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Area 1950-54 Wage Survey

# Kansas City, Missouri—Kansas, Metropolitan Area September 1977



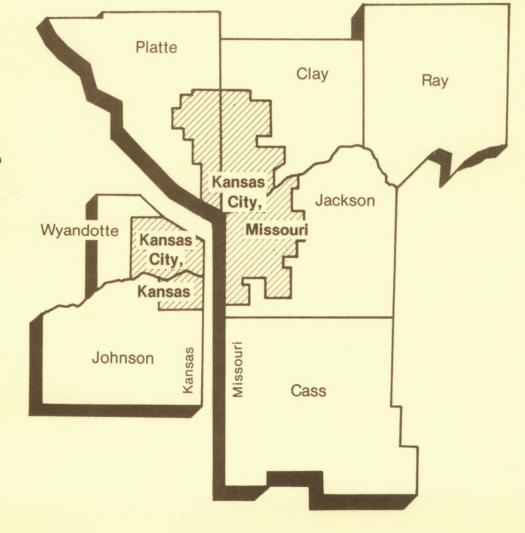
Bulletin 1950-54

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## **Preface**

This bulletin provides results of a September 1977 survey of occupational earnings in the Kansas City, Missouri-Kansas, 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 Kansas City, Mo., under the general direction of Edward Chaiken, 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 Kansas City area are available for the nursing homes (May 1976) and banking (November 1976) industries. Also available are listings of union wage rates for building trades, printing trades, local-transit operating employees, local truckdrivers and helpers, and grocery store employees. Free copies of these are available from the Bureau's regional offices. (See back cover for addresses.)

# Area Wage Survey

# Kansas City, Missouri—Kansas, Metropolitan Area September 1977

U.S. Department of Labor Ray Marshall, Secretary Bureau of Labor Statistics Julius Shiskin, Commissioner January 1978

Bulletin 1950-54



Contents	Page		Pag
Introduction	2	A-12. Hourly earnings of material	

A.	Earni	ngs, all establishments:	
	A-1.	Weekly earnings of office workers	
	A-2.	Weekly earnings of profes- sional and technical workers	
	A-3.	Average weekly earnings of office, professional, and technical workers, by sex	
	A-4.	Hourly earnings of mainte- nance, tool room, and powerplant workers	1
	A=5.	Hourly earnings of material movement and custodial workers	1
	A-6.	Average hourly earnings of maintenance, tool room, powerplant, material movement, and custodial workers, by sex	1
	A-7.	Percent increases in average hourly earnings, adjusted for employment shifts, for se-'lected occupational groups	1
Ear	nings.	large establishments:	
		Weekly earnings of office workers	1
	A-9.	Weekly earnings of profes- sional and technical workers	1
	A-10.	Average weekly earnings of office, professional, and	,
	A-11.	technical workers, by sex Hourly earnings of mainte- nance, tool room, and	1
		powerplant workers	2

A-12.	movement and custodial workers	21
A-13.	Average hourly earnings of maintenance, tool room, powerplant, material move- ment, and custodial workers,	
	by sex	22
Appendix A.	Scope and method of survey	24
Appendix B.	Occupational descriptions	2.7

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## Introduction

This area is 1 of 74 in which the U.S. Department of Labor's Bureau of Labor Statistics conducts surveys of occupational earnings and related benefits. (See list of areas on inside back cover.) In each area, occupational earnings data (A-series tables) are collected annually. Information on establishment practices and supplementary wage benefits (B-series tables) is obtained every third year. This report has no B-series tables.

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

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

#### A-series tables

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

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

#### Appendixes

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

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

## A. Earnings

Table A-1. Weekly earnings of office workers in Kansas City, Mo.—Kans., September 1977

					y earnings <sup>1</sup> andard)	Numi	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 <sup>1</sup> (standard)	Mean <sup>2</sup>	Median <sup>2</sup>	Middle range <sup>2</sup>	and under	100	110	120	130	140	150 -	160	170	180	190	200	-	\$ 220 - 240	- 240	-	-	300	320	340	an
ALL WORKERS																										
ECRETARIES	3,387	39.5	194.53	184.03	\$ 162.00-218.50	-	2	7	73	75	252	360	333	356	416	266	212	227	290	241	107	63	37	31	22	
MANUFACTURING	382				172.00-226.00		-	-		10						69	75	58	100	59	21	17	17	8	15	
NONHANUFACTURING	2,505				161.00-216.50		2	7	63	65		286					136	159	190	182	86	46	20	23	7	
PUBLIC UTILITIES	413				209.00-270.50		-	-	-	-	2		16	9	29	19	26	19	74	78	55	41	14	22	7	
RETAIL TRADE	241	40.0	193.50	188.50	167.00-214.00	-	-	-	4	1	26	14	22	22	34	28	18	17	20	26	8	1	-	-	-	
SECRETARIES. CLASS A	231	40.0	219.50	218.50	181.50-243.50	-	-	-	4	1	-	6	27	12	14	34	1	23	37	34	12	13	4	4	1	
MANUFACTURING	52				180.50-256.00		-	-	-	-	-	4	1	8	4	10	1	4	3	6	6	2	-	-	-	
NONMANUFACTURING	179				181.50-241.50		-	-	4	1	-	2	26	4	10	24	-	19	34	28	6	11	4	4	1	
SECRETARIES. CLASS B	201	73 5	202 03	137 53	17# 50-320 03				,		. 1	0.7	54	E4	157	90	81	58	75	77	30	1.5	4	В	8	
MANUFACTURING	891 193				174.50-220.00		- 0		,	4	11	97	3	17	28	12	15	13	29	29	9	2		1	4	
NONMANUFACTURING	698				168.00-215.00				7	4	30	88	51		129	78	66	55		48	21		4	7	4	
PUBLIC UTILITIES	87				207.00-280.50		-	_	,	-	-	-	-	-	12	8	11	2	8	3	15	12	1	7		
RETAIL TRADE	80				155.50-192.00		-	_	-	-	16	8	10	-	23	11	2	4	-	3	3	-	-	-	_	
																					-					
SECRETARIES. CLASS C					166.00-215.00		-	-	16	35				199				112				23	21	8	13	
MANUFACTURING	415				176.00-226.00		-	-	5	4	13		27		56	33	45	36		13	6	10	16	5	11	
NONMANUFACTURING	1.012				163.50-211.00		-	-	11	31		109		147		75	52	76		69		13	5	3	2	
RETAIL TRADE	194				221.00-260.50 165.00-205.00		-	_	_	-	8	5	11	12	7	3	11	12	30	59	36	13	3	2	2	
		1 3300																								
SECRETARIES. CLASS D	795				148.50-197.00		2	7	50	-	122		36	84	61		28	13		45	8	11	8	11	-	
MANUFACTURING	222				154.00-193.00			-	5	6	39	39	27	26	22	14	15	5		11		3	1	2	-	
NONAANUFACTURINS	573 114				148.00-202.00		2	7	45	29	83	87	59	58	39 10	16	13	5		34	8	8	7	9	-	
Page 10 Mile 11123	114	43.0	231.30	221.50	178.50-252.50			_			2	-		2	10	,		,	3,		•	,	'	,		
TENOGRAPHERS					156.50-207.00		-	14	35		147		147		183		61	34		67	73	32	9	2	-	
MANUFACTURING	304				157.50-219.50		-	-	-	25	39	17	36	34	41	30	2	4		10	6	3	2	1	-	
NONHANUFACTURING	967				156.50-207.00		-	14	35		108		111		142		59	30		57		29	7	1	-	A
PUBLIC UTILITIES	243	40.0	227.50	232.50	190.00-271.50	-	-	-	-	6	10	16	5	6	20	9	24	12	26	36	47	23	7	1	-	
STENOGRAPHERS. GENERAL	599	39.5	175.50	163.50	146.00-184.00	-	-	14	33	50	110	- 31	83	19	117	13	22	14	37	18	26	12	-	-	-	
MANUFACTURING	135	40.0	172.50	159.00	143.50-203.00	-	-	-	-	23	32	13	27	1	1	3	2	2	24	4	3	\ <del>-</del>	-	-	-	
NONMANUFACTURING	464				148.00-184.00		-	14	33	27	78	18	56		116	10	20	12		14		12	-	-	-	
PUBLIC UTILITIES	86	40.0	231.50	240.00	200.00-269.00	-	-	-	-	-	2	4	1	2	9	4	4	3	11	12	17	12		-	-	
STENOGRAPHERS. SENIOR	672	40-0	199.50	195-00	167.50-223.50	_	-	_	2	16	37	56	64	66	66	126	34	20	53	49	47	20	9	2	-	
MANUFACTURING	169				176.00-220.00		-	_	_	2	7	4	9	33	40	27	-	2	30	6	3	3	2	1	-	
NONHANUFACTURING	503				165.50-225.50		-	-	2	14	30	52		33	26	99	39	15	23	43	44	17	7	1	-	
PUBLIC UTILITIES	162				190.00-271.50		-	-	-	6	8	12	4	4	11	5	15	4	15	24	30	11	7	1	-	
SISINVI TATHONA-SAIRINOSAN	396	33.0	142.00	141.50	122.00-154.50	_	33	21	89	35	101	40	43	20	5	1	_	5	_		-	3	_	_	_	
MANUFACTURING	81				148.50-165.50		1	-	7	4	15	7	30	15	2	-	_	_	_	_	_		-	-	_	
NONMANUFACTURING	315				121.00-143.50		32	21			86	33	13	5	3	1	-	5	-	-	_	3	-	-	_	
YPISTS					115.00-153.50			170				91	54	57	45	24	13	15		5	5	10	1	1	-	
MANUFACTURING	187				127.50-155.00		11			29	30	40			3	3	4	-	1	-	-	-	-	1	-	
NONKANUFACTURING					114.00-148.00			157				51		46	42	21	9	15		5		10	1	-	-	
PUBLIC UTILITIES	144				152.00-234.50		1			12	9	5			6	10	5	15		5	5	10	1	-	-	
RETAIL TRADE	67	1 40 -0	1157-50	152.00	133.50-186.00	- 1	-	11	1	11	10	2	7	2	14	8	-	-	1	-	-	-	-	-	-	

Table A-1. Weekly earnings of office workers in Kansas City, Mo.-Kans., September 1977—Continued

					y earnings <sup>1</sup> andard)									ekly ea												
	Number	Average weekly												170					\$ 222						\$ 340	\$
Occupation and industry division	of workers	hours 1 (standard)	Mean 2	Median <sup>2</sup>	Middle range <sup>2</sup>	and under	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	an
ALL #ORKERS CONTINUED						100	110	120	130	140	150	160	170	180	190	200	210	220	240	260	280	300	320	340	360	ov
TYPISTS - CONTINUED																										
TYPISTS. CLASS A	551	39.5	\$ 154.50	\$ 144.03	\$ 130.50-171.50	-	31	21	81	79	104	51	42	35	29	21	10	12	17	5	3	3	1	1	_	
MANUFACTURINS					138.50-168.00	- 5	4	4	7	8	8	24	В	7	2	2	4	-	1	-	-	-	-	1	-	
NONMANUFACTURING					129.50-172.50 166.50-235.50	-	27	17	74	71	96	27	34 17	28	27	19	2	12		5	3	8	1	-	-	
TYPISTS, CLASS B					111.00-138.00			149		103	63	40	12	22	16	3	3	ذ	6	-	2	2	-	-	-	
MANUFACTURING					125.00-148.50	- 42	133	140	24 113	21 82	22	16	10	18	1 15	1 2	3	3	-	_	2	2	_	-	_	
PUBLIC UTILITIES					137.50-208.50		1	4	8	11	1	4	4	-	3	2	3	3	5	-	2	2	-	-	-	
FILE CLERKS					107.00-143.00 110.00-131.50	132	175 5	189 24	202 21	51 5	52 3	54	30 7	20	15	28	6	5	23	21	21	4	1	-	-	
NONHANUFACTURING					107.00-144.00		170		181	46	49	52	23	20	12	28	b	5	23	21	21	4	1	_	- 2	
PUBLIC UTILITIES					182.50-248.00	-		-	-	-	-	10	4	10	12	6	6	3	21	21	21	4	1	-	-	
FILE CLERKS. CLASS A	143	39.5	192.50	180.50	157.50-248.00		-	6	9	4	9	25	10	7	11	7	3	5	7	20	16	3	1	-	-	
NONMANUFACTURING					157.50-248.00		-	6	9	2	9	24	9	7	9	7	3	5	7	20	16	3	1	-	-	
PUBLIC UTILITIES	1 22				201.00-270.00		-	-	-	-	-	-	-	5	9	2	3	3	5	20	16	3	1	-	-	
FILE CLERKS. CLASS 3					109.50-144.50		106		133	19	22	24	19	13	4	21	3	-	16	1	5	1	-	-	-	
PUBLIC UTILITIES					138.00-149.00 170.30-235.50	23	106	33	113	16	19	28 10	13	13	3	21	3	-	15 15	1	5	1	_	-	-	
FILE CLERKS, CLASS C					98.00-120.00 98.00-120.00			136 126	60 59	28 28	21 21	-	1	-	-	-	-	-	-	-	-	-	-	-		
MESSENGERS	350				110.50-132.50		53	90	86	29	26	5	5	В	2	2	1	3	10	9	1	1	-	-	-	
MANUFACTURING					112.00-128.00	9	4	24	12	3	3	1			1		-	3	-	-	-	-	-	-	-	
NON# NUFACTURING					110.50-134.00 143.50-235.50	10	49	-	74	26	23 15	4	3	6	1	1	1	-	10	9	1	1	-	-	-	
SWITCHBOARD OPERATORS					122.00-170.00	1	18		131	40	17	12	20	13	15	10	1	3		16	3	1	2	-	-	
NONMANUFACTURING					122.00-164.50 173.00-256.50	1	18	8 -	130	38 4	12	10	18	8	6	8	_	1	18	15 15	3	-	-	_	-	
WITCHBOARD OPERATOR-RECEPTIONISTS-	519				130.50-164.50	-	22	58	46	92	82	36	92	30	17	16	1	2	5	7	-	1	2	9	1	
MANUFACTURING					124.50-161.50	-	4	32	12	21	39	12	40	10	3	8	-	-	2	-	-	-	-	-	1	
PUBLIC UTILITIES					133.00-164.50 150.00-302.00	-	18	26	34	71	43	24	52 1	20	14	8	1	2	3	7	-	1			-	
RETAIL TRADE					130.50-143.00	-	17	-	-	40	10	-	В	-	-	2	-	-	1	-	-	1	-	9	-	
ORDER CLERKS					140.00-208.00		4	23	82	48	35	40	56	39	58		116	77	43	22	3		6	-		
MANUFACTURING					132.50-191.50	-	4	3	25	9	17	23	8	9	6	10	14	7	2	1	3	2	2	-	-	
NONHANUFACTURING	544	39.5	182.50	188.00	144.00-210.00	8	-	20	57	39	18	17	48	30	52	4	102	70	45	21	-	В	4	-	-	
ORDER CLERKS, CLASS A MANUFACTURING					132.00-210.50 150.00-210.50	-	-	-	17	22	7	18 18	-	2	6	-	2	4	2 2	-	3	10	6 2	-	-	
ORDER CLERKS. CLASS B				0.000	144.00-208.00	8	4	23	65	26	28	22	56	37	52	14	114	73		22	_	_	_	_	_	
MANUFACTURING	94	40.0	156.50	154.00	126.00-191.50	-	4	3	25	4	10	5	8	7	2	10	12	3	-	1	-	-	-	-	-	
NONHANUFACTURING	496	39.5	183.50	188.00	150.00-210.00	8	-	20	40	22	18	17	48	30	50	4	102	70	46	21	-	-	-	-	-	*

Table A-1. Weekly earnings of office workers in Kansas City, Mo.-Kans., September 1977—Continued

					y earnings <sup>1</sup> andard)			worke																		
	Number	Average weekly						110													260					360
Occupation and industry division	of workers	hours i (standard)	Mean 2	Median <sup>2</sup>	Middle range <sup>2</sup>	and under	-	-	-	-	-	-	-	-	-	-	-	-	-	-	- 280	-	-	-	-	and
ALL WORKERS						100	110	120	130	140	190	100	170	100	170	200	210	220	240	200	200	300	320	340	300	ove.
CONTINUED			\$	\$	\$ \$																					
ACCOUNTING CLERKS	4 • 355				138.00-213.50		108	264 13	314 75	398	388 73	439 56	78	233	199	185		171		255	241	143	48	10	8	
NONHANUFACTURING					138.00-217.00										-		152				241	148	47	11	2	
PUBLIC UTILITIES	1.065				199.50-271.50		-	5	10	28	30	13		41	33	61	64	55	129	168	188	131	40	7	2	
RETAIL TRADE	614	40.0	155.00	146.00	125.00-179.00	-	24	81	69	73	73	87	42	12	20	16	22	53	21	21	-	-	-	-	-	
ACCOUNTING CLERKS. CLASS A					166.50-249.00		-	-	12		106		198		107		133	117	206	198	227	140	48	21	3	
MANUFACTURING					168.50-215.00		-	-	-	3	35	15	33	51	27	26	41	19	38	23	-		1	10	1	
PUBLIC UTILITIES	1.702 733	43.0	252-00	260.50	166.50-261.00 228.50-278.00	_	_	_	12	37	4	186	3	88	80 18	100	92 28	98 48	80		188		47	11	2 2	
RETAIL TRADE	116				169.00-230.50		-	-	-	-	19	10	-	4	5	2	6	28	21	21	-	-	-	-	-	
ACCOUNTING CLERKS. CLASS B	2+330	39.5	150.50	142.00	124.50-166.00	43	108	264	302	358	282	238	225	94	92	59	58	54	61	57	12	в	_	_	5	
MANUFACTURING	321				126.50-160.00				75	58	38	41	45	11	12	2	8	3	5	-	-	-	-	-	5	
NONMANUFACTURING					122.50-168.00		106						130	83	80	57			55	57	12	В	-	-	-	
RETAIL TRADE					160.J0-227.50 121.00-157.00		24	5 81	10 69	73	26 54	77	42	33 8	15 15	31 14	36 15	17 25	49	44	_	-	-	_		
BOOKKEEPING-MACHINE OPERATORS	456	40.0	149.50	150.00	138.00-180.00	_	20	28	27	90	58	65	42	В	24	2	15	5	_	68	1	_	_	_	_	
MANUFACTURING					120.00-157.50	-	-	10	9	14	1			_	-	2		-	-	-	1	_	-	-	-	
NONMANUFACTURING					138.00-188.50	-	20	18	18	76	57	4.4	27	В	24	-	18	5	-	68	-	-	-	-	-	
BOOKKEEPING-MACHINE OPERATORS.																										
CLASS A	234				152.00-249.00		-	6	15	7	21	37	25	3	24	-	15	5	-	68	-	-	-	-	-	
NONMANUFACTURING	191	39.5	195.00	185.50	153.00-249.00	-	-	6	6	7	20	19	10	3	24	-	15	5	-	68	-	-	-	-	-	
BOOKKEEPING-MACHINE OPERATORS.				Later Land														- 1								
CLASS B	222				132.50-149.50	-	20	12	12	69	37 37	28	17 17	-	-	2	-	-		-	1	-	-	-	-	
NONMANUFACTURING	192	40.0	137.00	138.00	138.00-149.50	-	20	12	12	67	31	25	11				_	_	-	-	-	-	-	_	_	
MACHINE BILLERS	98				159.00-283.50		-	4	4	14	2	5	-	16	4	-	-	4	12	-	3	9	1	5	14	
NONNANUFACTURING	74 61				172.J0-328.00 210.00-328.00		_	4	4	_	_	5	_	12	_	_	-	4	12	-	3	9	1	6	14	
																	_	4	12	_	3	4	1	ь	14	
NONMANUFACTURING	87 67				135.50-283.50		_	4	4	14	2	_	_	14	2	_	-	4	12	-	3	8	-	6	14	
PUBLIC UTILITIES	59				210.00-328.00		-	-	-	-	-	-	-	12	_	-	_	4	12 12	-	3	8	_	6	14	
PAYROLL CLERKS	428	40-0	195.57	178.50	144.00-228.50	11	9	7	7	55	36	35	25	35	16	14	21	29	34	13	19	21	11	15	13	
MANUFACTURING	175				139.00-210.00		-	3	7	34	4	17	13	13	9	4	12		9	8	4	5	2		4	
NONMANUFACTURING	253				147.50-249.00		9	4	-	21	32	18	12	22	7	10			25	5				13		
RETAIL TRADE	55 65				272.00-330.00 148.50-204.00		1	4	_	_	16	6	1	10	2	9	7	4	5	1 2	9	11	5	13	7	
KEYPUNCH OPERATORS					140.00-195.00		25	40	176	204	100	150	282	150	128	188	102	2.1	64	20		37	17	7		
MANUFACTURING					140.00-195.00		8	5	30	36	53	22		27	18	23	22	20	8	3	3	4	4	7	_	
NONHANUFACTURING					140.00-195.00		17	35	146	168	146	136	188	123	110	165		20	56	17	55	33	13		-	
PUBLIC UTILITIES	379				166.50-265.00		-	-	-	1	5	25	67	68	36	19		13		3	55	31	13	-	-	
RETAIL TRADE	161	40.0	163.50	158.00	132.00-196.00	-	-	9	18	31	14	11	19	ь	9	15	11	-	13	-	-	-	-	-	-	
KEYPUNCH OPERATORS. CLASS A	823				162.50-200.00		-	6	19	23			113			135	85	25	37	18	25	18			-	
MANUFACTURING					147.50-200.00		-	- 6	10	5 18	37	47		11		12 123	21 64		2 37	17		14		7	_	
		- 36				1	-											20					,			
KEYPUNCH DPERATORS, CLASS B					132.50-169.00		25 8	5	20	181		16		16	53	53 11	17	_	25	2			1	_	_	
NONAANUFACTURING					131.00-168.00		17			150								_	19	-				_	_	
PUBLIC UTILITIES	105	40.0	225.50	240.00	158.00-276.50	-	-	-	-	-	3	24	5	4	2	2	4	-	12		30			-	-	
RETAIL TRADE	107	40.0	148.50	139.00	129.50-164.00	-	-	9	18	27	14	7	19	2	-	2	6	-	3	-		-	-	-	-	

Table A-2. Weekly earnings of professional and technical workers in Kansas City, Mo.-Kans., September 1977

					y earnings <sup>1</sup> andard)	Numb	er of	worke	rs rec	eiving	strai	ght-tir	me we	ekly e	arning	s of—										
Occupation and industry division	Number of workers	Average weekly hours <sup>1</sup> (standard)	Mean 2	Median <sup>2</sup>	Middle range <sup>2</sup>	and under	120	\$ 140 - 160	160	180	200	220	240	260	280	300	320	340	360	380	400	420	2	-	-	an
ALL WORKERS																										
COMPUTER SYSTEMS ANALYSTS			\$	\$	\$ \$																					
(BUSINESS)	933				305.00-393.50		-	-	-	6	1	12	37	87		124		76	85	89	56	35	13	12	43	
MANUFACTURING					315.00-401.50 305.00-393.50		-	-	-	6	1	12	6 31	3 84	18 52	19 105	14	74	12 74	15 74	15 41	7 28	9	3	41	
COMPUTER SYSTEMS ANALYSTS																										
(BUSINESS). CLASS A	365	39.5	392.00	372.00	339.50-431.00	-	-	-	-	-	-	-	-	3	6	45	40	48	49	56	25	6	5	8	39	
NONMANUFACTURING	320	39.5	392.00	372.00	339.50-435.00	-	-	-	-	-	-	-	-	3	2	44	36	40	45	49	16	6	4	7	38	
COMPUTER SYSTEMS ANALYSTS																										
(BUSINESS). CLASS B					287.50-346.00		-	-	-	-	-	12	29	62	59	73	81	16	18 5	21	20	24	7	2	1	
MANUFACTURING					305.00-397.50 268.50-333.00		-	_	_	-	-	12	3 26	61	14	18 55	72	8	13	14	14	17	4	2	3	
COMPUTER SYSTEMS ANALYSTS																										
(BJSINESS), CLASS C	142	39.5	335.00	349.00	279.50-372.50	-	-	-	-	6	1	-	В	22	5	6	14	32	19	12	11	5	1	-	-	
OMPUTER PROGRAMMERS (BUSINESS)					249.50-341.00		-	1	3	5	50	70	59	55	69	62	48	23	61	33	7	5	4	6	4	
MANUFACTURING					252.50-324.50 245.00-356.50		-	1	3	3 2	7 43	21 49	15	41	17 52	28	19	11	55	30	6	2	1 3	3	4	
PUBLIC UTILITIES					280.50-377.50		-	-	-	1	1	10	19	13	10	9	16	7	52	26	4	2	3	3	-	
COMPUTER PROGRAMMERS (BUSINESS).																										
CLASS A					304.50-389.00		-	-	-	-	-	4	7	14	14	23	25	14	21	27	6	4	3	٥	4	
NONHANUFACTURING	155	37.5	340.00	338.00	299.50-389.00	-	-	-	-	-	-	4	7	14	14	22	22	8	21	27	6	3	3	3	-	
COMPUTER PROGRAMMERS (BUSINESS).	202	72 5	274 00	242 02	239.50-300.00						77			20		2.6	21		1.7							
MANUFACTURING	111				250.50-322.00		_	_	_	_	37	18	45 13	29 13	55 17	24 13	21 15	8	17	3	1	1	1	-	_	
NONMANUFACTURING					230.00-293.50		-	-	-	-	33	29	32	16	38	11	6	3	11	2	-	-	-	-	-	
COMPUTER PROGRAMMERS (BUSINESS).																										
CLASS C					228.00-340.50		-	1	3	5	13	18	7	12	-	15	1	1	23	1	-	-	-	-	-	
NONHANUFACTURING	75			33,337	226.00-368.00		-	1	3	2	10	16	5	11	-	1	1	1	23	1	-	-	-	-	-	
MANUFACTURING					175.00-251.50		47	61		140	144	88	36	54	44	32	20	6 2	4 2	32	5	-	3	-	-	
NONMANUFACTURING					174.50-260.50 177.30-251.00		18	28 33	26 131	36 104	36 108	15 73	25 61	45	26 18	11	16	4	2	29	2	_	-	_	_	
PUBLIC UTILITIES					226.50-335.50		-	4	7	9	13	11	19	10	9	14	9	1	2	28	_	-	-	-	-	
RETAIL TRADE	52	40.0	216.00	202.00	172.00-267.00	-	1	-	17	8	2	3	6	12	3	-	-	-	-	-	-	-	-	-	-	
COMPUTER OPERATORS. CLASS A					230.00-314.00		-	-	7	24	11	57	26	35	20	21	20	2	3	30	2	-	3	-	-	
NONHANUFACTURING					230.00-311.00			-	7	23	8	54	25	34	16	12	16	1	2	29	2	-	-	-	-	
											•	,	7	,				•	- 2	20		_			-	
COMPUTER OPERATORS. CLASS 8					171.50-226.00		1		114		115	25	37	19	24	11	-	4	1	2	3	-	-	-	-	
MANUFACTURING					190.00-268.00		1	21	12 102	24 55	25 90	8 17	13	8 11	22	2	_	1	1	2	3	_	-	_	_	
PUBLIC UTILITIES					219.00-276.50		-	-	-	8	3	5	5	5	2	7	-	-	-	-	-	-	-	-	-	
COMPUTER OPERATORS. CLASS C	193	39.0	174.00	174.50	137.00-199.50	9	46	18	36	37	18	6	23	-	_	_	_	-	_	-	_	-	-	-	-	
MANUFACTURING	. 75	39.0	177.00	174.50	132.00-217.00	2	18	7	14	11	8	4	11	-	-	-	-	-	-	-	-	-	-	-	-	
NONHANUFACTURINS					137.00-189.00		28	11		26	10	2	12	-	-	-	-	-	-	-	-	-	-	-	-	
PUBLIC UTILITIES	32	40.0	207.50	211.50	174.50-246.00	-	-	4	7	1	9	1	10	-	-	-	-	-	-	-	-	-	-	-	-	

Table A-2. Weekly earnings of professional and technical workers in Kansas City, Mo.-Kans., September 1977—Continued

					y earnings <sup>l</sup> andard)	Numl	per of	worke	rs rec	ceiving	g strai	ght-ti	me we	ekly e	arning	gs of-	-									
	Number	Average weekly					120			180		\$ 220	\$ 240	\$ 260	\$ 280	\$ 300	\$ 320	\$ 310	347	\$ 380	400	\$ 420	\$ 440	450	* 480	\$ 51
Occupation and industry division	of workers	hours 1	Mean <sup>2</sup>	Median 2	Middle range 2	and					200			200	200	500	320	340	300	300	400	420	440	450	400	
		(standard)				under	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	an
						120	140	160	180	200	220	240	260	280	300	320	340	350	380	400	420	440	460	480	500	ove
ALL WORKERS CONTINUED																			,							
DRAFTERS	1,590		\$	\$	\$ \$ \$ 159.00-272.50			221	150		107	157	150	133			**	7.0	24	10	21	,		12		
							117	201	159	118	197	153	150			58	38	34	25	18	21	,	_			
MANUFACTURING					199.50-295.50	-	2	39	51	58	66	85	66	33		33	19	21	3	1		-	-	-	_	1
NONHANUFACTURING					152.50-266.00			162	108	60	131	68	84	100	47	25	19	13	13	17	21	3		- 7		
PUBLIC UTILITIES	50	40.0	266.00	274.50	238.00-298.50	-	2	1	-	4	5	3	В	10	4	2	4	4	2	1	_	-	-	-	-	
DRAFTERS. CLASS A					256.00-327.00	-	-	-	-	2	22	25	78	55	123	42	33	32	25	17	21	3	-	-	-	
MANUFACTURING					256.50-303.00	-	-	-	-	1	20	25	21	26	93	26	15	21	3	1	-	-	-	-	-	
NONHANUFACTURING	221	40.0	309.50	292.50	256.00-361.50	-	-	-	-	1	2	-	57	29	30	16	17	11	18	16	21	3	-	-	-	•
DRAFTERS. CLASS 8	467	40.0	233.50	230.00	207.50-257.00	_	-	3	28	37	130	107	53	59	26	16	5	2	-	1	-	-	-	-	_	-
MANUFACTURING	205	40.0	225.53	230.00	199.50-247.50	-	-	3	23	32	31	51	40	6	9	7	3		-	-	-	-	-	-	-	- 1
NONMANUFACTURING	262	40.0	240.00	231.50	213.00-270.50	-	-	-	5	5	99	56	13	53	17	9	2	2	-	1	-	-	-	-	-	•
DRAFTERS. CLASS C	494	40.0	174.50	170.50	146.50-189.00	_	60	144	114	79	45	21	19	12	-	-	_	_	_	_	_	_	_	_	_	_
MANUFACTURING	101				164.50-207.00	-	2	16	28	25	15	9	5	1	-	-	+	-	-	-	-	-	-	-	-	-
LECTRONICS TECHNICIANS		40.0	345.00	337.50	335.50-384.00	- 2	-	12	-	17	12	17	15	48	24	4	349	59	55	311	_	-	-	-	_	- 1
MANUFACTURING	281	40.0	318.00	337.50	277.50-359.00	-	-	-	-	14	-	15	1	46	16	3	95	58	20	3	-	-	-	-	-	-
NONMANUFACTURING	640	40.0	357.00	377.50	336.50-389.50	-	-	-	-	3	12	2	14	2	8	1	254	1	35	308	-	-	-	-	-	-
SASTIC MILTILEZ	595	40.0	365.00	383.00	336.50-389.50	-	-	-	-	-	-	-	-	-	1	-	254	1	32	307	-	-	-	-	-	-
ELECTRONICS TECHNICIANS. CLASS 8-	247	40.0	316.00	329.00	329.00-337.50	-	-	-	-	15	-	1	13	21	1	3	179	-	10	4	-	-	-	-	-	
ELECTRONICS TECHNICIANS. CLASS C-	73	40.0	254.00	273.50	238.00-279.50	-	-	-	-	2	12	16	1	25	16	1	-	-	-	-	-	-	-	-	-	
EGISTERED INDUSTRIAL NURSES		40.0	275.00	262.00	251.00-292.00	_	_	_	_	2	6	7	20	22	8	2	7	2	5	3	-	-	-	-	-	-
MANUFACTURING					251.00-320.50	_	_	_	_	2	h	4	15	17	6	2	7	2	5	3	-	-	-	-	-	

Table A-3. Average weekly earnings of office, professional, and technical workers, by sex, in Kansas City, Mo.-Kans., September 1977

		Ave (me	erage an <sup>2</sup> )			Ave (me	erage an <sup>2</sup> )			Ave (me	erage an <sup>2</sup> )
Sex, $^{3}$ occupation, and industry division	Number of workers	Weekly hours (standard)	Weekly earnings <sup>1</sup> (standard)	Sex, 3 occupation, and industry division	Number of workers	Weekly hours (standard)	Weekly earnings <sup>1</sup> (standard)	Sex, 3 occupation, and industry division	Number of workers	Weekly hours (standard)	Week earnin (standa
OFFICE OCCUPATIONS - MEN				OFFICE OCCUPATIONS -				OFFICE OCCUPATIONS -			
			\$	WOMENCONTINUED				WOMENCONTINUED			
ILE CLERKS	63		162.50						100		\$
NONMANUFACTURING	63		162.50	SECRETARIES - CONTINUED				MESSENGERS	145		
PUBLIC UTILITIES	25	40.0	217.00				\$	NONMANUFACTURING	123	39.0	137
	207	72.2	107 50	SECRETARIES CLASS D		37.5	178.50	SULT TOUR OARD OR SATORS	724	40.0	150
ESSENGERS	203		127.50	MANUFACTURING	221	70.0	179.00	SWITCHBOARD OPERATORS	324 283		
NOWHANDFACTURING	162		127.50	NONMANUFACTURINS	573 114		231.50	NONMANUFACTURING	203	40.0	143
PUBLIC UTILITIES	25	40.0	170.00	TOSEIC GITETILES		40.0	231.50	SWITCHBOARD OPERATOR-RECEPTIONISTS-	518	39.5	151
RDER CLERKS	269	39.5	200-00	STENOGRAPHERS	1.242	39.5	183.50	MANUFACTURING	183		
NOET CEEKKS	20,	3,	200.00	MANUFACTURING	303		185.50	NONMANUFACTURING	335		
ORDER CLERKS. CLASS B	261	39.5	199.00	NONWANIEACT INTAG	939		189.50		42		
			na rema	PUBLIC UTILITIES	223	40.0	233.50	RETAIL TRADE	78	40.0	136
ACCOUNTING CLERKS	385	40.0	222.00								
MANUFACTURING	75	40.0	187.50	STENOGRAPHERS, GENERAL	596	39.5	175.00	ORDER CLERKS	420	39.5	165
NONMANUFACTURING	310		230.50	MANUFACTURING	135	40.0	172.50	MANUFACTURING	117		
PUBLIC UTILITIES	151	40.0	260.00	NONMANUFACTURING	461		176.00	NUMMANUFACIURING	303	39.5	169
**************************************			244 22	PUBLIC UTILITIES	85	40.0	231.00	III			
ACCOUNTING CLERKS. CLASS A	281		246.00	STEWOODADUEDS STATES		** 0	200 50	ORDER CLERKS. CLASS A	91	39.5	171
NONMANUFACTURING	241	40.0	251.00	STENOGRAPHERS, SENIOR	645		196.00		700		
ACCOUNTING CLERKS - CLASS B	104	40 0	158.00	MANUFACTURING	168 473		202.00		329 74		
ACCOUNTING CLERKS, CLASS B NONMANUFACTURING	69		158.00	NONMANUFACTURING	133		235.00		255		
PUBLIC UTILITIES	25		180.00	, 35213 511211123			233.00	NONHANUFACTURING	233	37.03	10,
730210 011211123		1	10000	TRANSCRIBING-MACHINE TYPISTS	395	39.0	142.00	ACCOUNTING CLERKS	3,944	39.5	174
ACHINE BILLERS:				MANUFACTURING	81	40.0	156.50	MANUFACTURING	555		
NONHANUFACTURING:				NONMANUFACTURING	315		138.00		3,389		
PUBLIC UTILITIES	25	40.0	329.00					PUBLIC UTILITIES	903		
			N. Carrie	TYPISTS	1,265		139.00		599	40.0	155
AYROLL CLERKS	67		278.00	MANUFACTURING	185		145.00				
NONMANUFACTURING	53		267.00	NONMANUFACTURINS	1,079		138.00		1.718		
PUBLIC UTILITIES	30	40.0	313.00	PUBLIC UTILITIES	134		195.50		269		
			-	RETAIL TRADE	67	40.0	157.50				
				TYPISTS. CLASS A	546	39.5	154.00	RETAIL TRADE	116		
OFFICE OCCUPATIONS - WOMEN				MANUFACTURING			155.00			3	1200
OTTION WORLD				NONMANUFACTURING	467		154.00		2,226	39.5	150
				PUBLIC UTILITIES	85		206.00				
ECRETARIES	3+336	39.5	194.50					NONHANUFACTURING			
MANUFACTURING	880		203.00	TYPISTS. CLASS B	719	39.5	127.50	PUBLIC UTILITIES			
NOMMANUFACTURING	2 . 456	39.5	191.00	MANUFACTURING	107		137.50	RETAIL TRADE	483	40.0	14
PUBLIC UTILITIES	369		246.50	NONMANUFACTURING	612		125.50				
RETAIL TRADE	241	40.0	193.50	PUBLIC UTILITIES	43	40.0	176.00	BOOKKEEPING-MACHINE OPERATORS			
	100							MANUFACTURING			
SECRETARIES. CLASS A	231	40.0	219.50	FILE CLERKS	965		131.00		381	40.0	16
MANUFACTURING	52		222.00	MANUFACTURING	76		124.00				
NONMANUFACTURING	179	34.5	219.00	NONMANUFACTURING	889		131.50		0.71		
SECRETARIES - CLASS B	000	70 5	201 00	PUBLIC UTILITIES	93	40.0	224.00		231		
SECRETARIES CLASS B	103		201.00		125	33 5	189.50	NONMANUFACTURING	191	39.5	114
MANUFACTURING	193		196.00	NONMANUFACTURING	119		191.00				
PUBLIC UTILITIES	78		245.50	PUBLIC UTILITIES	53		236.50		- 22	40.0	13
RETAIL TRADE	80		181.00		"			NONHANUFACTURING			
			-51.50	FILE CLERKS. CLASS B	427	39.0	133.00				1
SECRETARIES. CLASS C	1,388	39.5	194.50	NONMANUFACTURING	379			MACHINE BILLERS	7	40.0	18
MANUFACTURING	414		206.50	PUBLIC UTILITIES	40		207.50				
NONMANUFACTURING	974		189.00					BILLING-MACHINE BILLERS	- 6	3 40.	0 18
RETAIL TRADE	70		189.50		413	39.5	111.50				
				NONMANUFACTURING			112.00				

See footnotes at end of tables. Digitized for FRASER http://fraser.stlouisfed.org/ Federal Reserve Bank of St. Louis

Table A-3. Average weekly earnings of office, professional, and technical workers, by sex, in Kansas City, Mo.—Kans., September 1977—Continued

Sex, $^{3}$ occupation, and industry division	Number					(me	ean2)		150	(me	ean2)
	of workers	Weekly hours (standard)	Weekly earnings <sup>1</sup> (standard)	Sex, 3 occupation, and industry division	Number of workers	Weekly hours (standard)	Weekly earnings <sup>1</sup> (standard)	Sex, 3 occupation, and industry division	Number of workers	Weekly hours 1 (standard)	Weekly earnings (standard
OFFICE OCCUPATIONS - WOMENCONTINUED				PROFESSIONAL AND TECHNICAL OCCUPATIONS - MENCONTINUED	26-2			PROFESSIONAL AND TECHNICAL OCCUPATIONS - MENCONTINUED			
PAYROLL CLERKS	360	40.0	180.00	COMPUTER PROGRAMMERS (BUSINESS) -				ELECTRONICS TECHNICIANS	905	40.0	345.0
MANUFACTURING	160		175.50	CONTINUED				MANUFACTURING	281	40.0	318.0
NONMANUFACTURING			184.00					NONMANUFACTURING	625	40.0	357.5
PUBLIC UTILITIES	25		263.00	COMPUTER PROGRAMMERS (BUSINESS).			\$	PUBLIC UTILITIES	580	40.0	365.5
RETAIL TRADE	66	39.5	177.50	CLASS A			349.50				
KEYPUNCH OPERATORS	1.785	30.5	171.50	NONMANUFACTURING	112	39.5	341.00	ELECTRONICS TECHNICIANS. CLASS 8-	247	40.0	316.0
MANUFACTURING			169.50	COMPUTER PROGRAMMERS (BUSINESS).				ELECTRONICS TECHNICIANS. CLASS C-	73	40.0	254 0
NONMANUFACTURING			171.50	CLASS &	194	39.5	283.50	ELECTRONICS TECHNICIANS CENSS C	' '	40.0	234.0
RETAIL TRADE			163.50	MANUFACTURING	97		294.00				
ALIAIL TRADE	101	40.0	103.30	NONMANUFACTURING			273.50				
KEYPUNCH OPERATORS. CLASS A	793	39.5	189.00	NO STATES ASSESSED.		,,,,	2,,,,,,,	PROFESSIONAL AND TECHNICAL			
MANUFACTURING			185.50	COMPUTER PROGRAMMERS (BUSINESS).				OCCUPATIONS - WOMEN			1
NONMANUFACTURING			190.00	CLASS C	67	40.0	291.00				
KEYPUNCH OPERATORS. CLASS B	992	30 5	157.00	COMPUTER OPERATORS	683	70.5	226 00	COMPUTER SYSTEMS ANALYSTS			
MANUFACTURING			157.00	MANUFACTURING	164		236.00		104	39.5	770 5
NONMANUFACTURINS	815		157.00	NONHANUFACTURING	519		223.00		106		
PUBLIC UTILITIES	97		221.00	PUBLIC UTILITIES	85		299.50	NONMANUFACTURING	42	39.5	331.03
RETAIL TRADE			148.50	TOOLIG STILLTIES	0,	45.0	277650	COMPUTER SYSTEMS ANALYSTS			
		,,,,	210000	COMPUTER OPERATORS. CLASS A	219	39.5	279.00		5.8	40.0	328 5
				NONMANUFACTURING	191		274.50		25	40.0	324.5
				PUBLIC UTILITIES	54			COMPUTER PROGRAMMERS (BUSINESS)	159	39.5	276.5
PROFESSIONAL AND TECHNICAL				, , , , , , , , , , , , , , , , , , , ,	- 1		32.000	NONMANUFACTURING		39.5	
GCCUPATIONS - HEN				COMPUTER OPERATORS. CLASS B	367	39.5	210.50			7.00	
				MANUFACTURING	94		242.50	COMPUTER PROGRAMMERS (BUSINESS).			
				NONMANUFACTURING	273		200.00		93	39.0	259.0
COMPUTER SYSTEMS ANALYSTS								NONHANUFACTURING	79	39.0	258.5
(BUSINESS)	830	39.5	355.50	COMPUTER OPERATORS, CLASS C	97	39.0	164.50				
MANUFACTURING	132		364.00	NONMANUFACTURING	55	39.0	158.00	COMPUTER OPERATORS	240	39.5	200.0
NONHANUFACTURING	698	39.5	354.00				132.71	MANUFACTURING	84		190.0
				DRAFTERS			230.50	NONMANUFACTURING	156		206.0
COMPUTER SYSTEMS ANALYSTS				MANUFACTURING	531		246.00	PUBLIC UTILITIES	43	40.0	254.5
(BUSINESS), CLASS A	347		393.50	NONMANUFACTURING	871	43.0	221.00		400		
NONMANUFACTURING	301	37.5	394.00	DOAFTEDS CLASS A	454	**	207 22	COMPUTER OPERATORS, CLASS B	108		194.0
				DRAFTERS, CLASS A	100000000000000000000000000000000000000		297.00	NONMANUFACTURING	61	39.5	198.5
COMPUTER SYSTEMS ANALYSTS	770	72 -	700 53	MANUFACTURING	244		286.00	COMPUTER OPERATORS, CLASS C	0.7	70 F	190 0
(BUSINESS). CLASS B	370		324.50	NONMANUFACTURING	210	40.0	309.50	NONMANUFACTURING	93		184.0
MANUFACTURING	72 298		353.00	DRAFTERS. CLASS B	423	40.0	235.00	MONTH NOT HOLD IN IND	60	40.0	185.0
NONHANUFACTURINS	275	37.5	211.50	MANUFACTURING	190			DRAFTERS	169	40.0	187.0
COMPUTER SYSTEMS ANALYSTS				NONMANUFACTURING	238		241.50			40.0	
(BUSINESS), CLASS C	113	39.5	339.00		233	40.0			,,,	40.0	
		2,	33.600	DRAFTERS. CLASS C	395	40.0	174.50	DRAFTERS. CLASS C	90	40.0	170.0
COMPUTER PROGRAMMERS (BUSINESS)	392	39.5	307.00	MANUFACTURING			191.50		1		
MANUFACTURING	139		305.50					REGISTERED INDUSTRIAL NURSES	82	40.0	274.0
NONHANUFACTURING	253		307.50					MANUFACTURING	65		280.0

Table A-4. Hourly earnings of maintenance, toolroom, and powerplant workers in Kansas City, Mo.-Kans., September 1977

			Hourly ea	rmings 4	Num	ber of	work	ers re	ceiving	strai	ght-tir	ne ho	urly ea	rning	s of—		-	-		- 1-	-	-					
Occupation and industry division	Number of workers	Mean 2	Median <sup>2</sup>	Middle range <sup>2</sup>	Unde. \$	4.40 r and under	4.60	4.80	\$ 5.00	5.20	5.40	5.60	5.80	-	6.60	7.00	7.40	7.80	8.20	8.60	9.00	-	-	- 2010	-	-	-
ALL MORKERS  MAINTENANCE CARPENTERS	372 712 160 331 129 457 442	7.32 8.32 8.27 8.52 8.73 7.73 3.24 8.24	\$ 9.18 6.78 8.54 8.23 9.37 9.14 7.43 8.37 8.37 7.27 7.05	\$ \$ 6.83-11.00 6.78-7.86 7.63-9.36 7.63-9.36 7.63-9.36 7.63-9.56 7.86-10.19 6.76-9.10 8.05-8.98 8.05-6.66-8.23		2 9 9		5.00	2 26 20	2 - 6 6 2 2	2 - 12 12 - 4 4 10 10	5.80 	2 2 2 2 - 11 4 12 12 55 55	9 2 14 14 - 4 4 10 10 50 50	98 87 73 71 2 43 41 2 2	9 2 13 11 2 8 3 6 6	5 5 64 39 25 10	23 18 191 188 3 18 12 123 123	7 5 51 47 4 7 6 97 97	40 2 120 119 1 30 12 145 145	14 14 139 94 45 96 32 19	9.831 39 - 99 - 2 - -	50 50 1	1		171	1 1
MAINTENANCE MECHANICS (MOTOR VEHICLES)	921 203 713 645 472 471	7.75 7.75 8.38	7.92	6.52- 9.18 7.90- 8.59	2 2	20	10	=	7 - 7 7	5 - 5 5	19 4 15 15	9 8 1 1	52 6 46 46	68 56 12 12		19 - 19 7 1	7 31	9 273 273 112	99 - 99 64 102 102	18 163 163	53 47 6 6	22 22	2 - 2 2			:	
MAINTENANCE SHEET-METAL WORKERS MANUFACTURING	287 287	8.28 8.56 8.56	8.65 8.65	7.77- 9.03 3.03- 9.18 8.03- 9.18	-	-	-	-	= =	:	-		= =	3 3	6 6 2 2	- 8 8	16 14 9 9	19 19 110 110	:	15 15 17 17	23 23 138 138	:	:	:	:	:	-
MAINTENANCE TRAJES HELPERS  MANUFACTURING MANUFACTURING (TOOLROOM) MANUFACTURING  TOOL AND DIE MAKERS MANUFACTURING STATIONARY ENGINEERS	90 137 137 324	6.50 7.43 7.43 8.11 8.11	8.48 8.48	7.10- 7.62 7.10- 7.62 7.10- 7.62 7.05- 9.39 7.05- 9.39	2 -			20		-	4 3 - - - 4	3 1 37	1 1 14 14	22 8 6 6 15 15	27 19 14 14 12 12	60 60 97 97	40 40 38 38 5 5	13 13 86	18 18	2 2 18 18 59 59	- - 56 58	33 33	: : :				
MANUFACTURINGNOUNANUFACTURING STATEMENT OF THE PUBLIC UTILITIES	219 472 63	7.64	8.43	6.42- 8.43	3 -	-	-	20	2	4	4	37	40 35	17 -	12 5	10 24 18	53 23	20	217 5			-	:	=	=	-	

Table A-5. Hourly earnings of material movement and custodial workers in Kansas City, Mo.—Kans., September 1977

			Hourly ea	mings 4	Numb	er of	worker	rs rec	eiving	straig	ht-tin	ne hour	·ly ea	rnings	of—												
Occupation and industry division	Number of				\$ 2.30				3.00						\$ 4.40								\$ \$ 7.60 8			.80	9.
•	workers	Mean 2	Median <sup>2</sup>	Middle range 2	and under	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
					100	1	2.00	3.00	3.20	3.40	3.60	3.80 4	.00	4.40	4.80	5.20	5.60	6.00	6.40	6.80	7.20	7.60	8.00 8	8.40	8.80 9	.20	9.
ALL WURKERS																											
		\$	\$	\$ \$				4.0				1			7.0		177	***		701	F 70	00:	430	7.5	2155	80	
MANUFACTURING	5+039					-	_	10	15 14	10	12	11	17 7	83 20	30 20	8	9	318	115	53	58	206	4 3 9		16	-	
NONMANUFACTURING	4 + 363					-	-	8	1	10	10	10	10	63	10	7	168	312	51	338	474	194	435		2139	80	
RETAIL TRADE	877			8.50- 8.50 7.02- 7.68		-	- 2	8		-	-	10	=	61	10	7	101	17	11	17	16 432	15 24	303	2	2134	46	
TRUCKDRIVERS. LIGHT TRUCK	501					-	-	10	1	10	12	11	17	67	10	8	17	72	-	14	29	30	14	11	148	-	
MANUFACTURING	58 443					2	_	8	1	10	10	10	10		10	8	17	72	_	5	23	30	12		148	_	
RETAIL TRADE	111					-	-	8	-	-	-	10	-	61	10	-	-	-	-	-	-	22	-	-	-	-	
TRUCKDRIVERS. MEDIUM TRUCK						-	-	-	14	-	-	-	-	16	20	-	60		120		438	2	3		107	34	
MANUFACTURING	865					_	_	_	14	-	-	-	_	16	20	-	60	203	105	12	437	2	1	54	7 100	34	
PUBLIC UTILITIES	163	7.44				-	-	-	-	-	-	-	-	-	-	-	10	42	2	11	3	-	-	-	100	-	
TRUCKDRIVERS. HEAVY TRUCK (TRAILER)	1,385	3.02	8.50	7.68- 8.50	_	_	-	_	_	_	_	_	_	_	_	7	9	5	10	33	22	147	422	-	714	-	
MANUFACTURING	82	5.91	6.45	6.25- 6.87		-	-	-	-	-	-	-	-	-	-	-	9	4	10	38	2	-	-	-	9	-	
PUBLIC UTILITIES	1,303 715					-	-	_	-	-	-		-	-	-	7	_	2	_	-	20	147	422	-	705 705	_	
TRUCKDRIVERS. HEAVY TRUCK																		25									
(OTHER THAN TRAILER)	403					-	-	-	-	-	-	-	-	_	-	-	91	35	-	-	-	15	-	8	-	-	
MANUFACTURING	90					9	16	8	_	8		_	_	19	14	7	43 26	45 27	18	27 11	1	18	. 2	-	3	2	
NONMANUFACTURING	149					8	16	8	-	8	-	-	-	19	1	-	17	18	18	15	1	_	2	-	-	-	
CEIVING CLERKS	451					-	-	12	10	-	40	22	17		16	10	18	23	35	63	-		-	-	-	1	
MANUFACTURING	171 280					1 -	-	12	10	_	10 30	55	10	17	12	9	18	20	12	12 51	-	70 47	-	_	-	1	
RETAIL TRADE	182					-	-	10		-	30	19	10		4	i	-	3	54	51	-	-	-	-	-	-	
HIPPING AND RECEIVING CLERKS	298 125					-	-	-	-	29 28	20 20	-	6	-	6	10	20	40 12	3	13 13	10	90	-	-	51	-	
NONHANDFACTURINS	172		2.00			-	-	-	-	1	-	- 2	6	-	-	-	-	28	-	-	-	86	-	-	51	-	
AREHOUSENER						-	89	1	-	21	65	1	16	51	19	94	27	94		481			. 195	5	5	16	
MANUFACTURING	639					1 -	89	1	_	21	65	1	15	44	16	91 3	12 15	10	132 36	23 458	88	79	105	1 4	- 5	16	
RETAIL TRADE	140					-	-	-	-	-	-	-	-	6	1	-	2	27	5	83	5	2	-	4	5	-	
DER FILLERS						8		24		-	39	89	4		254	57			125	153	62		38	1	-	- 7	
MANUFACTURING	1:455					8	20	24	93	-	10 29	89	3		220 34	42 15	49 340	92	102 23	134	18		3 35	1	-	-	
HIPPING PACKERS	942						88	-	33	12	32	28	47			233	69	7	21	29		152		-	-	-	
MANUFACTURING	377 565						88	-	16 17	12	16	28	43	13 35		146 87	68	7	18	29	51		3	-	-	-	
TERIAL HANDLING LABORERS				5.11- 7.25	-	54	72	36	6	54	8	21	37	74			203	430			100				483	34	
MANUFACTURING						54		7	-	44	- 8	12	14 23		55 64	8 261	165	183	205 135	40 297	50 50		-	71	463	34	
PUBLIC UTILITIES				5.11- 8.50 6.65- 8.50		74	66	29	6	10	-	9	-	-		133	-	103	1		-		-	11		-	
RETAIL TRADE				4.30- 6.58		54	66	29	4	10	8	9	5	38			36	147	74	157	44	40	-	60	-	-	

Table A-5. Hourly earnings of material movement and custodial workers in Kansas City, Mo.—Kans., September 1977—Continued

			Hourly ea	mings 4	Numb	er of v	worke	rs rec	eiving	straig	ht-tin	ne hou	rly ea	arnings	of—												
	Number				\$	5	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
Occupation and industry division	of				2.30	2.40	2.00	2.80	3.00	3.20	3.40	3.60	3.80	4.00	4.40	4.80	5.20	5.60	6.00	6.40	6.80	7.20	7.60	8.00	8.40	8.80	9.2
	workers	Mean 2	Median <sup>2</sup>	Middle range 2	and	_	_	-	-	_	-	_	_	_	-	_	_	-	_	-	-	_	_	_	_	_	
					under																						
					2.40	2.60	2.80	3.00	3.20	3.40	3.60	3.80	4.00	4.40	4.80	5.20	5.60	6.00	6.40	6.80	7.20	7.60	8.00	8.40	3.80	9.20	9.6
ALL WORKERS																											
CONTINUED																											
		\$	\$	\$ \$																							
ORKLIFT OPERATORS						-	-	-	-	2	-	-	4	87	23	161	91	74	241		139	448	150	-	134	-	1
MANUFACTURING						-	-	-	-	2	-	-	4	87	23	133	91	74		235	139		150	-	-	-	
NONMANUFACTURING	803					-	-	-	-	-	-	-	-	-	-	28	-	-	17	485	-	121	-		134	-	
PUBLIC UTILITIES	327	7.32	6.75	6.75- 8.50	-	-	-	-	-	-	-	-	-	-	-	28	-	-	3	162	-	-	-	-	134	-	
OWER-TRUCK OPERATORS (OTHER																											
THAN FORKLIFT)	233	7.07	6.99	6.76- 7.43	-	4.5	-	-	-	-	-	-	-	-	-	-	6	5	15	79	16	72	39	-	-	-	
MANUFACTURING	218	7.14	7.43	6.76- 7.43	-	-	-	-	-	-	-	-	-	-	-	-	6	6	-	79	15	72	39	-	-	-	
UARDS AND WATCHMEN	2.874	3.48	2.60	2.45- 3.62	401	1035	330	179	92	70	15	80	21	21	20	32	56	42	139	91	49	59	92	_	_	_	
MANUFACTURING	511			6.08- 7.15				8	-	_	-	-	14	5	14	7	11		173	89	33	33	92	-	-	-	
NONMANUFACTURING	2,363	2.84				1035		171	92	70	15	80	7	16	6	25	45	10	16	2	16	26	-	-	-	-	
PUBLIC UTILITIES	65	5.34	6.96	6.29- 7.41	-	-	-	-	-	-	7	-	-	8	-	-	-	-	8	1	16	26	-	-	-	-	
GUARDS:																											
MANUFACTURING	405	5.65	6.68	6.08- 7.39	-	-	-	-	-	-	-	-	-	2	1	6	11	8	151	74	33	25	84	-	-	-	
WATCHMEN:																											
MANUFACTURING	105	5.51	5.70	4.52- 6.48	-	-	-	8	-	-	-	-	14	3	13	1	-	24	12	15	-	8	8	-	-	-	
ANITORS, PORTERS, AND CLEANERS	3.735	4.24	3.31	3.24- 5.83	5	301	195	200	207	1021	105	78	157	128	137	80	113	193	294	219	202	95	5	_	_	_	
MANUFACTURING	1.192			4.78- 6.59			1	-		14	20	52	48			67	63	145	201	124	187	95	_	-	-	-	
NONMANUFACTURING	2,544	3.54	3.24	2.94- 3.50	3	295	194	200	185	1007	85	26	109	86	36	13	50	48	73	95	13	-	6	-	-	-	
PUBLIC UTILITIES	220					-	-	-	2	-	-	-	-	-	5	-	1	12	71	95	8	-	5	-	-	-	
RETAIL TRADE	312	3.93	3.87	3.29- 4.35	1	43	2	11	13	17	26	21	72	32	8	13	32	20		_							

Table A-6. Average hourly earnings of maintenance, toolroom, powerplant, material movement, and custodial workers, by sex, in Kansas City, Mo.—Kans., September 1977

MAINTENANCE: TOOLROOM: AND POWERPLANT OCCUPATIONS - MEN				workers	hourly earnings <sup>4</sup>	Sex, occupation, and industry division	workers	hourly earnings <sup>4</sup>
TORENT ENTER OFFICE THE STATE OF THE STATE O			MATERIAL MOVEMENT AND CUSTODIAL OCCUPATIONS - MENCONTINUED			MATERIAL MOVEMENT AND CUSTODIAL OCCUPATIONS - MENCONTINUED		
		\$						\$
AINTENANCE CARPENTERS	425		TRUCKERIVERS - CONTINUED			FORKLIFT OPERATORS	2.266	
MANUFACTURING	134	7.35			\$	MANUFACTURING	1,463	
	0.71	2 72	TRJCKDRIVERS. LIGHT TRUCK	490		NONHANUFACTURING	603	
AINTENANCE ELECTRICIANS	711		MANUFACTURING	55 432		PUBLIC UTILITIES	327	7.32
MANUFACTURING	160		NONMANUFACTURING	111		BOUED-TOUCK OBERATORS (OTHER		
NONHANUFACTURING	100	3.72	RETAIL TRADE	111	4.11	POWER-TRUCK OPERATORS (OTHER THAN FORKLIFT)	233	7.07
AINTENANCE PAINTERS	320	8.79	TRUCKORIVERS. MEDIUM TRUCK	1.085	5.74	MANUFACTURING	213	
MANUFACTURING	113		MANUFACTURING	222		NAME ACTION INC.		
TAILOT NOT ONLING			NONMANUFACTURING	863		GUARDS AND MATCHMEN	2.714	3.44
AINTENANCE MACHINISTS	457	3.24	PUBLIC UTILITIES	165		HANUFACTURINS	465	
MANUFACTURING	442	8.24		177		NONHANUFACTURING	2.247	
			TRUCKDRIVERS, HEAVY TRUCK			PUBLIC UTILITIES	51	6.11
AINTENANCE MECHANICS (MACHINERY) -	993	7.40	(TRAILER)	1.351	8.04			1
MANUFACTURING	902	7.27	NONMANUFACTURING	1,290	8.09	GUARDS:		
			PUBLIC UTILITIES	715	8.46	MANUFACTURING	360	5.68
MAINTENANCE MECHANICS		120.03		1000				
(MOTOR VEHICLES)	921		TRUCKDRIVERS. HEAVY TRUCK			WATCHNEN:		
MANUFACTURING	203			403	3.19	MANUFACTURING	105	5.52
NONMANUFACTURING	718							
PUBLIC UTILITIES	645	7.75	SHIPPING CLERKS	190	215.570.0	JANITORS PORTERS	2.961	1 2 2 2 3 3
			MANUFACTURING	83		MANUFACTURING	1,049	-
MAINTENANCE PIPEFITTERS	472			107	5.93		1,912	
MANUFACTURING	471	8.39				PUBLIC UTILITIES	187	
			RECEIVING CLERKS	422		RETAIL TRADE	280	3.85
MAINTENANCE SHEET-METAL WURKERS	79			145				
MANUFACTURING	77	8.28		277				
ATLL INTOUT	287	8.56	RETAIL TRADE	181	5.25	MATERIAL MOVEMENT AND CUSTODIAL		
MILLARIGHTS			SHIPPING AND RECEIVING CLERKS	282	6.47	OCCUPATIONS - WOMEN		
MANUFACTURING	201	0.50	MANUFACTURING	110				
MAINTENANCE TRADES HELPERS	111	6.46		172				
MANUFACTURING	85	1 1 2 2 2 2 2				WAREHDUSEMEN	130	3.97
	31		WAREHOUSEMEN	1 . 458	6.34			
MACHINE-TOUL OFERATORS (TOOLROOM) -	136	7.44		552	6.17	ORDER FILLERS	630	4.61
MANUFACTURING	135	7.44	NONHANUFACTURING	906	6.44	NONMANUFACTURING	235	
			RETAIL TRADE	135	6.48			
TOOL AND DIE MAKERS	324				157	SHIPPING PACKERS	489	4.63
MANUFACTURING	324	8.11	ORDER FILLERS	1 . 535			251	
			MANUFACTURING	315			236	4.13
STATIONARY ENGINEERS	690			1,220	5.01			
MANUFACTURING	213					MATERIAL HANDLING LABORERS		5.36
NONMANUFACTURING	472		SHIPPING PACKERS	453			51	5.30
PUBLIC UTILITIES	63	6.56		125				
MATERIAL MOVEMENT AND CUSTODIAL			NONMANUFACTURING	327	3.31	GUARDS AND WATCHMEN	100	4.09
OCCUPATIONS - AEM	1	1	MATERIAL HANDLING LABORERS	2.783	6-12	MANTENSS. PROTESS. AND CLEANEDS	750	3.66
	1		MANUFACTURING	915		JANITORS, PORTERS, AND CLEANERS	122	
RUCKDRIVERS	4.984	7.61	NONMANUFACTURING	1,867		NONNANUFACTURING	623	
MANUFACTURING	650			680				6.57
NON MANUFACTURING					5.44		24	1
PUBLIC UTILITIES				1	1			
RETAIL TRADE	867							1

Table A-7. Percent increases in average hourly earnings, adjusted for employment shifts, for selected occupational groups in Kansas City, Mo.—Kans., for selected periods

Industry and occupational group <sup>5</sup>	September 1972 to September 1973	September 1973 to September 1974	September 1974 to September 1975	September 1975 to September 1976	September 1976 to September 1977
All industries:					
Office clerical	6.6	8.0	8.8	8.1	6.4
Electronic data processing	6.6 ( <sup>6</sup> )	6.8	8.7	6.5	6.5
Industrial nurses	7.7	9.7	10.8	7.2	7.5
Skilled maintenance trades	6.2	9.9	10.5	7.4	10.2
Unskilled plant workers	8.1	8.7	9.7	10.3	7.7
Manufacturing:					
Office clerical	5.8	8.7	9.3	7.0	7.1
Electronic data processing	5.8 ( <sup>6</sup> )	6.9	(6)	(6)	( <sup>6</sup> )
Industrial nurses	6.5	10.9	11.3	7.4	7.6
Skilled maintenance trades	6.6	10.0	11.1	6.5	11.0
Unskilled plant workers	7.0	9.7	10.4	8.4	10.3
Nonmanufacturing:					
Office clerical	7.0	7.9	8.7	8.4	6.3
Electronic data processing	( <sup>6</sup> )	6.8	8.4	6.2	6.3
Industrial nurses	(6)	(6)	(6)	(6)	(6)
Unskilled plant workers	8.9	7.8	9.4	11.7	6.0

Table A-8. Weekly earnings of office workers-large establishments in Kansas City, Mo.-Kans., September 1977

					y earnings <sup>1</sup> andard)				rs rec			-													
Occupation and industry division	Number	Average weekly				90																			380
Occupation and industry division	workers	hours 1 (standard)	Mean <sup>2</sup>	Median 2	Middle range <sup>2</sup>	and under	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	- a
Name of the Association of the Control of the Contr						100	110	120	130	140	150	160	170	180	200	220	240	250	280	30û	320	340	360	380	400 o
ALL WORKERS																									
560571075			\$	\$	\$ \$			_									107	122	92	41	20	31	16	5	6
MANUFACTURING	400				171.50-233.50		2	_	16	37 5	17	23	128	26	288 88	70	193	35	13		20	В	9	2	
NONMANUFACTURING					169.00-232.50		2	-	14		51		109	115	200	140		37	79			23	7	3	
PUBLIC UTILITIES	327				221.00-274.50		-	-	-	-	2	1	10	9	30	29	70	49	54	30	14	22	7	2	-
RETAIL TRADE	158	40.0	202.50	196.00	174.00-222.50	-	-	-	-	-	2	6	17	22	38	26	20	16	3	1	-	-	-	-	-
SECRETARIES. CLASS A	56	43.0	269.00	260.00	239.00-292.00	-	-	-	-	-	-	2	-	-	1	5	7	13	10	5	4	4	1	2	-
SECRETARIES. CLASS B	321				190.00-247.50		-	-	1	4	1	2	25	17	58	65	42	44	24	13	2	8	6	1	6
MANUFACTURING	60				219.50-270.00		-	-	-	-	1	-		1	8	7	8	17	3	1	-	1	2	1	6
NONMANUFACTURING	261				138.50-244.00		-	-	1	4	-	2	25	16	50	58	34	25	21	12	2	7	4	-	-
PUBLIC UTILITIES	56	40.0	275.00	274.50	248.00-295.00	-	-	-	-	-	-	-	-	-	2	3	4	В	15	12	1	7	4	-	-
SECRETARIES. CLASS C	779	40.0	200.50	191.00	166.00-226.00	-	-	-	10	23	40	71	71	78	153	96	92	57	51	12	6	8	9	2	-
MANUFACTURING	223				184.00-226.00		-	-	2	2	3	3	В	20	54	50	53	11	6	3	1		7	-	-
NONMANUFACTURING	551				161.00-227.50		-	-	8	21	37	68	63	58	99	46	39	46	45		5	3	2	2	-
PUBLIC UTILITIES	163	40.0	241.50	248.50	220.50-260.50	-	-	-	-	-	-	1	8	7	11	13	30	40	35	9	3	2	2	2	-
SECKETARIES. CLASS D	334				161.00-220.00		2	-	5	10	27	38	31	41	67	28	44	5	6	11	8	11	-	-	-
MANUFACTURING	93				157.00-195.50		-	-	-	3	13	20	11	5	26	12	1	1		3	1	-		-	-
NONMANUFACTURING	236				168.00-227.50		2	-	5	7	14	18	20	36	41	16		4		8	7		-	-	-
PUBLIC UTILITIES	99	40.0	236.00	228.00	202.50-272.00	-	-	-	-	-	2	_	2	2	17	13	35	1	4	7	7	9	-	-	-
STENDGRAPHERS	507				163.50-245.00		-	-	7	27	40	31	37	46	76	36	71	40	58		6	2	-	-	-
MANUFACTURING	225				162.50-228.50		-	-	-	7	18	16	22	29	53	6	52	10	5	3	2		-		-
NONMANUFACTURING	282				163.50-270.50		-	-	7	20	22	15	15	17	23	30		30	52		4			-	-
PUBLIC UTILITIES	156	40.0	237.50	248.00	206.50-279.00	-	-	-	-	6	8	10	1	•	7	12	13	27	42	21	4	1	-	-	-
STENOGRAPHERS. GENERAL	195				154.50-234.50		-	-	5	15	23	18	25	7	10	16	33	10	15	12	-	-	-	-	-
MANUFACTURING	93				155.00-229.50		-	-	-	5	15	13	20	1	4	4	24	4	3	-	-	-	-	-	-
NONMANUFACTURING	102				154.00-248.00		-	-	5	10	8	5	5	6	6	12	9	12	12		-	-	-	-	-
PUBLIC UTILITIES	59	40.0	242.00	248.00	219.50-279.00	-	-	-	-	-	-	4	1	2	4	5	7	12	12	12	-	-	-	-	-
STENOGRAPHERS, SENIOR	312	40.0	211.00	195.50	174.00-246.00	-	-	-	2	12	17	13	12	39	66	20	38	24	43	13	6	2	-	-	-
MANUFACIURING	132				177.50-223.50		-	-	-	2	3	3	2	28	49	2	23	5	3		2			-	-
NONMANUFACTURING	180				168.50-271.50		-	-	2	10	14	10	10	11	17	18	10	18	40		4	1	-	-	-
PUBLIC UTILITIES	97	43.0	234.50	246.00	194.50-279.50	-	-	-	-	6	8	6	- 5	2	3	7	6	15	30	9	4	1	-	-	-
TRANSCRIBING-MACHINE TYPISTS	111				137.50-161.00		2	7	11	15	34	13	9	6	6	5	-	-	-	3	-	-	-	-	-
NONHANGFACTURING	103	39.5	152.00	146.00	137.50-160.00	-	2	7	11	15	32	10	9	5	4	5	-	-	-	3	-	-	-	-	-
TYPISTS	495	39.5	152.50	143.50	126.50-166.00	-	41	30	74	80	76	40	43	24	36	15	1/	5	3	10	1	1	-	-	-
MANUFACTURING	143				128.50-159.00		4	10	27	17	29	20	10	11	6	4	1	-	-	-	-	1	-	-	-
NONMANUFACTURING	356				124.50-170.00		37	20	47	63	47	20	33	13		11		5	3		1	-	-	-	-
PUBLIC UTILITIES	103	40.0	194.00	186.00	157.50-235.50	-	1	1	8	12	1	5	17	6	12	11	15	5	3	10	1	-		-	-
TYPISTS. CLASS A	257				138.50-187.00		23	6	14	23	36	25	35	18	31	11		5	3	8	1	1	-	-	-
MANUFACTURING	51				148.00-177.50		-	1	3	3	7	12	8	7	4	4	1	-	-	-	-	1	-	-	-
NONMANUFACTURING	205				136.00-195.00		23	5	11	20	29	13	27	11	27	7	15	5	3		1	-	-	-	-
PUBLIC UTILITIES	75	40.0	212.00	210.03	170.00-235.50	-	-	-	-	1	-	1	17	6	11	7	15	5	3	8	1	-	-	-	-
TYPISTS. CLASS B	239	39.5	135.53	132.50	122.00-148.00	-	18	24	60	57	40	15	В	6	5	4	_	-	-	2	-	-	-	-	-
MANUFACTURING	89				124.00-148.50		4	9	24	14	22	8	2	4	2	-	-	-	-	-	-	-	-	-	-
NONHANUFACTURING	150				121.00-142.50		14	15	36	43	18	7	6	2	3	4	-	-	-	2	-	-	-	-	(-)
FILE CLERKS	373	37.5	152.50	132.00	112.30-182.00	44	37	59	44	27	17	18	16	13		9					_		-	-	-
NONMANUFACTURING					112.00-182.50		34	56	40	26	15	17	16	13	20	9							-	-	-
PUBLIC UTILITIES			1000 00		182.50-248.00	1						10	4	10	18	9	24	2.1	13	3	1		_	_	_

Table A-8. Weekly earnings of office workers-large establishments in Kansas City, Mo.-Kans., September 1977—Continued

					y earnings <sup>1</sup> andard)									ekly e	arning	s of—	-									
Occupation and industry division	Number	Average weekly						110						170								\$ 320			380	40
occupation and mastery arrivor	workers	hours 1 (standard)	Mean 2	Median <sup>2</sup>	Middle range <sup>2</sup>	and under	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	an
						100	110	120	130	140	150	160	170	180	200	220	240	250	280	300	320	343	360	380	400	ove
ALL WORKERS CONTINUED																										
FILE CLERKS - CONTINUED																										
FILE CLERKS. CLASS A	97	43.0	\$ 212.57	\$ 213.00	\$ \$ \$ 174.50-243.00	_	_	_	3	2	6	2	9	7	15	6	,	20	15	2	1	0.20	_	- 4		
NONMANUFACTURING		43.0	214.00	220.50	174.50-248.00 201.00-270.00	-	-	-	3	2	6	1	9	7 5	13 11	6	5	50	15	3	1	-	Ξ	-	-	
FILE CLERKS. CLASS B	113	39.5	158.50	145.00	126.50-181.50	3	8	12	10	17	10	16	6	6	8	3	16	1	2	-	-	12	-	-	-	
NONMANUFACTURING	109 45				130.00-186.00		8	9	7	16	9	16	6	5	7	3	16	1	2	-	-	-	-	-	-	
FILE CLERKS. CLASS C	153 154				98.00-120.00		29 25	47 47	31 30	8	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	
												- [	1													
MESSENGERS NONMANUFACTURING	192 159				112.00-147.00		26 24	39 25	26 22	21 20	25 22	5	5	8	2	1	10	7	1	1	_	-	_	-	_	
PUBLIC UTILITIES	43	40.0	193.00	187.03	143.50-235.50	-	-	-	2	-	15	-	3	1	2	1	10	7	1	1	-	-		-	-	
SWITCHBOARD OPERATORS	155				132.00-188.00		4	4	18	34	15	12	12	9	19	4	3	15	2	1	2	-	-	-	-	
PUBLIC UTILITIES	123				132.00-173.00 188.00-256.50		-	2	17	32 4	11	10	11	6	11	1	1	14	2	-	-	-	-	-	-	
ACCOUNTING CLERKS	1.301				154.00-252.00		25	93	77	101	103	117	74	69	148	200	171	207	218	133	37	19	7	-	-	
MANUFACTURING	181				150.00-229.50		26	87	14 63	15 86	93	111	16 58	17 52	128	18 182	19 152	134	213	122	1 36	10	6	-	-	
PUBLIC UTILITIES	570				232.50-275.00		-	-	-	-	-	1	5	6	30	83		121		117	30	5	1	-	_	
RETAIL TRADE	413	40.0	158.00	146.00	124.00-191.00	-	7	81	33	53	44	43	22	В	31	49	21	21	-	-	-	-	-	-	-	
ACCOUNTING CLERKS. CLASS A	943				215.50-273.00		-	-	-	4	12	¥3 2	25 5	27	50 11	106		159	205	125	37	19	2	-	-	
MANUFACTURING	857				189.00-249.50 217.50-274.00		_	_	_	3	11	41	20	19	39		13 110	146			36	10	1	-	- 2	
PUBLIC UTILITIES	529				248.00-285.00		-	-	-	_	-	-	-	-	-	46	56	76	178	117	30	5	î	-	-	
ALL TRADE	53	43.0	230.00	231.00	222.00-243.00	-	-	-	-	-	-	1	-	-	2	8	21	21	-	-	-	-	-	-	-	
ACCOUNTING CLERKS. CLASS B	853				130.00-198.00		26	93	77	97	91	74	49	42	98	94	48	33	12	В	-	-	5	-	-	
MANUFACTURING	92 761				131.50-180.50		25	87	63	14 83	82	70	11	33	89	5 89	42	38	12	. 8			5	-		
PUBLIC UTILITIES	141	40.0	214.50	214.50	197.00-235.50	-	-	-	-	-	-	1	5	6	30	37	31	25	-	-	-	-	-	-	-	
RETAIL TRADE	360	43.0	147.50	141.00	120.00-165.00	-	7	81	33	53	44	42	22	В	29	41	-	-	-	-	-	-	-	-	-	
PAYROLL CLERKS					184.00-285.00		1	-	-	4	7	8	9	9	20	23	11	11	10	21	11	8	6	2	-	
NONMANUFACTURING					197.30-284.50		1	_	_	2	7	7	5	5		8 15	5	3	5	15	9	2	2	2	-	
PUBLIC UTILITIES	25				288.00-311.00		-	-	-	-	-	1	1	-	-	1	-	1	-	11	5	6	-	-	-	
KEYPINCH OPERATORS	990				152.00-203.00		1	9	40	96	88			113		84	63	20	47	36	17	7	-	-	-	
MANUFACTURING	149				161.00-209.00		-	1	4	6	14	12		16	39	22	7	3	3	4	4	7	-	-	-	
RETAIL TRADE	841 125				150.00-202.00		1	8	36	90	74 14	11	114	97	112 24	11	56 18	17	45	32	13				-	
KEYPUNCH DPERATORS. CLASS A	597				166.50-209.00		-	-	-	6	37	41	91	93	130	77	39	18	25	17	16	7	_	_	_	
MANUFACTURING	85				170.50-209.00		-	-	-	1	11	5	3	6	21	21	2	1	-	4	3	7	-	-	-	
NONMANUFACTURING	512	40.0	194.50	184.00	166.00-208.50	-	-	-	-	5	26	36	88	87	109	56	37	17	25	13	13	-	-	-	-	
KEYPUNCH OPERATORS. CLASS B					138.00-179.00		1	9	40	90	51 3	54	30	20	21 18	7	24	2 2	24	19	1	-	-	-	-	
MANUFACTURING	329				153.00-195.00		1	8	36	5 85	48	47	26	10	18	6	19	-	21	19	1	-		-	_	
PUBLIC UTILITIES	73				155.50-278.00		_	-	-	-	1	24	1	-	-	-	12	-	21	19	-	-	-	-	-	
RETAIL TRADE					139.00-165.50		_	1	2	19	14	7	19	2	2	6	3	_	-	-	_		- 2		_	

Table A-9. Weekly earnings of professional and technical workers—large establishments in Kansas City, Mo.—Kans., September 1977

					y earnings <sup>1</sup> andard)			worke				_														
Occupation and industry division	Number of	Average weekly				100	120	140	160	180	200	220	240	260	280	300	320	340	360	\$ 380	400		440		480	5
Occupation and industry division	workers	hours i (standard)	Mean <sup>2</sup>	Median <sup>2</sup>	Middle range 2	and under	-	-	-	-	-	-	_	-	-	-	-	-	-	-	-	-	-	-	-	
						120	140	160	180	200	220	240	260	230	300	320	340	350	380	400	420	440	460	480	520	
ALL WORKERS																										
OMPJTER SYSTEMS ANALYSTS			\$	\$	\$ \$																					
BUSINESS)	437				332.30-428.00		-	-	-	-	-	-	4	6	22	48	49	58	48	44	42	35	12	12	35	
MANUFACTURING	121 318				323.00-409.50 334.00-434.00		-	-	-	-	-	-	1 3	1 5	8	18 30	11 38	15	12 36	15 29	15 27	7 26	8	9	5 30	
COMPUTER SYSTEMS ANALYSTS																										
(BUSINESS). CLASS A	143	40.0	429-00	429.00	359.50-498.50	_	_	_	_	_	_	_	_	_	2	8	17	11	12	12	11	6	5	8	32	
NONMANUFACTURING					353.00-506.00		-	-	-	-	-	-	-	-	2	8	14	6	8	5	2	6	4	7	28	
COMPUTER SYSTEMS ANALYSTS																										
(BJSINESS), CLASS B					316.50-411.50		-	-	-	-	-	-	3	5	15	34	18	15	17	20	23	24	6	4	3	
MANUFACTURINS	73 111				314.50-404.00		-	-	_	_	-	2	1 2	1 4	8	18 16	7	7	5 12	7 13	14	17	3	2	1 2	
DMPUTER PROGRAMMERS (BUSINESS)	350	40.0	311.50	304 00	253.00-372.00	_	_	1	2	3	23	31	41	37	34	22	23	15	59	32	7		4	6		
MANUFACTURING	65				251.00-371.50		-	-	-	1	6	5	9	5	10	3	1	6	4	3	1	2	1	3		
NONMANUFACTURING	285				255.00-372.00		-	1	2	2	17	26	32	32	24	19	22	7	55	29	6	2	3	3	1	
COMPUTER PROGRAMMERS (BUSINESS).																										
NONMANUFACTURING					295.50-389.00		-	_	-	12	-	4	7	14	14	15 15	15 15	7	21	27	6	3 2	3	5	6	
COMPUTER PROGRAMMERS (BUSINESS).				33000	271100													-				-			-	
CLASS B	140	40.0	283.50	269.00	245.00-321.00	_	_	_	-	_	12	19	28	19	20	6	7	7	15	4	1	1	1	_	_	
NONMANUFACTURINS					238.50-299.50		-	-	-	-	8	15	20	15	10	3	5	2	11	i	-	-	-	-	-	
COMPUTER PROGRAMMERS (BUSINESS).																										
NONMANUFACTURING	62 55				219.50-368.00		-	1	2	3 2	11	8	5	3	-	1	1	1	23	1	-	-	_	2	-	
OMPJIER OPERATORS	442	33.5	250.50	245 50	193.50-283.50	_	11	20	47	46	41	35	65	42	40	25	20	4		32			3	_		
MANUFACTURING	130				215.50-286.00			2	10	14	10	8	24	В	26	11	4	2	2	3	3	-	3	_	-	
NONMANUFACTURING	312				187.50-283.50		11	18	37	32	31	27	41	34	14	14	15	4	2	29	2	_	-	-	-	
PUBLIC UTILITIES	108				239.00-389.00		-	4	7	1	7	9	15	10	8	7	9	1	2	28	-	-	-	-	-	
RETAIL TRADE	52	40.0	216.00	202.00	172.00-207.00	-	1	-	17	8	2	3	6	12	3	-	-	-	-	-	-	-	-	-	-	
COMPUTER OPERATORS. CLASS A					255.50-336.00		-	-	-	12	9	10	12	25	17	21	20	2	3	30	2	-	3	-	-	
NONMANUFACTURING					252.00-338.00		-	-	-	11	7	10	11	25 5	13	12	16	1	2	29	2	_	-	Ξ	-	
COMPUTER OPERATORS, CLASS B	185	39.0	231-50	230-00	183.00-258.00	_	_	13	31	15	23	19	30	17	23	4	_	4	1	2				_		
MANUFACTURING					238.50-283.00		-	-	5	4	4	4	12	8	22	2	-	1	i	2	3	_	_	_		
NONHARUTACTURING	117				172.00-250.00		-	13	26	11	19	15	13	9	1	2	-	3		-	-	-	-	-	-	ė.
COMPUTER OPERATORS. CLASS C					172.00-240.50		11	7	16	19	9	6	23	-	-	-	-	-	_	-	-	_	-	-	-	
NONMANUFACTURING	55	40.0	187.50	181.50	153.50-222.50	-	11	5	11	10	5	2	12	-	-	-	-	-	-	-	-	-	-	-	-	
RAFTERS	970	43.0	228.00	219.50	156.30-274.50	14	65	131	108	65	108	78	106	69	59	51	31	32	26	8	16	3	-	-	1-2	
MANUFACTURING					213.00-316.00		2	4	24	15	9	19	27	13	18	26	18	21	8	1	-	-	-	-	-	
NONMANUFACTURINS:															100											
PUBLIC UTILITIES	43	40.0	268.50	274.50	238.50-300.50	-	2	1	-	4	3	3	3	10	4	2	4	4	2	1	-	-	-	-	-	

Table A-9. Weekly earnings of professional and technical workers—large establishments in Kansas City, Mo.—Kans., September 1977—Continued

					ly earnings l	Num	ber of	worke	ers re	ceivin	g strai	ight-ti	ime w	eekly e	earnin	gs of_	-									
Occupation and industry division	Number of workers	Average weekly hours <sup>1</sup> (standard)	Mean <sup>2</sup>	Median <sup>2</sup>	Middle range <sup>2</sup>	\$ 100 and under 120	-	-	-	\$ 180 - 200	-	-	-	-	-	-	-	÷	-	-	-	-	-	-	\$ 480, - 520	
ALL WORKERS CUNTINUED																										
RAFTERS - CONTINUED																										
DRAFTERS. CLASS A	290	40.0	306-54	299-03	252.00-348.00	12	_	_	-	1	_	1	68	38	39	35	25	30	26	7	16	3	_	-	-	
MANUFACTURING	94				281.50-348.00	-	-	-	-	-	-	1	11	9	39 9	35 19	26 15	21	8	1	-	-	-	-	-	
DRAFTERS. CLASS 3	239	40.0	238.00	230.00	211.50-258.00	_	_	_	10	12	77	63	19	14	20	16	5	2	_	1	_	_	-	-	-	
MANUFACTURING	75				204.50-275.00		-	-	6	12	8	16	11	3	9	7	3	-	-	-	-	-	-	-	-	
ECTRONICS TECHNICIANS	731	40.0	360.00	.359.00	336.50-385.50		_	-	_	2	_	_	1	16	17	3	265	58	52	307	_	_	-	-	-	
MANUFACTURING	213				337.>0-359.00		-	-	-	-	-	-	-	16	16	3	95	68	20	-	-	-	-	-	-	
GISTERED INDUSTRIAL NURSES	70	40.0	274.50	263.00	249.30-291.30	-	_		-	2	6	7	12	20	8	2	5	2	3	3	-	-	-	-	-	
MANUFACTURING	55				253.50-314.00		-	-	-	2	4	4	9	15	6	2	5	2	3	3	-	-	-	-	-	

Table A-10. Average weekly earnings of office, professional, and technical workers, by sex–large establishments in Kansas City, Mo.—Kans., September 1977

		Av (m	erage ean <sup>2</sup> )			Ave (me	erage an <sup>2</sup> )			Av (m	erage ean <sup>2</sup> )
Sex, 3 occupation, and industry division	Number of workers	Weekly hours (standard)	Weekly earnings <sup>1</sup> (standard)	Sex, 3 occupation, and industry division	Number of workers	Weekly hours I (standard)	Weekly earnings <sup>1</sup> (standard)	Sex, 3 occupation, and industry division	Number of workers	Weekly hours (standard)	Week earning (standa
		(standard)	(standard)			(standard)	(standard)			(Standard)	(stanta
OFFICE OCCUPATIONS - MEN			4	OFFICE OCCUPATIONS -				PROFESSIONAL AND TECHNICAL OCCUPATIONS - MENCONTINUED			
MESSENGERS	92	40.0	139.50				\$				
NONNANUFACTURING	68	40.0	138.00	NONMANUFACTURING	338 322		150.50	COMPUTER SYSTEMS ANALYSTS (BUSINESS) - CONTINUED			
ACCOUNTING CLERKS			258.00	PUBLIC UTILITIES	92		223.50	COMPUTER SYSTEMS ANALYSTS	-		4
				FILE CLERKS, CLASS A	79		212.50	(BUSINESS). CLASS A		40.0	
NONMANUFACTURING	163 151		270.00	PUBLIC UTILITIES	76 53		214.00	NONMANUFACTURING	103	43.0	440.
OFFICE OCCUPATIONS - WUMEN								COMPUTER SYSTEMS ANALYSTS	157	40.0	740
SECRETARIES	1.485	43.0	207.03	FILE CLERKS. CLASS B NONMANUFACTURING PUBLIC UTILITIES	106 97		158.50 161.00	(BUSINESS). CLASS B	61		
MANUFACTURINS	400	40.0	215.00	PUBLIC UTILITIES	39		206.00	NONMANUFACTURING	92	40.0	
NONMANUFACTURING	1.086		204.00		1000						
PUBLIC UTILITIES	282	40.0	253.50	FILE CLERKS, CLASS C	153	39.5	111.50	COMPUTER PROGRAMMERS (BUSINESS)		40.0	
RETAIL TRADE	158	40.0	202.50	FILE CLERKS, CLASS C	149	39.5	111.50	NONHANUFACTURING	1/1	40.0	323.
SECRETARIES. CLASS A	56	40.0	269.00	MESSENGERS	99		141.00	COMPUTER PROGRAMMERS (BUSINESS).	100	40.0	757
CECCETACIES. CLASS 2	311	30 F	224.50	NONMANUFACTURING	90	39.5	143.00	CLASS A		40.0	
MANUFACTURING	311 60		258.50	SUTTOURDADA ADERATARS	145	40-0	164.00	NONHANUFACTURING	1,	40.0	342.
NONMANUFACTURING	251		216.50	NONMANUFACTURING	117		157.00	COMPUTER PROGRAMMERS (BUSINESS).			
NONMANUFACTURING	46		278.50	NONMANUFACTURING		40.0	1300	CLASS B	75	40.0	298
				ACCOUNTING CLERKS	1,587	40.0	200.00				
SECRETARIES. CLASS C	742	40.0	200.50	MANUFACTURING	158		192.53	COMPUTER OPERATORS	99		
MANUFACTURING	223		213.50	NONMANUFACTURING	1,429	40.0	200.50	NONHANUFACTURING	236		
NONHANUFACTURINS"	514	40.0	194.50	PUBLIC UTILITIES	538 408		251.00 158.00	NOWHANDFACTURING	69	40.0	307.
SECRETARIES. CLASS D	334	40.0	194.50	RETAIL TRADE	405	40.0	130.00	COMPUTER OPERATORS, CLASS A	144	39.5	298
MANUFACTURING	98		182.00	ACCOUNTING CLERKS, CLASS A	773	40.0	237.00	NONHANUFACTURING	119	39.5	295.
NONHANUFACTURING	236	39.5	199.50	MANUFACTURING	77		224.00	PUBLIC UTILITIES	50		336
PUBLIC UTILITIES	99	40.0	236.00	NONMANUFACTURING	695		238.50				1000
TENOCOADUESE	400	** 0	207 50	PUBLIC UTILITIES	414		261.50	COMPUTER OPERATORS. CLASS 8		39.0	
TENOGRAPHERS			207.50 195.00	RETAIL TRADE	53	40.0	230.00	MANUFACTURING		33.0	
MANUFACTURING	255		218.50	ACCOUNTING CLERKS. CLASS B	814	40.0	164.50	NONMANUFACTURING	90	39.0	212.
NONMANUFACTURING			249.00	MANUFACTURING	81		163.00	DOAFTERS	972	40.0	233
				NONHANUFACTURING	733		164.50	DRAFTERS	185		
STENOGRAPHERS, GENERAL	194	40.0	196.50	RETAIL TRADE	355	40.0	147.50	MANUFACTURINS			
MANUFACTURING	93		185.50					DRAFTERS, CLASS A	276		
NUNHANUFACIURING			207.00	NONMANUFACTURING	132		215.50	MANUFACIURINS	91	40.0	314.
PUBLIC UTILITIES	58	40.0	241.00	NONMANUFACIURING	83	40.0	215.50	DRAFTERS. CLASS &	212	40.0	240.
STENDEDADHEDS. SENTAD	284	40.0	215.00	KEYPHACH DEPATORS	956	40 0	184.50	DRAFTERS, CLASS B	70		
STENOGRAPHERS. SENIOR			201.50	MANUFACTURING	149		195.50				
NONMANUFACTURINS			225.00	NONMANUFACTURING	807	40.0	182.50	ELECTRONICS TECHNICIANS		40.0	
				RETAIL TRADE	125	40.0	174.00	MANUFACTURING	213	40.0	337
RANSCRIBING-MACHINE TYPISTS	111	39.5	153.00					PROFESSIONAL AND TECHNICAL			
NONHANUFACTURING	103	39.5	152.00	KEYPUNCH OPERATORS. CLASS A	577	40.0	195.50	OCCUPATIONS - WOMEN			
				MANUFACTURING	85		205.50				
YPISIS			152.50	NONMANUFACTURING	492	40.0	193.50	COMPUTER SYSTEMS ANALYSTS (BUSINESS)	54	37.5	344
MANUFACTURING			147.50	WENNING OF ATOMS OF ACC. 2	770			(BBSINESS)			
NONHANUFACTURING			154.50	KEYPUNCH OPERATORS, CLASS B	379		168.00	COMPUTER PROGRAMMERS (BUSINESS)	114	40.0	285
PUBLIC UTILITIES	75	40.0	175.05	MANUFACTURING	315		165.00	NONMANUFACTURING	98	39.5	289
TYPISTS. CLASS A	252	39.5	167.00	NONMANUFACTURING	71		226.50				
MANUFACTURING			165.50	RETAIL TRADE			158.00				
NONHANUFACTURING	202	39.5	167.00					CLASS B	57	40.0	263
NONHANUFACTURING			212.50	PROFESSIONAL AND TECHNICAL OCCUPATIONS - MEN					93	39.0	233
	232	39.5	137.00	COMPUTER SYSTEMS ANALYSTS				NONHANUFACTURING	68		
MANUFACTURING			137.50	(BUSINESS)	383	40.0	391.00				
NONMANUFACTURING			137.00	MANUFACTURING	107	40.0	379.50	REGISTERED INDUSTRIAL NURSES		40.0	
								MANUFACTURING		43.0	274

Table A-11. Hourly earnings of maintenance, toolroom, and powerplant workers—large establishments in Kansas City, Mo.—Kans., September 1977

			Hourly ea	rmings 4	Num	ber o	work	ers re	eceiving	strai	ght-ti	me ho	urly e	arning	gs of-	-											
Occupation and industry division	Number					5 6.40	\$ 6.50	5.60	\$ 6.70	\$ 6.80	<b>\$</b> 6.90	\$ 7.00	\$ 7.10	\$ 7.20	\$ 7.30	\$ 7.40	\$ 7.60					\$ 8.60		\$ 9.00	9.20	9.40	9.6
Occupation and industry division	workers	Mean 2	Median <sup>2</sup>	Middle range 2	Unde \$ 6.40	under		6.73	6.80	-	7.00	7.10	7.20	7.30	7.40	7.60	7.80	8.00	d.20	3.40	- 8.60	8.80	9.00	9.20	9.40	9.60	an ove
ALL WORKERS		\$	\$	\$ \$																							
MAINTENANCE CARPENTERS	50 50	7.76 3.33		6.99- 8.59 7.86- 9.14	3	2	-	-		9	2	7	-	-	-	5	-	19	3	2	3	2	-	14	-	-	
MAINTENANCE ELECTRICIANS HANUFACTURING	613 555	8.58 8.53		8.08- 9.36 8.08- 9.36	8 3	4	-	2	- 2	-	15 15	3	1	3	2		1 -	15 12		11 11	4	78 78	42 41	10 10	109 64		
MAINTENANCE PAINTERS				7.86- 9.10 7.86- 9.10		-	2	-	÷	-	1	6	-	-	2	10 10	-	6	6 6	5	-	4	9	39 32	-	-	
MAINTENANCE MACHINISTS MANUFACTURING			8.59 8.43	8.35- 8.98 8.38- 8.98	ŏ	2	2	-	-	-	-	-	-	-	4	7	12 12	9	75 75	44 44	3	2 2	143 143	13 13	6	Ξ	
MAINTENANCE MECHANICS (MACHINERY) - MANUFACTURINS				7.43- 8.72 7.43- 6.72			-	7		-	15 13	36 36	-	35 35	-	61 61	12 10	61 61	1	47 47		111 111	8 8	21 21	84 10	-	
MAINTENANCE MECHANICS (MOTOR VEHICLES)  MANUFACTURING  NONHANUFACTURINS  PUBLIC UTLITIES	255 89 167 133	3.62 8.54		8.34- 8.93 8.05- 9.21 8.54- 8.73 8.73- 8.73	-	-	2 2 -	1	:	4 -	:	7 - 7 7		-	:	21 8 13	3 - 3 -	5 -	3 3 -	19 - 19 1	-	112 18 94 94	31 - 31 31	23 23 -	24 24 -		
MAINTENANCE PIPEFITTERS	365 365			8.03- 9.18 8.03- 9.18	2	-	-	-	-	-	2 2	-	1 -	-	-	31 31	-	28 28	3 4 3 4	15 15	19 19	24 24	- 1	80 80	30 80	Ξ	
MAINTENANCE SHEET-METAL WORKERS	69	8.43	8.65	7.86- 9.03 7.80- 9.03	-	-	-	-	-	-	-	-	-	-	-	12 12	-	7	12	-	-	13 13	2 2	17 17	6	- :	
MANUFACTURING	285 285	3.57 3.57	8.65	8.03- 9.18 8.03- 9.18	3	-	-	-	-	-	-	8	-	-	-	-	9	9	101	-	-	16 16	1	82 82	56 56	-	
MANUFACIURING	87 71	6.88 7.09	6.87 7.44	6.49- 7.44 6.60- 7.45	6 2	18	4	15 15	-	4	-	-	-	-	-	40 40	-	-	-	1	-	2	-	-	-	-	
MACHINE-TOOL OPERATORS (TOOLROOH) -	134 134	7.46 7.46	7.37 7.37	7.10- 7.62 7.10- 7.62		_	Ξ	-	Ξ	8	6	4	17 17	17 17	22 22		24 24	-	-	- :	:	18 18	Ξ	-	2	-	
OOL AND DIE MAKERS	193 193	8.92	8.98 8.98	8.76- 9.39 8.76- 9.39	1	-	2 2	1		-	4	-	1	1	-	2 2	-	11 11	2	1	17 17	6	53 53	-	58 58	33 33	
STATIONARY ENGINEERS	193 137 56	8.33	8.03 8.03 7.43	7.83- 8.91 7.89- 9.12 7.15- 8.54		-	3 - 3	1	1 - 1	1 - 1	1 - 1	-	8 - 8	-	10 4 6	8	1 - 1	20 19 1	41 41	-	10	26 26	14 - 14	20 20	15 15	-	

Table A-12. Hourly earnings of material movement and custodial workers—large establishments in Kansas City, Mo.—Kans., September 1977

			Hourly ea	mings 4	Numb	per of						ne hou															
Occupation and industry division	Number of workers	M2	Median <sup>2</sup>	Middle range 2		2.60						3.80											7.00	7.40	7.80	\$ 8.20	8.0
		Mean	Median	Middle range	under	-	-	-	-	-	-	-			-	-	-	-	-	-	-	-	-	-	-	-	a
	+				2.50	2.80	3.00	3.20	3.40	3.60	3.80	4.33	4.20	4.40	4.50	4.80	5.00	5.40	5.30	6.20	6.60	7.00	7.40	7.80	8.20	8.60	OV
ALL WORKERS																											
TRUCKDRIVERS	1.013	\$ 7.88	\$ 7.75	\$ \$ \$	_	_	_	1	_	2	1	_	6	1	_	-		_	2	17	21	100	15	357	38	449	
MANUFACTURING		7.23				_	-	_	_	2	1	-	1	1	_	-	_	-	-	2	12	60	-	10	32		
NONMANUFACTURING			8.25			-	-	1	-	_	_	-	5	_	-	-	-	-	2	15	9		15	347		442	
PUBLIC UTILITIES			8.50			-	-	_	-	-	-	-	-	-	-	-	-	-	-	-	7	26	1			440	
TRUCKDRIVERS. MEDIUM TRUCK	- 84	7.23	7.15	6.30- 8.11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	17	8	17	2	-	31	9	
RECEIVING CLERKS		5.03	6.45	5.84- 7.39	-	-	12	10	-	5	13	10	_	-	-	6	1	1	2	23	56	39	1	50	-	-	
NONMANUFACTURING				3.80- 6.55		-	12	10	-	5	13	10	-	-	-	4	1	-	1	22	54	31	-	-	-	-	
RETAIL TRADE	143	5.65	6.25	4.67- 6.58	-	-	10	-	-	5	10	10	-	-	-	4	1	-	1	22	54	31	-	-	-	-	
WAREHOUSEMEN						1	1	-	-	-	1	1	4	3	2	1	1	9	23	15			19		6	-	
MANUFACTURING				6.30- 7.70		-	-	-	-	-	-	-	-	-	-	-	-	5	4		84	91	10		2		
RETAIL TRADE				6.28- 6.74		1	1	_	-	-	1	1	4	3	2	1	1	4	15	15	27	122	9	1	4	5	
KETAIL TRAJE	131	5.50	0.70	6.43- 6.76	-	-	-	-	-	-	_	-	4	2	_	1		2	15	,	14	12	4	_	4	5	
ORDER FILLERS				4.78- 7.37 6.37- 7.37		-	-	-	-	4	81	4	14	34 15	27 26	208	10	5	25	57 7	28 27	50 27		103	4	-	
		5.57	1.51	0.37- 7.37		-	-	-	_	4		,	13	15	20	0	10	,	2	,	21	21	175	95	1	_	
SHIPPING PACKERS				4.76- 7.32		-	-	7	2	9	11	4	5	4	11	22	5	11	-	3	20	31		1	2		
MANUFACTURING	76	5.98	6.57	6.19- 0.76	-	-	-	7	2	3	-	-	1	-	2	-	1	2	-	1	19	31	4	1	2	-	
MATERIAL HABDLING LABORERS	1,259	5.88	5.81	5.25- 0.90	54	50	13	4	10	7	9	5	11	31	10	44	26	73	257	115	142	109	76	57	9	136	
MANUFACTURING		6.30		5.51- 7.12		-	-	-	-	-	-	-	1	3	2	5	-		125	57	73	39	70	51	9		
NONHANUFACTURING	797	5.64	5.73	4.60- 6.73	54	50	13	4	10	7	9	6	10	28	8	39	26	46	142	58	69	70	5	6	-	136	
FORKLIFT OPERATORS	1.122	7.08	7.03	6.49- 7.51	1 2	-	-	-	-	_	_	_	-	_	-	_	-	15	22	55	328	104	62	321	150	65	
MANUFACTURING						-	-	-	-	-	-	-	-	-	-	-	-	15	22	53			62		150		
NONKANUFACTURING	136	7.82	7.49	7.42- 8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	16	1	-	52	-	65	
POWER-TRUCK OPERATORS (OTHER																											
THAN FORKLIFT)	227	7.11				-	-	-	-	-	-	-	-	-	-	-	-	-	5	13	2	95	-	0.0	31	-	
MANUFACTURING	212	7.18	7.43	6.76- 7.43	-	-	-	-	-	-	-	-	-	-	-	-	-	_	5	-	_	45	-	80	31	-	
GUARDS AND WATCHNEN	551	6.11	6.29	5.40- 7.15	-	-	2	14	32	8	2	6	5	6	8	12	12	31	41	75	41	99	40	105	11	-	
MANUFACTURING		6.66	6.75	6.14- 7.57	-	-	-	-	-	-	-	-	1	4	7	7	1	7	24	64	27	88	25	87	11	-	
NONMANUFACTURING				3.43- 6.29		-	2	14	32	8	2	6	4	2	1	5	11	24	12	12	14	11	14	18	-	-	
PUBLIC UTILITIES	51	7.07	7.20	6.72- 7.42	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	11	14	18	-	-	
GUARDS:																											
MANUFACTURING	297	5.83	6.75	6.14- 7.62	-	-	-	-	-	-	-	-	1	1	1	-	1	5	5	64	15	86	25	67	3	-	
WATCHMEN:																											
MANUFACTURING	62	5.84	5.70	4.74- 6.48	-	-	-	-	-	-	-	-	-	3	6	7	-	1	24	-	11	2	-	-	8	-	
JANITORS. PURTERS. AND CLEANERS	2,198	4.57	3.87	3.00- 6.22	143	178	106	189	348	58	27	87	34	28	52	22	44	61	48	203	175	107	284	6	_	-	
MANUFACTURING		5.18	6.22	5.83- 7.17	-	-	-	8	1	4	1	20	12	-	44	11	34	43	12	194	109	15	283	-	-	-	
NONMANUFACTURING	1.407	3.66			143	178	106	181	347	54	26	67	22	28	8	11	10	18	36	9	64	92	1	6	-	-	
PUBLIC UTILITIES						-	-	-	-	-	-	-	-	-	-	-	-	-	1	5	64	88	1	6	-	-	
RETAIL TRADE	233	4.22		3.55- 4.90	1	2	2	13	17	26	21	49	9	23	-	8	10	13	35	4	-	_	-	-	_	_	

Table A-13. Average hourly earnings of maintenance, toolroom, powerplant, material movement, and custodial workers, by sex—large establishments in Kansas City, Mo.—Kans., September 1977

Sex, $^{3}$ occupation, and industry division	Number of workers	Average (mean <sup>2</sup> ) hourly earnings <sup>4</sup>	Sex, 3 occupation, and industry division	Number of workers	Average (mean <sup>2</sup> ) hourly earnings <sup>4</sup>
MAINTENANCE, TOOLROOM, AND POWERPLANT GCCUPATIONS - MEN			MATERIAL MOVEMENT AND CUSTODIAL OCCUPATIONS - MENCONTINUED		
MAINTENANCE CARPENTERS	84	\$ 75	RECEIVING CLERNS	235	5.06
MANUFACTURING	50	8.33	NONMANUFACTURING	160	5.44
MAINTENANCE ELECTRICIANS	612	3.58	KETALE TRASE		3.03
MANUFACTURING	554		MAREHOUSEMEN	505 305	5.85 7.09
MAINTENANCE PAINTERS	97	8.35	NONMANUFACTURING	199	6.47
MANUFACTURING	75	8.40	RETAIL TRADE	127	6.53
MAINTENANCE MACHINISTS	328	3.47	ORDER FILLEKS	423	6.66
MANJFACTURING	322	8.46	MANUFACTURING	135	5.51
MAINTENANCE MECHANICS (MACHINERY) -	517	8.12	NONHANUFACTURING	290	7.20
MANUFACTURING	438		SHIPPING PACKERS:		
MAINTENANCE MECHANICS			MANUFACTURING	51	6.43
(MOTUR VEHICLES)	255	8.57	MATERIAL HANDLING LABORERS	1.182	5.89
MANUFACTURING	89	8.62	MANUFACTURING	434	5.30
NONMANUFACTURING	167	8.54	NONMANUFACTURINS	743	
PUBLIC UTILITIES	133	3.68	RETAIL TRAJE	584	4.98
MAINTENANCE PIPEFITTERS	365	8.53	FORKLIFT OPERATORS	1.105	7.09
MANUFACTURING	365	8.54	MANUFACTURING	970 136	
MAINTENANCE SHEET-METAL WORKERS	69			135	
MANUFACTURINS	69	8.43	POWER-TRUCK OPERATORS (GTHER THAN FORKLIFT)	227	7.11
MILLARIGHIS	285	8.57	MANUFACTURING	212	1
MANUFACTURING	285	8.57	CHARDS AND ATCHMEN	509	
MAINTENANCE TRADES HELPERS	83	6.91	MANUFACTURINS	333	
MANUFACTURING	67		NONMANUFACTURING	171	
			PUBLIC UTILITIES	36	
MACHINE-TOOL OPERATORS (TOOLROOM) -	133				
MANUFACTURING	133	7.46	GUARDS:	277	5.84
TOOL AND DIE MAKERS	193	3.92		211	0.00
MANUFACTURIAS	193				
			MANUFACTURING	61	5.36
STATIONARY ENGINEERS	192				
MANUFACTURING	136			720	1
NUMBER OF ACTUALING	93	1.15	NONHANUFACTURING	1.094	
			PUBLIC JIILITIES	135	
MATERIAL MOVEMENT AND CUSTODIAL			RETAIL TRADE	205	4.17
OCCUPATIONS - MEN			MATERIAL HOVEMENT AND CUSTODIAL OCCUPATIONS - WOMEN		
TRUCKURIVERS	985			83	4.5
MANUFACTURING	131				
NONHANDFACTURING	855 487	1		77	5.7
***************************************			JANITORS . PURTERS . AND CLEANERS	383	
TRUCKORIVERS. MEDIUM TRUCK	81	7.25	MANUFACTURING	71	5.5

### **Footnotes**

1 Standard hours reflect the workweek for which employees receive their regular straight-time salaries (exclusive of pay for overtime at regular and/or premium rates), and the earnings correspond to these weekly hours.

The mean is computed for each job by totaling the earnings of all workers and dividing by the number of workers. The median designates position—half of the workers receive the same or more and half receive the same or less than the rate shown. The middle range is defined by two rates of pay: a fourth of the workers earn the same or less than the lower of these rates and a fourth earn the same or more than the higher rate.

 $^{3}$  Earnings data relate only to workers whose sex identification was provided by the establishment.

4 Excludes premium pay for overtime and for work on weekends,

holidays, and late shifts.

Estimates for periods ending prior to 1976 relate to men only for skilled maintenance and unskilled plant workers. All other estimates relate to men and women.

6 Data do not meet publication criteria or data not available.

# Appendix A. Scope and Method of Survey

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

In each of the 74 <sup>1</sup> areas currently surveyed, data are obtained from representative establishments within six broad industry divisions: Manufacturing; transportation, communication, and other public utilities; wholesale trade; retail trade; finance, insurance, and real estate; and services. Major industry groups excluded from these studies are government operations and the construction and extractive industries. Establishments having fewer than a prescribed number of workers are omitted because of insufficient employment in the occupations studied. Separate tabulations are provided for each of the broad industry divisions which meet publication criteria.

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

#### Occupations and earnings

Occupations selected for study are common to a variety of manufacturing and nonmanufacturing industries, and are of the following types: (1) Office clerical; (2) professional and technical; (3) maintenance, toolroom, and powerplant; and (4) material movement and custodial. Occupational classification is based on a uniform set of job descriptions designed to take account of interestablishment variation in duties within the same job. Occupations selected for study are listed and described in appendix B.

Unless otherwise indicated, the earnings data following the job titles are for all industries combined. Earnings data for some of the occupations listed and described, or for some industry divisions within the scope of the survey, are not presented in the A-series tables because either (1) employment in the occupation is too small to provide enough data to merit presentation, or (2) there is possibility of disclosure of individual establishment data. Separate men's and women's earnings data are not presented when the number of workers not identified by sex is 20 percent or more of the men or women identified in an occupation. Earnings data not shown separately for industry divisions are included in data for all industries combined. Likewise, for occupations with more than one level, data are included in the overall classification when a subclassification is not shown or information to subclassify is not available.

Occupational employment and earnings data are shown for full-time workers, i.e., those hired to work a regular weekly schedule. Earnings data exclude premium pay for overtime and for work on weekends, holidays, and late shifts. Nonproduction bonuses are excluded, but cost-of-living allowances and incentive bonuses are included. Weekly hours for office clerical and professional and technical occupations refer to the standard workweek (rounded to the nearest half hour) for which employees receive regular straight-time salaries (exclusive of pay for overtime at regular and/or premium rates). Average weekly earnings for these occupations are rounded to the nearest half dollar. Vertical lines within the distribution of workers on some A-tables indicate a change in the size of the class intervals.

These surveys measure the level of occupational earnings in an area at a particular time. Comparisons of individual occupational averages over time may not reflect expected wage changes. The averages for individual jobs are affected by changes in wages and employment patterns. For example, proportions of workers employed by high- or low-wage firms may change, or high-wage workers may advance to better jobs and be replaced by new workers at lower rates. Such shifts in employment could decrease an occupational average even though most establishments in an area increase wages during the year. Changes in earnings of occupational groups, shown in table A-7, are better indicators of wage trends than are earnings changes for individual jobs within the groups.

Average earnings reflect composite, areawide estimates. Industries and establishments differ in pay level and job staffing, and thus contribute differently to the estimates for each job. Pay averages may fail to reflect accurately the wage differential among jobs in individual establishments.

<sup>&</sup>lt;sup>1</sup> Included in the 74 areas are 4 studies conducted by the Bureau under contract. These areas are Akron, Ohio; Birmingham, Ala.; Norfolk—Virginia Beach—Portsmouth and Newport News—Hampton, Va.—N.C.; and Syracuse, N.Y. In addition, the Bureau conducts more limited area studies in approximately 100 areas at the request of the Employment Standards Administration of the U.S. Department of Labor.

Average pay levels for men and women in selected occupations should not be assumed to reflect differences in pay of the sexes within individual establishments. Factors which may contribute to differences include progression within established rate ranges (only the rates paid incumbents are collected) and performance of specific duties within the general survey job descriptions. Job descriptions used to classify employees in these surveys usually are more generalized than those used in individual establishments and allow for minor differences among establishments in specific duties performed.

Occupational employment estimates represent the total in all establishments within the scope of the study and not the number actually surveyed. Because occupational structures among establishments differ, estimates of occupational employment obtained from the sample of establishments studied serve only to indicate the relative importance of the jobs studied. These differences in occupational structure do not affect materially the accuracy of the earnings data.

#### Wage trends for selected occupational groups

The percent increases presented in table A-7 are based on changes in average hourly earnings of men and women in establishments reporting the trend jobs in both the current and previous year (matched establishments). The data are adjusted to remove the effects on average earnings of employment shifts among establishments and turnover of establishments included in survey samples. The percent increases, however, are still affected by factors other than wage increases. Hirings, layoffs, and turnover may affect an establishment average for an occupation when workers are paid under plans providing a range of wage rates for individual jobs. In periods of increased hiring, for example, new employees may enter at the bottom of the range, depressing the average without a change in wage rates.

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

Occupations used to compute wage trends are:

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

#### Office clerical-Continued

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

#### Electronic data processing

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

#### Skilled maintenance

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

#### Industrial nurses

Registered industrial nurses

Unskilled plant

Janitors, porters, and cleaners Material handling laborers

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

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

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

#### Establishment practices and supplementary wage provisions

Tabulations on selected establishment practices and supplementary wage provisions (B-series tables) are not presented in this bulletin. Information for these tabulations is collected at 3-year intervals. These tabulations on minimum entrance salaries for inexperienced office workers; shift differentials; scheduled weekly hours and days; paid holidays; paid vacations; and health, insurance, and pension plans are presented (in the B-series tables) in previous bulletins for this area.

# Appendix table 1. Establishments and workers within scope of survey and number studied in Kansas City, Mo.—Kans., September 1977

	Minimum	Number of establishments		Workers in establishments		
Industry division <sup>2</sup>	employment in establish- ments in scope of study	Within scope of study 3	Studied	Within scope of study 4		
				Number	Percent	Studied
ALL ESTABLISHMENTS						
ALL DIVISIONS	-	1,121	237	268+260	100	152+239
ANUFACTURING	50	353	92	106 • 080	40	68+815
NONMANUFACTURING	-	768	145	162.180	60	83+424
TRANSPORTATION, COMMUNICATION, AND			77.7			
OTHER PUBLIC UTILITIES 5	50	113	36	42.711	16	33+342
WHOLESALE TRADE 6	50	153	19	22.103	8	6,393
RETAIL TRADE	50	221	31	48.515	18	23.189
FINANCE, INSURANCE, AND REAL ESTATE	50	137	23	23,216	9	8,807
SERVICES 6 7	50	144	36	25 • 635	10	11,693
LARGE ESTABLISHMENTS	<i>b</i>					
ALL DIVISIONS		92	78	133+385	100	121+454
ANUFACTURI :- G	50	27	26	54,476	41	53,953
ONMANUFACTURING	_	65	52	78,409	59	67,501
TRANSPORTATION - CUMMINICATION - AND			- 1			
OTHER PUBLIC UTILITIES 5	50	17	16	29.743	22	29,227
WHOLESALE TRADE 6	50	7	5	5.667	4	4 • 34 1
RETAIL TRADE	50	22	15	28 • 215	21	20,683
FINANCE . INSURANCE . AND REAL ESTATE	50	10	9	7 • 375	6	6.575
SERVICES 6 7	50	9	7	7.909	6	6,675

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

2 The 1972 edition of the Standard Industrial Classification Manual was

The 1972 edition of the Standard Industrial Classification Manual was used in classifying establishments by industry division. However, all government operations are excluded from the scope of the survey.

3 Includes all establishments with total employment at or above the minimum

Includes all establishments with total employment at or above the minimum limitation. All outlets (within the area) of companies in industries such as trade, finance, auto repair service, and motion picture theaters are considered as 1 establishment. 4 Includes all workers in all establishments with total employment (within the area) at or above the minimum limitation.

<sup>5</sup> Abbreviated to "public utilities" in the A-series tables. Taxicabs and services incidental to water transportation are excluded. The Kansas City transit system is municipally operated and is excluded from the scope of the survey.

<sup>6</sup> This division is represented in estimates for "all industries" and "non-manufacturing" in the A-series tables. Separate presentation of data is not made for one or more of the following reasons: (1) Employment is too small to provide enough data to merit separate study, (2) the sample was not designed initially to permit separate presentation, (3) response was insufficient or inadequate to permit separate presentation, and (4) there is possibility of disclosure of individual establishment data.

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

# Appendix B. Occupational Descriptions

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

## Office

#### SECRETARY

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

a. Receives telephone calls, personal callers, and incoming mail, answers routine inquiries, and routes technical inquiries to the proper persons;

b. Establishes, maintains, and revises the supervisor's files;

c. Maintains the supervisor's calendar and makes appointments as instructed;

d. Relays messages from supervisor to subordinates;

e. Reviews correspondence, memoranda, and reports prepared by others for the supervisor's signature to assure procedural and typographic accuracy;

f. Performs stenographic and typing work.

May also perform other cierical and secretarial tasks of comparable nature and difficulty. The work typically requires knowledge of office routine and understanding of the organization, programs, and procedures related to the work of the supervisor.

#### SECRETARY—Continued

#### Exclusions

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

a. Positions which do not meet the "personal" secretary concept described above;

b. Stenographers not fully trained in secretarial-type duties;

c. Stenographers serving as office assistants to a group of professional, technical, or managerial persons;

d. Secretary positions in which the duties are either substantially more routine or substantially more complex and responsible than those characterized in the definition;

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

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

#### SECRETARY—Continued

#### Exclusions-Continued

identify such positions. Vice presidents whose <u>primary</u> 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" <u>for purposes</u> of applying the following level definitions.

#### Class A

- 1. Secretary to the chairman of the board or president of a company that employs, in all, over 100 but fewer than 5,000 persons; or
- 2. Secretary to a corporate officer (other than the chairman of the board or president) of a company that employs, in all, over 5,000 but fewer than 25,000 persons; or
- 3. Secretary to the head, immediately below the corporate officer level, of a major segment or subsidiary of a company that employs, in all, over 25,000 persons.

#### Class B

- 1. Secretary to the chairman of the board or president of a company that employs, in all, fewer than 100 persons; or
- 2. Secretary to a corporate officer (other than the chairman of the board or president) of a company that employs, in all, over 100 but fewer than 5,000 persons; or
- 3. Secretary to the head, immediately below the officer level, over either a major corporationwide functional activity (e.g., marketing, research, operations, industrial relations, etc.) or a major geographic or organizational segment (e.g., a regional headquarters; a major division) of a company that employs, in all, over 5,000 but fewer than 25,000 employees; or
- 4. Secretary to the head of an individual plant, factory, etc. (or other equivalent level of official) that employs, in all, over 5,000 persons; or
- 5. Secretary to the head of a large and important organizational segment (e.g., a middle management supervisor of an organizational segment often involving as many as several hundred persons) or a company that employs, in all, over 25,000 persons.

#### Class C

- 1. Secretary to an executive or managerial person whose responsibility is not equivalent to one of the specific level situations in the definition for class B, but whose organizational unit normally numbers at least several dozen employees and is usually divided into organizational segments which are often, in turn, further subdivided. In some companies, this level includes a wide range of organizational echelons; in others, only one or two; or
- 2. Secretary to the head of an individual plant, factory, etc. (or other equivalent level of official) that employs, in all, fewer than 5,000 persons.

#### Class D

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

#### STENOGRAPHER

Primary duty is to take dictation using shorthand, and to transcribe the dictation. May also type from written copy. May operate from a stenographic pool. May occasionally transcribe from voice recordings (if primary duty is transcribing from recordings, see Transcribing-Machine Typist).

NOTE: This job is distinguished from that of a secretary in that a secretary normally works in a confidential relationship with only one manager or executive and performs more responsible and discretionary tasks as described in the secretary job definition.

#### Stenographer, General

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

#### Stenographer, Senior

Dictation involves a varied technical or specialized vocabulary such as in legal briefs or reports on scientific research. May also set up and maintain files, keep records, etc.

#### OR

Performs stenographic duties requiring significantly greater independence and responsibility than stenographer, general, as evidenced by the following: Work requires a high degree of stenographic speed and accuracy; a thorough working knowledge of general business and office procedure; and of the specific business operations, organization, policies, procedures, files, workflow, etc. Uses this knowledge in performing stenographic duties and responsible clerical tasks such as maintaining followup files; assembling material for reports, memoranda, and letters; composing simple letters from general instructions; reading and routing incoming mail; and answering routine questions, etc.

#### TRANSCRIBING-MACHINE TYPIST

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

#### TYPIST

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

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

#### TY PIST-Continued

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

#### FILE CLERK

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

<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:

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

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

#### ACCOUNTING CLERK

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

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

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

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

#### ACCOUNTING CLERK-Continued

and classifications, or tracing transactions through previous accounting actions to determine source of discrepancies. May be assisted by one or more class B accounting clerks.

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

#### BOOKKEEPING-MACHINE OPERATOR

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

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

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

#### MACHINE BILLER

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

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

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

#### PAYROLL CLERK

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

#### PAYROLL CLERK-Continued

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

#### KEYPUNCH OPERATOR

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

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

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

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

#### TABULATING-MACHINE OPERATOR

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

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

Class A. Performs complete reporting and tabulating assignments including devising difficult control panel wiring under general supervision. Assignments typically involve a variety of long and complex reports which often are irregular or nonrecurring, requiring some planning of the nature and sequencing of operations, and the use of a variety of machines. Is typically involved in training new operators in machine operations or training lower level operators in wiring from diagrams and in the operating sequences of long and complex reports. Does not include positions in which wiring responsibility is limited to selection and insertion of prewired boards.

Class B. Performs work according to established procedures and under specific instructions. Assignments typically involve complete but routine and recurring reports or parts of larger and more complex reports. Operates more difficult tabulating or electrical accounting machines such as the tabulator and calculator, in addition to the simpler machines used by class C operators. May be required to do some wiring from diagrams.

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

### **Professional and Technical**

COMPUTER SYSTEMS ANALYST, BUSINESS

Analyzes business problems to formulate procedures for solving them by use of electronic data processing equipment. Develops a complete description of all specifications needed to enable programmers to prepare required digital computer programs. Work involves most of the following: Analyzes subject-matter operations to be automated and identifies conditions and criteria required to achieve satisfactory results; specifies number and types of records, files, and documents to be used; outlines actions to be performed by personnel and computers in sufficient detail for presentation to management and for programming (typically this involves preparation of work and data flow charts); coordinates the development of test problems and participates in trial runs of new and revised systems; and recommends equipment changes to obtain more effective overall operations. (NOTE: Workers performing both systems analysis and programming should be classified as systems analysts if this is the skill used to determine their pay.)

Does not include employees primarily responsible for the management or supervision of other electronic data processing employees, or systems analysts primarily concerned with scientific or engineering problems.

For wage study purposes, systems analysts are classified as follows:

Class A. Works independently or under only general direction on complex problems involving all phases of system analysis. Problems are complex because of diverse sources of input data and multiple-use requirements of output data. (For example, develops an integrated production scheduling, inventory control, cost analysis, and sales analysis record in which every item of each type is automatically processed through the full system of records and appropriate followup actions are initiated by the computer.) Confers with persons concerned to determine the data processing problems and advises subject-matter personnel on the implications of new or revised systems of data processing operations. Makes recommendations, if needed, for approval of major systems installations or changes and for obtaining equipment.

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

Class B. Works independently or under only general direction on problems that are relatively uncomplicated to analyze, plan, program, and operate. Problems are of limited complexity because sources of input data are homogeneous and the output data are closely related. (For example, develops systems for maintaining depositor accounts in a bank, maintaining accounts receivable in a retail establishment, or maintaining inventory accounts in a manufacturing or wholesale establishment.) Confers with persons concerned to determine the data processing problems and advises subject-matter personnel on the implications of the data processing systems to be applied.

OR

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

#### COMPUTER SYSTEMS ANALYST, BUSINESS-Continued

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

#### COMPUTER PROGRAMMER, BUSINESS

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

Does not include employees primarily responsible for the management or supervision of other electronic data processing employees, or programmers primarily concerned with scientific and/or engineering problems.

For wage study purposes, programmers are classified as follows:

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

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

 $\ensuremath{\mathsf{May}}$  provide functional direction to lower level programmers who are assigned to assist.

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

OR

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

May guide or instruct lower level programmers.

<u>Class C.</u> Makes practical applications of programming practices and concepts usually learned in formal training courses. Assignments are designed to develop competence in the application of standard procedures to routine problems. Receives close supervision on new aspects of assignments; and work is reviewed to verify its accuracy and conformance with required procedures.

#### COMPUTER OPERATOR

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

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

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

Class B. Operates independently, or under only general direction, a computer running programs with most of the following characteristics: Most of the programs are established production runs, typically run on a regularly recurring basis; there is little or no testing of new programs required; alternate programs are provided in case original program needs

major change or cannot be corrected within a reasonably short time. In common error situations, diagnoses cause and takes corrective action. This usually involves applying previously programmed corrective steps, or using standard correction techniques.

OR

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

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

#### DRAFTER

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

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

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

#### DRAFTER-TRACER

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

#### AND/OR

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

#### ELECTRONICS TECHNICIAN

Works on various types of electronic equipment and related devices by performing one or a combination of the following: Installing, maintaining, repairing, overhauling, troubleshooting, modifying, constructing, and testing. Work requires practical application of technical knowledge of electronics principles, ability to determine malfunctions, and skill to put equipment in required operating condition.

The equipment—consisting of either many different kinds of circuits or multiple repetition of the same kind of circuit—includes, but is not limited to, the following: (a) Electronic transmitting and receiving equipment (e.g., radar, radio, television, telephone, sonar, navigational aids), (b) digital and analog computers, and (c) industrial and medical measuring and controlling equipment.

This classification excludes repairers of such standard electronic equipment as common office machines and household radio and television sets; production assemblers and testers; workers whose primary duty is servicing electronic test instruments; technicians who have administrative or supervisory responsibility; and drafters, designers, and professional engineers.

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

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

## Maintenance, Toolroom, and Powerplant

#### MAINTENANCE CARPENTER

Performs the carpentry duties necessary to construct and maintain in good repair building woodwork and equipment such as bins, cribs, counters, benches, partitions, doors, floors, stairs, casings, and trim made of wood in an establishment. Work involves most of the following: Planning and laying out of work from blueprints, drawings, models, or verbal instructions;

#### ELECTRONICS TECHNICIAN—Continued

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

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

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

Class C. Applies working technical knowledge to perform simple or routine tasks in working on electronic equipment, following detailed instructions which cover virtually all procedures. Work typically involves such tasks as: Assisting higher level technicians by performing such activities as replacing components, wiring circuits, and taking test readings; repairing simple electronic equipment; and using tools and common test instruments (e.g., multimeters, audio signal generators, tube testers, oscilloscopes). Is not required to be familiar with the interrelationships of circuits. This knowledge, however, may be acquired through assignments designed to increase competence (including classroom training) so that worker can advance to higher level technician.

Receives technical guidance, as required, from supervisor or higher level technician. Work is typically spot checked, but is given detailed review when new or advanced assignments are involved.

#### REGISTERED INDUSTRIAL NURSE

A registered nurse who gives nursing service under general medical direction to ill or injured employees or other persons who become ill or suffer an accident on the premises of a factory or other establishment. Duties involve a combination of the following: Giving first aid to the ill or injured; attending to subsequent dressing of employees' injuries; keeping records of patients treated; preparing accident reports for compensation or other purposes; assisting in physical examinations and health evaluations of applicants and employees; and planning and carrying out programs involving health education, accident prevention, evaluation of plant environment, or other activities affecting the health, welfare, and safety of all personnel. Nursing supervisors or head nurses in establishments employing more than one nurse are excluded.

#### MAINTENANCE CARPENTER-Continued

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

#### MAINTENANCE ELECTRICIAN

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

#### MAINTENANCE PAINTER

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

#### MAINTENANCE MACHINIST

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

#### MAINTENANCE MECHANIC (Machinery)

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

#### MAINTENANCE MECHANIC (Motor vehicle)

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

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

#### MAINTENANCE PIPEFITTER

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

#### MAINTENANCE SHEET-METAL WORKER

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

#### MILLWRIGHT

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

#### MAINTENANCE TRADES HELPER

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

#### MACHINE-TOOL OPERATOR (Toolroom)

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

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

## **Material Movement and Custodial**

#### TRUCKDRIVER

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

For wage study purposes, truckdrivers are classified by size and type of equipment, as follows: (Tractor-trailer should be rated on the basis of trailer capacity.)

#### TOOL AND DIE MAKER

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

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

#### STATIONARY ENGINEER

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

#### BOILER TENDER

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

#### TRUCKDRIVER-Continued

Truckdriver, light truck (under  $1\frac{1}{2}$  tons) Truckdriver, medium truck ( $1\frac{1}{2}$  to and including 4 tons) Truckdriver, heavy truck (trailer) (over 4 tons) Truckdriver, heavy truck (other than trailer) (over 4 tons)

#### SHIPPING AND RECEIVING CLERK

Prepares merchandise for shipment, or receives and is responsible for incoming shipments of merchandise or other materials. Shipping work involves: A knowledge of shipping procedures, practices, routes, available means of transportation, and rates; and preparing records of the goods

#### SHIPPING AND RECEIVING CLERK-Continued

shipped, making up bills of lading, posting weight and shipping charges, and keeping a file of shipping records. May direct or assist in preparing the merchandise for shipment. Receiving work involves: Verifying or directing others in verifying the correctness of shipments against bills of lading, invoices, or other records; checking for shortages and rejecting damaged goods; routing merchandise or materials to proper departments; and maintaining necessary records and files.

For wage study purposes, workers are classified as follows:

Shipping clerk
Receiving clerk
Shipping and receiving clerk

#### WAREHOUSEMAN

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

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

#### ORDER FILLER

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

#### SHIPPING PACKER

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

#### SHIPPING PACKER—Continued

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

#### MATERIAL HANDLING LABORER

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

#### POWER-TRUCK OPERATOR

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

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

Forklift operator Power-truck operator (other than forklift)

#### GUARD AND WATCHMAN

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

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

#### JANITOR, PORTER, OR CLEANER

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

# **Area Wage** Surveys

A list of the latest bulletins available is presented below. Bulletins may be purchased from any of the BLS regional offices shown on the back cover, or from the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402. Make checks payable to Superintendent of Documents. A directory of occupational wage surveys, covering the years 1950 through 1975, is available on request.

Area	Bulletin number and price*	
Akron, Ohio, Dec. 19761	1900-76,	85 cents
Albany-Schenectady-Troy, N.Y., Sept. 1977	1950-52,	80 cents
Anaheim-Santa Ana-Garden Grove,		
Calif., Oct. 1976	1900-67,	75 cents
Atlanta, Ga., May 1977	1950-17,	\$1.20
Baltimore, Md., Aug. 1977	1950-39.	\$1.20
Billings, Mont., July 1977 1	1950-40,	\$1.00
Birmingham, Ala., Mar. 1977	1950-8,	85 cents
Boston, Mass., Aug. 1977	1950-50,	\$1.20
Buffalo, N.Y., Oct. 1976	1900-70,	75 cents
Canton, Ohio, May 1977 1	1950-28,	\$1.10 .
Chattanooga, TennGa., Sept. 1977	1950-44.	70 cents
Chicago, Ill., May 1977 1	1950-41,	\$1.40
Cincinnati, Ohio-KyInd., July 1977	1950-45.	\$1.20
Cleveland, Ohio, Sept. 1977 1	1950-53.	\$1.40
Columbus, Ohio, Oct. 1976	1900-68,	75 cents
Corpus Christi, Tex., July 1977 1	1950-35,	\$1.00
Dallas-Fort Worth, Tex., Oct. 1976	1900-63,	85 cents
Davenport-Rock Island-Moline, Iowa-Ill., Feb. 1977 1	1950-26,	\$1.10
Dayton, Ohio, Dec. 1976	1900-78,	85 cents
Daytona Beach, Fla., Aug. 1977	1950-43,	\$1.00
Denver-Boulder, Colo., Dec. 1976	1900-73,	85 cents
Detroit, Mich., Mar. 1977	1950-13,	\$1.20
Fresno, Calif., June 1977	1950-30,	70 cents
Gainesville, Fla., Sept. 1977	1950-46,	\$1.00
Green Bay, Wis., July 1977	1950-36,	70 cents
Greensboro-Winston-Salem-High Point,		
N.C., Aug. 1977 1	1950-42,	\$1.10
Greenville-Spartanburg, S.C., June 1977	1950-33,	70 cents
Hartford, Conn., Mar. 1977	1950-9,	80 cents
Houston, Tex., Aug. 1977	1950-48.	\$1.40
Huntsville, Ala., Feb. 1977	1950-4.	\$1.40
Indianapolis, Ind., Oct. 1976	1900-58.	75 cents
Jackson, Miss., Jan. 1977 1	1950-2.	\$1.50
Jacksonville, Fla., Dec. 19761	1900-80.	
Kansas City, MoKans., Sept. 1977	1950-54.	\$1.00
Los Angeles-Long Beach, Calif., Oct. 1976	1900-77.	85 cents
Louisville, Ky.—Ind., Nov. 1976	1900-69.	55 cents
Memphis, Tenn.—Ark.—Miss., Nov. 1976 1	1900-75,	
	-/00-10,	os comos

Area		Bulletin number and price*	
Miami, Fla., Oct. 1976 Milwaukee, Wis., Apr. 1977	1900-66, 1950-14,	\$1.10	
Minneapolis-St. Paul, MinnWis., Jan. 1977 Nassau-Suffolk, N.Y., June 1977	1950-3, 1950-27,		
Newark, N.J., Jan. 1977 New Orleans, La., Jan. 1977 <sup>1</sup> New York, N.YN.J., May 1977	1950-7, 1950-5, 1950-31,		
Norfolk-Virginia Beach-Portsmouth, Va N.C., May 1977	1950-20,		
Norfolk-Virginia Beach-Portsmouth and Newport News-Hampton, VaN.C., May 1977	1950-21,		
Northeast Pennsylvania, Aug. 1977 <sup>1</sup> Oklahoma City, Okla., Aug. 1977 <sup>1</sup>	1950-38, 1950-49,	\$1.10	
Omaha, Nebr.—Iowa, Oct. 1976.————————————————————————————————————	1900-61, 1950-34,	70 cents	
Philadelphia, Pa.—N.J., Nov. 1976 <sup>1</sup> ————————————————————————————————————	1900-64, 1950-1,	\$1.50	
Portland, Maine, Dec. 1976 Portland, OregWash., May 1977 Poughkeepsie, N.Y., June 1977	1900-72, 1950-32, 1950-25,	\$1.20	
Poughkeepsie, N. I., June 1977  Poughkeepsie-Kingston-Newburgh, N.Y., June 1976  Providence-Warwick-Pawtucket, R.I	1900-55,		
Mass., June 1977 1	1950-22, 1950-23,		
St. Louis, MoIll., Mar. 1977Sacramento, Calif., Dec. 1976	1950-10, 1900-71,	55 cents	
Saginaw, Mich., Nov. 1976 Salt Lake City-Ogden, Utah, Nov. 1976	1900-74, 1900-65,	55 cents	
San Antonio, Tex., May 1977 1 San Diego, Calif., Nov. 1976	1950-24, 1900-79, 1950-29,	55 cents	
San Jose, Calif., Mar. 1977 Seattle-Everett, Wash., Jan 1977 1	1950-19, 1950-12,	\$1.00	
South Bend, Ind., Aug. 1977 Syracuse, N.Y., July 1976	1950-51, 1900-44,	\$1.10	
Toledo, Ohio-Mich., May 1977 Trenton, N.J., Sept. 1977	1950-18, 1950-47,	70 cents	
Utica-Rome, N.Y., July 1977 1 Washington, D.CMdVa., Mar. 1977	1950-37, 1950-11,	\$1.20	
Wichita, Kans., Apr. 1977	1950-16, 1950-15, 1950-6.	70 cents	

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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## **Bureau of Labor Statistics Regional Offices**

#### Region I

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

Connecticut Maine Massachusetts New Hampshire Rhode Island Vermont

#### Region V

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

Illinois Indiana Michigan Minnesota Ohio Wisconsin

#### Region II

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

New Jersey New York Puerto Rico Virgin Islands

#### Region VI

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

Arkansas Louisiana New Mexico Oklahoma Texas

#### Region III

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

Delaware District of Columbia Maryland Pennsylvania Virginia West Virginia

#### Regions VII and VIII

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

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

#### Region IV

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

Alabama Florida Georgia Kentucky Mississippi North Carolina South Carolina Tennessee

#### Regions IX and X

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

IX X
Arizona Alaska
California Idaho
Hawaii Oregon
Nevada Washington

