISTS	525 517		TRUCKORIVERS+ MEDIUM TRUCK	1,377 186	1	NONMANUFACTURING	2:291 2:011	
MAINTENANCE MECHANICS (MACHINERY) -	912 808		TRUCKORIVERS+ HEAVY TRUCK	498	8.16	GUARDS CLASS A	454 423	
NONMANUFACTURING	104	7.51	TRUCKDRIVERS. TRACTOR-TRAILER	2 • 480 534		GUARDS: CLASS 8	1,479	
MAINTENANCE MECHANICS (MOTOR VEHICLES)	1 • 1 9 5	0 14	NONMANUFACTURING	1,946		NONMANUFACTURING	1,230	1
MANUFACTURING	64	7.52		188	5.93		5,390 1,353 4,037	5.21
PUBLIC UTILITIES	1.044		RECEIVERS	482				
MAINTENANCE PIPEFITTERS MANUFACTURING	120			143 339		MATERIAL MOVEMENT AND CUSTODIAL		
MILLWRIGHTS	166 159		SHIPPERS AND RECEIVERS	327 244				
MAINTENANCE TRADES HELPERS:			WAREHOUSEMEN	1,538	6.92	RECEIVERS	81	
MANUFACTURING MACHINE-TOOL OPERATORS (TOOLROOM) -	76		NONMANUFACTURING	405 1•133		ORDER FILLERS	726 243	4.46
MANUFACTURING	66		ORDER FILLERS	2 • 587 389		NONMANUFACTURING	483	
TOOL AND DIE MAKERS	768 767		NONMANUFACTURING	2,198	7.07	MANUFACTURING	265	
STATIONARY ENGINEERS	539 138			895 465 430	5.90		165	2.97
NONMANUFACTURING	401		MATERIAL HANDLING LABORERS	5+389		JANITORS, PORTERS, AND CLEANERS		1
MANUFACTURING	315 226	1	MANUFACTURING	1+664 3+725 2+244	6.30			

Table A-7. Percent increases in average hourly earnings, adjusted for employment shifts, for selected occupational groups in Minneapolis—St. Paul, Minn.—Wis., for selected periods

Industry and occupational group 5	January 1972	January 1973	January 1974	January 1975	January 1976	January 1977
	to	to	to	to	to	to
	January 1973	January 1974	January 1975	January 1976	January 1977	January 1978
All industries: Office clerical	5.1	6.2	8.6	7.7	7.9	8.0
	(6)	(6)	8.4	6.5	5.5	7.3
	5.9	5.6	7.8	9.9	8.2	6.8
	6.8	6.4	9.2	8.1	8.7	8.2
	6.8	6.1	9.3	7.7	8.9	8.1
Manufacturing: Office clerical Electronic data processing Industrial nurses Skilled maintenance trades Unskilled plant workers	4.2	5.4	7.7	7.9	8.1	7.1
	(6)	(6)	6.9	5.0	5.8	6.5
	5.4	6.4	6.5	9.8	9.0	6.3
	6.4	6.1	9.0	8.9	8.8	8.1
	6.3	6.6	9.3	10.1	8.3	9.5
Nonmanufacturing: Office clerical Electronic data processing Industrial nurses Unskilled plant workers	5.5	6.7	9.0	7.6	7.7	8.4
	(6)	(⁶)	10.2	7.8	5.0	8.1
	(6)	(⁶)	(⁶)	(⁶)	(°)	(6)
	7.1	5.8	9.2	6.7	9.2	7.5

A revised description for computer operators is being introduced in this area in 1978. The revised description is not considered equivalent to the previous description. Therefore, the earnings of computer operators are not used in computing percent increases for the electronic data processing group.

Table A-8. Weekly earnings of office workers—large establishments in Minneapolis—St. Paul, Minn.—Wis., January 1978

					y earnings ¹ andard)	Num				eiving					-	-										
Occupation and industry division	Number of workers	Average weekly hours [[] (standard)	Me an ²	Median 2	Middle range ²	95 and under													220						34 0	\$ 36
						100	110	120	130	140	150	160	170	180	190	200	210	220	240	260	280	300	320	340	360	38
ALL WORKERS																										
			\$	\$	\$ \$						_							75.0		270	170			0.7	18	
MANUFACTURING	3,956 2,785				178.50-220.00			-	5	20	63 36	184 104		521 366	508 402		445 358	266	489 329	232 171	130 70	59 26	33 7	27	18	
NONMANUFACTURING	1,171				173.50-218.50			_	5	6 14	27			155		121	87	92	160	61	60	33	26	24	17	
PUBLIC UTILITIES	239				228.00-298.50		-	-	_	-	-	3	3	3	5	6	4	17	49	16	48	27	23	19	15	
SECRETAKIES. CLASS A	308				230.00-279.00		-	-	-	-	-	3	3	6	6	9	8	18	50	75	56	30	10	17	14	
MANUFACTURING	185				241.50-271.50		_	_	_	_	_	3	3	- 6	- 6	3	4	10	28 22	70 5	44 12	22 8	2 8	2 15	14	
NONMANUFACTURING	123 55				214.00-315.50 266.00-344.00		-	_	-	-	_	1	3	-	-	-	-	1	6	2	6	6	5	10	14	
SECRETARIES, CLASS B	825				201.50-237.00		-	-	_	3	2	14	12	58	41	64	99	124	235	103	28	16	13	9	4	
MANUFACTURING	524				209.50-234.50		-	-5	-	_	-	14	1	5	26	34 30	78	107	195	70	9	1	-	_	1	
NONMANUFACTURING	301 69				178.50-244.50 262.50-312.00		_	-	-	-	-	14	11	56	15	-	21	17 2	40	33 9	19 18	15 13	13 13	9	1	
SECRETARIES, CLASS C					179.50-205.50		_	-	-	_	13	37		274	301	331		134	119	19	10	7	2	-	-	
NONMANUFACTURING	1+316 30a				179.50-202.50 174.00-226.50		_	_	-	_	5 8	1 4 23	92 34	247 27	267 34	299 32	220 31	104 30	61 58	3 16	4	7	2	-	-	
SECRETARIES, CLASS D	652	40.0	185.00	179.50	163.50-198.50	_	_	_	1	15	35	86	87	111	87	78	39	30	37	17	25	2	2	_	_	
MANUFACTURING	398				161.50-195.00		-	-	_	- 6	24	57	68	66	59	51	26	14	7	12	46	2	2	-	-	
NONMANUFACTURING	254	39.5	192.00	185.50	167.00-218.00	-	-	-	1	9	11	29	19	45	28	27	13	16	30	5	21	-	-	-	-	
PUBLIC UTILITIES	55	40.0	231.50	220.50	216.50-268.50	-	-	-	-	-	-	2	-	3	2	4	2	13	6	2	21	-	-	-	-	
SECRETARIES+ CLASS E	221	39.5	172.50	168.50	159.30-180.00	-	-	_	4	2	12	4.2	55	49	25	16	6	2	4	1	1	1	1	-	-	
MANUFACTURING	157				159.50-179.00		-	-	-	-	7	33	39	39	22	8	5	2	4	1	-	-	-	-	-	
NONMANUFACTURING	64	39.5	172.50	168.00	157.00-181.50	-	-	_	4	2	5	9	16	10	3	8	4	-	-	-	1	1	1	_	_	
TENOGRAPHERS	1.049				149.50-184.00		-	8	21	74				147	70	25	6	10		55	18	92	12	2	1	
MANUFACTURING	689				149.50-174.50		-	5	7	43		1 37		129	65	22	4	2	2	7	2		_	_	-	
NONMANUFACTURING	360 216				153.00-284.50 240.00-289.00		_	3	14	31 2	39 6	29 4	26 2	18 5	5 4	3 1	2	8	11	48 48	16 16	92 92	12 12	2	1	
STENOGRAPHERS. GENERAL	417				144.00-240.03		_	а	18	54	71	48	19	25	10	10	4	8	9	54	15	56	8	-	_	
MANUFACTURING	180				140.00-163.00		-	5	ц	35	52	34	12	14	5	8	4	-	-	7	_	_	-	-	-	
PUBLIC UTILITIES	237 167				153.00-281.50 240.30-286.00		-	3	1 4	19 2	19	14	7 2	11 5	5 4	1	_	8		47 47	15 15	56 56	8	-	_	
STENOGRAPHERS, SENIOR	632	39.5	174.50	165.50	156.50-177.00	_	_	_	3	20	89	118	150	122	60	15	2	2	4	1	3	36	4	2	1	
MANUFACTURING	509				157.50-176.00		_	-	3	8	69	103	131	115	60	14	-	2	2	-	2	-	-	-	-	
NONMANUFACTURING	123	39.5	208.00	167.00	149.50-289.00	-	-	-	-	12	20	15	19	7	-	1	2	-	2	1	1	36	4	2	1	
RANSCRIBING-MACHINE TYPISTS	84	39.0	156.00	151.00	135.00-169.50	-	-	1	5	23	12	12	10	6	9	2	1	2	-	-	-	-	1	-	-	
PISTS	947				129.50-157.50		7	65	166	253	158	84	58	19	17	3	8	17	38	47	4	3	-	-	-	
MANUFACTURING	370 577				127.50-152.00		5 2	20 45	80 86	99 154	62 96	37 47	20 38	1 1 8	3 14	1 2	8	16	38	31 16	4	3	_	-	-	
TYPISTS, CLASS A	447	39.5	160.50	145.00	134.50-172.50	-	_	4	70	99	90	38	33	16	7	2	4	15	36	32	1	-	_	_	_	
MANUFACTURING	219				131.00-159.00		-	3	43	57	41	22	11	9	-	1	-	1		31	-	-	_	-	-	
NONMANUFACTURING	228	39.5	165.00	149.50	138.00-190.00	I -	-	1	27	42	49	16	22	7	7	1	4	14	36	1	1	_	_	-	-	

Table A-8. Weekly earnings of office workers—large establishments in Minneapolis—St. Paul, Minn.—Wis., January 1978—Continued

					y earnings t andard)	Num	per of				strai			ekly ea		s of—										
Occupation and industry division	Number	A verage weekly				95	100		\$ 120		\$ 140				\$ 180	\$ 190		\$ 210	1 -		\$ 260			\$ 320	s 340	5 36
occupation and industry arrays	workers	(standard)	Mean 2	Median 2	Middle range 2	and	_	_	_	_	_	_	_	_	_	_	-	_	_	_	_	_	_	_	_	_
						under 100	110	120	170	140	150	140	170	100	100	200	210	220	24.0	260	280	300	320	340	340	3.0
S. (Date)						100	110	120	150	140	130	100	170	180	170	200		220	240	200	200					
CONTINUED																										
TYPISTS - CONTINUED																										
TYPISTS, CLASS B	494 145	39.0	135.50	133.50	\$ 125.00-148.00 124.50-143.00	-	7 5	61	33	154	68 21	4 4 13	25 9	3 2	10 3	1	-	2	2 - 2	15	3	3	-	-	-	
NONMANUFACTURING	349		1		125.50-148.00		2	44	59	112	47	31	16	1		1	4	2	_	15		, .				
MANUFACTURING	392 70				117.00-153.00		32	105 8	75 20	50 11	28 6	13	12 6	11	12	5 2	_	_	15	1	13	15	4	1	_	
NONRANUFACTURING	322	39.0	149.00	125.50	117.00-144.00	-	32	97	55	39	22	6	6	7	6	3	-	-	15	1	13	15	4	1	+	
NONMANUFACTURING	63 56				165.00-287.50 165.50-289.50		1	_	1	4	5 4	1	7	7 7	1	5 3	_	÷	2	-	12 12	13 13	3 3	1		
FILE CLERKS. CLASS B	178				115.00-152.50		24	57	31	11	8	9	5	4	11	-	-	-	13	1	1	2	1	=	-	
PUBLIC UTILITIES	140 30				111.50-133.00 141.50-237.00		24	55	21	7 3	5 2	2 1	2	_	6	-	-	-	13	1	1	2	1	-	-	
FILE CLERKS CLASS C	150 126				117.50-133.50 117.50-133.50		7	4 8 4 2	42 33	35 28	15 13	3	_	-	-	_	_	-	-	-	_	_	-	-	_	
MESSENGERS	316				110.30-142.00		78	77	31	46	20	17	12	1	_	1	1	2	-	15	9	6	-	-	-	
MANUFACTURING	147 169				119.00-141.50		14	33 44	25 6	36 10	15 5	15 2	8	1	_	1	1	2	_	15	9	6	-	-	-	
PUBLIC UTILITIES	39				251.50-269.00		-	-	-	2	1	2	1	_	-	1	~	2	-	15	9	6	-	7	-	
SWITCHBOARD OPERATORS	170				138.50-179.50		1	2	15	23	32	15	13	24	12	7	2	2	1	3	11	3	-	-	-	
NONMANUFACTURING	59 111				145.50-178.50 134.50-185.50		1	2	15	8 15	14 18	10 5	5 8	10 14	11	7	2	2	1 -	3	11	3	-	1 -1	_	
SWITCHBOARD OPERATOR-RECEPTIONISTS-	83	39.5	157.00	160.00	144.00-163.50	-	-	-	7	12	14	8	29	3	6	2	-	-	1	1	-	-	-	-	-	
RDER CLERKS	183				126.50-189.00		14	14	26	24	7	9	15	9	30	2	11	6	5	9	1	-	1	-	-	
NONMANUFACTURING	72 111				163.50-217.00 118.50-181.50		14	14	2 24	5 19	4 3	6 3	12	6	2 28	2	11	-	5	-	1	_	1	1		
ORDER CLERKS. CLASS A	58				163.50-216.50		-	-	_	-	2	9	13	7	2	-	7	6	5	6	_	_	1	-	_	
ORDER CLERKS+ CLASS B	125 102				121.00-189.00 117.50-186.50		14	14 14	26 24	24 19	5	-	2	2	28 28	2	4	Ē	_	3	1 -	Đ.	-	_	-	
ACCOUNTING CLERKS					141.50-213.50		25	129	223	381	323	236	297	263	246	166	115	133	160	169	28	153	182	15	5	
MANUFACTURING	932	39.5	169.50	165.50	147.50-186.00	-	14	22	60	84	101	115	122	116	127	49	39	19	20	23	2	4	9	6		
PUBLIC UTILITIES	2+318 963				140.30-228.50 198.50-295.00		11	107	163	297 28	222 12	121	175 54	147 51	47	117 45	76 24	114 84	140	132		149 149		9	5 5	
ACCOUNTING CLERKS. CLASS A	1 + 4 1 1	39.5	216.00	198.50	168.00-279.00	_	_	_	5	47	99	110	111		112	90	50	94		119		147		15	5	
MANUFACTURING	426				160.50-195.50		-	-	2	8	44	52	67	57	59	39 51	31 19	19 75	19 34	10	2	143	173	6	- 5	
PUBLIC UTILITIES	985 616				175.00-294.50 225.00-302.50		-	_	-	39	55	58 7	44	88 23	53 20	29	5	62	21	98	20		173	9	5	
ACCOUNTING CLERKS. CLASS B					132.50-182.00		25			334	220		184	116	132	76	65	39	107	50	-	6	2	-	-	
NONHANUFACTURING	1 - 3 3 3				136.00-179.00		14	107	58	76 258	53 167	61	53 131	57 59	66	10	8 57	39	1.06	13 37	_	-	2	_	_	
PUBLIC UTILITIES	1+333				132.00-185.00		11	107	160	258	167 12		54	28	66 27	66 16	19	22	106 97	34	-	6	_	-		

Table A-8. Weekly earnings of office workers—large establishments in Minneapolis—St. Paul, Minn.—Wis., January 1978—Continued

					y earnings ¹ andard)	Numb	er of	worke:	rs rec	eiving	strai	ght-tir	ne we	ekly ea	rning	s of-										
Occupation and industry division	Number of	Average weekly hours 1				\$ 95	100	110	1 20	130	140	\$ 150	160	\$ \$ 170	180	190	200	21 ù	220	240	260	280	\$ 300	\$ 320	5 340	s 360
	worken	(standard)	Mean 2	Median 2	Middle range 2	and under	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
						100	110	120	130	140	150	160	170	180	190	200	210	220	240	260	280	300	320	340	360	380
ALL WORKERS CONTINUED				į į																						
PAYROLL CLERKS	307	40-0	192.00	\$ 175.50	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	_	_	4	12	32	22	28	40	24	12	27	1 6	16	23	1.0	3	12	19		1	_
MANUFACTURING	106				159.50-211.50		_	_	2	8	- 8	1.0	6	15	7	13	9	5	6	5	2	7	1	2	_	_
NONMANUFACTURING	201				149.50-220.50		_	4	10	24	14	18	34	9	5	14	7	11	17	5	1	5	18	4	1	_
PUBLIC UTILITIES	52				218.00-309.00		-	-	-	-	-	-	-	2	1	6	1	8	4	1	1	5	18	4	1	-
KEY ENTRY OPERATORS	1+336	39.5	165-50	157.00	142.50-175.50	-	7	27	103	155	214	224	187	131	71	62	22	34	6	1 4	61	15	3	_	-	-
MANUFACTURING	679				147.00-169.50		2	3	21	70	132	151	137	84	31	25	8	-	1	8	2	4	-	-	-	-
NONMANUFACTURING	657				138.00-190.00		5	24	82	ช5	82	73	50	47	40	37	14	34	5	6	59	11	3	-	-	
PUBLIC UTILITIES	150	40.0	237.50	257.00	206.00-273.00	-	-	-	-	5	3	_	7	6	9	5	5	26	5	6	59	11	3	-		-
KEY ENTRY OPERATORS. CLASS A	641				149.50-180.00		-	-	11	74	133	148	147	118	57	41	11	27	2	٥	59	4	3	-	-	-
MANUFACTURING	474				149.00-171.50		-	-	2	40	101	95	109	77	27	13	3	-	1	6	-	-	-	-	-	-
NONMANUFACTURING	367				152.00-216.50		-	-	9	34	32	53	38	41	30	28	8	27	1	-	59	4	3	_	-	-
PUBLIC UTILITIES	105	40.U	251.00	273.00	218.00-273.00	-	-	-	-	-	-	+	-	2	6	3	2	25	1		59	4	3	-	-	-
KEY ENTRY OPERATORS, CLASS B	483				129.00-162.50		7	27	92	81	81	68	40	11	14	19	11	7	4	8	2	11	-	-	-	-
MANUFACTURING	193				137.00-165.00		2	3	19	30	31	4.8	28	5	4	10	5	-	-	2	2	4	~	-	-	-
NONHANUFACTURING	290				127.50-156.50		5	24	73	51	50	20	12	6	10	9	6	7	4	6	-	7	-	-	-	~
PUBLIC UTILITIES	45	40.0	206.00	191.50	169.50-257.00	- 7	-	-	-	5	3	-	7	ц	3	2	3	1	4	6	~	7	-	-	-	-

Table A-9. Weekly earnings of professional and technical workers—large establishments in Minneapolis—St. Paul, Minn.—Wis., January 1978

					y earnings. ¹ andard)	Numb	er of v	vorker	s rec	eiving	straig	ht-tin	ne wee	ekly e	arning	s of—										
	Number	Average		- Inc	and and	\$	S	\$	s	S	\$	si de	Ś	5	5	S	5	5	s	5	5	\$	S .	s	5	S
Occupation and industry division	of workers	weekly hours! (standard)	Mean 2	Median 2	Middle range ²	and under	130	140	150 -	160	180	200	220	240	260	280	300	320	340	360	380	400	420	440	460	48 ar
							140	150	160	180	200	22 0	240	260	280	300	320	340	360	380	400	420	440	460	480	οv
ALL WORKERS																										
OMPUTER SYSTEMS ANALYSTS			\$	\$	\$ \$																					
MANUFACTURING					326.50-402.50		_	-			1	2	10	23 12	70 30	56 27	62 29	104	149	141 92	127	111	58 58	32 23	22	1
NONMANUFACTURING	363				302.50-384.50		-	-	_	_	1	1	7	11	40	29	33	43	50	49	25	26	23	9	13	
PUBLIC UTILITIES					346.50-429.00		-	-	-	-	_	-	-	-	7	2	Ÿ	6	14	20	9	9	12	7	12	
COMPUTER SYSTEMS ANALYSTS (BUSINESS), CLASS A	E# 0	70 5	70 0 00	700 00	368.00-421.00										-	10	3	3.4	4.8	77	105	110	79	30	22	
NONMANUFACTURING	548 146				354.50-421.00		_	_	_	_	_	_	1	2	3	10	2	10	64 16	21	15	21	22	8	13	
PUBLIC UTILITIES					421.50-465.00		-	-		-	-	-	~	-	-	-	-	-	2	2	2	4	11	6	12	
COMPUTER SYSTEMS ANALYSTS																										
(BUSINESS) CLASS B	393 197				304.00-362.50		_		- 1	=	1	1	6	11	43	28 11	47 20	71 40	79 49	61 35	22 12	19	2	2	_	
NONMANUFACTURING	196				280.50-357.00		-	-	_	_	1	1	5	7	34	17	27	31	30	26	10	5	1	1	_	
PUBLIC UTILITIES	57				315.00-379.50		-	-	-	-	-	-	-	-	7	2	6	4	8	16	7	5	1	1	-	
COMPUTER SYSTEMS ANALYSTS																										
MANUFACTURING	8 6 6 5				264.50-313.00 264.50-302.50		_	_	_	_	_	1	3 2	10 8	24 21	18 15	12 8	7	6	3 1	_	_	_	_	_	
MPUTER PROGRAMMERS (BUSINESS)	1+104	39.5	301.00	297.00	262.50-333.50	-	_	-	1	1	13	55	54	136	153	170	145	133	92	65	33	24	16	10	1	
MANUFACTURING					274.00-340.50		-	-	1	1	5	8	15	69	111	102	97	102	73	42	21	19	8	5	1	
PUBLIC UTILITIES	422 147				240.50-317.50 298.50-374.50			-	_	_	8	47 1	39 1	67 13	42 10	68 16	48 20	31 16	19 15	23 23	12 12	5 5	8	5 5	_	
COMPUTER PROGRAMMERS (BUSINESS)+																										
CLASS A	342				291.00-377.50		_	-	-	-	_	2	14	24	24	47	4.1	38	32	41	28	24	16	10	1	
NONMANUFACTURING	171				322.00-389.50 270.50-345.00			-	-	_	-	2	1 1 3	5 19	20	10 37	17 24	25 13	25 7	31 10	18	19 5	8 6	5 5	1	
PUBLIC UTILITIES	45				366.00-427.50		-	-	-	-	-	-	-	-	1	-	2	1	3	10	10	5	8	5	-	
COMPUTER PROGRAMMERS (BUSINESS).																										
MANUFACTURING	522 324				267.00-328.50 288.50-332.50			_	- 1	_	3	27	33 12	55 14	51 35	85 59	89 67	93 76	59 48	24 11	3	_	_	-		
NONMANUFACTURING					238.50-313.50		-	-	- [_	3	26	21	41	16	26	22	17	11	13	2	_	_	-	_	
PUBLIC UTILITIES	81				299.00-351.00		-	-	-	-	-	1	1	7	3	11	16	10	11	13	2	-	-	-	-	
COMPUTER PROGRAMMERS (BUSINESS).	230	400	250 50	04 7 EO	2#4 50 270 30						10	24	,	E 7	7.	7.6		2								
NONMANUFACTURING	230 53				246.50-278.00 209.50-263.50		-	-	1	1 -	10 5	26 21	7 5	57 7	76 6	34 5	15 2	1	1	_	_	-	-	_	-	
PUTER OPERATORS	786	39.5	215.00	206.00	183.00-235.00	1	4	17	42	112	170	152	108	62	35	23	26	16	11	_	7	_	_	_	_	
MANUFACTURING	442				177.00-225.00		1	13	33	74	97	97	59	39	18	. 5	_	5	2	-	1	-	-	-	-	
PUBLIC UTILITIES	344 111				188.50-264.00 228.50-314.50		3 1	4	1	38 2	73 9	55 6	49 25	23 4	17 12	18 17	26 23	14	9	-	6	_	_	_	_	
COMPUTER OPERATORS. CLASS A	256	39.5	237.50	230.00	203.50-258.00	_	_	_	_	8	46	48	44	49	22	22	1	4	6	_	6	_	_	_	_	
MANUFACTURING		39.5	223.50	220.00	195.50-248.00	-	-	-	-	6	36	30	29	28	11	5	-	2	-	-	-	-	-	-	-	
NONHANUFACTURING	109				215.50-284.00		-	-	-	2	10	18	15	21	11	1.7	1	2	6	-	6	7-	-	-	-	
PUBLIC UTILITIES	36	40.0	289.00	284.00	270.50~293.50	-	-	-	-	-	-	1	2	4	6	16	1	2	6	-	-	-	-	-	-	

Table A-9. Weekly earnings of professional and technical workers—large establishments in Minneapolis—St. Paul, Minn.—Wis., January 1978—Continued

					y earnings andard)	Numt	er of v	vorkei		_	_	,														
Occupation and industry division	Number of workers	Average weekly hours! (standard)	Mean ²	Median ²	Middle range ²	125 and under		-	150	100	180	200	220	240	260 -	280 -	300 - 320	-	340	360	380	400	420	-	-	aı
ALL WORKERS CONTINUED																						-				
COMPUTER OPERATORS, CLASS B MANUFACTURING NOMMANUFACTURING PUBLIC UTILITIES	153 198	39.5 39.5	210.50	210.50	\$ 190.00-228.50 195.50-225.50 188.50-239.00 228.50-314.50	1 1 - -	1 1 -	3 2 1	9 6 3	37 10 27	83 33 50 3	9 0 53 37 5	58 27 31 23	13 11 2	13 7 6 6	1 1 1	25 25 22	12	4 1 3 -	14,841	1 1 - -	-	-	-	- - -	
COMPUTER OPERATORS, CLASS C MANUFACTURING	179 142				159.00-183.50 160.00-185.50	-	3	14 11	33 27	67 58	4 1 28	14 14	6 3	-	_	_	-	-	1	-	_	_	_	_	_	
DRAFTERS	1 • 062 966 96 75	40.0 40.0	257.00 278.50	252.00 285.50	215.00-299.00 214.30-293.00 228.50-317.50 263.50-325.00	-	1119	2 - 2 -	4 -					126 120 6		104 93 11 11	105 88 17 17	62 53 9	43 40 3	18 14 4	13 8 5 5	17 17 -	2 - 2 2	-	- - -	
DRAFTERS. CLASS A	485 445	40.0	302.00	298.50	274.00-328.00 271.50-325.50 301.00-362.00	-	-	-	-	-	-	-	16 16	51 51	81 81	88 80	100 87	56 51	43 40	18 14	13 8	17 17	2 -	-	-	
DRAFTERS+ CLASS B	328 293	40.0	238.50	234-00	219.50-256.50 218.50-253.00	_	-	Ę	-	2	19 17	65 62	100 96	72 66	43 36	16 13	5	6 2	-	-	-	-	-	-	-	
DRAFTERS+ CLASS C MANUFACTURING	223 217				184.00-210.50 184.00-210.00		=	2	4	39 39	91 90	58 56	25 24	3 3	1 1	-	_	-	-	-	-	-	_	-	-	
REGISTERED INOUSTRIAL NURSES MANUFACTURING	110 81				236.00-280.50 244.00-280.50	Ę	-	-	-	Į.	-	12	21 16	17 16	32 26	18 15	6	1	Ģ	3	ā	Ē	Ē	-	-	

Table A-10. Average weekly earnings of office, professional, and technical workers, by sex—large establishments in Minneapolis—St. Paul, Minn.—Wis., January 1978

	on Number of workers (standard) Sex, 3 occupation, and indu					erage ean ²)			Av (me	erage ean ²)	
Sex, 3 occupation, and industry division	of	hours	earnings 1	Sex, 3 occupation, and industry division	Number of workers	Weekly hours (standard)	Weekly earnings ¹ (standard)	Sex, 1 occupation, and industry division	Number of workers	Weekly hours' (standard)	Weel earnin (stand
OFFICE OCCUPATIONS - WOMEN				OFFICE OCCUPATIONS -				PROFESSIONAL AND TECHNICAL			
				MOWENCOMTINUED				OCCUPATIONS - MEN++CONTINUED			
ECRETARIES:	1-080	70 E	209.00	ORDER CLERKS - CONTINUED				COMPUTER PROGRAMMERS (BUSINESS) -			
NONMANUFACTURING	235		263.50				\$	CONTINUED			
, , , , , , , , , , , , , , , , , , , ,				ORDER CLERKS. CLASS B	123	39.5	146.50			l	
SECRETARIES, CLASS A:	4.04		05	NONMANUFACTURING	102	39.5	141.00	COMPUTER PROGRAMMERS (BUSINESS).	700		³
NONMANUFACTURING	121 53		258.00 293.50	ACCOUNTING CLERKS:			-	NONMANUFACTURING	380 133		
TOBETO STILLINGS		1000	2,3030	MANUFACTURING	779	39.5	163.00	PUBLIC UTILITIES	60		
SECRETARIES + CLASS B:											
NONMANUFACTURINS	300		219.00	ACCOUNTING CLERKS, CLASS A:			-	COMPUTER OPERATORS	498		
PUBLIC UTILITIES	68	40.0	283.50	MANUFACTURING	339	39.5	176.00	MANUFACTURING	278 220		
SECRETARIES, CLASS C:				ACCOUNTING CLERKS, CLASS B	1,540	39.5	153.50				
NONMANUFACTURING	307	39.5	200.50	MANUFACTURING	428		153.00	COMPUTER OPERATORS. CLASS A	177		
				NONHANUFACTURING	1.112	39.5	154.00	NONMANUFACTURING	87		
MANUFACTURING	652 398		185.00	PAYROLL CLERKS	256	70 6	181.00	PUBLIC UTILITIES	32	40.0	24
NONMANUFACTURING	254		192.00	NONMANUFACTURING	176		177.50	COMPUTER OPERATORS. CLASS B	205	39.5	220
PUBLIC UTILITIES	55		231.50					MANUFACTURING	97		
				KEY ENTRY OPERATORS:							
SECRETARIES, CLASS E:	4.0	70 5	172.50	NONMANUFACTURING	570	39.5	161.00	COMPUTER OPERATORS, CLASS C MANUFACTURING	116		
NONMANUFACTURING	64	37.5	112.50	KEY ENTRY OPERATORS, CLASS B	437	30.5	154.00	HARDI RETORING	71	****	1,,
TENOGRAPHERS+ GENERAL	368	39.5	180.50	MANUFACTURING	165		158.50	DRAFTERS	870	40.0	26
MANUFACTURING	180		155.50	NONMANUFACTURING	272	39.5	151.00	MANUFACTURING	787		
RANSCRIBING-MACHINE TYPISTS	84	30 0	156.00	PUBLIC UTILITIES	45	40.0	206.00	NONHANUFACTURING	83		
CANSEKIBING-MACHINE ITPISIS	04	34.0	150.00				1	TOOLIC OTTETTES	""	****	31.
YPISTS	890	39.5	150.00	PROFESSIONAL AND TECHNICAL			i	DRAFTERS: CLASS A	431		
MANUFACTURING	361		147.50	OCCUPATIONS - MEN				MANUFACTURING	391	40.0	30
NONMANUFACTURING	529	39.5	151.50		· '			NONMANUFACTURING: PUBLIC UTILITIES	40	40.0	3.7
TYPISTS, CLASS A	430	39.5	160.00	COMPUTER SYSTEMS ANALYSTS				7 00010 071217123	"	10.0	
MANUFACTURING	219	39.5	156.00	(BUSINESS)			367.50	DRAFTERS. CLASS B	265		
NONMANUFACTURING	211	39.5	164.50	MANUFACTURING			372.00	MANUFACTURING	231	40.0	234
TYPICTS, CLASS B	454	30 5	140.50	NONMANUFACTURING	92		358.50 392.50	DRAFTERS, CLASS C	162	40.0	101
TYPISTS+ CLASS B	136		135.00	PUBLIC UTILITIES	72	40.0	372.50	MANUFACTURING	156		
NONMANUFACTURING	318		142.50	COMPUTER SYSTEMS ANALYSTS					1	ĺ	
				(BUSINESS) CLASS A	448		395.00	PROFESSIONAL AND TECHNICAL	ĺ		
ILE CLERKS	328 272		132.50	NONMANUFACTURING	120 39		396.50	OCCUPATIONS - WOMEN			
NONMANUFACTURING	212	37.0	131.00	PUBLIC UTILITIES	37	40.0	941.50	COMPUTER PROGRAMMERS (BUSINESS)	257	39.5	277
FILE CLERKS, CLASS B	149	39.5	130.00	COMPUTER SYSTEMS ANALYSTS				MANUFACTURING	131		
NONMANUFACTURINS	118	39.0	125.00	(BUSINESS), CLASS B	290		339.50	NONMANUFACTURING	126		
EN E OLEGNE OLAGE O	140	70.0	125 50	NANUFACTURING	150 140		345.50	PUBLIC UTILITIES	35	40.0	316
NONMANUFACTURING	149 125		125.50	PUBLIC UTILITIES	43		361.00	COMPUTER PROGRAMMERS (BUSINESS).		 	
MONTH OF TOX 2110		3003						CLASS A	57	39.0	30
ESSENGERS	222		123.00	COMPUTER SYSTEMS ANALYSTS							
MANUFACTURING	103	39.0	128.00	(BUSINESS) + CLASS C	64	40.0	298.00	COMPUTER PROGRAMMERS (BUSINESS)+		70.5	١,,,
WITCHBOARD OPERATORS	154	39.5	158.50	COMPUTER PROGRAMMERS (BUSINESS)	828	19.5	308.50	NONHANUFACTURING	123		
MANUFACTURING	58		161.00	NONMANUFACTURING	294		296.50	"ANTINEOL POTONTAG	",		~ "
NONMANUFACTURING	96		157.00	PUBLIC UTILITIES			343.00	COMPUTER PROGRAMMERS (BUSINESS).			
				COMPUTED DECCHARGES CONCESSES			1	CLASS C	77	39.5	252
WITCHBOARD OPERATOR-RECEPTIONISTS-	83	39.5	157.00	COMPUTER PROGRAMMERS (BUSINESS), CLASS A	285	30 =	770 00	DOMPHER OFFICE CLASS C	6.3	70 5	170
RDER CLERKS	166	39.5	154.00	MANUFACTURING	285 152	39.5	357.00	COMPUTER OPERATORS. CLASS C	57	39.5	* ' 5
MANUFACTURING	55		176.00	NONMANUFACTURING	133			REGISTERED INDUSTRIAL NURSES	97	39.5	259
NONMANUFACTURING			143.00	PUBLIC UTILITIES	39	1	391.50	MANUFACTURING	68		

Table A-11. Hourly earnings of maintenance, toolroom, and powerplant workers—large establishments in Minneapolis—St. Paul, Minn.—Wis., January 1978

			Hourly ea	ımings ⁴	Numl	er of	worke	rs re	eiving	straig	ht-tin	ne hou	rly e	arnings	of—												
Occupation and industry division	Number					\$ 4.80	\$ 4.90	5.00	5.10	\$ 5.20	5.40	5.60 5	5.80	6.00	6,40 6	6.80	\$ 7.20	7.60		5 8.40			9.6010	.0010	.4010	0.801	\$ 1.2
Occupation and industry division	workers	Mean 2	Median²	Middle range 2	and under	-	~	-	-	-	-	-	-	-	-	-	-	-	-	-	-	_	-	-	-	-	-
					4.80	4.90	5.00	5.10	5.20	5.40 5	60 5	5.80 6	00.0	6.40	6,80	7.20	7.60	8.00	8.40	8.80	9.20	9.601	0-0010	.4010	8011	1.201	1.6
ALL WORKERS																											
AINTENANCE CARPENTERS	145	\$ 7.78	\$ 7.39	\$ \$ 7.01- 7.91	_	_	_	_	_ [_	_	_	1	4	23	28	28	27				1	17	0			
MANUFACTURING			7.39	7.15- 7.68	1	_	_	_	-	_	_	-	1	4	7	9	23	25	1	1	2	1	-	_	_	_	
NONHANUFACTURING	71					-	-	-	-	-	-	-	-	-	16	19	5	2	-	-	3	-	17	9	-	-	
PUBLIC UTILITIES	39	7.09	6.82	6.80- 7.12	-	_	-	-	-	-	-	_	-	-	16	19	-	2	-	-	1	-	1	-	-	-	
AINTENANCE ELECTRICIANS	353 278		8.80	7.96-10.00 7.96- 9.51	-	-	-	-	-	-	-	-	-	1	2	23 23	6	93 87	14 11	71 70	7	38 36	2	53	40	2	
			0.00	1010 1031					J						_	23		0.	**	, 0	,	50			24		
MANUFACTURING	90 50		8.16 7.68	7.39- 9.13		_	_	_	-	_	_	_	_	_	6	9 5	15 8	14	19	1	16	1	6	2	1	_	
AT NTENANCE MACHITATETE	770			7 04 3 05					1							_								-			
AINTENANCE MACHINISTS MANUFACTURING	378 370			7.96- 8.42	_	_	_	_	-	_	_	_	-	1	4	5 5	16 16	124 124	21	182 182	16 16	3	_	-	1	_	
AINTENANCE MECHANICS (MACHINERY) -	515	7.87	7.73	7.31- 8.42	_	_	_	_	_	_	-	_	_	_	34	92	82	110	44	75	44	18	16	_	_	-	
MANUFACTURING	446	1	1	7.07- 8.42		-	-	-	-	-	-	-	-	-	34	81	77	93	43	55	44	18	1	=	-	-	
NONMANUFACTURING	69 46			7.63- 8.45		_	_	_	-	_	_	_	_	_	_	11	5 3	17	1	20 20	-	-	15 15	-	_	_	
AINTENANCE MECHANICS																											
(MOTOR VEHICLES)	275					-	-	-	-	-	-	-	5	-	-	5	54	56	43	23	66	2	21	-	-	-	
NONMANUFACTURING	239 188	1	8.25			-	_	_	-	-	-	-	5	+	-	-	53 53	38 13	43 22	21 21	58 58	_	21 21	-	1.5	- E	
				7.44- 8.93	-	_	_	_	-	~	_	_	_	_	_	_	23	13	~~	21	36		21	-			
AINTENANCE PIPEFITTERS MANUFACTURING	121	8.77		8.75- 9.28		_	_	_	-	_	_	_	_	_	2	5	4	3		69	2	30 30	2	4	-		
ILLWRIGHTS									İ						_	_					_						
MANUFACTURING	166 159			7.68- 8.32		_	_	_	-	_	_	_	_	1	_	5 5	7	104	26 19	-	3	20 20	-	_	_	-	
AINTENANCE TRADES HELPERS	69	6.60	6-66	6-66- 6-68	2	_	_	-	-	_	_	_	_	_	67		_	_	_	_	_	_	_	_	-	~	
OOL AND DIE MAKERS	506	8.45	8.47	8.33- 8.47	_	_	_	_	_	_	_		_ :	_	-	1	3	75	90	252	62	21	2	_	_	_	
MANUFACTURING	505					-	-	-	-	-	-	-	-	-	-	1	3	75	90	252	62	21	1	-	-	-	
TATIONARY ENGINEERS	384	8.21	8.27	8.15- 8.47	-	_	-	-	-	3	-	3	1	10	1	14	30	6	163	130	22	5	6	_	_	_	
MANUFACTURING	96			8.15- 8.80		-	-	-	-	-	-	-	-	-	-	10	2	6	21	32	20	5	-	~	-	-	
NONMANUFACTURINS	288	8.17	8.27	8.15- 8.47	_	-	-	-	- 2	3	-	3	1	-	1	4	28	-	142	98	2	-	6	-	-	-	
DILER TENDERS	95			5.87- 8.21		-	-	-	-	-	-	-	25	-	-	20	13	9	15	10	-	3	-	-	-	-	
MANUFACTURING	60	7.91	7.94	7.42- 8.30	-	-	-	-	-	-	-	-	-	-	_	10	13	9	15	10	_	3	-	-	-	-	

Table A-12. Hourly earnings of material movement and custodial workers—large establishments in Minneapolis—St. Paul, Minn.—Wis., January 1978

			Hourly ea	mings 4	Numi	oer of	worke	rs re	eiving	straig	ght-tir	ne hou	ırly ea	rning	s of—												
Occupation and industry division	Number of workers	Mean 2	Median ²	Middle range 2	2.60 and under	\$ 2.70 -	\$ 2-80 -	2.90	3-00 -	\$ 3 • 20 -	\$ 3.40 -	\$ 3.60 -	s 3.80	s 4.00	\$ 4.20 _	\$ 4,40 -	5 4 80 -	5 5,20 -	\$ 5.60 -	5 6.00 -	5 6.40 -	\$ 6.80 -		5 7.60 -	8.00	5 8 = 40	\$ 8 • 80 -
		ļ <u>.</u>	ļ		2.70	2.80	2.90	3.00	3.20	3.40	3.60	3.80	4.00	4.20	4,40	4_80	5.20	5.60	6.00	6.40	6.80	7.20	7.60	8.00	8,40	8.80	9.20
ALL WORKERS		\$	\$	\$ \$																							
TRUCKDRIVERS MANUFACTURING NONMANUFACTURING	1,002 285 717	8.33		8.05- 8.58	-	-	-	-	-	-	-	-	3 - 3	-	-	7 - 7	-	3 - 3	84 9 75	13 13	29 19 10	16 5 13	40 - 40	49 5 44	89 35 54	514 46 468	153 153 -
TRUCKDRIVERS. LIGHT TRUCK	220	7.74	8.90	5.87- 6.90	-	~	-	-	-	-	-	-	-	-	-	-	-	-	75	2	2	-	12	2	-	-	127
TRUCKDRIVERS. TRACTOR-TRAILER NONNANUFACTURING PUBLIC UTILITIES	309 297 202	8.37	8.56 8.50 8.50		-	-		-	-	-	-	-	-	- - -	-	-	-	-	-	2 -	12 6 -	- - -	6 6	42 42 30	4 - -	243 243 166	-
SHIPPERS	116	6.28	5.80	5.46- 7.67	-	-	-	-	-	-	4	-	-	-	-	-	1	52	4	9	7	9	-	6	24	-	-
RECEIVERS	192 60 132	6.67	6.40 6.90 6.40	5.21- 7.66 6.09- 7.66 5.00- 7.69	-	-	-	-	-	4 - 4	20	-	-	1 - 1	-	9 4 5	14 4 10	9 4 5	8 3 5	4 3 1	51 12 39	12 9 3	1	47 21 26	12	-	-
SHIPPERS AND RECEIVERS	117 62	6.74	6.65	6.06- 7.63		-	-	-	-	-	-	-	-	_	-	-	27 2	-	1	9	4.8 4.8	2	-	2	-	28	Ē
WAREHOUSEMEN MANUFACTURING NONMANUFACTURING PUBLIC UTILITIES	660 126 534 113	5.96 7.72	7.60 6.55 7.68 6.97	6.73- 8.49 4.69- 6.73 7.15- 3.64 6.97- 7.27	1.	-	-	-	 	-	3 - 3 -	3 - 3 -	3 -	-	3 - 3 -	47 44 3	-	6 - 6 4	12 - 12 8	25 11 14 4	67 64 3	98 7 91 55	43 43 42	104	-	246	1111
ORDER FILLERS	1.008 407 601	5.98 5.77 6.13	6.34 5.58 7.55	4.41- 7.55 5.24- 6.88 3.99- 8.05	-	- -	-	1	60 - 60	43	21	16 - 16	39 ~ 39	-	71 62 9	53 34 19	4 0 - 4 0	110 109 1	32 31 1	54 50 4	15 11 4	83	199 27 172	-	169	-	1
SHIPPING PACKERS	618 505 113		5.70 5.70 5.30		: -	-	-	-	3 3	3	-	9 - 9	6 - 6	-	3 - 3	18 14 9	78 64 14	169 143 26	173 169 4	19 16 3	2 4 2 4 -	-	111 75 36	1 - 1	-	-	-
MATERIAL HANDLING LABORERS MANUFACTURING NONMANUFACTURING	657	5.89 6.08 5.78	5.94 5.77 6.04	4.53- 7.60 5.14- 7.06 3.90- 7.67	-	3 - 3	2 - 2	2	69 - 69	35 - 35	32 - 32	4 2 - 4 2	216 - 216	1 - 1	28 2 26	97 74 23	146 118 28	115 61 54	112 105 7	183 66 117	67 36 31	113 109 4	41 35 6	255 22 233	93 4 69	125 25 100	
FORKLIFT OPERATORS	785 515 270		6.90 6.42 8.15	6.42~ 7.90 5.99~ 7.31 7.77~ 8.58	- 1	-	-	-	-	-	-	-	-	-	-	-	24 24 -	- - -	108	64 39 25	131 118 13	91 85 6	108 102 6	66 7 59	69 27 42	124 5 119	Ē
POWER-TRUCK OPERATORS (OTHER THAN FURKLIFT) MANUFACTURING	166 130		6.47	5.97- 7.21 6.04- 7.21		-	-	-	- -		-	-	-	-	8	-		_	22 22	15 15	25 19	3	58 58	2	2	1	9
GUARDS MANUFACTURING NOMANUFACTURING PUBLIC UTILITIES	1+043 373 670 46	5.81	4.40 5.72 3.20 7.84	2.70- 5.89 5.30- 6.36 2.65- 4.52 6.90- 7.84	258	30 - 30	5 - 5 -	10	26 - 26 -	17 5 12	7 5 2 -	1 1 8 3	1	27 6 21	7 1 6 -	172 17 155	30 9 21	108 91 17	107 51 56 9	100 87 13	73 72 1	12 12 -	12 2 10 10	26 6 20 20	4 - 4 4	-	-
GUARDS, CLASS A	256 225		4.40 4.40	4.40- 5.89 4.40- 5.70		-	-	_	-	-	-	-	-	2	2	131 131	11	15 15	47 47	39 13	-	-	- 3	5	4	1	į

Table A-12. Hourly earnings of material movement and custodial workers—large establishments in Minneapolis—St. Paul, Minn.—Wis., January 1978—Continued

			Hourly ea	mings 4	Numb	er of w	orker	s rec	eiving	strai	ght-tir	ne hou	rly ea	rnings	of												
Occupation and industry division	Number of				\$ 2.60	\$ \$ 2.70 2	.80 2	2.90	\$ 3.00	\$ 3.20	\$ 3.40	3.60	3.80	4.00	.20	\$ 4.40	\$ 4.80	5 - 20	\$ 5.60	\$ 6-00	5 6-40	\$ 6.80	\$ 7.20	7.60	8.00 8	6 - 40 E	3 . 8
	workers	Mean 2	Median ²	Middle range ²	and under	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
					2.70	2.80 2	.90 3	3.00	3.20	3.40	3.60	3.80	4.00	4.20	1.40	4.80	5,20	5.60	6-00	6.40	6-80	7-20	7.60	8.00 8	8.40 E	3.80 9	2.20
ALL WORKERS CONTINUED																											
HARDS - CONTINUED	:	\$	\$	\$ \$																							
GUARDS, CLASS B	413	5.80	5.72	5.30- 6.67	_	-	-	-	1	6	5	8	1	9	2	36	14	92	60	61	73	12	12	21	-	_	
MANUFACTURING	342		5.72			-	-	-	-	5	5	8	1	6	1	17	9	91	51	61	72	12	2	1	-	_	
NONHANDFACTURING	71			4.72- 7.84		-	-	-	1	1	-	-	-	3	1	19	5	1	9	-	1	-	10	20	-	-	
PUBLIC UTILITIES	42	7.13	7.35	6.14- 7.84	_	-	-	-	-	-	-	-	-	1	-	-	-	1	9	-	1	-	10	20	-	-	
ANITORS. PORTERS. AND CLEANERS	4 . 251	4.67	4.56	4.04- 5.10	1	7	3	16	27	506	302	156	29	37	69	1734	472	106	278	337	108	13	33	4	13	_	
MANUFACTURING		5.55	5.56	5.10- 6.19	-	-	-	16	2	4	2	_	5	9	14	33	383				10	_	29	4	1	_	
NONMANUFACTURING		4.36	4.56	3.55- 4.56	1	7	3	-1	25	502	300	156	24	28	55	1701	89	28	8.8	28	98	13	4	-	12	-	
PUBLIC UTILITIES	250	6.22	6.42	5.86- 6.47	_	-	-	-	-	7	~	4	1	2	3	-	14	10	61	28	98	13	q	-	12	-	

Table A-13. Average hourly earnings of maintenance, toolroom, powerplant, material movement, and custodial workers, by sex—large establishments in Minneapolis—St. Paul, Minn.—Wis., January 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
MAINTENANCE TOOLROOM AND POWERPLANT OCCUPATIONS - MEN			MATERIAL MOVEMENT AND CUSTODIAL OCCUPATIONS - MENCONTINUED		\$
MAINTENANCE CARPENTERS:		\$	RECEIVERS	150	
MANUFACTURING	74	7.41	MANUFACTURING	52	
Hand, actorized		,	NOMMANUFACTURING	98	6.81
MAINTENANCE ELECTRICIANS	348	8.90			1
MANUFACTURING	278	8.64	SHIPPERS AND RECEIVERS	114	
			MANUFACTURING	59	6.55
MAINTENANCE PAINTERS	87	8.17			
			WAREHOUSE MEN	588	7.46
MAINTENANCE MACHINISTS	376	8.23	MANUFACTURING	108	ł.
MANUFACTURING	368	8.19	NONMANUFACTURING	480	7.83
MATNITONALCE MECHANICS (MACHINEDY) -	511	7.87	ORDER FILLERS	639	6.97
MAINTENANCE MECHANICS (MACHINERY) - MANUFACTURING	446	7.81	MANUFACTURING	253	6.28
NONMANUFACTURING	65	8.31	NONMANUFACTURING	386	7.43
PUBLIC UTILITIES	44	8.79			
			SHIPPING PACKERS	357	5.84
MAINTENANCE MECHANICS			MANUFACTURING	284	5.79
(MOTOR VEHICLES)	275	8.26			
NONMANUFACTURING	239	8.28	MATERIAL HANDLING LABORERS	1 . 5 4 4	6.12
PUBLIC UTILITIES	188	8.41	MANUFACTURING	628	6.12
i			NONMANUFACTURING	916	6.13
MAINTENANCE PIPEFITTERS	120				
MANUFACTURING	114	8.71	FORKLIFT OPERATORS	775	7.11
			MANUFACTURING	511	6.65
MILLWRIGHTS	166 159	8.02	NONHANUFACTURING	264	8.00
			POWER-TRUCK OPERATORS		
TOOL AND DIE MAKERS	506		(OTHER THAN FORKLIFT)	136	6.65
MANUFACTURING	505	8.45	MANUFACTURING	130	6.65
CTATTOLARY EMCINEERS	379	8.22	GUARDS	898	4.32
STATIONARY ENGINEERS	96		NONMANUFACTURING	625	3.78
NONMANUFACTURING	283				
BATLES TELBERS	0.5	7 00	GUARDS CLASS A	250	5.16 4.96
BOILER TENDERS	95	7.29	NONMANUFACTURING	219	4.70
MANUFACTURING	60	7.91	JANITORS, PORTERS, AND CLEANERS	2+660	4.68
		1	NONMANUFACTURING	1,871	
MATERIAL MOVEMENT AND CUSTODIAL OCCUPATIONS - MEN					
00001 H1 1 2 H3			MATERIAL MOVEMENT AND CUSTODIAL OCCUPATIONS - WOMEN		
TRUCKORIVERS	981	8.09			
HANUFACTURING	285				
NONMANUFACTURING	696	7.99	ORDER FILLERS	369	4.27
TRUCKDRIVERS, LIGHT TRUCK	220	7.74	MANUFACTURING	154	4.94
		1	SHIPPING PACKERS	261	5.67
TRUCKDRIVERS: TRACTOR-TRAILER	306	8.32	MANUFACTURING	221	5.79
NUMMANUFACTURING	294	8.37			
PUBLIC UTILITIES	199		JANITURS. PORTERS. AND CLEANERS	1 • 349	4.36
SHIPPERS	104	6.46			

B. Establishment practices and supplementary wage provisions

Table B-1. Minimum entrance salaries for inexperienced typists and clerks in Minneapolis—St. Paul, Minn.—Wis., January 1978

		Ine	xperienced typ	pists			Othe	r inexperience	d clerical worker	s ⁸		
		Manufac	cturing	Nonmanuí	acturing		Manufa	cturing	No	nmanufacturing	3	
Minimum weekly straight-time salary 7	All industries	Bas	ed on standar	d weekly hours 9 c	f—	All	Based on standard weekly hours 9 of—					
	industries	All schedules	40	All schedules	40	industries	All schedules	40	All schedules	40	$38^{3}/_{4}$	
ESTABLISHMENTS STUDIED	249	93	XXX	156	XXX	249	9.3	XXX	156	XXX	XXX	
ESTABLISHMENTS HAVING A SPECIFIED												
MINIHUM	64	32	26	32	21	91	36	33	5.5	39	9	
UNDER \$100.00	1	9	1.4	-	2	1	-	-	1	1	-	
\$100.00 AND UNDER \$105.00		1/2				8	2	2	6	2	3	
\$105.00 AND UNDER \$110.00	7	1		6	6	18	1	1	17	12	3	
\$110.00 AND UNDER \$115.00	7	4	3	3		8	7	5	1	1	-	
\$115.00 AND UNDER \$120.00	12	7	5	5	2	17	10	d	7	4	3	
\$120.00 AND UNDER \$125.00		3	3	5	1	12	6	6	6	4	-	
\$125.00 AND UNDER \$130.00	7	. 4	3	3	2	2	-2	2	-	-	-	
\$130.00 AND UNDER \$135.00	6	4	4	2	1	4	1	1	3	3	-	
\$135.00 AND UNDER \$140.00	2	1	1	1	1	2	-	-	2	2	-	
\$140.00 AND UNDER \$145.00	4	2	2	2	2	7	3	3	4	4	-	
\$145.00 AND UNDER \$150.00	2	1	1	1	1	1	1	1	-	-		
\$150.00 AND UNDER \$155.00	3	2	1	1	1	4	2	1	2	2	-	
\$155.00 AND UNDER \$160.00	1	1	1	~	-	1	1	1	-	-	-	
\$160.00 AND UNDER \$165.00	-	-	1.5	-	1.5	-	-	-	-	-	-	
\$165.00 AND UNDER \$170.00	1	+	-	1	1	1	-	-	1	1	-	
\$170.00 AND UNDER \$175.00	-	14	-	~	~	-	-	-	-	-	-	
\$175.00 AND UNDER \$180.00	-	-	-		- 5		-	-	-	-	-	
\$180.00 AND UNDER \$185.00	1	17	-	1	1	1	-	-	1	1	-	
\$185.00 AND UNDER \$190.00	-	-	-		-			-		2	-	
\$190.00 AND UNDER \$195.00			-	-	-	-	-	-	5	2	-	
\$195.00 AND UNDER \$200.00	-	1.3						_	1	1	_	
\$200.00 4ND UNDER \$205.00 \$205.00 AND UNDER \$210.00	1	1	1			1	1	1	1	4		
\$210.00 AND UNDER \$210.00		1	1			1	1	1				
\$215.00 AND UNDER \$220.00		2	Ú.			-	*			-	-	
\$220.00 AND UNDER \$225.00		12	-	-		-		-	-	-	-	
\$225.00 AND UNDER \$230.03	1	1	1	-	1.4	-	-	-	-	-	-	
\$230.00 AND OVER		C-	-	-	1-1	1	-	-	1	.1	-	
STABLISHMENTS HAVING NO SPECIFIED		512	7,63		0.00			200			-6.0.0	
MINIMUM	42	16	XXX	26	XXX	62	19	xxx	4.3	XXX	XXX	
ESTABLISHMENTS WHICH DID NOT EMPLOY WORKERS IN THIS CATEGORY	143	45	xxx	98	xxx	46	36	xxx	60	xxx	xxx	

Table B-2. Late-shift pay provisions for full-time manufacturing production and related workers in Minneapolis—St. Paul, Minn.—Wis., January 1978

(All full-time manufacturing production and related workers = 100 percent)

Y.L.	All wor	rkers 10	Workers o	n late shifts
[tem	Second shift	Third shift	Second shift	Third shift
PERCENT OF WORKERS				
FERGENI OF WORKERS			1	
IN ESTABLISHMENTS WITH LATE SHIFT PROVISIONS	93.9	75.4	20.3	6.2
JITH NO PAY DIFFERENTIAL FOR LATE SHIFT WORK	. 9	. 9	.1	.1
WITH PAY DIFFERENTIAL FOR LATE SHIFT WORK	92.9	74.5	20.2	6.1
UNIFORM CENTS-PER-HOUR DIFFERENTIAL	79.4	64.7	17.4	5.4
UNIFORM PERCENTAGE DIFFERENTIAL +	11.9	9.8	2.4	.7
OTHER DIFFERENTIAL	1 -6	_	a 5	-
AVERAGE PAY DIFFERENTIAL				
UNIFORM CENTS-PER-HOUR DIFFERENTIAL +	20.3	27.5	20.8	26.9
JNIFORM PERCENTAGE DIFFERENTIAL	5.9	7.8	5.5	8.1
PERCENT OF WORKERS BY TYPE AND AMOUNT OF PAY DIFFERENTIAL				
UNIFORM CENTS-PER-HOUR:				
10 CENTS	7 - 1	1 - 1	1.7	-
12 CENTS	4 . 2	-	1-1	_
14 CENTS	1.5	-	.3	_
15 AND UNDER 16 CENTS	15.6	6.9	3.0	. 9
17 CENTS	11.4	_	1.9	-
18 CENTS	.8	2.7	• 2	.5
20 AND UNDER 21 CENTS	17 • 2 2 • 4	18.2	4.6	1.5
21 CENTS	1.0	3.2	.3	(11)
24 CENTS	-	2.9		.7
25 CENTS	9.1	4.9	1.7	.5
28 CENTS	-	6.6	-	-
30 CENTS	4 . 3	6.6	.8	-6
33 AND UNDER 34 CENTS	1.0	-	.5	-
34 CENTS	_	1.9		.1
42 CENTS	_	. 9	-	(11)
45 CENTS	-	1.0	-	(11)
50 CENTS	1.7	4.1	4	-
65 CENTS	2.1	-	<u>.</u> 6	-
66 AND UNDER 67 CENTS	-	1.0	-	(11)
85 CENTS	-	2.1	-	-4
NIFORM PERCENTAGE:		İ		
3 PERCENT	. 9	_	. 3	-
4 PERCENT	1.9	-	.3	-
5 AND UNDER 6 PERCENT	4 - 5	- 9	-8	
6 PERCENT	2.5	1.9	•7	.1
7 AND UNDER 8 PERCENT	_	2.7		• 1
9 PERCENT	2.0	2.5	.2	-4
	€	1 0 0	1 04	

Table B-3. Scheduled weekly hours and days of full-time first-shift workers in Minneapolis—St. Paul, Minn.—Wis., January 1978

		Production and	related workers			Office	workers	
Item	All industries	Manufacturing	Nonmanufacturing	Public utilities	All industries	Manufacturing	Nonmanufacturing	Public utilitie
PERCENT OF WORKERS BY SCHEDULED WEEKLY HOURS AND DAYS								
ALL FULL-TIME WURKERS	100	100	100	100	103	100	100	100
8 HOURS-5 DAYS	(12)	_	(12)	_	_	_	_	
20 HOURS-5 DAYS	1	_	3	_	_	_	_	
50 HOURS-5 DAYS	(12)	-	(12)	_	_	_]	_
55 HOURS-5 DAYS	2	3	2	_	(12)		(12)	_
6 HOURS-4 DAYS	(12)	1	_	_	(12)	1		_
36 1/4 HOURS-5 DAYS		_		_	3	_		
6 2/3 HOURS-5 DAYS	(12)	(12)		_	(12)	(12)		
7 1/2 HOURS	6	4	8	_	12	9	14	_ h
4 1/2 DAYS	-	_	=	-	2		3	
5 DAYS	6	4	8	_	10	8	11	4
88 HOURS-5 DAYS	(12)	_	(12)	_		_		_
8 3/4 HOURS-5 DAYS	_	_	-	-	19	4	27	8
88 8/10 HOURS-5 DAYS	_	_		_	2		3	_
9 1/4 HOURS-5 DAYS	_	-	-	_	2	6	_	_
0 HOURS	86	86	86	99	62	81	52	8.8
4 DAYS	1	2		-			- 1	
4 1/2 DAYS	(12)	1	-	-	-	_	-	_
5 DAYS	8.5	83	86	99	62	81	52	8.8
2 1/2 HOURS-5 DAYS	1	1			-	-		-
4 HOURS-5 DAYS	(12)	1	-	_	_	_	- 1	-
5 HOURS-5 DAYS	2	4	_	_	_	_	_	_
18 HOURS-6 DAYS	(12)	(12)	(12)	-	-	_	- 1	_
3 3/4 HOURS-5 DAYS	(12)	-	(12)	1	-	-	-	-
MEEKTA MOOKS VAELVÄE SCHEDPTED								
LL WEEKLY WORK SCHEDULES	39.5	40.0	39.0	40.1	39.3	39.7	39.1	39.8

Table B-4. Annual paid holidays for full-time workers in Minneapolis—St. Paul, Minn.—Wis., January 1978

		Production and	d related workers			Office	workers	
Item	All industries	Manufacturing	Nonmanufacturing	Public utilities	All industries	Manufacturing	Nonmanufacturing	Public utilities
PERCENT OF WORKERS								
ALL FULL-TIME WORKERS	100	100	100	100	100	100	100	100
IN ESTABLISHMENTS NOT PROVIDING PAID HOLIDAYS	3	1	6	~	(12)	-	(12)	
IN ESTABLISHMENTS PROVIDING PAID HOLIDAYS	97	99	94	100	99	100	99	100
AVERAGE NUMBER OF PAID HULIDAYS								
FOR WORKERS IN ESTABLISHMENTS PROVIDING HOLIDAYS	9.0	9.6	8 • 2	9 - 6	9.2	9.7	9.0	9.7
PERCENT OF WORKERS BY NUMBER OF PAID HOLIDAYS PROVIDED								
1 HOLIDAY	2	_	-	-	_	-	_	
PLUS 1 HALF DAY	(12)	-	(12)	10.00	-	-	-	-
6 HOLIDAYS	14	7	21	(12)	4	2	5	3
PLUS 1 HALF DAY	1	<u>-</u>	1	-	3	1	4	_
PLUS 2 HALF DAYS	(12)	-	(12)	-	_	1.7	-	_
PLUS 3 HALF DAYS	_	-	-	~	(12)	(12)	_ =	_
PLUS 5 HALF DAYS	-	2	1.0	5	(12)		(12)	_
PLUS 1 HALF DAY	(12)	(12)	10	5 -	5	3	6	2
PLUS 2 HALF DAYS	1	1	1	_	1 2	1	1 2	-
PLUS 3 HALF DAYS	1	i	_		(12)	(12)		_
8 HOLIDAYS	7	6	7	-	8	7	9	2
PLUS 1 HALF DAY	2	(12)	3		1	(12)	2	-
PLUS 2 HALF DAYS	1	_	1	12	2	(12)	3	_
9 HOLIDAYS	22	20	25	38	23	13	29	25
PLUS 1 HALF DAY	1	1	-	-	9		14	
PLUS 2 HALF DAYS	1	1	1	-	(12)	(12)	-	-
10 HOLIDAYS	32	45	18	46	35	62	20	55
11 HOLIDAYS	7	10	4	11	5	8	3	13
12 HOLIDAYS	1	2	_	-	1	2	(12)	-
13 HOLIDAYS	1	1	_		1	2		_
14 HOLIDAYS	1	- 2			2	(12)	3	-
PERCENT OF WORKERS BY TOTAL PAID HOLIDAY TIME PROVIDED 13	1						-	-
	0.7		9.0	100	8.0	100		100
1 1/2 DAYS OR MORE	97 96	99	94	100 100	99 99	100 100	99	100 100
6 1/2 DAYS OR MORE	83	93	72	99	96	98	95	100 97
7 DAYS OR MURE	82	93	71	99	93	98	91	97
B DAYS OR MORE	76	90	61	95	88	95	83	95
8 1/2 DAYS OR MORE	68	83	53	95	78	87	73	93
9 DAYS OR MORE	66	82	50	95	77	87	71	93
9 1/2 DAYS OR MORE	43	62	24	57	52	73	39	6.8
10 DAYS OR MORE	4.3	61	24	57	43	73	25	6.8
11 DAYS OR MORE	9	14	4	11	ä	11	5	13
12 DAYS OR MORE	2	4	- 1	-	3	4	3	_
14 DAYS OR MORE	1	2	-	- 1	2	(12)	3	_
19 DAYS	1	2	-	-	-	~	-	-
				1			1	

Table B-5. Paid vacation provisions for full-time workers in Minneapolis-St. Paul, Minn.-Wis., January 1978

		Production and	l related workers		Office workers					
Item	All industries	Manufacturing	Nonmanufacturing	Public utilities	All industries	Manufacturing	Nonmanufacturing	Public utilitie		
								-		
PERCENT OF WORKERS										
ALL FULL-TIME WORKERS	100	100	100	100	100	100	100	100		
N ESTABLISHMENTS NOT PROVIDING										
PAID VACATIONS	2	-	4	-	(12)	-	(12)			
PAID VACATIONS	98	100	96	100	0.0	100		100		
LENGTH-OF-TIME PAYMENT	94	93	96	100	99	100 98	99	100 100		
PERCENTAGE PAYMENT	4	7	-	-	l i	2	-	-		
MOUNT OF PAID VACATION AFTER: 14										
6 MONTHS OF SERVICE:										
UNDER 1 WEEK	20	16	25	(12)	۱	1	4	2		
1 WEEK	24	25	23	48	45	44	45	56		
OVER 1 AND UNDER 2 WEEKS	2	2	2	4	23	41	13	4,		
2 WEEKS	1	- 7	1		5	1	8	-		
OVER 4 AND UNDER 5 WEEKS	1	3			(12)	1	_	_		
1 YEAR OF SERVICE:										
1 WEEK	60	60	59	25	18	6	24	40		
OVER 1 AND UNDER 2 WEEKS	7	6	9	35	1	1	1	. 3		
2 WEEKS	29	31	28	40	81	91	7.5	56		
OVER 2 AND UNDER 3 WEEKS	(12)	-	(12)	_	(12)	1	(12)	-		
OVER 3 AND UNDER 4 WEEKS		_	_	_	(12)	(12)	-	_		
OVER 4 AND UNDER 5 WEEKS	1	3		-	(12)	1	(12)	_		
2 YEARS OF SERVICE:										
1 WEEK	19	29	8	1	2	3	1	(12)		
OVER 1 AND UNDER 2 WEEKS	3	5	(12)	_	(12)	1 =	(12)	1127		
2 WEEKS	6.8	59	78	62	94	89	97	96		
OVER 2 AND UNDER 3 WEEKS	6	4	8	35	3	6	1	3		
3 WEEKS	(12)	-	(12)	_	(12)	(12)	(12)	-		
OVER 3 AND UNDER 4 WEEKS	(12)	3	(12)	2	(12)	1	(12)	J		
3 YEARS OF SERVICE:					(12)					
1 WEEK	1	2	1	_	(12)	2	(12)	1.2		
2 WEEKS	81	79	84	63	94	88	97	97		
OVER 2 AND UNDER 3 WEEKS	11	12	10	35	4	9	2	3		
3 WEEKS	2	5	(12)	_	1	2	1	-		
OVER 3 AND UNDER 4 WEEKS	(12)	-	(12)	2	(12)	(12)	(12)	-		
4 WEEKS		_	-		(12)	(12)	_	-		
OVER 4 AND UNDER 5 WEEKS	1	3	_	-	(12)	1	_	_		
4 YEARS OF SERVICE:										
1 WEEK	1	1	1	-	(12)		(12)	-		
2 WEEKS	80	79	81	55	90	86	92	85 3		
OVER 2 AND UNDER 3 WEEKS	12	13 5	10	35 8	5	11	6	12		
OVER 3 AND UNDER 4 WEEKS	(12)	-	(12)	2	(12)	(12)	(12)	_		
4 WEEKS	-	_	-	-	(12)	(12)	-	_		
OVER 4 AND UNDER 5 WEEKS	1	3		-	(12)	1	-	-		
)				

Table B-5. Paid vacation provisions for full-time workers in Minneapolis—St. Paul, Minn.—Wis., January 1978—Continued

		Production and	related workers		Office workers					
Item	All industries	Manufacturing	Nonmanufacturing	Public utilities	All industries	Manufacturing	Nonmanufacturing	Public utilities		
AMOUNT OF PAID VACATION AFTER 14 - CONTINUED										
5 YEARS OF SERVICE:										
1 WEEK	(12)	1	_	-	-	-	-	-		
2 WEEKS	62	5 B	65	51	61	39	7.4	82		
OVER 2 AND UNDER 3 WEEKS	15	20	10	35	8	16	4	3		
3 WEEKS	19	18	20	12	30	44	2 1	15		
OVER 3 AND UNDER 4 WEEKS	(12)	_	(12)	2	(12)	(12)	(12)	1		
4 WEEKS	-	_	-	_	(12)	(12)	_	_		
OVER 4 AND UNDER 5 WEEKS	1	3	_	-	(12)	1	(12)	-		
10 YEARS OF SERVICE:										
OVER 1 AND UNDER 2 WEEKS	(12)	1	-	-	-	_	_	-		
2 MEEKS	10	3	17	(12)	4	1	7	-		
OVER 2 AND UNDER 3 WEEKS	1	1	(12)	-	1	1	(12)	_		
3 WEEKS	70	75	64	61	88	87	89	94		
OVER 3 AND UNDER 4 WEEKS	11	12	11	37	3	7	1	5		
4 WEEKS	5	6	3	-	3	3	3	-		
OVER 4 AND UNDER 5 WEEKS	2	3	(12)	2	(12)	1	(12)	1		
5 WEEKS	-	-	-	-	(12)	(12)	(12)	-		
12 YEARS OF SERVICE:										
2 WEEKS	3	3	4	(12)	4	1	5	-		
OVER 2 AND UNDER 3 WEEKS	(12)	-	(12)	- 1	(12)	_	(12)	-		
3 WEEKS	65	57	74	57	77	59	8.8	82		
GVER 3 AND UNDER 4 WEEKS	17	22	11	41	7	16	1	9		
4 WEEKS	10	15	6	- 1	12	23	5	8		
OVER 4 AND UNDER 5 WEEKS	2	3	(12)	2	(12)	1	(12)	1		
5 WEEKS	(12)	1	-	-	(12)	(12)	(12)	-		
15 YEARS OF SERVICE:		_			_					
2 WEEKS	2	3	2	(12)	3	1	4	_		
OVER 2 AND UNDER 3 WEEKS	(12)	-	(12)		(12)		(12)	_		
3 WEEKS	34	24	4 11	26	4 4	27	53	42		
OVER 3 AND UNDER 4 WEEKS	10	17	3	4	6	10	3			
4 WEEKS	4.4	50	37	33	45	56	38	51 3		
OVER 4 AND UNDER 5 WEEKS	6	3	a	35	_	5	_	3		
OVER 5 AND UNDER 6 WEEKS	(12)	1 3	(12)	2	(12) (12)	(12)	(12)	21		
20 YEARS OF SERVICE:										
2 WEEKS	2	3	2	(12)	3	1	4	_		
OVER 2 AND UNDER 3 WEEKS	(12)	=	(12)	112,	(12)	-	(12)	_		
3 MEEKS	14	6	24	2	8	3	11	5		
OVER 3 AND UNDER 4 WEEKS	1	1	2		1	2	1			
4 WEEKS	57	67	45	50	75	78	73	60		
OVER 4 AND UNDER 5 WEEKS	3	5		1	1	2	(12)	2		
5 WEEKS	13	13	14	12	11	10	11	32		
OVER 5 AND UNDER 6 WEEKS	-6	3	9	37	2	5	(12)	2		
6 WEEKS	ī	2	1	-	(12)	2	(12)	_		
7 WEEKS	(12)	(12)	-	-	1127	-	,,,,,			
								-		

Table B-5. Paid vacation provisions for full-time workers in Minneapolis-St. Paul, Minn.-Wis., January 1978—Continued

		Production and	related workers			Office	Office workers					
Item	All industries	Manufacturing	Nonmanufacturing	Public utilities	All industries	Manufacturing	Nonmanufacturing	Public utilities				
AMOUNT OF PAID VACATION AFTER 14- CONTINUED												
25 YEARS OF SERVICE:	2	,		(12)	į ,		1	1.3				
2 WEEKS	2	3	2	(12)	3	1	1	- 5				
OVER 2 AND UNDER 3 WEEKS	(12)		(12)	_	(12)		(12)	5				
3 WEEKS	12	6	18	2		3	9	3				
OVER 3 AND UNDER 4 WEEKS	1	-	2		-	-	-	_				
4 WEEKS	33	35	31	1	47	38	5 2	1				
OVER 4 AND UNDER 5 WEEKS	3	5	1	4	3	(12)	5	6				
5 WEEKS	36	42	30	45	36	51	27	72				
OVER 5 AND UNDER 6 WEEKS	6	4	9	37	3	7	(12)	2				
6 WEEKS	3	4	3	12	2	1	2	15				
7 WEEKS	(12)	(12)	-	-	-	-	_	-				
OVER 7 AND UNDER 8 WEEKS	(12)	1	-	-	_	_	_	*				
8 WEEKS	(12)	(12)	-			0.5	-	-				
30 YEARS OF SERVICE:												
2 WEEKS	2	3	2	(12)	3	1	4	-				
OVER 2 AND UNDER 3 WEEKS	(12)	_	(12)	-	(12)	-	(12)	-				
3 WEEKS	12	6	18	2	7	3	9	5				
OVER 3 AND UNDER 4 WEEKS	1	_	2	(-	_	_	-				
4 WEEKS	32	33	31	1	44	38	4.7	1				
OVER 4 AND UNDER 5 WEEKS	1	3		_	1	-	2	2				
5 WEEKS	3.4	4.0	28	38	38	47	34	62				
OVER 5 AND UNDER 6 WEEKS	6	3	Q I	37	2	5	(12)	2				
6 MEEKS	8	10	6	22	5	7	4	28				
OVER 6 AND UNDER 7 WEEKS	1	3		-	(12)	1	_					
7 WEEKS	(12)	(12)	_	-		1	_					
OVER 7 AND UNDER & WEEKS	(12)	1	_		_	_	_	_				
8 WEEKS	(12)	(12)	-	_	-	-	-	-				
MAXIMUM VACATION AVAILABLE:												
2 WEEKS	2	3	2	(12)	3	1	4	_				
OVER 2 AND UNDER 3 WEEKS	(12)	1	(12)		(12)	1 - 2	(12)	_				
3 WEEKS	12	6	18	2	7	3	9	5				
	1		2	2	-	_	-					
OVER 3 AND UNDER 4 WEEKS	32	33	31	1	44	38	4.7	1				
4 WEEKS	1	3	31	-	1]	77	2				
OVER 4 AND UNDER 5 WEEKS			1				31	62				
5 WEEKS	34	40	28	38	36	4.7		2				
OVER 5 AND UNDER 6 WEEKS	6	3	9	37	2	5	(12)	_				
6 WEEKS	ь	10	6	22	5	7	4	28				
OVER 6 AND UNDER 7 WEEKS	1	3	- 1	-	(12)	1	1 5	_				
7 WEEKS	(12)	(12)	- 1	-	2		3					
OVER 7 AND UNDER B WEEKS	(12)	1	- 1	-		-	-					
R MEEKS	(12)	(12)	-	-	-	-	-	_				

Table B-6. Health, insurance, and pension plans for full-time workers in Minneapolis-St. Paul, Minn.-Wis., January 1978

Item	All industries						Office workers					
		Manufacturing	Nonmanufacturing	Public utilities	All industries	Manufacturing	Nonmanufacturing	Public utilities				
PERCENT OF WORKERS												
ALL FULL-TIME WORKERS	100	100	100	100	100	100	100	100				
IN ESTABLISHMENTS PROVIDING AT LEAST ONE OF THE BENEFITS SHOWN BELOW 15	97	100	94	100	99	100		100				
1					77	100	99	100				
NONCONTRIBUTORY PLANS	91 81	94 86	88 75	100 86	96 73	99 83	98	100 84				
	9-				/ *	ده	68	84				
ACCIDENTAL DEATH AND OISMEMBERMENT INSURANCE	66	64	68	75								
NONCONTRIBUTORY PLANS	58	57	59	73	67 53	67 61	67	60 59				
SICKNESS AND ACCIDENT INSURANCE			,			-	13					
OR SICK LEAVE OR BOTH 16	90	95	85	100	92	96	89	100				
SICKNESS AND ACCIDENT												
INSURANCE	73	79	67	70	53	84	35	31				
NONCONTRIBUTORY PLANS	70	7.8	62	70	50	81	32	31				
SICK LEAVE (FULL PAY AND NO WAITING PERIOD)	31	32	29	53	76	83	71	71				
SICK LEAVE (PARTIAL PAY OR WAITING PERIOD)	a	6	11	(12)	4	2	5	3				
LONG YEAR DISCIPLIATE					_	_						
LONG-TERM DISABILITY INSURANCE	19	23	14	14								
NONCONTRIBUTORY PLANS	10	15	5	12	54 25	63 36	49	28 16				
HOSPITALIZATION INSURANCE	95 81	99 93	91	100 98	9.9	99	99	100				
NOWCONTRIBOTORY TEAMS	0.1	,,,		, ,	57	79	45	96				
SURGICAL INSURANCE	95	99	91	100	99	99	99	100				
NONCONTRIBUTORY PLANS	8 1	93	68	98	57	79	45	96				
MEDICAL INSURANCE	94	99	90	100	99	99	9.8	100				
NONCONTRIBUTORY PLANS	6 1	93	68	98	57	79	45	96				
MAJOR MEDICAL INSURANCE	86	93	78	100	0.0			100				
NONCONTRIBUTGRY PLANS	66	76	55	98	99 54	99 72	99	100 96				
DENTAL INSURANCE	41	51	31	82	46	75	30	71				
NONCONTRIBUTORY PLANS	37	44	29	82	34	67	16	71				
RETIREMENT PENSION	8.4	89	79	34	85	94	80	76				
NONCONTRIBUTORY PLANS	78	83	73	84	79	83	77	76				

Table B-7. Life insurance plans for full-time workers in Minneapolis-St. Paul, Minn.-Wis., January 1978

		Production and	related workers			Office v	vorkers	
Item	All ind	ustries	Manufa	cturing	All ind	ustries	Manufa	cturing
aven.	All plans ¹⁷	Noncontributory plans 17	All plans ¹⁷	Noncontributory plans ¹⁷	All plans ¹⁷	Noncontributory plans 17	All plans ¹⁷	Noncontributor plans 17
TYPE OF PLAN AND AMOUNT OF INSURANCE								
LLL FULL-TIME WORKERS ARE PROVIDED THE SAME FLAT-SUM DOLLAR AMOUNT: PERCENT OF ALL FULL-TIME WORKERS 18 AMOUNT OF INSURANCE PROVIDED: 17	57	51	55	4.9	33	28	25	19
MEAN	\$6,700 \$5,000 \$2,000~ 9,000 \$1,000-11,000	\$6,700 \$5,000 \$2,000-7,000 \$1,000-10,000	\$7*300 \$5*000 \$3*000-6*500 \$2*000-10*000	\$7.500 \$5.000 \$2.500- 6.500 \$2.000-10.000	\$5,100 \$5,000 \$3,000 6,000 \$2,000 8,000	\$5*100 \$5*000 \$3*000- 6*000 \$2*000-10*000	\$5+300 \$5+000 \$4+000- 6+000 \$2+500-10+000	\$5,300 \$5,000 \$3,000-6,50 \$2,500-10,00
MOUNT OF INSURANCE IS BASED ON A SCHEDULE WHICH INDICATES A SPECIFIED DOLLAR ANOUNT OF INSURANCE FOR A SPECIFIED LENGTH OF SERVICE: PERCENT OF ALL FULL-TIME WORKERS ¹⁸	4	3	ą.	2	2	2	(12)	(12)
6 MONTHS OF SERVICE: MEAN	42.503		F#.500	\$3.900				
MEDIAN	\$2,500 \$1,000 \$1,000 - 5,000 \$500 - 5,000	\$1,600 \$1,000 \$500- 3,000 \$500- 4,000	\$4+500 \$5+000 \$4+000 - 5+000 \$4+000 - 5+000	(6)	\$800 (6) (6) (6)	\$800 (6) (6)	(6) (6)	(6)
1 YEAR OF SERVICE:	\$2,400	\$1,600	\$4.100	\$3,300	\$1,100	\$1,100	(6)	(6)
MEDIAN	\$1,500 \$1,000- 4,000 \$500- 5,000	\$1,000 \$1,000 2,000 \$500 4,000	\$4:000 \$4:000 \$2:000 5:000	(6) (6)	\$500 \$500- 1.500 \$500- 1.500	\$500 \$500- 1,500 \$500- 1,500	(6) (6) (6)	(6) (6) (6)
5 YEARS OF SERVICE:	\$5,400	\$4,000	\$8,400	\$6.700	\$3,000	\$3.000	(6)	(6)
MEDIANAIDDLE RANGE (50 PERCENT) AIDDLE RANGE (80 PERCENT)	\$3,500 \$3,000- 8,000 \$2,000-10,000	\$3,000 \$3,000- 4,000 \$2,000- 8,000	\$8+000 \$8+000-10+000 \$4+000-10+000	(6) (6) (6)	\$2,000 \$2,000- 3,500 \$2,000- 3,500	\$2,000 \$2,000- 3,500 \$2,000- 3,500	(6)	(6) (6)
10 YEARS OF SERVICE:	\$8,100	\$7,500	\$9,600	\$9,200	\$4.100	\$4,100	(6)	(6)
MEDIAN	\$10.000 \$6.500-10.000	\$10,000 \$6,000-10,000	\$10+000 \$10+000-10+000	(6)	\$2,000 \$2,000- 6,000	\$2+000 \$2+800- 6+000	(6) (6)	(6)
MIDDLE RANGE (80 PERCENT)		\$2,000-10,000	\$6+500-10+000	(6) \$10,300	\$2,000-6,000	\$2,000-6,000	(6)	(6)
MEDIAN	\$8,400 \$10,000	\$10+000	\$10.200 \$10.000 \$10.000-10.000	(6)	\$4 • 100 \$2 • 000	\$4,100 \$2,000	(6)	(6)
MIDDLE RANGE (80 PERCENT)		\$2,000-10,000	\$10,000-10,000	(6)	\$2,000- 6,000 \$2,000- 6,000	\$2,000- 6,000 \$2,000- 6,000	(6)	(6)

Table B-7. Life insurance plans for full-time workers in Minneapolis-St. Paul, Minn.-Wis., January 1978—Continued

		Production and	related workers			Office	workers	
Item	All ind	ustries	Manuf	acturing	All inc	lustries	Manuf	acturing
	All plans 17	Noncontributory plans 17	All plans 17	Noncontributory plans 17	All plans ¹⁷	Noncontributory plans 17	All plans 17	Noncontributory plans 17
TYPE OF PLAN AND AMOUNT OF INSURANCE-CONTINUED								
AMOUNT OF INSURANCE IS BASED ON A SCHEDULE WHICH INDICATES A SPECIFIED DULLAR AMOUNT OF INSURANCE FOR A SPECIFIED AMOUNT OF EARNINGS: PERCENT OF ALL FULL-TIME MORKERS ¹⁸ AMOUNT OF INSURANCE PROVIDED ¹⁹ IF: ANOUNT OF INSURANCE PROVIDED ¹⁹ IF: ANNUAL EARNINGS ARE \$5.000:	12	11	16	16	20	10	15	14
MEAN	\$6:400 \$5:000 \$5:000 5:000 \$4:500-11:000	\$6,200 \$5,000 \$5,000 - 5,000 \$5,000 - 10,400	\$6+600 \$5+000 \$5+000-10+000 \$5+000-12+500	\$6+600 \$5+000 \$5+000-10+000 \$5+000-12+500	\$9,400 \$8,000 \$5,000-15,000 \$5,000-15,000	\$6,700 \$5,000 \$5,000 7,000 \$5,000-12,500	\$5+700 \$5+000 \$5+000-5+000 \$5+000-10+000	\$5,500 \$5,000 \$5,000 5,000 \$5,000 5,000
MEAN	\$9,500 \$10,000 \$6,500-10,000 \$4,500-13,000	\$8,800 \$10,000 \$6,500~10,000 \$4,500-12,500	\$6+500 \$6+500 \$6+500-10+000 \$4+500-13+000	\$8+500 \$6+500 \$6+500-10+000 \$4+500-13+000	\$19*203 \$15*000 \$10*000-35*000 \$6*500-35*000	\$12+200 \$10+000 \$6+500-13+000 \$3+000-22+500	\$8*200 \$6*500 \$6*000-10*000 \$1*000-15*000	\$7,900 \$6,500 \$6,000-10,000 \$1,000-13,000
ANNUAL EARNINGS ARE \$15,000: MEAN	\$12+700 \$15+000 \$7+500-15+000 \$7+500-16+500	\$11,600 \$12,000 \$7,500-15,000 \$5,500-16,500	\$10+600 \$7+500 \$7+500-15+000 \$5+500-16+500	\$10+600 \$7+500 \$7+500-15+000 \$5+500-16+500	\$33,900 \$20,000 \$15,000-75,000 \$7,500-75,000	\$17,200 \$15,000 \$7,500-17,000 \$7,500-32,500	\$11+200 \$7+500 \$7+500-15+000 \$1+500-25+000	\$10+600 \$7+500 \$7+500-15+000 \$1+500-16+500
MEAN	\$16,000 \$20,000 \$9,000-20,000 \$9,000-22,000	\$14,300 \$12,000 \$9,000-20,000 \$6,000-20,500	\$12*700 \$9*000 \$9*000-20*000 \$6*000-22*000	\$12,700 \$9,000 \$9,000-20,000 \$6,000-22,000	\$44,000 \$25,000 \$20,000-99,900 \$9,000-99,900	\$20+100 \$20+000 \$9+000-23+000 \$9+000-\$2+500	\$14+100 \$9+000 \$9+000-20+000 \$2+000-35+000	\$13,100 \$9,000 \$9,000-20,000 \$2,000-20,500
AMOUNT OF INSURANCE IS EXPRESSED AS A FACTOR OF ANNUAL EARNINGS: 20 PERCENT OF ALL FULL-TIME MORKERS 18 FACTOR OF ANNUAL EARNINGS USED TO CALCULATE	13	12	14	14	37	28	53	44
AMOUNT OF INSURANCE: 19 20 MEAN MEDIAN MIDDLE RANGE (50 PERCENT) MIDDLE RANGE (60 PERCENT) PERCENT OF ALL FULL-TIME WORKERS COVERED BY	1.18 1.00 1.00-1.00 1.00-2.00	1.14 1.00 1.00-1.00 1.00-2.00	1.23 1.00 1.00-1.50 1.00-2.00	1.23 1.00 1.00-1.50 1.00-2.00	1.43 1.00 1.00-2.00 1.00-2.00	1.24 1.00 1.00-1.50 1.00-2.00	1.23 1.00 1.00-1.50 1.00-2.00	1,09 1,00 1,00-1,00 1,00-1,50
PLANS NOT SPECIFYING A MAXIMUM AMOUNT OF INSURANCE PERCENT OF ALL FULL-TIME MURKERS COVERED BY	11	11	14	14	24	19	46	37
PLANS SPECIFYING A MAXIMUM AMOUNT OF INSURANCE	2	2	1	1	13	9	7	7
MEDIAN	\$54,200 \$50,000 \$50,000- 50,000 \$40,000- 90,000	\$57+300 (6) (6) (6)	(6) (6) (6)	(6) (6) (6) (6)	\$158+100 \$150+000 \$50+000-300+000 \$50+000-300+000	\$106+600 \$50+000 \$50+000-150+000 \$50+000-150+000	\$202+900 \$100+000 \$50+000-250+000 \$15+000-750+000	\$212+500 \$100+000 \$50+000-250+000 \$15+000-750+000
AMOUNT OF INSURANCE IS BASED ON SOME OTHEK TYPE OF PLAM: PERCENT OF ALL FULL-TIME WORKERS 18	5	3	4,	, a	6	5	4	4

Footnotes

Some of these standard footnotes may not apply to this bulletin.

- 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.
- 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.
- 7 Formally established minimum regular straight-time hiring salaries that are paid for standard workweeks.
 - Excludes workers in subclerical jobs such as messenger.
- 9 Data are presented for all standard workweeks combined, and for the most common standard workweeks reported.
- 10 Includes all production and related workers in establishments currently operating late shifts, and establishments whose formal provisions cover late shifts, even though the establishments were not currently operating late shifts.
 - 11 Less than 0.05 percent.
 - Less than 0.5 percent.
- 13 All combinations of full and half days that add to the same amount; for example, the proportion of workers receiving a total of 10 days includes those with 10 full days and no half days, 9 full days and 2 half days, 8 full days and 4 half days, and so on. Proportions then were cumulated.

- 14 Includes payments other than "length of time." such as percentage of annual earnings or flat-sum payments, converted to an equivalent time basis: for example, 2 percent of annual earnings was considered as 1 week's pay. Periods of service are chosen arbitrarily and do not necessarily reflect individual provisions for progression; for example, changes in proportions at 10 years include changes between 5 and 10 years. Estimates are cumulative. Thus, the proportion eligible for at least 3 weeks' pay after 10 years includes those eligible for at least 3 weeks' pay after fewer years of service.
- 15 Estimates listed after type of benefit are for all plans for which at least a part of the cost is borne by the employer. "Noncontributory plans" include only those financed entirely by the employer. Excluded are legally required plans, such as workers' disability compensation, social se-
- curity, and railroad retirement.

 16 Unduplicated total of workers receiving sick leave or sickness and accident insurance shown separately below. Sick leave plans are limited to those which definitely establish at least the minimum number of days' pay that each employee can expect. Informal sick leave allowances determined on an individual basis are excluded.

17 Estimates under "All plans" relate to all plans for which at least a part of the cost is borne by the employer. Estimates under "Noncontributory plans" include only those financed entirely by the employer.

For "All industries," all full-time production and related workers or office workers equal 100 percent. For "Manufacturing," all full-time production and related workers or office workers in manufacturing equal 100 percent.

19 The mean amount is computed by multiplying the number of workers provided insurance by the amount of insurance provided, totaling the products, and dividing the sum by the number of workers. The median indicates that half of the workers are provided an amount equal to or smaller and half an amount equal to or larger than the amount shown. Middle range (50 percent)—a fourth of the workers are provided an amount equal to or less than the smaller amount and a fourth are provided an amount equal to or more than the larger amount. Middle range (80 percent)-10 percent of the workers are provided an amount equal to or less than the smaller amount and 10 percent are provided an amount equal to or more than the larger amount.

A factor of annual earnings is the number by which annual earnings are multiplied to determine the amount of insurance provided. For example, a factor of 2 indicates that for annual earnings of \$10,000 the amount of

insurance provided is \$ 20,000.

Appendix A. Scope and Method of Survey

In each of the 75 ¹ 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, 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.

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.

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 effect 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 2

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

Industrial nurses

Registered industrial nurses

Skilled maintenance

Carpenters Electricians

Skilled maintenance

Continued

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

Unskilled plant

Janitors, porters, and cleaners Material handling laborers

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

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

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

Establishment practices and supplementary wage provisions

The incidence of selected establishment practices and supplementary wage provisions is studied for full-time production and related workers and office workers. Production and related workers (referred to hereafter as production workers) include working supervisors and all nonsupervisory workers (including group leaders and trainees) engaged in fabricating, processing, assembling, inspection, receiving, storage, handling, packing, warehousing, shipping, maintenance, repair, janitorial and guard services, product development, auxiliary production for plant's own use (e.g., powerplant), and recordkeeping and other services closely associated with the above production operations. (Cafeteria and route workers

² The earnings of computer operators are not included in the wage trend computation for this group. A revised job description is being introduced in this survey which is not equivalent to the previous description.

are excluded in manufacturing industries but included in nonmanufacturing industries.) In finance and insurance, no workers are considered to be production workers. Office workers include working supervisors and all non-supervisory workers (including lead workers and trainees) performing clerical or related office functions in such departments as accounting, advertising, purchasing, collection, credit, finance, legal, payroll, personnel, sales, industrial relations, public relations, executive, or transportation. Administrative, executive, professional, and part-time employees as well as construction workers utilized as separate work forces are excluded from both the production and office worker categories.

Minimum entrance salaries (table B-1). Minimum entrance salaries for office workers relate only to the establishments visited. Because of the optimum sampling techniques used and the probability that large establishments are more likely than small establishments to have formal entrance rates above the subclerical level, the table is more representative of policies in medium and large establishments. (The "X's" shown under standard weekly hours indicate that no meaningful totals are applicable.)

Shift differentials—manufacturing (table B-2). Data were collected on policies of manufacturing establishments regarding pay differentials for production workers on late shifts. Establishments considered as having policies are those which (1) have provisions in writing covering the operation of late shifts, or (2) have operated late shifts at any time during the 12 months preceding a survey. When establishments have several differentials which vary by job, the differential applying to the majority of the production workers is recorded. When establishments have differentials which apply only to certain hours of work, the differential applying to the majority of the shift hours is recorded.

For purposes of this study, a late shift is either a second (evening) shift which ends at or near midnight or a third (night) shift which starts at or near midnight.

Differentials for second and third shifts are summarized separately for (1) establishment policies (an establishment's differentials are weighted by all production workers in the establishment at the time of the survey) and (2) effective practices (an establishment's differentials are weighted by production workers employed on the specified shift at the time of the survey).

Scheduled weekly hours; paid holidays; paid vacations; and health, insurance, and pension plans. Provisions which apply to a majority of the production or office workers in an establishment are considered to apply to all production or office workers in the establishment; a practice or provision is considered nonexistent when it applies to less than a majority. Holidays; vacations; and health, insurance, and pension plans are considered applicable to employees currently eligible for the benefits as well as to employees who will eventually become eligible.

Scheduled weekly hours and days (table B-3). Scheduled weekly hours and days refer to the number of hours and days per week which full-time first (day) shift workers are expected to work, whether paid for at straight-time or overtime rates.

Paid holidays (table B-4). Holidays are included if workers who are not required to work are paid for the time off and those required to work receive premium pay or compensatory time off. They are included only if they are granted annually on a formal basis (provided for in

written form or established by custom). Holidays are included even though in a particular year they fall on a nonworkday and employees are not granted another day off. Paid personal holiday plans, typically found in the automobile and related industries, are included as paid holidays.

Data are tabulated to show the percent of workers who (1) are granted specific numbers of whole and half holidays and (2) are granted specified amounts of total holiday time (whole and half holidays are aggregated).

Paid vacations (table B-5). Establishments report their method of calculating vacation pay (time basis, percent of annual earnings, flat-sum payment, etc.) and the amount of vacation pay granted. Only basic formal plans are reported. Vacation bonuses, vacation-savings plans, and "extended" or "sabbatical" benefits beyond basic plans are excluded.

For tabulating vacation pay granted, all provisions are expressed on a time basis. Vacation pay calculated on other than a time basis is converted to its equivalent time period. Two percent of annual earnings, for example, is tabulated as 1 week's vacation pay.

Also, provisions after each specified length of service are related to all production or office workers in an establishment regardless of length of service. Vacation plans commonly provide for a larger amount of vacation pay as service lengthens. Counts of production or office workers by length of service were not obtained. The tabulations of vacation pay granted present, therefore, statistical measures of these provisions rather than proportions of workers actually receiving specific benefits.

Health, insurance, and pension plans (tables B-6 and B-7). Health, insurance, and pension plans include plans for which the employer pays either all or part of the cost. The cost may be (1) underwritten by a commercial insurance company or nonprofit organization, (2) covered by a union fund to which the employer has contributed, or (3) borne directly by the employer out of operating funds or a fund set aside to cover the cost. A plan is included even though a majority of the employees in an establishment do not choose to participate in it because they are required to bear part of its cost (provided the choice to participate is available or will eventually become available to a majority). Legally required plans such as social security, railroad retirement, workers' disability compensation, and temporary disability insurance 3 are excluded.

3 Temporary disability insurance which provides benefits to covered workers disabled by injury or illness which is not work-connected is mandatory under State laws in California, New Jersey, New York. and Rhode Island. Establishment plans which meet only the legal requirements are excluded from these data, but those under which (1) employers contribute more than is legally required or (2) benefits exceed those specified in the State law are included. In Rhode Island, benefits are paid out of a State fund to which only employees contribute. In each of the other three States, benefits are paid either from a State fund or through a private plan.

State fund financing: In California, only employees contribute to the State fund; in New Jersey, employees and employers contribute; in New York, employees contribute up to a specified maximum and employers pay the difference between the employees' share and the total contribution required.

Private plan financing: In California and New Jersey, employees cannot be required to contribute more than they would if they were covered by the State fund; in New York, employees can agree to contribute more if the State rules that the additional contribution is commensurate with the benefit provided.

Federal legislation (Railroad Unemployment Insurance Act) provides temporary disability insurance benefits to railroad workers for illness or injury, whether work-connected or not. The legislation requires that employers bear the entire cost of the insurance.

Life insurance includes formal plans providing indemnity (usually through an insurance policy) in case of death of the covered worker. Information is also provided in table B-7 on types of life insurance plans and the amount of coverage in all industries combined and in manufacturing.

Accidental death and dismemberment insurance is limited to plans which provide benefit payments in case of death or loss of limb or sight as a direct result of an accident.

Sickness and accident insurance includes only those plans which provide that predetermined cash payments be made directly to employees who lose time from work because of illness or injury, e.g., \$50 a week for up to 26 weeks of disability.

Sick leave plans are limited to formal plans 4 which provide for continuing an employee's pay during absence from work because of illness. Data collected distinguish between (1) plans which provide full pay with no waiting period, and (2) plans which either provide partial pay or require a waiting period.

Long-term disability insurance plans provide payments to totally disabled employees upon the expiration of their paid sick leave and/or sickness and accident insurance, or after a predetermined period of disability (typically 6 months). Payments are made until the end of the disability, a maximum age, or eligibility for retirement benefits. Full or partial payments are almost always reduced by social security, workers' disability compensation, and private pension benefits payable to the disabled employee.

Hospitalization, surgical, and medical insurance plans reported in these surveys provide full or partial payment for basic services rendered. Hospitalization insurance covers hospital room and board and may cover other hospital expenses. Surgical insurance covers surgeons' fees. Medical insurance covers doctors' fees for home, office, or hospital calls. Plans restricted to post-operative medical care or a doctor's care for minor ailments at a worker's place of employment are not considered to be medical insurance.

Major medical insurance coverage applies to services which go beyond the basic services covered under hospitalization, surgical, and medical insurance. Major medical insurance typically (1) requires that a "deductible" (e.g., \$50) be met before benefits begin, (2) has a coinsurance feature that requires the insured to pay a portion (e.g., 20 percent) of certain expenses, and (3) has a specified dollar maximum of benefits (e.g., \$10,000 a year).

Dental insurance plans provide normal dental service benefits, usually for fillings, extractions, and X-rays. Plans which provide benefits only for oral surgery or repairing accident damage are not reported.

Retirement pension plans provide for regular payments to the retiree for life. Included are deferred profit-sharing plans which provide the option of purchasing a lifetime annuity.

Labor-management agreement coverage

The following tabulation shows the percent of full-time production and office workers employed in establishments in the Minneapolis-St. Paul area in which a union contract or contracts covered a majority of the workers in the respective categories, January 1978:

	Production and related workers	Office workers
All industries	68	9
Manufacturing	66	3
Nonmanufacturing	69	13
Public utilities	98	60

An establishment is considered to have a contract covering all production or office workers if a majority of such workers is covered by a labor-management agreement. Therefore, all other production or office workers are employed in establishments that either do not have labor-management contracts in effect, or have contracts that apply to fewer than half of their production or office workers. Estimates are not necessarily representative of the extent to which all workers in the area may be covered by the provisions of labor-management agreements, because small establishments are excluded and the industrial scope of the survey is limited.

Industrial composition in manufacturing

Two-fifths of the workers within the scope of the survey in the Minneapolis—St. Paul area were employed in manufacturing firms. The following presents the major industry groups and specific industries as a percent of all manufacturing:

Industry groups		Specific industry	
Machinery, except		Office and computing	
electrical	24	machines	11
Paper and allied products	13	Miscellaneous converted	
Food and kindred products	10	paper products	10
Electric and electronic		Measuring and controlling	
equipment	10	devices	8
Instruments and related			
products	10		
Printing and publishing	7		
Fabricated metal products	7		

This information is based on estimates of total employment derived from universe material compiled before actual survey. Proportions in various industry divisions may differ from proportions based on the results of the survey as shown in appendix table 1.

⁴ An establishment is considered as having a formal plan if it specifies at least the minimum number of days of sick leave available to each employee. Such a plan need not be written, but informal sick leave allowances determined on an individual basis are excluded.

Appendix table 1. Establishments and workers within scope of survey and number studied in Minneapolis—St. Paul, Minn.—Wis., January 1978

	Minimum	Number of es	f establishments Workers in establishments		Workers in establishments				
Industry division 2	employment in establish-					cope of study		Studied	
mustry division	ments in scope of study	Within scope of study ³	Studied	Total	Total ⁴ Full-time Full-time	Full-time	Judied		
	of study			Number	Percent	production and related workers	office workers	Total ⁴	
ALL ESTABLISHMENTS									
ALL DIVISIONS	-	1+829	249	464.860	100	191:896	88+991	220,742	
NUFACTURING	50	555	93	185,901	40	98,725	32+193	107,419	
DNMANUFACTURING	_	1.274	156	278,959	60	93,171	561798	113,323	
TRANSPORTATION, COMMUNICATION, AND	1					737411	301770		
OTHER PUBLIC UTILITIES 5	5 û	124	23	49,048	11	21,835	8 = 550	33,470	
WHOLESALE TRADE	5 0	272	24	36 - 701	8	(6)	(6)	8 - 241	
RETAIL TRADE	50	414	38	105:227	23	(6)	(6)	45+074	
FINANCE, INSURANCE, AND REAL ESTATE	50	183	19	44.740	10	(6)	(6)	14,097	
SERVICES 7	50	251	52	43,243	9	(6)	(6)	12,441	
LARGE ESTABLISHMENTS									
ALL DIVISIONS	_	156	87	244+655	100	92.707	49+597	191.114	
NUFACTURING	500	53	37	110,179	45	48 * 166	23+359	96+425	
NMANUFACTURING	_	103	50	134,476	55	44,541	26+238	94+689	
THANSPORTATION, COMMUNICATION, AND								,	
OTHER PUBLIC UTILITIES 5	500	13	11	32,623	13	13.716	6+309	31.158	
WHOLESALE TRADE	500	9	5	9+253	4	(6)	(6)	5 • 4 3 5	
RETAIL TRADE	500	53	19	65+881	27	(6)	(6)	42,250	
FINANCE, INSURANCE, AND REAL ESTATE	500	21	10	22+122	9	(6)	(6)	12.457	
SERVICES 7	500	7	5	4+597	2	(6)	(6)	3 + 38 9	

The Minneapolis-St. Paul Standard Metropolitan Statistical Area, as defined by the Office of Management and Budget through February 1974, consists of Anoka, Carver, Chisago, Dakota, Hennepin, Ramsey, Scott, Washington, and Wright Counties, Minn.; and St. Croix County, Wis. 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 comparision 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 to classify establishments by industry division. However, all government operations are excluded from the scope of the survey.

Jincludes 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 executive, professional, part-time, and other workers excluded from the separate production and office categories.

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

Separate presentation of data is not made for this division.

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

Appendix B. Occupational Descriptions

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

Office

SECRET ARY

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:

SECRETARY—Continued

Exclusions-Continued

- 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;

Listed below are several occupations for which revised descriptions or titles are being introduced in this survey:

Order clerk
Payroll clerk
Secretary
Key entry operator
Transcribing-machine typist
Computer operator

Guard Shipper and receiver (previously surveyed as shipping and receiving clerk) Truckdriver

The Bureau has discontinued collecting data for tabulating-machine operator. Workers previously classified as watchmen are now classified as guards under the revised description.

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.

- LS-1 a. Secretary to the supervisor or head of a small organizational unit (e.g., fewer than about 25 or 30 persons); or
 - b. Secretary to a nonsupervisory staff specialist, professional employee, administrative officer or assistant, skilled technician or expert. (NOTE: Many companies assign stenographers, rather than secretaries as described above, to this level of supervisory or nonsupervisory worker.)
- 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

Classification by Level-Continued

- e. Secretary to the head of a large and important organizational segment (e.g., a middle management supervisor of an organizational segment often involving as many as several hundred persons) of a company that employs, in all, over 25,000 persons.
- LS-4 a. Secretary to the chairman of the board or president of a company that employs, in all, over 100 but fewer than 5,000 persons; or
 - b. Secretary to a corporate officer (other than the chairman of the board or president) of a company that employs, in all, over 5,000 but fewer than 25,000 persons; or
 - c. Secretary to the head, immediately below the corporate officer level, of a major segment or subsidiary of a company that employs, in all, over 25,000 persons.

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

- 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.
- 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 LS-2 LS-3 LS-4	Class E Class D Class C Class B	Class D Class C 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 of the specific business operations, organization, policies, procedures, files, workflow, etc. Uses this knowledge in performing stenographic duties and responsible clerical tasks such as maintaining follow-up files; assembling material for reports, memoranda, and letters; composing simple letters from general instructions; reading and routing incoming mail; and answering routine questions, etc.

TRANSCRIBING-MACHINE TYPIST

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

TYPIST

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

<u>Class A.</u> 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.

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

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

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

MESSENGER

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

SWITCHBOARD OPERATOR

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

SWITCHBOARD OPERATOR-RECEPTIONIST

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

ORDER CLERK

Receives written or verbal customers' purchase orders for material or merchandise from customers or sales people. Work typically involves some combination of the following duties: Quoting prices; determining availability of ordered items and suggesting substitutes when necessary; advising expected delivery date and method of delivery; recording order and customer information on order sheets; checking order sheets for accuracy and

adequacy of information recorded; ascertaining credit rating of customer; furnishing customer with acknowledgement of receipt of order; following-up to see that order is delivered by the specified date or to let customer know of a delay in delivery; maintaining order file; checking shipping invoice against original order.

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

Positions are classified into levels according to the following definitions:

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

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

ACCOUNTING CLERK

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

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

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

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

ACCOUNTING CLERK-Continued

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.

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

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

MACHINE BILLER

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

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

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

PAYROLL CLERK

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

PAYROLL CLERK-Continued

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

KEY ENTRY OPERATOR

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

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

<u>Class A.</u> Work requires the application of experience and judgment in selecting procedures to be followed and in searching for, interpreting, selecting, or coding items to be entered from a variety of source documents. On occasion may also perform routine work as described for class B.

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

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

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, 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.

<u>Class C.</u> 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:

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

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

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

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

OR

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

May guide or instruct lower level programmers.

<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

In accordance with operating instructions, monitors and operates the control console of a digital computer to process data. Executes runs by either serial processing (processes one program at a time) or multiprocessing (processes two or more programs simultaneously). The following duties characterize the work of a computer operator:

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

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

 ${\it Class}$ A. In addition to work assignments described for a class B operator (see below) the work of a class A operator involves at least one of the following:

- Deviates from standard procedures to avoid the loss of information or to conserve computer time even though the procedures applied materially alter the computer unit's production plans.
- Tests new programs, applications, and procedures.
- Advises programmers and subject-matter experts on setup techniques.
- Assists in (1) maintaining, modifying, and developing operating systems or programs; (2) developing operating instructions and techniques to cover problem situations; and/or (3) switching to emergency backup procedures (such assistance requires a working knowledge of program language, computer features, and software systems).

An operator at this level typically guides lower level operators.

COMPUTER OPERATOR-Continued

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

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

PERIPHERAL EQUIPMENT OPERATOR

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

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

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

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

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

DRAFTER

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.

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

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

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

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

<u>Class C.</u> 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 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 hand-tools and precision measuring instruments; setting up and operating standard machine tools; shaping of metal parts to close tolerances; making standard shop computations relating to dimensions of work, tooling, feeds, and speeds of machining; knowledge of the working properties of the common metals; selecting standard materials, parts, and equipment required for this work; and fitting and assembling parts into mechanical equipment. In general, the machinist's work normally requires a rounded training in machine-shop practice usually acquired through a formal apprenticeship or equivalent training and experience.

MAINTENANCE MECHANIC (MACHINERY)

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

MAINTENANCE MECHANIC (MOTOR VEHICLE)

Repairs automobiles, buses, motortrucks, and tractors of an establishment. Work involves most of the following: Examining automotive equipment to diagnose source of trouble; disassembling equipment and performing repairs that involve the use of such handtools as wrenches, gauges.

drills, or specialized equipment in disassembling or fitting parts; replacing broken or defective parts from stock; grinding and adjusting valves; reassembling and installing the various assemblies in the vehicle and making necessary adjustments; and aligning wheels, adjusting brakes and lights, or tightening body bolts. In general, the work of the motor vehicle maintenance mechanic requires rounded training and experience usually acquired through a formal apprenticeship or equivalent training and experience.

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

MAINTENANCE PIPEFITTER

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

MAINTENANCE SHEET-METAL WORKER

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

MILLWRIGHT

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

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

MACHINE-TOOL OPERATOR (TOOLROOM)

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

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

TOOL AND DIE MAKER

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

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

STATIONARY ENGINEER

Operates and maintains 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 and 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.

SHIPPER AND RECEIVER-Continued

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 storage plan. 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 <u>primary</u> duties involve shipping and receiving work (see Shipper and Receiver and Shipping Packer), order filling (see Order Filler), or operating power trucks (see Power-Truck Operator).

ORDER FILLER

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

SHIPPING PACKER

Prepares finished products for shipment or storage by placing them in shipping containers, the specific operations performed being dependent upon the type, size, and number of units to be packed, the type of container employed, and method of shipment. Work requires the placing of items in shipping containers and may involve one or more of the following: Knowledge of various items of stock in order to verify content; selection of appropriate type and size of container; inserting enclosures in container; using excelsior or other material to prevent breakage or damage; closing and sealing container; and applying labels or entering identifying data on container. Packers who also make wooden boxes or crates are excluded.

MATERIAL HANDLING LABORER

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

POWER-TRUCK OPERATOR

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

For wage study purposes, workers are classified by type of 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.

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.

Area		Bulletin number 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 1977	1950-17,	\$1.20		
Baltimore Md Aug 1977	1950-39,	\$1.20		
Billings, Mont., July 1977	1950-40,	\$1.00		
Birmingham, Ala., Mar. 1977	1950-8,			
Boston, Mass., Aug. 1977	1950-50,			
Buffalo, N.Y., Oct. 1977	1950-58,			
Canton, Ohio, May 1977 1	1950-28,			
Chattanooga, TennGa., Sept. 1977	1950-44,			
Chicago, III., May 1977 Cincinnati, Ohio-Ky-Ind., July 1977 Cincinnati, Ohio-Ky-Ind., Ohio	1950-41,			
Cincinnati, Ohio-Ky-Ind., July 1977	1950-45,			
Cleveland, Ohio, Sept. 1977	1950-53,			
Columbus, Ohio, Oct. 1977Corpus Christi, Tex., July 1977 1	1950-64,			
Corpus Christi, Tex., July 1977	1950-35,			
Dallas-Fort Worth, Tex., Oct. 1977	1950-65,			
Davenport-Rock Island-Moline, Iowa-Ill., May 1977	1950-26,			
Dayton, Ohio, Dec. 1977 Daytona Beach, Fla., Aug. 1977 Denver-Boulder, Colo., Dec. 1977 Denver-Boulder, Denver-Bould	1950-71,			
Daytona Beach, Fla., Aug. 1977	1950-43,			
Denver-Boulder, Colo., Dec. 1977	1950-74,			
Detroit, Mich., Mar. 1977	1950-13,			
Fresno, Calif., June 1977	1950-30,			
Gainesville, Fla., Sept. 1977 1	1950-46, 1950-36,			
Green Bay, Wis., July 1977	1950-36,	70 Cents		
Greensboro-Winston-Salem-High Point, N.C., Aug. 1977	1950-42,	¢1 10		
Greenville-Spartanburg, S.C., June 1977	1950-33.	T		
Hartford, Conn., Mar. 1977	1950-9,			
Houston, Tex., Aug. 1977				
Huntsville, Ala., Feb. 1977	1950-4,	\$1.40		
Indianapolis, Ind., Oct. 1977	1950-56,			
Jackson, Miss., Jan. 1978	2025-1,			
Jacksonville, Fla., Dec. 1977	1950-67.			
Kansas City, MoKans., Sept. 1977.	1950-54,			
Los Angeles-Long Beach, Calif., Oct. 1977	1950-61.			
Louisville, Ky-Ind., Nov. 1977	1950-66.			
Memphis, Tenn.—Ark.—Miss., Nov. 1977				
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Area		Bulletin number and price*		
Miami, Fla., Oct. 1977	1950-57,	\$1.00		
Milwaukee, Wis., Apr. 1977	1950-14,			
Milwaukee, Wis., Apr. 1977 Minneapolis—St. Paul, Minn.—Wis., Jan. 1978 1	2025-2,			
Nassau-Suffolk, N.Y., June 1977	1950-27.			
Newark, N.J., Jan. 1977	1950-7,	\$1.60		
Newark, N.J., Jan. 1977	1950-5,			
New York, N.YN.J., May 1977	1950-31,	\$1.20		
Norfolk-Virginia Beach-Portsmouth, Va-		·		
N.C., May 1977	1950-20,	70 cents		
Norfolk-Virginia Beach-Portsmouth and				
Newport News-Hampton, VaN.C., May 1977	1950-21,	70 cents		
Northeast Pennsylvania, Aug. 1977 1	1950-38,	\$1.10		
Oklahoma City, Okla., Aug. 1977 1	1950-49,	\$1.10		
Omaha, NebrIowa, Oct. 1977 1	1950-55,			
Paterson-Clifton-Passaic, N.J., June 1977	1950-34.	70 cents		
Philadelphia, PaN.J., Nov. 1977	1950-62,	\$1.20		
Pittsburgh, Pa., Jan. 1977	1950-1,			
Portland, Maine, Dec. 1977	1950-69.			
Portland, OregWash., May 19771	1950-32.			
Poughkeepsie, N.Y., June 1977	1950-25.			
Poughkeepsie-Kingston-Newburgh, N.Y., June 1976	1900-55,	55 cents		
Providence-Warwick-Pawtucket, R.I				
Mass., June 1977 1	1950-22,	\$1.20		
Mass., June 1977 1 Richmond, Va., June 1977 1	1950-23,	\$1.10		
St. Louis, MoIll., Mar. 1977	1950-10,	\$1.20		
St. Louis, MoIII., Mar. 1977Sacramento, Calif., Dec. 1977 1	1950-72,	\$1.00		
Saginaw, Mich., Nov. 1977	1950-59,	70 cents		
Salt Lake City-Ogden, Utah, Nov. 1977	1950-68.	80 cents		
San Antonio, Tex., May 1977	1950-24,	\$1.10		
San Antonio, Tex., May 1977 ¹ San Diego, Calif., Nov. 1977 ¹	1950-73,	\$1.10		
San Francisco-Oakland, Calif., Mar. 1977	1950-29,			
San Jose, Calif., Mar. 1977	1950-19,			
Seattle-Everett, Wash., Dec. 1977	1950-75,			
South Bend, Ind., Aug. 1977				
Toledo, Ohio-Mich., May 1977	1950-18,			
Trenton, N.J., Sept. 1977				
Trenton, N.J., Sept. 1977	1950-37,			
Washington, D.CMdVa., Mar. 1977	1950-11,			
Wichita, Kans., Apr. 1977	1950-16.			
Worcester, Mass., Apr. 1977	1950-15,			
York, Pa., Feb. 1977	1950-6,			

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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