



**Area  
Wage  
Survey**

Los Angeles—Long Beach,  
California, Metropolitan Area  
October 1977

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# Preface

This bulletin provides results of an October 1977 survey of occupational earnings in the Los Angeles-Long Beach, California, 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 San Francisco, Calif., under the general direction of Milton Keenan, 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:

Available for the Los Angeles-Long Beach and Anaheim-Santa Ana-Garden Grove areas are reports on occupational earnings and supplementary benefits for the corrugated and solid fiber boxes (March 1976), nursing homes (May 1976), industrial chemicals (June 1976), paints and varnishes (November 1976), life insurance (December 1976), and banking (December 1976) industries. Reports on occupational earnings only in the Los Angeles-Long Beach area are available for the refuse hauling industry (October 1977). Listings of union wage rates are also available 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

# Los Angeles—Long Beach, California, Metropolitan Area October 1977

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

February 1978

Bulletin 1950-61



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# Introduction

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

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

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

## A-series tables

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

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

## Appendixes

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

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







**Table A-1. Weekly earnings of office workers in Los Angeles—Long Beach, Calif., October 1977—Continued**

Occupation and industry division	Number of workers	Average weekly hours <sup>1</sup> (standard)	Weekly earnings <sup>1</sup> (standard)			Number of workers receiving straight-time weekly earnings of—																				
			Mean <sup>2</sup>	Median <sup>2</sup>	Middle range <sup>2</sup>	\$ 90	\$ 100	\$ 110	\$ 120	\$ 130	\$ 140	\$ 150	\$ 160	\$ 170	\$ 180	\$ 190	\$ 200	\$ 210	\$ 220	\$ 240	\$ 260	\$ 280	\$ 300	\$ 320	\$ 340	\$ 360
						and under	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
						100	110	120	130	140	150	160	170	180	190	200	210	220	240	260	280	300	320	340	360	over
ALL WORKERS-- CONTINUED																										
ACCOUNTING CLERKS - CONTINUED																										
ACCOUNTING CLERKS, CLASS A -----	5,870	39.5	\$ 199.00	\$ 191.00	\$ 170.00-220.00	-	12	22	19	120	184	354	699	709	755	551	499	459	595	263	347	155	77	49	1	-
MANUFACTURING -----	2,609	39.5	195.50	184.00	170.00-214.00	-	-	-	-	24	43	173	384	512	320	229	225	174	169	141	86	74	40	15	-	-
NONMANUFACTURING -----	3,261	39.5	202.00	197.50	171.00-226.50	-	12	22	19	96	141	181	315	197	435	322	274	285	426	122	261	81	37	34	1	-
PUBLIC UTILITIES -----	457	40.0	238.50	243.50	202.50-265.00	-	-	-	-	-	3	22	8	21	27	31	20	17	71	32	157	12	10	26	-	-
WHOLESALE TRADE -----	971	40.0	200.00	195.00	177.00-222.00	-	12	-	-	30	33	15	141	26	169	115	23	98	207	30	69	1	1	1	-	-
RETAIL TRADE -----	355	40.0	207.50	199.50	180.00-220.00	-	-	-	-	-	2	13	14	53	27	77	68	10	33	12	10	30	6	-	-	-
FINANCE -----	871	38.0	172.50	171.50	150.50-194.00	-	-	22	19	66	101	126	98	86	106	75	81	57	15	19	-	-	-	-	-	-
SERVICES -----	478	39.0	201.50	203.00	184.00-218.00	-	-	-	-	-	2	3	49	9	105	22	80	102	97	9	-	-	-	-	-	-
MOTION PICTURES -----	129	39.5	270.00	281.00	242.00-291.00	-	-	-	-	-	-	2	5	2	1	2	2	1	3	20	25	38	20	7	1	-
ACCOUNTING CLERKS, CLASS B -----	6,218	39.5	172.00	161.00	140.50-190.00	-	106	190	494	582	740	773	701	553	527	310	224	128	213	316	122	156	13	70	-	-
MANUFACTURING -----	1,931	39.5	168.00	160.00	145.50-184.00	-	-	28	59	196	327	301	319	143	186	112	68	23	19	131	18	-	1	-	-	-
NONMANUFACTURING -----	4,287	39.5	173.50	162.50	139.00-194.00	-	106	162	435	386	413	472	382	410	341	198	156	105	194	185	104	156	12	70	-	-
PUBLIC UTILITIES -----	595	40.0	220.50	224.00	176.50-240.50	-	-	-	9	3	8	25	49	43	18	28	20	36	28	86	156	9	7	-	70	-
WHOLESALE TRADE -----	1,314	40.0	158.50	153.50	138.50-172.50	-	64	64	89	160	185	219	143	90	77	44	62	62	22	4	2	27	-	-	-	-
RETAIL TRADE -----	1,139	40.0	183.00	175.00	146.00-202.00	-	-	38	143	56	86	63	81	159	151	69	47	13	48	4	53	119	9	-	-	-
FINANCE -----	791	37.5	144.00	140.50	126.50-162.50	-	42	50	166	129	88	112	61	111	14	16	2	-	-	-	-	-	-	-	-	-
SERVICES -----	310	39.0	161.50	161.00	148.50-180.00	-	-	1	34	33	29	29	54	26	71	29	3	1	-	-	-	-	-	-	-	-
MOTION PICTURES -----	138	40.0	237.50	237.50	225.00-264.50	-	-	-	-	-	-	-	-	6	-	20	6	1	38	21	40	3	3	-	-	-
BOOKKEEPING-MACHINE OPERATORS -----	401	39.5	217.00	201.50	172.50-241.50	-	-	-	-	2	29	6	40	63	41	15	44	14	39	16	6	11	28	47	-	-
NONMANUFACTURING -----	302	39.5	213.50	201.50	170.00-230.00	-	-	-	-	-	29	4	34	63	8	4	44	10	35	16	4	4	-	47	-	-
BOOKKEEPING-MACHINE OPERATORS, CLASS A -----	223	39.5	229.00	219.00	195.50-262.50	-	-	-	-	2	4	-	44	3	4	41	14	-	39	16	6	11	28	11	-	-
NONMANUFACTURING -----	178	39.5	215.00	206.00	176.00-230.00	-	-	-	-	-	2	4	-	44	3	4	41	10	35	16	4	4	-	11	-	-
BOOKKEEPING-MACHINE OPERATORS, CLASS B -----	178	40.0	202.50	170.00	167.50-192.00	-	-	-	-	2	27	2	40	19	38	11	3	-	-	-	-	-	-	36	-	-
MACHINE BILLERS -----	739	39.5	240.50	218.00	167.00-329.00	-	13	-	-	-	58	36	111	72	28	-	15	38	13	33	37	-	-	285	-	-
NONMANUFACTURING -----	526	39.5	266.00	329.00	182.00-329.00	-	13	-	-	-	-	-	37	72	28	-	15	38	1	33	4	-	-	285	-	-
PUBLIC UTILITIES -----	289	40.0	327.50	329.00	329.00-329.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	-	-	285	-	-
BILLING-MACHINE BILLERS -----	502	39.5	262.00	329.00	167.00-329.00	-	-	-	-	-	58	6	80	18	28	-	-	-	12	-	15	-	-	285	-	-
NONMANUFACTURING -----	356	39.5	299.50	329.00	329.00-329.00	-	-	-	-	-	-	-	21	18	28	-	-	-	-	-	4	-	-	285	-	-
PUBLIC UTILITIES -----	289	40.0	327.50	329.00	329.00-329.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	-	-	285	-	-
BOOKKEEPING-MACHINE BILLERS -----	237	39.0	195.50	178.50	167.00-218.00	-	13	-	-	-	-	30	31	54	-	-	15	38	1	33	22	-	-	-	-	-
PAYROLL CLERKS -----	1,973	39.5	218.50	208.00	178.50-244.00	-	4	2	40	13	41	45	136	145	154	71	138	152	219	93	82	80	8	128	2	20
MANUFACTURING -----	648	40.0	209.00	208.00	178.50-234.00	-	-	-	-	-	13	25	80	51	69	53	35	102	68	64	44	43	1	-	-	-
NONMANUFACTURING -----	925	39.5	225.50	208.00	176.50-260.00	-	4	2	40	13	28	20	56	94	85	18	103	50	151	29	38	37	7	128	2	20
PUBLIC UTILITIES -----	219	40.0	287.00	337.00	222.50-337.00	-	-	-	5	2	-	-	1	11	-	3	1	31	14	11	6	5	2	125	2	-
WHOLESALE TRADE -----	161	39.5	213.00	208.00	184.00-236.50	-	-	-	-	-	2	-	-	18	33	4	34	1	49	10	10	-	-	-	-	-
RETAIL TRADE -----	156	39.5	187.00	178.50	149.00-213.00	-	-	2	28	7	4	8	14	15	16	4	16	8	16	-	3	14	1	-	-	-
FINANCE -----	149	38.0	174.50	176.50	152.00-201.00	-	4	-	7	4	21	6	27	27	11	3	24	8	5	2	-	-	-	-	-	-
SERVICES -----	163	39.5	201.00	206.00	172.50-230.00	-	-	-	-	-	1	5	14	23	25	3	28	1	63	-	-	-	-	-	-	-
MOTION PICTURES -----	77	39.5	302.00	291.00	274.00-385.00	-	-	-	-	-	-	1	-	-	-	1	-	1	4	6	19	18	4	3	-	*20

\* Workers were at \$380 to \$400.

See footnotes at end of tables.



**Table A-1. Weekly earnings of office workers in Los Angeles—Long Beach, Calif., October 1977—Continued**

Occupation and industry division	Number of workers	Average weekly hours <sup>1</sup> (standard)	Weekly earnings <sup>1</sup> (standard)			Number of workers receiving straight-time weekly earnings of—																				
			Mean <sup>2</sup>	Median <sup>2</sup>	Middle range <sup>2</sup>	\$ 90	\$ 100	\$ 110	\$ 120	\$ 130	\$ 140	\$ 150	\$ 160	\$ 170	\$ 180	\$ 190	\$ 200	\$ 210	\$ 220	\$ 240	\$ 260	\$ 280	\$ 300	\$ 320	\$ 340	\$ 360
						and under																				
<b>ALL WORKERS-- CONTINUED</b>						100	110	120	130	140	150	160	170	180	190	200	210	220	240	260	280	300	320	340	360	over
KEYPUNCH OPERATORS -----	6,507	39.5	\$ 186.50	\$ 177.00	\$ 159.00-208.00	-	43	46	133	247	390	839	750	975	680	495	330	257	367	622	199	115	15	4	-	-
MANUFACTURING -----	2,126	40.0	196.50	184.50	170.00-233.50	-	-	-	7	22	58	186	256	359	340	114	67	107	147	333	112	11	3	4	-	-
NONMANUFACTURING -----	4,381	39.5	181.50	174.00	154.00-201.50	-	43	46	126	225	332	653	494	616	340	381	263	150	220	289	87	104	12	-	-	-
PUBLIC UTILITIES -----	429	40.0	223.50	235.00	195.00-247.50	-	-	-	-	-	7	15	19	32	19	27	12	36	80	147	22	5	6	-	-	-
WHOLESALE TRADE -----	1,546	40.0	183.50	176.00	157.50-195.50	-	-	-	9	42	89	278	157	309	141	187	77	34	76	57	13	71	6	-	-	-
RETAIL TRADE -----	522	39.5	186.00	174.00	150.00-212.00	-	-	2	24	20	43	99	52	69	7	23	37	34	28	29	28	27	-	-	-	-
FINANCE -----	981	38.5	167.50	161.00	148.00-190.00	-	-	1	50	120	114	148	171	60	99	67	122	16	13	-	-	-	-	-	-	-
SERVICES -----	785	39.0	158.50	160.00	140.00-177.50	-	43	43	43	79	113	95	143	72	75	13	11	12	-	-	-	-	-	-	-	
MOTION PICTURES -----	118	39.5	243.00	250.00	228.50-255.50	-	-	-	-	-	-	-	3	2	2	2	17	11	56	24	1	-	-	-	-	
KEYPUNCH OPERATORS, CLASS A -----	2,993	39.5	193.50	185.00	167.50-218.00	-	30	-	2	57	123	292	316	399	429	288	160	195	272	227	136	48	15	4	-	-
MANUFACTURING -----	1,103	39.5	204.50	195.00	178.00-233.50	-	-	-	-	23	63	123	93	199	93	54	97	140	113	87	11	3	4	-	-	
NONMANUFACTURING -----	1,890	39.0	187.00	182.00	161.00-207.00	-	30	-	2	57	100	229	193	306	230	195	106	98	132	114	49	37	12	-	-	-
PUBLIC UTILITIES -----	118	40.0	237.50	237.50	214.00-256.00	-	-	-	-	-	-	-	5	3	5	3	24	27	25	17	3	6	-	-	-	
WHOLESALE TRADE -----	628	39.5	192.00	184.50	174.00-201.50	-	-	-	-	-	24	77	173	68	97	58	12	52	55	-	6	6	-	-	-	
RETAIL TRADE -----	196	39.5	216.00	212.00	177.50-251.00	-	-	-	2	2	1	29	4	12	7	2	14	32	26	18	20	27	-	-	-	-
FINANCE -----	388	38.0	171.50	165.50	155.50-190.00	-	-	-	-	25	39	83	61	35	82	18	16	16	13	-	-	-	-	-	-	-
SERVICES -----	519	39.0	165.50	165.00	150.00-184.00	-	30	-	-	30	60	93	51	80	68	71	13	11	12	-	-	-	-	-	-	-
MOTION PICTURES -----	41	39.5	246.00	255.50	228.00-274.00	-	-	-	-	-	-	-	1	2	2	2	3	2	16	12	1	-	-	-	-	
KEYPUNCH OPERATORS, CLASS B -----	3,514	39.5	180.00	172.00	152.00-198.00	-	13	46	131	190	267	547	434	576	251	207	170	62	95	395	63	67	-	-	-	-
MANUFACTURING -----	1,023	40.0	187.50	176.00	164.00-216.00	-	-	-	7	22	35	123	133	266	141	21	13	10	7	220	25	-	-	-	-	-
NONMANUFACTURING -----	2,491	39.5	177.00	167.00	150.00-195.50	-	13	46	124	168	232	424	301	310	110	186	157	52	88	175	38	67	-	-	-	-
PUBLIC UTILITIES -----	311	40.0	218.00	235.00	184.00-247.50	-	-	-	-	-	7	15	19	27	16	22	9	14	53	122	5	2	-	-	-	-
WHOLESALE TRADE -----	918	40.0	173.00	166.00	150.50-194.00	-	-	-	9	42	89	254	80	136	73	90	19	22	24	2	13	65	-	-	-	-
RETAIL TRADE -----	326	39.5	167.00	160.50	148.00-178.00	-	-	2	22	18	42	70	48	57	-	21	23	2	2	11	8	-	-	-	-	-
FINANCE -----	593	39.0	164.50	161.00	144.00-192.00	-	-	1	50	95	75	65	110	25	17	49	106	-	-	-	-	-	-	-	-	
MOTION PICTURES -----	77	40.0	241.50	248.00	229.50-255.50	-	-	-	-	-	-	-	-	2	-	-	-	14	9	40	12	-	-	-	-	-
TABULATING-MACHINE OPERATORS -----	120	40.0	229.50	247.50	214.50-260.00	-	-	-	7	7	1	1	-	1	2	1	8	16	4	40	21	11	-	-	-	-

See footnotes at end of tables.

**Table A-2. Weekly earnings of professional and technical workers in Los Angeles—  
Long Beach, Calif., October 1977**

Occupation and industry division	Number of workers	Average weekly hours <sup>1</sup> (standard)	Weekly earnings <sup>1</sup> (standard)			Number of workers receiving straight-time weekly earnings of—																				
			Mean <sup>2</sup>	Median <sup>2</sup>	Middle range <sup>2</sup>	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$					
						140	160	180	200	220	240	260	280	300	320	340	360	380	400	420	440	460	480	500	520	
			Under \$ 140	and under 160	180	200	220	240	260	280	300	320	340	360	380	400	420	440	460	480	500	520	and over			
ALL WORKERS																										
COMPUTER SYSTEMS ANALYSTS (BUSINESS) -----	2,131	39.5	\$ 381.00	\$ 376.00	\$ 328.00-425.50	-	-	-	-	8	18	33	85	95	180	223	204	280	268	151	140	104	120	91	65	66
MANUFACTURING -----	1,004	39.5	389.50	383.50	339.00-436.50	-	-	-	-	-	-	3	40	39	75	95	96	140	138	74	61	60	78	39	23	43
NONMANUFACTURING -----	1,127	39.5	373.50	368.00	322.00-419.50	-	-	-	8	18	30	45	56	105	128	108	140	130	77	79	44	42	52	42	23	
PUBLIC UTILITIES -----	119	40.0	438.50	430.50	378.50-487.50	-	-	-	-	-	-	-	-	1	2	8	20	11	10	10	7	14	17	5	*14	
WHOLESALE TRADE -----	249	40.0	350.50	335.50	322.00-398.00	-	-	-	-	1	6	17	12	24	70	8	33	48	13	13	2	1	-	1	-	
SERVICES -----	348	40.0	379.00	371.50	310.50-445.50	-	-	-	-	3	3	17	22	18	34	19	37	30	30	22	20	16	15	25	34	3
MOTION PICTURES -----	66	39.5	413.50	408.50	374.50-451.50	-	-	-	-	-	-	1	1	2	-	-	7	9	12	9	5	6	1	5	2	6
COMPUTER SYSTEMS ANALYSTS (BUSINESS), CLASS A -----	1,185	39.5	413.00	398.00	368.00-460.00	-	-	-	-	-	-	-	7	37	69	121	163	205	94	112	79	96	80	58	64	
MANUFACTURING -----	534	39.5	424.00	412.50	377.00-462.50	-	-	-	-	-	-	-	6	10	61	69	94	41	42	41	70	38	20	42		
NONMANUFACTURING -----	651	39.5	404.50	398.00	363.50-441.50	-	-	-	-	-	-	-	7	31	59	60	94	111	53	70	38	26	42	38	22	
PUBLIC UTILITIES -----	56	40.0	453.50	434.00	386.00-503.50	-	-	-	-	-	-	-	-	-	-	1	11	6	4	7	4	1	7	2	13	
WHOLESALE TRADE -----	149	40.0	374.00	387.00	335.50-398.00	-	-	-	-	-	-	-	-	-	-	38	4	31	46	13	13	2	1	-	1	
SERVICES -----	228	40.0	415.50	408.50	362.50-480.00	-	-	-	-	-	-	-	3	15	5	32	23	28	15	20	14	12	25	33	3	
MOTION PICTURES -----	46	39.5	436.00	421.00	384.50-481.00	-	-	-	-	-	-	-	-	-	-	-	3	4	9	7	4	5	1	5	2	**6
COMPUTER SYSTEMS ANALYSTS (BUSINESS), CLASS B -----	743	39.5	349.50	336.50	305.50-384.00	-	-	-	4	18	53	73	110	129	66	95	46	52	28	25	24	11	7	2		
MANUFACTURING -----	378	39.5	356.00	345.00	315.50-395.00	-	-	-	-	-	26	33	46	72	31	59	28	32	19	19	8	1	3	1		
NONMANUFACTURING -----	365	39.5	343.00	326.50	301.00-375.50	-	-	-	4	18	27	40	64	57	35	36	18	20	9	6	16	10	4	1		
PUBLIC UTILITIES -----	63	39.5	425.50	421.00	374.00-477.50	-	-	-	-	-	-	-	1	2	7	9	5	6	3	3	13	10	3	1		
COMPUTER SYSTEMS ANALYSTS (BUSINESS), CLASS C -----	203	39.5	310.50	309.50	276.00-349.00	-	-	-	8	14	15	32	15	33	25	17	22	17	5	-	-	-	-	-	-	
MANUFACTURING -----	92	40.0	328.50	320.50	297.50-374.00	-	-	-	-	3	14	6	23	13	4	12	16	1	-	-	-	-	-	-	-	
NONMANUFACTURING -----	111	39.5	295.50	299.00	251.50-342.00	-	-	-	8	14	12	18	9	10	12	13	10	1	4	-	-	-	-	-	-	
COMPUTER PROGRAMMERS (BUSINESS) -----	2,215	39.5	312.00	308.00	260.00-356.00	-	-	-	11	200	122	215	264	231	184	274	191	175	94	93	57	61	18	14	9	2
MANUFACTURING -----	799	39.5	327.50	325.00	283.00-372.00	-	-	-	7	35	30	50	76	104	71	94	98	76	36	41	34	16	9	11	9	2
NONMANUFACTURING -----	1,416	39.0	303.00	299.00	253.00-345.00	-	-	-	4	165	92	165	188	127	113	180	93	99	58	52	23	45	9	3	-	
PUBLIC UTILITIES -----	190	40.0	361.50	365.00	318.50-403.50	-	-	-	-	2	8	10	13	17	23	19	26	21	15	14	13	6	3	-	-	
WHOLESALE TRADE -----	375	40.0	292.00	276.50	253.00-322.00	-	-	-	-	20	36	45	94	11	37	76	37	7	7	1	3	1	-	-	-	
RETAIL TRADE -----	60	40.0	320.00	322.50	298.50-345.00	-	-	-	-	2	-	4	6	5	12	13	6	5	5	2	-	-	-	-	-	
FINANCE -----	451	37.5	290.00	282.00	247.50-324.50	-	-	-	-	2	28	50	77	66	68	26	48	26	43	11	1	5	-	-	-	
SERVICES -----	312	40.0	291.50	272.00	210.00-364.00	-	-	-	2	115	4	31	11	29	15	14	1	14	13	30	1	31	1	-	-	
MOTION PICTURES -----	26	40.0	351.50	341.50	317.00-377.50	-	-	-	-	-	-	1	1	6	6	4	4	1	3	-	-	2	-	-	-	
COMPUTER PROGRAMMERS (BUSINESS), CLASS A -----	796	39.0	366.50	365.00	328.00-400.00	-	-	-	-	1	21	24	39	68	104	106	140	71	80	42	57	18	14	9	2	
MANUFACTURING -----	318	40.0	375.50	375.00	333.50-414.00	-	-	-	-	6	7	11	34	33	36	59	25	36	26	14	9	11	9	2		
NONMANUFACTURING -----	478	39.0	361.00	360.50	324.00-397.00	-	-	-	1	15	17	28	34	71	70	81	46	44	16	43	9	3	-	-	-	
PUBLIC UTILITIES -----	77	40.0	393.50	384.00	365.00-445.00	-	-	-	-	-	-	4	5	5	4	16	9	7	7	11	6	3	-	-	-	
COMPUTER PROGRAMMERS (BUSINESS), CLASS B -----	1,063	39.5	292.50	290.00	260.00-322.00	-	-	-	1	103	59	103	206	173	96	152	82	33	23	13	15	4	-	-	-	
MANUFACTURING -----	378	39.5	310.00	300.00	277.00-341.50	-	-	-	-	23	20	55	90	29	57	62	16	11	5	8	2	-	-	-	-	
NONMANUFACTURING -----	685	39.5	282.50	276.00	253.00-315.50	-	-	-	1	103	36	83	151	83	67	95	20	17	12	8	7	2	-	-	-	
PUBLIC UTILITIES -----	78	40.0	353.50	358.00	315.50-394.50	-	-	-	-	5	5	7	4	6	13	9	12	8	7	2	-	-	-	-	-	
WHOLESALE TRADE -----	235	40.0	290.00	276.00	268.50-322.00	-	-	-	-	2	38	94	3	36	62	-	-	-	-	-	-	-	-	-	-	
FINANCE -----	160	38.0	276.00	276.00	244.50-299.00	-	-	-	1	8	31	13	36	43	9	11	3	5	-	-	-	-	-	-	-	

\* Workers were distributed as follows: 6 at \$520 to \$540; 3 at \$540 to \$560; 2 at \$560 to \$580; and 3 at \$580 to \$600.  
\*\* Workers were at \$540 to \$560.

See footnotes at end of tables.

**Table A-2. Weekly earnings of professional and technical workers in Los Angeles—  
Long Beach, Calif., October 1977—Continued**

Occupation and industry division	Number of workers	Average weekly hours <sup>1</sup> (standard)	Weekly earnings <sup>1</sup> (standard)			Number of workers receiving straight-time weekly earnings of—																																				
			Mean <sup>2</sup>	Median <sup>2</sup>	Middle range <sup>2</sup>																																					
						\$ 140 and under	\$ 160	\$ 180	\$ 200	\$ 220	\$ 240	\$ 260	\$ 280	\$ 300	\$ 320	\$ 340	\$ 360	\$ 380	\$ 400	\$ 420	\$ 440	\$ 460	\$ 480	\$ 500	\$ 520 and over																	
<b>ALL WORKERS-- CONTINUED</b>																																										
COMPUTER PROGRAMMERS (BUSINESS) - CONTINUED																																										
COMPUTER PROGRAMMERS (BUSINESS), CLASS C -----	356	39.5	247.50	245.00	218.50-265.50	-	-	-	10	97	62	91	34	19	20	18	3	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MANUFACTURING -----	103	40.0	243.50	250.00	215.00-266.00	-	-	-	7	35	7	24	14	3	8	4	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
NONMANUFACTURING -----	253	39.0	249.00	244.50	219.50-264.50	-	-	-	3	62	55	67	20	16	12	14	3	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
COMPUTER OPERATORS -----	2,873	39.5	228.00	221.00	190.00-258.00	2	171	259	476	491	336	478	263	182	111	57	29	7	6	4	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MANUFACTURING -----	1,903	40.0	233.50	229.00	191.00-267.00	-	26	94	209	119	110	171	85	95	33	33	19	3	1	4	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
NONMANUFACTURING -----	1,870	39.5	224.50	218.50	190.00-254.50	2	145	165	267	372	226	307	178	87	78	24	10	4	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
WHOLESALE TRADE -----	725	40.0	211.50	207.00	175.00-236.50	-	107	93	84	200	71	49	65	23	27	-	2	-	4	200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
RETAIL TRADE -----	138	40.0	247.50	236.00	212.00-295.50	-	-	6	10	28	28	12	11	17	17	9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FINANCE -----	355	38.5	225.50	220.50	200.00-249.00	-	8	11	70	82	69	59	28	12	16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SERVICES -----	335	39.5	203.00	195.00	179.50-225.00	2	30	54	102	49	34	43	11	6	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
MOTION PICTURES -----	36	39.5	285.50	291.00	260.00-305.00	-	-	-	-	4	-	5	5	11	4	3	3	3	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
COMPUTER OPERATORS, CLASS A -----	791	39.5	261.50	258.00	224.50-291.00	-	-	3	57	105	110	127	114	124	70	53	18	7	1	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MANUFACTURING -----	320	40.0	264.00	266.50	230.50-292.50	-	-	-	48	14	42	47	34	70	20	30	10	3	-	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
NONMANUFACTURING -----	471	39.5	259.50	258.00	222.00-288.00	-	-	3	9	91	68	80	80	54	50	23	6	4	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
PUBLIC UTILITIES -----	84	40.0	291.00	278.00	278.00-312.00	-	-	-	-	7	4	37	9	7	11	5	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
WHOLESALE TRADE -----	100	39.5	243.00	227.50	209.50-272.00	-	-	-	-	42	18	10	6	10	14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
FINANCE -----	93	38.0	252.00	255.50	214.50-276.50	-	-	1	9	16	9	16	19	11	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
SERVICES -----	103	39.5	241.00	242.00	216.50-258.00	-	-	2	-	28	21	34	9	5	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
MOTION PICTURES -----	30	40.0	292.00	294.50	266.50-305.00	-	-	-	-	2	-	4	3	11	3	3	3	3	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
COMPUTER OPERATORS, CLASS B -----	1,563	39.5	224.50	219.00	191.00-254.50	-	13	153	332	302	177	343	144	47	39	3	2	-	5	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
MANUFACTURING -----	572	40.0	223.00	217.00	185.00-250.00	-	6	59	142	98	51	124	50	23	11	2	2	-	1	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
NONMANUFACTURING -----	991	39.5	225.00	220.00	195.50-254.50	-	7	94	190	204	126	219	94	24	28	1	-	-	4	190	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
WHOLESALE TRADE -----	427	40.0	223.00	212.00	195.50-247.50	-	-	70	53	123	53	39	59	13	13	-	-	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
RETAIL TRADE -----	59	40.0	229.50	216.00	200.00-237.50	-	-	4	4	22	15	-	4	3	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
FINANCE -----	167	38.5	219.50	220.50	190.00-245.00	-	7	-	45	31	34	36	9	1	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
SERVICES -----	149	39.5	197.50	190.00	184.00-201.50	-	-	19	88	20	11	8	2	1	-	-	-	-	-	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
COMPUTER OPERATORS, CLASS C -----	519	39.5	187.50	178.50	150.00-218.50	2	158	103	87	84	49	8	5	11	2	1	9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
MANUFACTURING -----	111	40.0	200.00	183.00	175.00-220.50	-	20	35	19	7	17	-	1	2	2	1	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
NONMANUFACTURING -----	408	39.5	184.00	178.50	150.00-213.00	2	138	68	68	77	32	8	4	9	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
DRAFTERS -----	3,877	40.0	267.50	250.00	200.00-310.00	23	192	181	491	356	442	457	363	214	281	135	109	127	141	39	146	-	72	108	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
MANUFACTURING -----	2,336	40.0	223.50	226.00	190.50-260.00	21	180	180	349	252	366	360	285	118	98	48	56	17	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
NONMANUFACTURING -----	1,541	40.0	327.00	316.00	252.00-398.00	2	12	1	142	104	76	97	78	96	183	87	53	110	135	39	146	-	72	108	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
PUBLIC UTILITIES -----	222	40.0	296.50	292.00	254.50-330.00	-	-	22	1	3	13	41	43	23	18	27	15	30	7	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
DRAFTERS, CLASS A -----	1,560	40.0	332.50	304.50	265.00-398.00	-	-	-	-	8	81	214	207	161	217	65	58	79	105	39	146	-	72	108	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
MANUFACTURING -----	775	40.0	276.50	270.00	246.00-300.00	-	-	-	-	8	75	210	176	108	85	36	54	17	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
NONMANUFACTURING -----	785	40.0	387.50	398.00	310.00-423.50	-	-	-	-	-	6	4	31	53	132	29	4	62	99	39	146	-	72	108	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
PUBLIC UTILITIES -----	59	40.0	342.50	360.00	292.00-374.00	-	-	-	-	-	-	-	-	18	4	5	2	22	7																							

**Table A-2. Weekly earnings of professional and technical workers in Los Angeles—  
Long Beach, Calif., October 1977—Continued**

Occupation and industry division	Number of workers	Average weekly hours <sup>1</sup> (standard)	Weekly earnings <sup>1</sup> (standard)			Number of workers receiving straight-time weekly earnings of—																				
			Mean <sup>2</sup>	Median <sup>2</sup>	Middle range <sup>2</sup>	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$				
						140	160	180	200	220	240	260	280	300	320	340	360	380	400	420	440	460	480	500	520	
						Under and \$ 140																	and			
							160	180	200	220	240	260	280	300	320	340	360	380	400	420	440	460	480	500	520	over
<b>ALL WORKERS-- CONTINUED</b>																										
<b>DRAFTERS - CONTINUED</b>																										
DRAFTER-TRACERS -----	121	40.0	152.50	141.50	141.50-163.00	1	85	21	12	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MANUFACTURING -----	119	40.0	155.00	141.50	141.50-163.00	1	85	21	10	-	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	
ELECTRONICS TECHNICIANS -----	3,316	40.0	303.00	318.50	268.00-339.50	-	11	27	112	132	166	245	318	293	368	1021	313	217	61	7	-	25	-	-	-	
MANUFACTURING -----	1,866	40.0	281.00	280.00	250.00-325.50	-	11	19	100	112	137	212	282	236	250	386	83	17	14	7	-	-	-	-	-	
NONMANUFACTURING -----	1,450	40.0	332.00	339.50	331.00-345.00	-	-	8	12	20	29	33	36	57	118	635	230	200	47	-	-	25	-	-	-	
ELECTRONICS TECHNICIANS, CLASS A-----	1,593	40.0	317.00	323.50	291.00-340.00	-	-	-	-	11	45	75	164	160	315	421	129	207	59	7	-	-	-	-	-	
MANUFACTURING -----	1,126	40.0	306.00	317.50	279.50-329.00	-	-	-	-	11	45	75	152	126	233	367	82	16	12	7	-	-	-	-	-	
NONMANUFACTURING -----	467	40.0	343.50	362.00	316.50-362.00	-	-	-	-	-	-	-	12	34	82	54	47	191	47	-	-	-	-	-	-	
ELECTRONICS TECHNICIANS, CLASS B-----	1,456	40.0	301.00	339.50	260.00-339.50	-	-	1	31	78	87	155	139	124	49	600	180	10	2	-	-	-	-	-	-	
MANUFACTURING -----	565	40.0	254.50	254.00	232.00-280.00	-	-	-	31	73	72	127	118	104	17	19	1	1	2	-	-	-	-	-	-	
ELECTRONICS TECHNICIANS, CLASS C-----	234	40.0	208.00	199.00	188.50-224.50	-	11	26	81	43	34	15	15	9	-	-	-	-	-	-	-	-	-	-	-	
MANUFACTURING -----	175	40.0	205.50	194.50	188.00-221.00	-	11	19	69	28	20	10	12	6	-	-	-	-	-	-	-	-	-	-	-	
REGISTERED INDUSTRIAL NURSES -----	389	40.0	277.00	277.50	254.00-299.50	-	-	2	14	3	33	69	85	86	64	19	8	2	4	-	-	-	-	-	-	
MANUFACTURING -----	298	40.0	276.00	275.00	254.00-296.00	-	-	-	14	3	18	58	71	67	41	15	5	2	4	-	-	-	-	-	-	
NONMANUFACTURING -----	91	39.5	279.00	280.00	255.50-308.50	-	-	2	-	-	15	11	14	19	23	4	3	-	-	-	-	-	-	-	-	

See footnotes at end of tables.

**Table A-3. Average weekly earnings of office, professional, and technical workers, by sex, in Los Angeles—Long Beach, Calif., October 1977**

Sex, <sup>3</sup> occupation, and industry division	Number of workers	Average (mean <sup>2</sup> )		Sex, <sup>3</sup> occupation, and industry division	Number of workers	Average (mean <sup>2</sup> )		Sex, <sup>3</sup> occupation, and industry division	Number of workers	Average (mean <sup>2</sup> )	
		Weekly hours <sup>1</sup> (standard)	Weekly earnings <sup>1</sup> (standard)			Weekly hours <sup>1</sup> (standard)	Weekly earnings <sup>1</sup> (standard)			Weekly hours <sup>1</sup> (standard)	Weekly earnings <sup>1</sup> (standard)
OFFICE OCCUPATIONS - MEN			\$	OFFICE OCCUPATIONS - WOMEN--CONTINUED				OFFICE OCCUPATIONS - WOMEN--CONTINUED			
MESSENGERS -----	798	39.0	145.50	SECRETARIES - CONTINUED				TYPISTS - CONTINUED			
MANUFACTURING -----	129	39.5	165.00	SECRETARIES, CLASS C -----	7,231	39.0	227.50	TYPISTS, CLASS B -----	3,361	39.0	147.00
NONMANUFACTURING -----	669	39.0	142.00	MANUFACTURING -----	3,441	39.5	239.00	MANUFACTURING -----	866	40.0	168.00
FINANCE -----	455	39.0	138.00	NONMANUFACTURING -----	3,790	39.0	217.50	NONMANUFACTURING -----	2,495	39.0	139.50
ORDER CLERKS -----	996	40.0	237.00	PUBLIC UTILITIES -----	627	39.0	236.00	WHOLESALE TRADE -----	264	39.5	127.00
MANUFACTURING -----	149	40.0	203.00	WHOLESALE TRADE -----	404	40.0	213.50	FINANCE -----	1,655	39.0	134.00
NONMANUFACTURING -----	847	40.0	243.00	RETAIL TRADE -----	123	40.0	200.50	MOTION PICTURES -----	3	40.0	255.50
WHOLESALE TRADE -----	846	40.0	243.00	FINANCE -----	1,573	39.0	201.50	FILE CLERKS -----	2,741	39.0	141.00
ACCOUNTING CLERKS:				MOTION PICTURES -----	173	39.0	270.50	MANUFACTURING -----	249	39.5	162.50
NONMANUFACTURING:				SECRETARIES, CLASS D -----	6,215	39.0	205.50	NONMANUFACTURING -----	2,492	39.0	139.00
WHOLESALE TRADE -----	288	40.0	186.00	MANUFACTURING -----	2,486	39.5	207.00	PUBLIC UTILITIES -----	170	40.0	254.00
FINANCE -----	179	38.0	157.00	NONMANUFACTURING -----	3,729	39.0	204.50	WHOLESALE TRADE -----	647	40.0	131.50
SERVICES -----	211	39.0	194.50	PUBLIC UTILITIES -----	514	39.0	220.50	FINANCE -----	1,473	38.5	126.50
ACCOUNTING CLERKS, CLASS A -----	738	39.5	201.00	WHOLESALE TRADE -----	489	40.0	211.00	SERVICES -----	107	38.0	140.00
MANUFACTURING -----	243	39.5	194.50	RETAIL TRADE -----	111	40.0	212.00	FILE CLERKS, CLASS A -----	304	39.0	169.50
NONMANUFACTURING -----	495	39.5	204.50	FINANCE -----	1,450	38.5	189.00	NONMANUFACTURING -----	283	39.0	164.50
WHOLESALE TRADE -----	169	40.0	202.00	MOTION PICTURES -----	278	39.5	259.50	FILE CLERKS, CLASS B -----	732	39.0	152.50
FINANCE -----	119	38.5	166.00	STENOGRAPHERS -----	2,947	39.5	202.50	NONMANUFACTURING -----	705	39.0	151.00
MACHINE BILLERS -----	181	40.0	325.00	MANUFACTURING -----	1,139	40.0	224.00	FINANCE -----	464	38.5	138.00
BILLING-MACHINE BILLERS -----	181	40.0	325.00	NONMANUFACTURING -----	1,808	39.5	189.00	FILE CLERKS, CLASS C -----	1,705	39.0	131.00
PAYROLL CLERKS -----	177	39.5	269.00	PUBLIC UTILITIES -----	254	39.5	241.00	MANUFACTURING -----	201	40.0	152.00
NONMANUFACTURING -----	132	39.5	276.00	WHOLESALE TRADE -----	277	40.0	190.00	NONMANUFACTURING -----	1,504	39.0	126.50
MOTION PICTURES -----	40	40.0	334.50	FINANCE -----	727	39.5	166.00	WHOLESALE TRADE -----	464	40.0	123.50
OFFICE OCCUPATIONS - WOMEN				SERVICES -----	403	39.5	182.50	FINANCE -----	885	38.5	116.50
SECRETARIES -----	19,072	39.5	228.50	STENOGRAPHERS, GENERAL -----	985	39.5	188.50	MESSENGERS -----	364	39.0	139.00
MANUFACTURING -----	8,508	39.5	237.50	MANUFACTURING -----	339	40.0	198.00	MANUFACTURING -----	109	39.0	135.00
NONMANUFACTURING -----	10,564	39.0	221.00	NONMANUFACTURING -----	646	39.5	183.00	NONMANUFACTURING -----	255	39.0	140.50
PUBLIC UTILITIES -----	1,518	39.0	245.50	FINANCE -----	170	39.5	149.50	FINANCE -----	144	38.5	123.00
WHOLESALE TRADE -----	1,314	40.0	223.50	STENOGRAPHERS, SENIOR -----	1,962	39.5	209.50	SWITCHBOARD OPERATORS -----	2,065	39.0	164.50
RETAIL TRADE -----	628	40.0	223.00	MANUFACTURING -----	800	40.0	235.00	MANUFACTURING -----	538	39.5	196.00
FINANCE -----	4,098	39.0	204.00	NONMANUFACTURING -----	1,162	39.5	192.00	NONMANUFACTURING -----	1,527	39.0	153.50
MOTION PICTURES -----	718	39.5	268.00	WHOLESALE TRADE -----	189	40.0	200.00	WHOLESALE TRADE -----	166	40.0	147.00
SECRETARIES, CLASS A -----	1,267	39.5	271.50	SERVICES -----	272	39.0	188.00	RETAIL TRADE -----	158	40.0	151.50
MANUFACTURING -----	602	40.0	275.00	TRANSCRIBING-MACHINE TYPISTS -----	471	38.0	173.00	FINANCE -----	404	39.0	146.50
NONMANUFACTURING -----	665	39.5	268.50	NONMANUFACTURING -----	401	38.0	167.50	SERVICES -----	603	38.0	137.50
PUBLIC UTILITIES -----	110	39.5	324.50	FINANCE -----	347	37.5	165.50	MOTION PICTURES -----	91	39.5	235.50
WHOLESALE TRADE -----	103	39.5	246.50	TYPISTS -----	5,426	39.0	160.00	SWITCHBOARD OPERATOR-RECEPTIONISTS -----	1,973	39.5	164.00
FINANCE -----	196	38.5	244.50	MANUFACTURING -----	1,551	39.5	182.50	MANUFACTURING -----	720	40.0	161.00
SECRETARIES, CLASS B -----	4,040	39.5	251.50	NONMANUFACTURING -----	3,875	39.0	151.00	NONMANUFACTURING -----	1,253	39.5	166.00
MANUFACTURING -----	1,932	39.5	263.50	PUBLIC UTILITIES -----	133	40.0	203.50	WHOLESALE TRADE -----	450	40.0	168.50
NONMANUFACTURING -----	2,108	39.5	240.00	WHOLESALE TRADE -----	314	39.5	136.00	RETAIL TRADE -----	184	39.5	153.50
PUBLIC UTILITIES -----	267	39.5	283.00	FINANCE -----	2,455	39.0	142.00	FINANCE -----	311	38.5	144.00
WHOLESALE TRADE -----	318	40.0	249.00	SERVICES -----	815	39.0	168.00	SERVICES -----	154	39.0	161.50
RETAIL TRADE -----	149	40.0	228.50	TYPISTS, CLASS A -----	2,065	39.0	181.00	ORDER CLERKS -----	2,242	40.0	183.00
FINANCE -----	879	39.0	223.50	MANUFACTURING -----	685	39.5	200.50	MANUFACTURING -----	978	40.0	187.00
MOTION PICTURES -----	109	40.0	255.00	NONMANUFACTURING -----	1,380	39.0	172.00	NONMANUFACTURING -----	1,264	39.5	179.50
				FINANCE -----	800	39.0	158.00	WHOLESALE TRADE -----	1,202	39.5	179.50
				SERVICES -----	390	39.0	181.00				

See footnotes at end of tables.

**Table A-3. Average weekly earnings of office, professional, and technical workers, by sex, in Los Angeles—Long Beach, Calif., October 1977—Continued**

Sex, <sup>3</sup> occupation, and industry division	Number of workers	Average (mean <sup>2</sup> )		Sex, <sup>3</sup> occupation, and industry division	Number of workers	Average (mean <sup>2</sup> )		Sex, <sup>3</sup> occupation, and industry division	Number of workers	Average (mean <sup>2</sup> )	
		Weekly hours (standard)	Weekly earnings <sup>1</sup> (standard)			Weekly hours (standard)	Weekly earnings <sup>1</sup> (standard)			Weekly hours (standard)	Weekly earnings <sup>1</sup> (standard)
<b>OFFICE OCCUPATIONS - WOMEN--CONTINUED</b>			\$	<b>OFFICE OCCUPATIONS - WOMEN--CONTINUED</b>			\$	<b>PROFESSIONAL AND TECHNICAL OCCUPATIONS - MEN--CONTINUED</b>			
ACCOUNTING CLERKS -----	10,281	39.5	183.00	KEYPUNCH OPERATORS -----	6,143	39.5	185.00	COMPUTER PROGRAMMERS (BUSINESS) - CONTINUED			
MANUFACTURING -----	4,005	39.5	184.00	MANUFACTURING -----	2,069	40.0	196.50				
NONMANUFACTURING -----	6,276	39.5	182.00	NONMANUFACTURING -----	4,074	39.5	179.00	COMPUTER PROGRAMMERS (BUSINESS), CLASS A -----	664	39.0	369.50
WHOLESALE TRADE -----	1,997	40.0	174.50	WHOLESALE TRADE -----	1,540	40.0	183.50	MANUFACTURING -----	252	40.0	378.00
RETAIL TRADE -----	1,448	40.0	189.50	RETAIL TRADE -----	510	39.5	186.50	NONMANUFACTURING -----	412	39.0	364.50
FINANCE -----	1,475	38.0	159.00	FINANCE -----	952	38.5	168.00	PUBLIC UTILITIES -----	61	40.0	401.00
SERVICES -----	539	39.0	181.50	SERVICES -----	708	38.5	156.50				
MOTION PICTURES -----	114	39.5	246.00	MOTION PICTURES -----	82	39.5	241.00	COMPUTER PROGRAMMERS (BUSINESS), CLASS B -----	845	39.5	294.50
ACCOUNTING CLERKS, CLASS A -----	5,005	39.5	198.00	KEYPUNCH OPERATORS, CLASS A -----	2,873	39.5	193.50	MANUFACTURING -----	275	39.5	319.00
MANUFACTURING -----	2,319	39.5	196.00	MANUFACTURING -----	1,064	39.5	205.50	NONMANUFACTURING -----	570	39.5	282.50
NONMANUFACTURING -----	2,686	39.0	200.00	NONMANUFACTURING -----	1,809	39.0	186.50	PUBLIC UTILITIES -----	64	40.0	352.00
PUBLIC UTILITIES -----	405	40.0	239.50	PUBLIC UTILITIES -----	117	40.0	237.00	WHOLESALE TRADE -----	226	40.0	291.50
WHOLESALE TRADE -----	802	40.0	199.50	WHOLESALE TRADE -----	628	39.5	192.00	COMPUTER PROGRAMMERS (BUSINESS), CLASS C -----	234	39.5	250.00
RETAIL TRADE -----	347	40.0	207.00	RETAIL TRADE -----	195	39.5	218.00	MANUFACTURING -----	66	40.0	242.50
FINANCE -----	746	38.0	173.50	FINANCE -----	373	38.0	172.00	NONMANUFACTURING -----	168	39.0	253.00
SERVICES -----	328	39.0	196.50	SERVICES -----	464	39.0	161.50	COMPUTER OPERATORS -----	1,979	39.5	230.00
ACCOUNTING CLERKS, CLASS B -----	5,276	39.5	168.50	KEYPUNCH OPERATORS, CLASS B -----	3,270	39.5	177.50	MANUFACTURING -----	720	40.0	234.50
MANUFACTURING -----	1,686	40.0	168.00	MANUFACTURING -----	1,005	40.0	187.50	NONMANUFACTURING -----	1,259	39.5	227.50
NONMANUFACTURING -----	3,590	39.5	168.50	NONMANUFACTURING -----	2,265	39.5	173.00	WHOLESALE TRADE -----	476	40.0	226.50
WHOLESALE TRADE -----	1,195	40.0	158.00	WHOLESALE TRADE -----	912	40.0	177.50	RETAIL TRADE -----	118	40.0	242.50
RETAIL TRADE -----	1,101	40.0	184.00	RETAIL TRADE -----	315	39.5	166.50	FINANCE -----	293	38.0	229.00
FINANCE -----	729	37.5	144.00	FINANCE -----	579	39.0	165.00	MOTION PICTURES -----	26	39.5	278.00
SERVICES -----	211	39.0	158.50					COMPUTER OPERATORS, CLASS A -----	610	39.5	264.00
MOTION PICTURES -----	56	40.0	232.00	<b>PROFESSIONAL AND TECHNICAL OCCUPATIONS - MEN</b>				MANUFACTURING -----	222	40.0	277.00
BOOKKEEPING-MACHINE OPERATORS -----	356	39.5	214.00	COMPUTER SYSTEMS ANALYSTS (BUSINESS) -----	1,467	39.5	385.00	NONMANUFACTURING -----	388	39.5	256.50
NONMANUFACTURING -----	257	39.5	208.50	MANUFACTURING -----	673	39.5	400.00	WHOLESALE TRADE -----	98	39.5	243.00
BOOKKEEPING-MACHINE OPERATORS, CLASS A -----	196	39.0	235.00	NONMANUFACTURING -----	794	39.5	372.50	FINANCE -----	90	38.0	253.00
NONMANUFACTURING -----	151	39.5	220.00	PUBLIC UTILITIES -----	90	40.0	442.50	COMPUTER OPERATORS, CLASS B -----	1,115	39.5	220.00
BOOKKEEPING-MACHINE OPERATORS, CLASS B -----	160	40.0	188.00	WHOLESALE TRADE -----	229	40.0	352.50	MANUFACTURING -----	446	40.0	217.00
MACHINE BILLERS -----	558	39.5	213.50	COMPUTER SYSTEMS ANALYSTS (BUSINESS), CLASS A -----	821	39.5	416.00	NONMANUFACTURING -----	53	40.0	224.50
NONMANUFACTURING -----	356	39.0	236.50	MANUFACTURING -----	374	39.5	430.50	WHOLESALE TRADE -----	337	40.0	226.50
PUBLIC UTILITIES -----	119	40.0	327.00	NONMANUFACTURING -----	447	39.5	404.50	RETAIL TRADE -----	53	40.0	224.50
BILLING-MACHINE BILLERS -----	321	39.5	226.50	WHOLESALE TRADE -----	141	40.0	378.50	FINANCE -----	125	38.0	223.00
NONMANUFACTURING -----	186	39.5	273.00	MOTION PICTURES -----	27	39.5	415.50	COMPUTER OPERATORS, CLASS C -----	254	39.5	192.00
PUBLIC UTILITIES -----	119	40.0	327.00	COMPUTER SYSTEMS ANALYSTS (BUSINESS), CLASS B -----	506	39.5	354.00	MANUFACTURING -----	52	39.5	202.00
BOOKKEEPING-MACHINE BILLERS -----	237	39.0	195.50	MANUFACTURING -----	237	39.5	368.50	NONMANUFACTURING -----	202	39.5	189.50
PAYROLL CLERKS -----	1,367	39.5	212.00	NONMANUFACTURING -----	269	39.5	341.50	DRAFTERS -----	3,290	40.0	272.50
MANUFACTURING -----	586	40.0	207.00	COMPUTER SYSTEMS ANALYSTS (BUSINESS), CLASS C -----	140	39.5	313.50	MANUFACTURING -----	1,895	40.0	228.00
NONMANUFACTURING -----	781	39.5	216.00	COMPUTER PROGRAMMERS (BUSINESS) -----	1,743	39.5	317.00	NONMANUFACTURING -----	1,395	40.0	333.50
PUBLIC UTILITIES -----	172	40.0	279.50	MANUFACTURING -----	593	39.5	335.50	PUBLIC UTILITIES -----	142	40.0	308.00
WHOLESALE TRADE -----	152	39.5	214.50	NONMANUFACTURING -----	1,150	39.0	307.50	DRAFTERS, CLASS A -----	1,353	40.0	342.50
RETAIL TRADE -----	151	39.5	188.00	PUBLIC UTILITIES -----	154	40.0	362.50	NONMANUFACTURING -----	748	40.0	392.00
FINANCE -----	126	38.0	173.00	WHOLESALE TRADE -----	329	40.0	299.50	PUBLIC UTILITIES -----	58	40.0	342.00
SERVICES -----	155	39.5	201.50	RETAIL TRADE -----	52	40.0	322.50	DRAFTERS, CLASS B -----	1,159	40.0	246.50
MOTION PICTURES -----	25	39.0	269.50	FINANCE -----	341	37.5	298.50	MANUFACTURING -----	785	40.0	221.50
				SERVICES -----	261	40.0	292.50	NONMANUFACTURING -----	374	40.0	298.50
								PUBLIC UTILITIES -----	75	40.0	285.50

See footnotes at end of tables.

**Table A-3. Average weekly earnings of office, professional, and technical workers, by sex, in Los Angeles—Long Beach, Calif., October 1977—Continued**

Sex, <sup>3</sup> occupation, and industry division	Number of workers	Average (mean <sup>2</sup> )		Sex, <sup>3</sup> occupation, and industry division	Number of workers	Average (mean <sup>2</sup> )		Sex, <sup>3</sup> occupation, and industry division	Number of workers	Average (mean <sup>2</sup> )	
		Weekly hours (standard)	Weekly earnings <sup>1</sup> (standard)			Weekly hours <sup>1</sup> (standard)	Weekly earnings <sup>1</sup> (standard)			Weekly hours <sup>1</sup> (standard)	Weekly earnings <sup>1</sup> (standard)
PROFESSIONAL AND TECHNICAL OCCUPATIONS - MEN--CONTINUED				PROFESSIONAL AND TECHNICAL OCCUPATIONS - WOMEN--CONTINUED				PROFESSIONAL AND TECHNICAL OCCUPATIONS - WOMEN--CONTINUED			
DRAFTERS - CONTINUED				COMPUTER SYSTEMS ANALYSTS (BUSINESS) - CONTINUED				COMPUTER OPERATORS:			\$
DRAFTERS, CLASS C -----	696	40.0	195.00	COMPUTER SYSTEMS ANALYSTS (BUSINESS), CLASS C -----	53	39.5	301.50	MANUFACTURING -----	262	40.0	230.50
MANUFACTURING -----	424	40.0	178.00	COMPUTER PROGRAMMERS (BUSINESS) ---	408	39.0	291.00	NONMANUFACTURING:			
PROFESSIONAL AND TECHNICAL OCCUPATIONS - WOMEN				MANUFACTURING -----	173	40.0	305.00	WHOLESALE TRADE -----	249	40.0	183.00
COMPUTER SYSTEMS ANALYSTS (BUSINESS):				NONMANUFACTURING -----	235	38.5	280.00	COMPUTER OPERATORS, CLASS A:			
NONMANUFACTURING -----	293	39.0	368.50	COMPUTER PROGRAMMERS (BUSINESS), CLASS A -----	117	39.0	345.50	MANUFACTURING -----	83	40.0	235.50
COMPUTER SYSTEMS ANALYSTS (BUSINESS), CLASS A:				MANUFACTURING -----	57	40.0	360.50	COMPUTER OPERATORS, CLASS B:			
NONMANUFACTURING -----	170	39.0	394.00	NONMANUFACTURING -----	60	38.5	331.50	MANUFACTURING -----	123	40.0	242.00
COMPUTER SYSTEMS ANALYSTS (BUSINESS), CLASS B:				COMPUTER PROGRAMMERS (BUSINESS), CLASS C -----	117	39.5	242.50	COMPUTER OPERATORS, CLASS C -----	247	40.0	181.50
NONMANUFACTURING -----	90	39.5	345.50	NONMANUFACTURING -----	83	39.0	242.00	MANUFACTURING -----	56	40.0	197.50
								NONMANUFACTURING -----	191	40.0	176.50
								DRAFTERS:			
								NONMANUFACTURING -----	124	40.0	262.50
								REGISTERED INDUSTRIAL NURSES -----	361	40.0	278.50
								MANUFACTURING -----	282	40.0	278.50
								NONMANUFACTURING -----	79	39.5	277.00

See footnotes at end of tables.

**Table A-4. Hourly earnings of maintenance, toolroom, and powerplant workers in Los Angeles—  
Long Beach, Calif., October 1977**

Occupation and industry division	Number of workers	Hourly earnings <sup>4</sup>			Number of workers receiving straight-time hourly earnings of—																								
		Mean <sup>2</sup>	Median <sup>2</sup>	Middle range <sup>2</sup>	Number of workers receiving straight-time hourly earnings of—																								
					Under \$ 4.40	\$ 4.40 and under	\$ 4.60	\$ 4.80	\$ 5.00	\$ 5.20	\$ 5.40	\$ 5.60	\$ 5.80	\$ 6.00	\$ 6.20	\$ 6.40	\$ 6.60	\$ 6.80	\$ 7.00	\$ 7.20	\$ 7.60	\$ 8.00	\$ 8.40	\$ 8.80	\$ 9.20	\$ 9.60	\$ 10.00	over	
ALL WORKERS																													
MAINTENANCE CARPENTERS -----	607	\$ 7.45	\$ 7.70	\$ 6.45- 8.16	1	2	2	8	28	32	5	6	8	53	19	13	29	19	39	158	53	36	50	12	34	-	-	-	-
MANUFACTURING -----	406	7.36	7.75	6.49- 7.87	-	-	-	1	23	29	-	1	6	31	17	11	6	15	20	152	32	36	23	1	2	-	-	-	
NONMANUFACTURING -----	201	7.64	7.56	6.23- 8.87	1	-	2	7	5	3	5	5	2	22	2	2	23	4	19	6	21	-	27	11	32	-	-		
SERVICES -----	60	7.97	8.01	7.26- 8.87	1	-	-	1	1	-	1	2	-	3	2	1	-	2	10	-	7	-	20	9	-	-	-		
MAINTENANCE ELECTRICIANS -----	2,133	8.03	8.11	7.32- 8.79	-	-	-	-	-	1	49	-	61	79	21	19	39	171	356	226	360	247	176	249	5	74	-	-	
MANUFACTURING -----	1,765	7.96	8.01	7.20- 8.56	-	-	-	-	-	-	48	-	61	75	21	18	36	168	337	115	347	223	-	238	4	74	-	-	
NONMANUFACTURING -----	368	8.39	8.86	7.87- 8.86	-	-	-	-	-	1	1	-	-	4	-	1	3	3	19	111	13	24	176	11	1	-	-		
SERVICES -----	63	8.44	8.87	8.35- 8.87	-	-	-	-	-	-	-	-	-	3	-	1	3	-	6	-	11	5	27	6	1	-	-		
MOTION PICTURES -----	94	7.99	7.88	7.87- 7.89	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	82	-	6	6	-	-	-	-		
MAINTENANCE PAINTERS -----	516	7.67	7.59	7.16- 8.52	-	1	-	1	-	3	5	18	26	26	15	9	15	22	137	63	45	25	83	18	4	-	-		
MANUFACTURING -----	347	7.68	7.59	7.41- 8.15	-	1	-	-	-	1	2	13	-	24	8	9	7	5	134	27	39	21	52	3	1	-	-		
NONMANUFACTURING -----	169	7.64	7.80	6.46- 8.87	-	-	-	1	-	2	3	5	26	2	7	-	6	17	3	36	6	4	31	15	3	-	-		
SERVICES -----	98	7.87	8.51	6.16- 8.87	-	-	-	-	-	-	-	-	25	2	1	-	1	15	1	3	1	4	27	15	3	-	-		
MAINTENANCE MACHINISTS -----	1,054	7.76	7.63	6.95- 8.52	-	-	-	6	-	-	-	-	24	24	66	40	44	77	161	82	89	142	72	90	37	69	31	-	
MANUFACTURING -----	876	7.62	7.26	6.80- 8.33	-	-	-	6	-	-	-	-	24	24	66	40	44	77	136	82	72	97	65	24	17	69	31	-	
NONMANUFACTURING -----	178	8.42	8.63	8.39- 8.86	-	-	-	-	-	-	-	-	-	-	-	-	-	23	-	17	45	7	66	20	-	-	-		
MAINTENANCE MECHANICS (MACHINERY) -----	3,817	7.08	7.10	6.22- 7.84	-	2	15	6	138	73	87	261	115	194	248	140	71	332	365	373	548	467	191	152	14	25	-	-	
MANUFACTURING -----	3,522	7.02	7.08	6.20- 7.83	-	2	15	6	138	71	87	253	111	190	243	131	67	314	361	340	506	382	158	108	14	25	-	-	
NONMANUFACTURING -----	295	7.86	8.32	7.23- 8.44	-	-	-	-	-	2	-	8	4	4	5	9	4	18	4	33	42	85	33	44	-	-	-		
MAINTENANCE MECHANICS (MOTOR VEHICLES) -----	2,426	8.22	8.28	7.46- 9.45	-	4	-	-	4	1	6	103	17	46	61	51	70	96	27	256	312	175	161	256	640	140	-	-	
MANUFACTURING -----	782	7.68	7.56	6.97- 8.62	-	-	-	-	-	-	6	101	-	44	11	29	3	77	10	191	57	47	14	16	48	128	-	-	
NONMANUFACTURING -----	1,644	8.48	8.84	7.74- 9.45	-	4	-	-	4	1	-	2	17	2	50	22	67	19	17	65	255	128	147	240	592	12	-	-	
PUBLIC UTILITIES -----	1,209	8.69	9.13	7.92- 9.45	-	4	-	-	4	1	-	-	1	1	-	18	33	18	-	41	228	95	1	172	592	-	-		
WHOLESALE TRADE -----	275	7.82	8.15	7.10- 8.70	-	-	-	-	-	-	-	-	16	-	46	-	2	-	16	20	13	25	125	-	-	12	-		
MAINTENANCE PIPEFITTERS -----	529	8.65	8.56	8.25- 9.18	-	-	-	-	-	-	-	-	-	1	-	-	-	-	5	53	18	70	165	95	103	19	-	-	
MANUFACTURING -----	511	8.63	8.56	8.25- 9.18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	53	18	70	165	92	89	19	-		
MAINTENANCE SHEET-METAL WORKERS -----	85	7.76	7.76	7.56- 7.88	-	-	-	-	-	-	1	1	-	-	-	-	-	-	5	19	49	4	1	-	6	-	-		
MANUFACTURING -----	76	7.80	7.77	7.56- 7.88	-	-	-	-	-	-	1	-	-	-	-	-	-	-	5	19	41	4	1	-	6	-	-		
MAINTENANCE TRADES HELPERS -----	751	5.33	5.21	4.56- 6.54	*163	32	54	23	103	74	9	28	11	12	8	130	15	29	46	7	7	-	-	-	-	-	-		
MANUFACTURING -----	603	5.19	5.12	4.50- 6.19	137	31	54	22	99	61	9	27	4	12	8	48	15	29	46	1	-	-	-	-	-	-	-		
MACHINE-TOOL OPERATORS (TOOLROOM) -----	327	7.55	7.84	7.05- 8.23	-	-	-	-	-	12	-	6	37	9	-	-	-	2	18	46	90	65	42	-	-	-	-		
MANUFACTURING -----	288	7.55	7.97	7.05- 8.23	-	-	-	-	-	12	-	6	37	9	-	-	-	2	18	7	90	65	42	-	-	-	-		
TOOL AND DIE MAKERS -----	2,356	7.86	7.92	7.40- 8.30	-	-	-	-	-	-	3	-	1	70	100	49	220	269	744	640	118	-	142	-	-	-	-		
MANUFACTURING -----	2,316	7.88	7.92	7.43- 8.30	-	-	-	-	-	-	3	-	1	31	100	49	220	269	743	640	118	-	142	-	-	-	-		
STATIONARY ENGINEERS -----	926	8.48	8.87	7.83- 9.08	-	-	-	-	-	2	6	12	12	7	5	37	12	42	53	114	46	28	352	119	48	31	-		
MANUFACTURING -----	603	8.49	8.87	7.83- 9.00	-	-	-	-	-	-	-	-	-	-	-	29	1	35	45	82	43	15	282	24	47	-	-		
NONMANUFACTURING -----	323	8.46	8.87	7.78- 9.45	-	-	-	-	-	2	6	12	12	7	5	8	11	7	8	32	3	13	70	95	1	31	-		
SERVICES -----	174	9.12	9.38	8.87- 9.46	-	-	-	-	-	-	-	-	1	1	-	-	-	3	-	18	1	-	61	58	-	**31	-		

\* Workers were distributed as follows: 45 at \$3 to \$3.20; 1 at \$3.20 to \$3.40; 16 at \$3.40 to \$3.60; 45 at \$3.60 to \$3.80; 10 at \$3.80 to \$4; 11 at \$4 to \$4.20; and 35 at \$4.20 to \$4.40.  
\*\* Workers were at \$10 to \$10.40.

See footnotes at end of tables.



**Table A-5. Hourly earnings of material movement and custodial workers in Los Angeles—  
Long Beach, Calif., October 1977**

Occupation and industry division	Number of workers	Hourly earnings <sup>4</sup>			Number of workers receiving straight-time hourly earnings of—																							
		Mean <sup>2</sup>	Median <sup>2</sup>	Middle range <sup>2</sup>	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$				
					2.50	2.60	2.80	3.00	3.20	3.40	3.60	3.80	4.00	4.20	4.60	5.00	5.40	5.80	6.20	6.60	7.00	7.40	7.80	8.20	8.60	9.00	9.40	9.80
ALL WORKERS					62	30	-	137	32	34	5	103	216	453	488	709	334	1418	500	1096	2109	1586	548	2513	3096	23	607	
TRUCKDRIVERS	16,099	\$ 7.27	\$ 7.45	\$ 6.20- 8.54	62	30	-	137	32	34	5	103	216	453	488	709	334	1418	500	1096	2109	1586	548	2513	3096	23	607	
MANUFACTURING	5,014	6.87	7.26	5.61- 7.45	-	-	-	45	-	2	2	53	107	284	163	577	53	222	139	460	1462	682	-	10	123	23	607	
NONMANUFACTURING	11,085	7.45	8.19	6.55- 8.66	62	30	-	92	32	32	3	50	109	169	325	132	281	1196	361	636	647	904	548	2503	2973	-	-	
PUBLIC UTILITIES	4,745	8.45	8.66	8.54- 8.78	-	-	-	-	-	-	-	-	-	2	-	-	13	38	82	9	67	422	66	1073	2973	-	-	
WHOLESALE TRADE	4,174	6.48	6.45	5.95- 7.69	32	-	-	-	32	32	-	15	102	139	291	106	222	1108	21	413	569	315	230	547	-	-	-	
RETAIL TRADE	1,493	7.58	8.35	7.85- 8.45	-	-	-	92	-	-	-	-	7	28	34	25	44	42	o	9	2	67	252	883	-	-	-	
MOTION PICTURES	225	7.05	6.77	6.76- 7.41	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	125	-	100	-	-	-	-	-	
TRUCKDRIVERS, LIGHT TRUCK	2,155	6.24	6.55	4.59- 8.54	62	30	-	119	32	2	5	51	77	176	127	233	24	105	254	72	10	20	24	732	-	-	-	
MANUFACTURING	369	5.04	5.38	4.50- 5.38	-	-	-	27	-	2	1	29	61	61	22	173	12	13	-	-	7	20	-	-	-	-	-	
NONMANUFACTURING	1,786	6.48	6.55	4.85- 8.54	62	30	-	92	32	-	3	50	48	115	105	60	12	92	254	72	3	-	24	732	-	-	-	
TRUCKDRIVERS, MEDIUM TRUCK	4,498	6.60	6.66	5.95- 7.45	-	-	-	18	-	32	-	-	139	231	178	235	170	1005	153	568	443	338	20	132	836	-	-	
MANUFACTURING	1,339	5.87	6.10	4.75- 7.07	-	-	-	18	-	-	-	-	78	177	141	205	9	44	99	210	32	326	-	-	-	-	-	
NONMANUFACTURING	3,159	6.91	6.66	5.95- 8.66	-	-	-	-	-	32	-	-	61	54	37	30	161	961	54	358	411	12	20	132	836	-	-	
PUBLIC UTILITIES	926	8.53	8.66	8.66- 8.66	-	-	-	-	-	-	-	-	-	2	-	-	1	3	39	3	-	-	-	42	836	-	-	
WHOLESALE TRADE	1,974	6.18	5.95	5.95- 6.66	-	-	-	-	-	32	-	-	54	24	30	23	116	934	9	318	402	12	20	-	-	-	-	
TRUCKDRIVERS, HEAVY TRUCK																												
(TRAILER)	6,518	7.86	7.98	7.37- 8.65	-	-	-	-	-	-	-	-	-	-	-	181	111	210	54	194	1438	830	493	1351	1487	-	169	
MANUFACTURING	1,969	7.23	7.26	7.26- 7.37	-	-	-	-	-	-	-	-	-	-	-	139	3	151	20	90	1229	168	-	-	-	-	169	
NONMANUFACTURING	4,549	8.14	8.45	7.80- 8.78	-	-	-	-	-	-	-	-	-	-	-	42	108	59	34	104	209	662	493	1351	1487	-	-	
PUBLIC UTILITIES	1,916	8.49	8.78	8.66- 8.78	-	-	-	-	-	-	-	-	-	-	-	-	10	33	22	-	40	192	55	77	1487	-	-	
WHOLESALE TRADE	1,382	7.66	7.80	7.25- 8.35	-	-	-	-	-	-	-	-	-	-	-	24	98	8	8	95	167	303	198	481	-	-	-	
RETAIL TRADE	1,151	8.18	8.45	7.98- 8.45	-	-	-	-	-	-	-	-	-	-	-	18	-	18	4	9	2	67	240	793	-	-	-	
TRUCKDRIVERS, HEAVY TRUCK (OTHER THAN TRAILER)	1,695	7.69	8.22	6.98- 9.62	-	-	-	-	-	-	-	52	-	46	183	56	-	6	15	140	164	171	11	32	358	23	438	
MANUFACTURING	1,125	8.00	8.91	6.98- 9.62	-	-	-	-	-	-	-	52	-	46	-	56	-	6	-	140	140	91	-	10	123	23	438	
NONMANUFACTURING																												
PUBLIC UTILITIES	383	8.20	8.66	7.45- 8.66	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11	-	24	80	11	22	235	-	-	
SHIPPING CLERKS	686	5.36	5.00	4.35- 6.00	-	-	-	-	-	-	12	66	69	99	77	63	92	51	23	47	8	72	4	1	2	-	-	
MANUFACTURING	435	4.93	4.63	4.10- 5.68	-	-	-	-	-	-	12	64	37	99	67	26	53	19	12	39	-	-	4	1	2	-	-	
NONMANUFACTURING	251	6.10	5.95	5.00- 7.65	-	-	-	-	-	-	-	2	32	-	10	37	39	32	11	8	8	72	-	-	-	-	-	
RECEIVING CLERKS	1,448	5.70	5.75	4.55- 7.25	-	-	30	9	58	70	44	41	48	80	90	50	234	211	29	47	157	224	13	13	-	-	-	
MANUFACTURING	618	5.33	5.55	4.25- 5.92	-	-	-	-	22	52	17	17	43	45	55	17	173	53	17	30	24	40	-	13	-	-	-	
NONMANUFACTURING	830	5.98	6.10	4.85- 7.25	-	-	30	9	36	18	27	24	5	35	35	33	61	158	12	17	133	184	13	-	-	-	-	
WHOLESALE TRADE	353	5.48	6.00	3.75- 6.80	-	-	11	7	32	14	25	18	-	26	20	12	5	75	10	17	1	67	13	-	-	-	-	
SHIPPING AND RECEIVING CLERKS	1,551	5.64	5.35	4.74- 6.89	-	-	-	-	33	58	18	57	33	143	197	246	23	116	126	134	277	74	16	-	-	-	-	
MANUFACTURING	1,098	5.64	5.27	4.54- 7.02	-	-	-	-	33	15	15	57	33	129	139	193	21	30	47	104	268	54	-	-	-	-	-	
NONMANUFACTURING	453	5.63	5.83	4.80- 6.40	-	-	-	-	43	3	-	-	-	14	58	93	2	86	79	30	9	20	16	-	-	-	-	
WHOLESALE TRADE	321	5.71	5.83	5.04- 6.40	-	-	-	-	-	-	-	-	-	11	43	91	-	74	79	3	-	20	-	-	-	-	-	
WAREHOUSEMEN	6,529	5.76	5.85	4.59- 6.86	32	30	17	32	83	184	208	93	209	745	505	380	571	700	694	916	228	343	437	122	-	-	-	
MANUFACTURING	3,232	5.09	4.76	4.25- 6.21	-	30	15	20	46	170	160	82	193	633	461	297	113	166	398	266	-	140	42	-	-	-	-	
NONMANUFACTURING	3,297	6.42	6.52	5.70- 7.20	32	-	2	12	37	14	48	11	16	112	44	83	458	534	296	650	228	303	95	122	-	-	-	
PUBLIC UTILITIES	333	6.15	6.52	5.73- 7.05	-	-	-	12	5	6	4	3	2	16	-	24	18	9	145	2	46	41	-	-	-	-	-	
WHOLESALE TRADE	2,256	6.15	6.00	5.70- 6.86	32	-	-	-	32	8	8	8	-	89	8	47	416	516	148	648	182	102	12	-	-	-	-	

See footnotes at end of tables.

**Table A-5. Hourly earnings of material movement and custodial workers in Los Angeles—  
Long Beach, Calif., October 1977—Continued**

Occupation and industry division	Number of workers	Hourly earnings <sup>4</sup>			Number of workers receiving straight-time hourly earnings of—																							
		Mean <sup>2</sup>	Median <sup>2</sup>	Middle range <sup>2</sup>	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$						
					2.50 and under	2.60	2.80	3.00	3.20	3.40	3.60	3.80	4.00	4.20	4.60	5.00	5.40	5.80	6.20	6.60	7.00	7.40	7.80	8.20	8.60	9.00	9.40	
<b>ALL WORKERS-- CONTINUED</b>					2.50 and under	2.60	2.80	3.00	3.20	3.40	3.60	3.80	4.00	4.20	4.60	5.00	5.40	5.80	6.20	6.60	7.00	7.40	7.80	8.20	8.60	9.00	9.40	9.80
ORDER FILLERS -----	4,038	\$ 5.05	\$ 4.60	\$ 3.50-6.17	8	170	137	258	292	279	135	270	170	261	223	52	64	763	161	256	2	186	-	351	-	-	-	-
MANUFACTURING -----	671	3.63	3.80	3.20-4.15	8	106	8	35	33	103	30	84	101	31	45	48	39	-	-	-	-	-	-	-	-	-	-	-
NONMANUFACTURING -----	3,367	5.29	6.05	3.50-6.54	-	64	129	223	259	176	105	186	69	230	178	4	25	763	161	256	2	186	-	351	-	-	-	
WHOLESALE TRADE -----	2,981	5.26	5.20	3.50-6.70	-	64	127	221	259	176	105	184	69	124	160	4	1	535	157	256	2	186	-	351	-	-	-	
SHIPPING PACKERS -----	4,415	4.19	3.65	3.00-5.59	230	387	325	521	442	277	120	124	214	324	162	70	185	208	751	9	66	-	-	-	-	-	-	
MANUFACTURING -----	3,286	4.30	3.90	3.00-6.21	230	355	182	208	345	204	74	115	143	210	114	28	185	67	751	9	66	-	-	-	-	-	-	
NONMANUFACTURING -----	1,129	3.85	3.38	3.00-4.50	-	32	143	313	97	73	46	9	71	114	48	42	-	141	-	-	-	-	-	-	-	-	-	
MATERIAL HANDLING LABORERS -----	5,403	5.63	5.59	3.75-7.51	33	373	189	95	224	143	355	98	239	163	389	122	855	354	136	46	149	128	6	475	829	-	-	
MANUFACTURING -----	2,690	4.45	4.25	3.25-5.59	33	288	189	50	219	110	116	81	209	151	318	77	421	192	36	28	129	37	6	-	-	-	-	
NONMANUFACTURING -----	2,713	6.80	7.50	5.53-8.66	-	85	-	45	5	33	239	17	30	12	71	45	434	162	102	18	20	91	-	475	829	-	-	
PUBLIC UTILITIES -----	1,358	8.38	8.66	8.41-8.66	-	-	-	31	5	3	2	3	3	-	-	5	1	-	1	-	-	-	-	-	475	829	-	
WHOLESALE TRADE -----	192	5.22	5.80	3.75-6.89	-	32	-	-	-	12	41	-	-	-	6	1	1	26	16	18	20	19	-	-	-	-	-	
FORKLIFT OPERATORS -----	4,141	6.16	6.20	4.87-7.40	-	-	-	35	54	118	27	39	24	141	787	158	225	439	635	204	197	489	104	237	228	-	-	
MANUFACTURING -----	2,605	5.77	5.81	4.73-6.50	-	-	-	3	54	54	27	39	24	89	707	158	125	406	467	145	153	290	32	32	-	-	-	
NONMANUFACTURING -----	1,336	6.98	7.40	6.01-8.44	-	-	-	32	-	64	-	-	-	52	80	-	100	33	168	59	44	199	72	205	228	-	-	
PUBLIC UTILITIES -----	262	8.61	8.73	8.73-8.73	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14	-	-	-	20	228	-	-	
WHOLESALE TRADE -----	580	6.24	6.55	4.59-7.76	-	-	-	32	-	64	-	-	-	52	80	-	-	-	84	45	-	92	14	117	-	-	-	
POWER-TRUCK OPERATORS (OTHER THAN FORKLIFT) -----	578	7.12	7.44	6.70-7.69	-	-	-	-	-	-	-	-	-	2	66	9	1	2	31	61	37	328	-	25	16	-	-	
MANUFACTURING -----	299	6.69	6.70	5.53-7.60	-	-	-	-	-	-	-	-	-	-	66	9	1	2	31	61	-	104	-	25	-	-	-	
GUARDS AND WATCHMEN -----	9,039	3.34	2.70	2.60-3.36	1572	4028	342	1000	447	185	337	62	135	284	116	174	164	155	290	456	10	72	-	-	2	2	-	
MANUFACTURING -----	1,384	5.31	5.68	3.03-6.73	-	-	-	103	150	69	71	22	49	80	43	67	61	66	110	442	1	46	-	-	2	2	-	
NONMANUFACTURING -----	8,455	3.02	2.65	2.60-3.00	1572	4028	342	897	297	116	266	40	86	204	73	107	103	89	180	14	9	26	-	-	-	-	-	
PUBLIC UTILITIES -----	110	6.10	6.36	5.90-7.01	-	-	-	-	19	-	-	-	-	-	-	1	8	-	44	3	9	26	-	-	-	-	-	
SERVICES -----	7,533	2.83	2.60	2.60-2.80	1572	4028	342	865	276	72	18	10	36	94	25	34	35	25	106	-	-	-	-	-	-	-	-	
MOTION PICTURES -----	119	6.01	6.12	5.85-6.23	-	-	-	-	-	-	-	-	1	-	-	17	4	50	36	11	-	-	-	-	-	-	-	
GUARDS: MANUFACTURING -----	1,325	5.28	5.55	3.61-6.73	-	-	-	103	150	69	71	22	49	69	43	67	61	66	63	442	1	45	-	-	2	2	-	
JANITORS, PORTERS, AND CLEANERS ---	17,733	4.21	4.44	3.15-4.55	1335	742	511	1886	690	388	549	228	947	6592	1093	478	541	352	608	302	385	37	69	-	-	-	-	
MANUFACTURING -----	4,415	4.88	4.67	3.75-6.15	91	37	205	132	172	208	345	81	229	549	467	356	326	175	468	156	384	24	10	-	-	-	-	
NONMANUFACTURING -----	13,318	3.98	4.44	3.00-4.54	1244	705	306	1754	518	180	204	147	718	6043	626	122	215	177	140	146	1	13	59	-	-	-	-	
PUBLIC UTILITIES -----	350	6.47	6.26	6.01-6.59	-	-	-	-	-	1	-	4	-	-	-	-	1	132	125	28	-	-	-	59	-	-		
WHOLESALE TRADE -----	376	5.03	4.65	3.94-6.64	-	32	-	34	-	-	16	16	-	73	34	24	20	-	1	112	1	13	-	-	-	-		
RETAIL TRADE -----	1,569	4.14	4.47	3.55-4.47	-	92	50	126	71	66	65	98	50	777	26	41	43	44	14	6	-	-	-	-	-	-		
SERVICES -----	10,121	3.80	4.44	3.00-4.54	1244	579	256	1591	438	108	84	20	68	5116	563	54	-	-	-	-	-	-	-	-	-	-	-	
MOTION PICTURES -----	152	5.69	5.69	5.68-5.69	-	-	-	-	-	-	-	-	-	-	-	-	151	1	-	-	-	-	-	-	-	-	-	

See footnotes at end of tables.

**Table A-6. Average hourly earnings of maintenance, toolroom, powerplant, material movement, and custodial workers, by sex, in Los Angeles—Long Beach, Calif., October 1977**

Sex, <sup>3</sup> occupation, and industry division	Number of workers	Average (mean <sup>2</sup> ) hourly earnings <sup>4</sup>	Sex, <sup>3</sup> occupation, and industry division	Number of workers	Average (mean <sup>2</sup> ) hourly earnings <sup>4</sup>	Sex, <sup>3</sup> occupation, and industry division	Number of workers	Average (mean <sup>2</sup> ) hourly earnings <sup>4</sup>
MAINTENANCE, TOOLROOM, AND POWERPLANT OCCUPATIONS - MEN		\$	MATERIAL MOVEMENT AND CUSTODIAL OCCUPATIONS - MEN		\$	MATERIAL MOVEMENT AND CUSTODIAL OCCUPATIONS - MEN--CONTINUED		\$
MAINTENANCE CARPENTERS -----	589	7.47	TRUCKDRIVERS -----	15,140	7.23	SHIPPING PACKERS -----	3,224	4.31
MANUFACTURING -----	406	7.36	MANUFACTURING -----	4,967	6.89	MANUFACTURING -----	2,455	4.41
NONMANUFACTURING -----	183	7.71	NONMANUFACTURING -----	10,173	7.39	NONMANUFACTURING -----	769	3.98
MAINTENANCE ELECTRICIANS -----	2,094	8.04	PUBLIC UTILITIES -----	3,983	8.45	MATERIAL HANDLING LABORERS -----	4,815	5.74
MANUFACTURING -----	1,748	7.97	WHOLESALE TRADE -----	4,150	6.48	MANUFACTURING -----	2,608	4.46
NONMANUFACTURING -----	346	8.41	RETAIL TRADE -----	1,492	7.58	NONMANUFACTURING -----	2,207	7.25
MOTION PICTURES -----	94	7.99	MOTION PICTURES -----	126	7.28	PUBLIC UTILITIES -----	1,356	8.39
MAINTENANCE PAINTERS -----	472	7.78	TRUCKDRIVERS, LIGHT TRUCK: -----			FORKLIFT OPERATORS -----	4,101	6.16
MANUFACTURING -----	323	7.79	MANUFACTURING -----	323	5.13	MANUFACTURING -----	2,780	5.77
NONMANUFACTURING -----	149	7.75	TRUCKDRIVERS, MEDIUM TRUCK -----	4,460	6.60	NONMANUFACTURING -----	1,321	6.98
SERVICES -----	83	8.00	MANUFACTURING -----	1,339	5.87	PUBLIC UTILITIES -----	249	8.70
MAINTENANCE MACHINISTS -----	1,051	7.76	NONMANUFACTURING -----	3,121	6.91	WHOLESALE TRADE -----	580	6.24
MANUFACTURING -----	876	7.62	PUBLIC UTILITIES -----	905	8.58	POWER-TRUCK OPERATORS (OTHER THAN FORKLIFT) -----	578	7.12
NONMANUFACTURING -----	175	8.43	WHOLESALE TRADE -----	1,974	6.18	MANUFACTURING -----	299	6.69
MAINTENANCE MECHANICS (MACHINERY) -----	3,776	7.08	TRUCKDRIVERS, HEAVY TRUCK (TRAILER) -----	6,512	7.86	GUARDS AND WATCHMEN -----	8,251	3.37
MANUFACTURING -----	3,507	7.02	MANUFACTURING -----	1,969	7.23	MANUFACTURING -----	1,331	5.29
NONMANUFACTURING -----	269	7.88	NONMANUFACTURING -----	4,543	8.14	NONMANUFACTURING -----	6,920	3.00
MAINTENANCE MECHANICS (MOTOR VEHICLES) -----	2,425	8.22	PUBLIC UTILITIES -----	1,911	8.49	SERVICES -----	6,048	2.77
MANUFACTURING -----	782	7.68	WHOLESALE TRADE -----	1,382	7.66	MOTION PICTURES -----	118	6.00
NONMANUFACTURING -----	1,643	8.48	RETAIL TRADE -----	1,150	8.18	GUARDS: -----		
PUBLIC UTILITIES -----	1,209	8.69	TRUCKDRIVERS, HEAVY TRUCK (OTHER THAN TRAILER) -----	1,695	7.69	MANUFACTURING -----	1,275	5.26
WHOLESALE TRADE -----	275	7.82	MANUFACTURING -----	1,125	8.00	JANITORS, PORTERS, AND CLEANERS: -----		
MAINTENANCE PIPEFITTERS -----	529	8.65	NONMANUFACTURING: -----			MANUFACTURING -----	4,079	4.86
MANUFACTURING -----	511	8.63	PUBLIC UTILITIES -----	383	8.20	NONMANUFACTURING: -----		
MAINTENANCE SHEET-METAL WORKERS -----	84	7.78	SHIPPING CLERKS -----	656	5.38	WHOLESALE TRADE -----	336	5.28
MANUFACTURING -----	76	7.80	MANUFACTURING -----	408	4.94	RETAIL TRADE -----	1,367	4.17
MAINTENANCE TRADES HELPERS -----	745	5.33	NONMANUFACTURING -----	248	6.10	MOTION PICTURES -----	107	5.69
MANUFACTURING -----	603	5.19	RECEIVING CLERKS -----	1,326	5.79	MATERIAL MOVEMENT AND CUSTODIAL OCCUPATIONS - WOMEN -----		
MACHINE-TOOL OPERATORS (TOOLROOM) -----	327	7.55	MANUFACTURING -----	599	5.35	RECEIVING CLERKS -----	112	4.77
MANUFACTURING -----	288	7.55	NONMANUFACTURING -----	727	6.16	WAREHOUSEMEN -----	202	5.58
TOOL AND DIE MAKERS -----	2,288	7.89	WHOLESALE TRADE -----	290	5.65	SHIPPING PACKERS -----	1,108	3.86
MANUFACTURING -----	2,248	7.91	SHIPPING AND RECEIVING CLERKS -----	1,434	5.71	MANUFACTURING -----	748	4.01
STATIONARY ENGINEERS -----	910	8.49	MANUFACTURING -----	991	5.76	GUARDS AND WATCHMEN: -----		
MANUFACTURING -----	603	8.49	NONMANUFACTURING -----	443	5.62	MANUFACTURING -----	53	5.92
NONMANUFACTURING -----	307	8.49	WHOLESALE TRADE -----	319	5.70	GUARDS: -----		
SERVICES -----	158	9.24	WAREHOUSEMEN -----	6,316	5.77	MANUFACTURING -----	50	5.90
			MANUFACTURING -----	3,140	5.10	JANITORS, PORTERS, AND CLEANERS: -----		
			NONMANUFACTURING -----	3,176	6.43	MANUFACTURING -----	327	5.24
			PUBLIC UTILITIES -----	237	6.07	NONMANUFACTURING: -----		
			WHOLESALE TRADE -----	2,256	6.15	MOTION PICTURES -----	45	5.68
			ORDER FILLERS -----	3,287	5.42			
			MANUFACTURING -----	578	3.92			
			NONMANUFACTURING -----	2,709	5.74			
			WHOLESALE TRADE -----	2,453	5.70			

See footnotes at end of tables.

**Table A-7. Percent increases in average hourly earnings, adjusted for employment shifts, for selected occupational groups in Los Angeles—Long Beach, Calif., for selected periods**

Industry and occupational group <sup>5</sup>	October 1973 to October 1974	October 1974 to October 1975	October 1975 to October 1976	October 1976 to October 1977
All industries:				
Office clerical .....	7.0	8.6	7.3	7.4
Electronic data processing .....	7.2	8.2	7.0	6.6
Industrial nurses .....	9.3	9.2	7.8	7.4
Skilled maintenance trades .....	7.9	8.2	7.4	8.8
Unskilled plant workers .....	5.6	6.4	12.4	6.7
Manufacturing:				
Office clerical .....	6.7	8.7	7.7	7.2
Electronic data processing .....	7.5	10.0	6.4	6.3
Industrial nurses .....	9.5	9.3	8.0	7.5
Skilled maintenance trades .....	8.1	8.5	7.1	8.6
Unskilled plant workers .....	7.4	7.2	7.8	5.7
Nonmanufacturing:				
Office clerical .....	7.2	8.6	7.2	7.5
Electronic data processing .....	7.1	7.1	7.4	6.8
Industrial nurses .....	8.5	8.8	7.3	7.0
Unskilled plant workers .....	4.8	6.0	14.4	7.1

See footnote at end of tables.

**Table A-8. Weekly earnings of office workers—large establishments in Los Angeles—  
Long Beach, Calif., October 1977**

Occupation and industry division	Number of workers	Average weekly hours <sup>1</sup> (standard)	Weekly earnings <sup>1</sup> (standard)			Number of workers receiving straight-time weekly earnings of—																							
			Mean <sup>2</sup>	Median <sup>2</sup>	Middle range <sup>2</sup>	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$			
						90 and under	100	110	120	130	140	150	160	170	180	190	200	210	220	240	260	280	300	320	340	360	360 over		
<b>ALL WORKERS</b>																													
SECRETARIES -----	13,662	39.5	\$ 233.50	\$ 229.00	\$ 199.00-266.00	-	-	2	5	13	77	193	472	767	851	1091	1138	1077	2253	1794	1660	1241	631	204	108	85			
MANUFACTURING -----	6,148	39.5	241.50	240.00	206.50-275.00	-	-	-	3	-	9	64	195	203	304	471	431	437	947	897	839	719	415	102	72	40			
NONMANUFACTURING -----	7,514	39.5	227.00	222.00	194.50-256.00	-	-	2	13	68	129	277	564	547	620	707	640	1306	897	821	522	216	102	36	45				
PUBLIC UTILITIES -----	1,306	39.0	253.00	259.50	212.00-281.50	-	-	-	-	-	11	21	58	70	64	89	56	149	134	301	138	118	52	25	18				
WHOLESALE TRADE -----	433	40.0	236.00	231.00	210.00-259.00	-	-	-	-	2	4	6	19	19	32	22	61	87	75	40	28	19	13	3	3				
RETAIL TRADE -----	539	40.0	219.50	214.00	190.00-245.00	-	-	2	2	2	4	15	33	37	40	37	83	81	52	29	34	15	17	2	-				
FINANCE -----	2,659	39.0	203.50	201.50	180.00-225.00	-	-	-	-	9	48	78	174	349	311	303	305	499	218	60	25	1	1	1	-				
SERVICES -----	1,944	39.5	227.00	225.50	201.00-252.00	-	-	-	-	2	14	21	42	94	96	177	201	423	313	224	121	31	-	1	1				
MOTION PICTURES -----	633	39.5	271.50	274.00	251.50-290.00	-	-	-	-	-	-	-	1	7	11	7	7	67	105	167	176	32	19	4	23				
SECRETARIES, CLASS A -----	646	39.5	302.50	300.00	275.00-325.00	-	-	-	-	-	-	-	-	-	-	1	4	7	18	78	90	119	145	78	49	57			
MANUFACTURING -----	285	40.0	308.00	313.00	288.00-325.00	-	-	-	-	-	-	-	-	-	-	-	1	-	6	23	26	52	92	41	26	18			
NONMANUFACTURING -----	361	39.5	298.00	291.00	266.00-324.00	-	-	-	-	-	-	-	-	-	-	-	4	7	12	55	64	67	53	37	23	*39			
FINANCE -----	101	39.0	261.00	260.00	247.50-276.00	-	-	-	-	-	-	-	-	-	-	-	-	9	33	34	17	1	1	-	-				
SECRETARIES, CLASS B -----	2,686	39.5	259.00	256.00	231.50-285.50	-	-	-	-	-	-	2	11	23	74	107	172	477	583	439	379	291	66	36	26				
MANUFACTURING -----	1,326	40.0	268.50	264.00	245.00-292.00	-	-	-	-	-	-	1	2	10	14	19	37	178	322	272	191	193	34	31	22				
NONMANUFACTURING -----	1,360	39.5	250.00	245.00	223.00-278.00	-	-	-	-	-	-	1	9	13	60	86	135	299	261	167	188	98	32	5	4				
PUBLIC UTILITIES -----	234	39.5	284.00	285.50	260.50-314.00	-	-	-	-	-	-	1	-	-	-	2	7	16	32	41	46	69	19	-	1				
RETAIL TRADE -----	149	40.0	228.50	220.00	207.00-244.50	-	-	-	-	-	-	6	1	12	27	26	31	24	3	13	6	-	-	-	-				
FINANCE -----	545	39.5	228.50	229.50	213.00-244.00	-	-	-	-	-	-	3	12	40	57	80	180	134	22	8	-	-	1	-	-				
MOTION PICTURES -----	43	40.0	280.50	280.00	257.50-294.50	-	-	-	-	-	-	-	-	-	-	-	4	13	1	15	3	4	1	2					
SECRETARIES, CLASS C -----	5,263	39.5	234.50	230.50	205.00-263.00	-	-	-	1	8	11	54	219	320	458	471	461	1051	760	712	530	142	42	21	2				
MANUFACTURING -----	2,402	40.0	245.50	244.00	216.00-277.00	-	-	-	-	8	22	68	189	194	193	193	193	435	389	356	402	105	26	15	-				
NONMANUFACTURING -----	2,861	39.5	225.00	222.50	196.50-249.00	-	-	-	1	8	11	46	197	252	269	277	266	616	371	356	128	37	16	6	2				
PUBLIC UTILITIES -----	616	39.0	246.00	248.00	214.00-278.00	-	-	-	-	1	3	9	26	42	54	40	112	73	173	44	26	8	4	1	-				
WHOLESALE TRADE -----	183	40.0	231.50	226.00	213.00-246.00	-	-	-	-	-	-	2	4	6	11	13	34	51	30	18	7	4	3	-	-				
FINANCE -----	1,044	39.5	201.50	199.00	184.00-221.00	-	-	1	6	10	35	148	175	156	128	102	232	50	1	-	-	-	-	-	-				
MOTION PICTURES -----	122	38.5	271.50	280.00	256.50-291.00	-	-	-	-	-	-	-	-	4	1	2	2	13	10	28	50	4	5	2	1				
SECRETARIES, CLASS D -----	4,694	39.5	208.50	202.00	180.00-230.00	-	-	-	3	10	67	170	398	527	484	547	509	400	626	321	374	196	43	17	2	-			
MANUFACTURING -----	2,037	39.5	210.50	204.50	184.00-232.00	-	-	-	3	-	9	64	186	173	210	260	209	186	301	156	180	74	25	1	-	-			
NONMANUFACTURING -----	2,657	39.0	207.00	200.50	177.50-228.00	-	-	-	-	10	58	106	212	354	274	287	300	325	165	194	122	18	16	2	-				
PUBLIC UTILITIES -----	366	38.5	228.50	219.00	180.00-271.00	-	-	-	-	-	10	17	49	44	22	33	11	18	24	82	32	9	13	2	-				
FINANCE -----	969	39.0	185.00	182.00	168.00-202.50	-	-	-	-	8	42	68	139	198	124	107	120	81	78	1	3	-	-	-	-				
SERVICES -----	831	39.5	203.00	202.50	186.50-221.00	-	-	-	-	2	14	21	41	79	80	129	128	100	176	60	1	-	-	-	-				
MOTION PICTURES -----	288	39.5	260.50	269.50	246.00-283.00	-	-	-	-	-	-	1	7	7	6	5	3	26	56	91	77	6	3	-	-				
STENOGRAPHERS -----	2,192	39.5	210.00	209.00	175.00-244.50	-	-	-	17	50	96	151	155	173	162	173	126	171	306	237	308	62	4	-	1	-			
MANUFACTURING -----	977	40.0	230.50	232.50	207.00-263.50	-	-	-	-	-	14	14	15	44	49	61	71	115	168	148	264	12	2	-	-				
NONMANUFACTURING -----	1,215	39.5	193.50	185.00	161.00-223.00	-	-	-	17	50	82	137	140	129	113	112	55	56	138	89	44	50	2	-	1	-			
PUBLIC UTILITIES -----	225	39.5	231.00	235.00	199.50-251.50	-	-	-	-	16	4	9	5	23	9	11	54	41	21	31	-	-	1	-	-				
MOTION PICTURES -----	143	40.0	241.00	235.00	228.50-248.00	-	-	-	-	-	-	-	-	-	-	-	14	67	40	9	11	2	-	-	-				
STENOGRAPHERS, GENERAL -----	673	39.5	202.00	201.00	167.00-235.00	-	-	-	5	44	33	46	52	57	39	51	53	48	101	73	54	17	-	-	-	-			
MANUFACTURING -----	242	40.0	207.50	205.00	183.00-225.50	-	-	-	-	4	9	9	34	20	19	40	31	36	13	26	1	-	-	-	-				
NONMANUFACTURING -----	431	39.5	199.00	195.00	159.50-238.00	-	-	-	5	44	29	37	43	23	19	32	13	17	65	60	28	16	-	-	-				
PUBLIC UTILITIES -----	194	39.5	225.00	235.00	195.00-240.50	-	-	-	-	16	4	9	4	23	7	11	49	39	16	16	-	-	-	-					
MOTION PICTURES -----	28	40.0	238.50	240.00	228.50-248.00	-	-	-	-	-	-	-	-	-	-	-	1	9	17	1	-	-	-	-					
STENOGRAPHERS, SENIOR -----	1,519	40.0	213.00	213.00	177.50-250.00	-	-	-	12	6	63	105	103	116	123	122	73	123	205	164	254	45	4	-	1	-			
MANUFACTURING -----	735	40.0	238.00	243.50	216.00-266.50	-	-	-	-	10	5	6	10	29	42	31	84	132	135	238	11	2	-	-	-				
NONMANUFACTURING -----	784	39.5	190.00	182.00	162.00-210.00	-	-	-	12	6	53	100	97	106	94	80	42	39	73	29	16	34	2	-	1	-			
MOTION PICTURES -----	115	40.0	241.50	230.00	228.50-247.50	-	-	-	-	-	-	-	-	-	-	-	-	13	58	23	8	11	2	-	-				

\* Workers were distributed as follows: 15 at \$360 to \$380; 7 at \$380 to \$400; 15 at \$400 to \$420; and 2 at \$460 to \$480.

See footnotes at end of tables.

**Table A-8. Weekly earnings of office workers—large establishments in Los Angeles—  
Long Beach, Calif., October 1977—Continued**

Occupation and industry division	Number of workers	Average weekly hours <sup>1</sup> (standard)	Weekly earnings <sup>1</sup> (standard)			Number of workers receiving straight-time weekly earnings of—																										
			Mean <sup>2</sup>	Median <sup>2</sup>	Middle range <sup>2</sup>	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$								
						90 and under	100	110	120	130	140	150	160	170	180	190	200	210	220	240	260	280	300	320	340	360	over					
<b>ALL WORKERS--</b>																																
<b>CONTINUED</b>																																
TRANSCRIBING-MACHINE TYPISTS -----	201	38.0	\$ 179.00	\$ 174.00	\$ 152.00-192.00	-	-	2	9	11	28	10	25	36	18	22	8	2	-	-	-	-	-	-	9	7	7	7	-	-	-	-
NONMANUFACTURING -----	130	37.5	166.00	161.00	140.50-177.00	-	-	2	9	11	27	9	22	20	9	13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TYPISTS -----	2,501	39.5	166.00	155.50	140.00-189.50	-	17	70	199	329	473	271	229	196	100	131	91	69	139	82	99	4	1	1	-	-	-	-	-	-	-	-
MANUFACTURING -----	879	40.0	190.00	181.00	153.00-224.50	-	-	3	41	40	103	85	70	88	59	50	57	44	94	53	91	-	-	1	-	-	-	-	-	-	-	
NONMANUFACTURING -----	1,622	39.0	156.00	148.50	136.00-168.00	-	17	67	158	289	370	186	159	108	41	81	34	25	45	29	8	4	1	-	-	-	-	-	-	-	-	
PUBLIC UTILITIES -----	120	40.0	195.00	190.00	169.50-230.50	-	-	-	1	9	10	7	4	17	12	11	4	6	17	19	1	2	-	-	-	-	-	-	-	-	-	-
FINANCE -----	1,154	39.0	147.00	145.00	136.00-158.50	-	17	54	111	238	314	162	132	73	19	19	12	3	-	-	-	-	-	-	-	-	-	-	-	-	-	
SERVICES -----	204	39.0	162.00	149.50	136.00-186.00	-	-	-	42	35	33	10	13	12	9	6	13	14	17	-	-	-	-	-	-	-	-	-	-	-	-	-
MOTION PICTURES -----	34	39.0	227.00	230.00	214.00-254.50	-	-	-	-	-	4	-	2	-	1	-	-	2	11	9	4	-	1	-	-	-	-	-	-	-	-	-
TYPISTS, CLASS A -----	982	39.5	186.00	171.00	152.00-218.00	-	-	-	20	52	149	133	128	103	52	40	34	29	89	52	95	4	1	1	-	-	-	-	-	-	-	-
MANUFACTURING -----	376	39.5	206.00	196.50	158.00-259.00	-	-	-	1	8	42	47	32	31	21	8	6	6	55	27	91	-	-	1	-	-	-	-	-	-	-	-
NONMANUFACTURING -----	606	39.0	173.00	165.00	149.50-189.50	-	-	-	19	44	107	86	96	72	31	32	28	23	34	25	4	4	1	-	-	-	-	-	-	-	-	-
FINANCE -----	451	39.0	159.50	158.50	146.50-169.50	-	-	-	19	43	103	82	92	60	18	19	12	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TYPISTS, CLASS B -----	1,519	39.5	156.50	146.00	135.00-172.00	-	17	70	179	277	324	138	101	93	48	91	57	40	50	30	4	-	-	-	-	-	-	-	-	-	-	-
MANUFACTURING -----	503	40.0	178.00	176.00	147.50-203.00	-	-	3	40	32	61	38	38	57	38	42	51	38	39	26	-	-	-	-	-	-	-	-	-	-	-	-
NONMANUFACTURING -----	1,016	39.5	145.50	141.50	132.00-151.50	-	17	67	139	245	263	100	63	36	10	49	6	2	11	4	4	-	-	-	-	-	-	-	-	-	-	-
FINANCE -----	703	39.5	139.00	139.00	130.50-147.50	-	17	54	92	195	211	80	40	13	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FILE CLERKS -----	1,097	39.0	148.00	133.50	117.50-157.50	35	145	114	200	141	126	79	30	49	21	8	4	8	36	40	41	10	6	2	2	-	-	-	-	-	-	-
MANUFACTURING -----	207	39.5	172.00	150.00	140.00-194.50	-	-	-	99	26	49	22	11	16	8	4	5	14	10	14	1	-	-	-	-	-	-	-	-	-	-	-
NONMANUFACTURING -----	890	38.5	142.50	127.50	114.00-150.00	35	145	114	181	115	77	57	19	33	13	-	-	22	30	27	9	6	2	2	-	-	-	-	-	-	-	-
FINANCE -----	642	38.0	126.00	126.50	112.50-136.00	35	117	83	162	94	70	53	16	8	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FILE CLERKS, CLASS A -----	107	38.5	198.50	172.00	148.00-267.00	-	-	-	-	5	25	18	4	9	7	-	-	-	1	5	24	7	1	-	1	-	-	-	-	-	-	-
FILE CLERKS, CLASS B -----	436	38.5	157.00	141.50	125.50-170.00	-	55	46	53	55	57	37	18	28	6	-	1	1	27	28	13	3	5	2	1	-	-	-	-	-	-	-
NONMANUFACTURING -----	403	38.5	154.50	136.00	118.50-163.00	-	55	46	53	54	49	34	15	25	6	-	1	17	24	13	3	5	2	1	-	-	-	-	-	-	-	-
FINANCE -----	281	38.0	129.50	127.50	112.50-143.00	-	55	46	50	38	46	34	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FILE CLERKS, CLASS C -----	554	39.0	131.50	124.50	114.00-139.00	35	90	68	147	81	44	24	8	12	8	8	3	7	8	7	4	-	-	-	-	-	-	-	-	-	-	-
MANUFACTURING -----	152	40.0	159.00	146.00	136.00-175.50	-	-	-	19	25	35	19	8	12	8	3	5	4	6	-	-	-	-	-	-	-	-	-	-	-	-	-
NONMANUFACTURING -----	402	39.0	121.00	123.00	102.00-127.00	35	90	68	128	56	9	5	-	-	-	-	-	2	4	1	4	-	-	-	-	-	-	-	-	-	-	-
FINANCE -----	303	38.5	118.00	123.00	102.50-127.00	35	62	37	112	51	5	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MESSENGERS -----	637	39.0	150.50	138.00	123.00-174.50	25	37	46	117	113	69	38	25	36	20	14	27	13	35	18	4	-	-	-	-	-	-	-	-	-	-	-
MANUFACTURING -----	179	39.5	158.50	138.50	126.00-185.50	-	-	2	49	40	21	3	7	4	11	4	8	4	19	7	-	-	-	-	-	-	-	-	-	-	-	-
NONMANUFACTURING -----	458	39.0	147.50	137.00	122.00-166.50	25	37	44	68	73	48	35	18	32	9	10	19	9	16	11	4	-	-	-	-	-	-	-	-	-	-	-
FINANCE -----	280	39.0	129.00	130.00	115.00-141.50	17	35	37	49	68	33	27	11	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MOTION PICTURES -----	55	39.5	196.50	190.00	175.00-228.50	-	-	3	-	1	-	-	-	17	6	9	-	1	12	6	-	-	-	-	-	-	-	-	-	-	-	-
SWITCHBOARD OPERATORS -----	1,221	39.5	180.00	172.00	145.00-215.00	-	7	99	100	33	138	117	95	121	59	66	59	33	78	149	42	22	3	-	-	-	-	-	-	-	-	-
MANUFACTURING -----	438	40.0	193.50	181.00	160.00-225.00	-	-	-	-	-	56	51	48	63	15	14	45	24	46	50	24	-	2	-	-	-	-	-	-	-	-	-
NONMANUFACTURING -----	783	39.0	172.50	160.00	129.00-199.00	-	7	99	100	33	82	66	47	58	44	52	14	9	32	99	18	22	1	-	-	-	-	-	-	-	-	-
PUBLIC UTILITIES -----	129	39.0	233.50	247.50	215.50-251.50	-	-	-	-	2	1	5	6	3	9	5	5	10	61	61	16	6	-	-	-	-	-	-	-	-	-	-
FINANCE -----	171	39.5	155.00	153.00	140.00-170.50	-	-	2	23	16	36	24	26	22	10	12	-	-	6	-	-	-	-	-	-	-	-	-	-	-	-	-
SERVICES -----	253	38.5	138.50	120.00	112.50-155.50	-	3	73	69	13	26	21	5	9	8	14	5	1	11	3	7	-	1	-	-	-	-	-	-	-	-	-
MOTION PICTURES -----	75	39.5	245.00	248.00	233.50-257.50	-	-	-	-	-	2	1	1	3	2	1	2	1	11	36	2	13	1	-	-	-	-	-	-	-	-	-
SWITCHBOARD OPERATOR-RECEPTIONISTS -----	283	39.5	173.00	162.00	138.00-205.00	-	8	20	15	37	34	16	45	13	10	10	15	1	16	22	13	5	3	-	-	-	-	-	-	-	-	-
MANUFACTURING -----	128	40.0	177.00	163.00	144.00-209.50	-	-	-	-	20	26	6	37	-	-	1	11	-	16	3	7	-	1	-	-	-	-	-	-	-	-	-
NONMANUFACTURING -----	155	39.5	170.00	160.00	120.50-199.50	-	8	20	15	17	8	10	8	13	10	9	4	1	-	19	6	5	2	-	-	-	-	-	-	-	-	-

See footnotes at end of tables.



**Table A-9. Weekly earnings of professional and technical workers—large establishments in Los Angeles—Long Beach, Calif., October 1977**

Occupation and industry division	Number of workers	Average weekly hours <sup>1</sup> (standard)	Weekly earnings <sup>1</sup> (standard)			Number of workers receiving straight-time weekly earnings of—																					
			Mean <sup>2</sup>	Median <sup>2</sup>	Middle range <sup>2</sup>	Under and over																					
						\$ 160	\$ 180	\$ 200	\$ 220	\$ 240	\$ 260	\$ 280	\$ 300	\$ 320	\$ 340	\$ 360	\$ 380	\$ 400	\$ 420	\$ 440	\$ 460	\$ 480	\$ 500	\$ 520	\$ 540		
<b>ALL WORKERS</b>																											
COMPUTER SYSTEMS ANALYSTS (BUSINESS) -----	1,635	39.5	\$ 385.50	\$ 378.00	\$ 336.50-433.00	-	-	-	4	6	27	48	69	152	127	187	222	168	140	120	102	94	69	34	31	35	
MANUFACTURING -----	844	39.5	391.00	379.50	338.00-443.00	-	-	-	-	3	20	39	75	83	96	116	78	67	49	60	53	39	23	25	18		
NONMANUFACTURING -----	791	39.5	379.50	377.00	333.00-424.50	-	-	-	4	6	24	28	30	77	44	91	106	90	73	71	42	41	30	11	6	17	
PUBLIC UTILITIES -----	119	40.0	438.50	430.50	378.50-487.50	-	-	-	-	-	-	-	-	1	2	8	20	11	10	10	7	14	17	5	6	*8	
MOTION PICTURES -----	64	39.5	417.50	413.00	376.00-451.50	-	-	-	-	1	1	-	-	-	-	7	9	12	9	5	6	1	5	2	-	**6	
COMPUTER SYSTEMS ANALYSTS (BUSINESS), CLASS A -----	905	39.5	414.50	405.00	366.00-456.50	-	-	-	-	-	-	-	7	37	29	107	130	117	90	92	77	70	58	27	29	35	
MANUFACTURING -----	449	39.5	425.50	416.00	368.50-470.00	-	-	-	-	-	-	-	-	6	10	61	69	46	41	30	41	45	38	20	24	18	
NONMANUFACTURING -----	456	39.5	404.00	397.50	365.00-437.50	-	-	-	-	-	-	7	31	19	46	61	71	49	62	36	25	20	7	5	17		
PUBLIC UTILITIES -----	56	40.0	453.50	434.00	386.00-503.50	-	-	-	-	-	-	-	-	-	1	11	6	4	7	4	1	7	2	5	8		
MOTION PICTURES -----	46	39.5	438.00	421.00	384.50-481.00	-	-	-	-	-	-	-	-	-	-	3	4	9	7	4	5	1	5	2	-	6	
COMPUTER SYSTEMS ANALYSTS (BUSINESS), CLASS B -----	584	39.5	358.50	351.00	310.50-399.00	-	-	-	3	12	28	53	82	73	63	82	46	45	28	25	24	11	7	2	-	-	
MANUFACTURING -----	327	39.5	360.00	350.00	317.50-397.00	-	-	-	-	-	6	33	46	60	31	47	28	25	19	19	8	1	3	1	-	-	
NONMANUFACTURING -----	257	39.5	356.50	351.00	304.50-401.00	-	-	-	3	12	22	20	36	13	32	35	18	20	9	6	16	10	4	1	-	-	
PUBLIC UTILITIES -----	63	39.5	425.50	421.00	374.00-477.50	-	-	-	-	-	-	-	-	1	2	7	9	5	6	3	3	13	10	3	1	-	
COMPUTER SYSTEMS ANALYSTS (BUSINESS), CLASS C -----	146	39.5	311.00	312.50	278.50-343.00	-	-	-	4	3	15	20	9	33	25	17	10	5	5	-	-	-	-	-	-	-	
COMPUTER PROGRAMMERS (BUSINESS) -----	1,381	39.5	327.50	329.50	280.50-368.00	-	-	-	10	38	66	112	117	150	131	175	178	152	82	47	49	31	18	14	9	1	1
MANUFACTURING -----	595	40.0	338.50	340.00	293.50-378.50	-	-	-	6	20	10	50	28	60	56	65	97	64	36	25	31	16	9	11	9	1	1
NONMANUFACTURING -----	786	39.0	319.00	320.00	276.00-361.00	-	-	-	4	18	56	62	89	90	75	110	81	88	46	22	18	15	9	3	-	-	
PUBLIC UTILITIES -----	185	40.0	364.50	365.50	322.50-404.50	-	-	-	-	2	3	10	13	17	23	19	26	21	15	14	13	6	3	-	-	-	
RETAIL TRADE -----	60	40.0	320.00	322.50	298.50-345.00	-	-	-	2	-	4	6	5	12	13	6	5	5	2	-	-	-	-	-	-	-	
MOTION PICTURES -----	28	40.0	351.50	341.50	317.00-377.50	-	-	-	-	-	-	1	1	6	6	4	4	1	3	-	-	2	-	-	-	-	
COMPUTER PROGRAMMERS (BUSINESS), CLASS A -----	631	39.0	362.50	360.00	325.00-388.00	-	-	-	-	1	21	24	39	54	79	94	122	59	34	34	27	18	14	9	1	1	
MANUFACTURING -----	261	40.0	379.00	376.50	340.00-422.00	-	-	-	-	6	7	11	22	19	36	47	25	20	23	14	9	11	9	1	1	-	
NONMANUFACTURING -----	370	38.5	350.50	354.50	320.00-379.50	-	-	-	-	1	15	17	28	32	60	58	75	34	14	11	13	9	3	-	-	-	
PUBLIC UTILITIES -----	77	40.0	393.50	384.00	365.00-445.00	-	-	-	-	-	-	-	4	5	5	4	16	9	7	7	11	6	3	-	-	-	
COMPUTER PROGRAMMERS (BUSINESS), CLASS B -----	545	39.5	312.00	310.00	276.50-342.50	-	-	-	1	6	37	42	68	92	57	78	81	28	23	13	15	4	-	-	-	-	
MANUFACTURING -----	256	39.5	325.00	335.00	293.00-348.00	-	-	-	-	3	20	16	46	26	42	61	16	11	5	8	2	-	-	-	-	-	
NONMANUFACTURING -----	289	39.5	301.00	295.00	269.00-333.50	-	-	-	1	6	34	22	52	46	31	36	20	12	12	8	7	2	-	-	-	-	
PUBLIC UTILITIES -----	73	40.0	360.50	361.50	327.00-398.00	-	-	-	-	-	-	5	7	4	6	13	9	12	8	7	2	-	-	-	-	-	
COMPUTER PROGRAMMERS (BUSINESS), CLASS C -----	205	39.5	260.50	253.00	225.00-288.50	-	-	-	9	32	28	49	25	19	20	18	3	2	-	-	-	-	-	-	-	-	
MANUFACTURING -----	78	40.0	247.50	250.00	215.00-267.00	-	-	-	6	20	7	24	5	3	8	4	-	1	-	-	-	-	-	-	-	-	
NONMANUFACTURING -----	127	39.5	268.50	264.50	236.50-298.50	-	-	-	3	12	21	25	20	16	12	14	3	1	-	-	-	-	-	-	-	-	
COMPUTER OPERATORS -----	1,767	39.5	240.00	241.50	204.00-270.50	51	118	223	239	232	367	218	140	81	57	27	7	2	4	-	1	-	-	-	-	-	
MANUFACTURING -----	734	40.0	241.50	244.00	200.50-274.50	26	49	107	94	83	133	85	66	30	33	19	3	1	4	-	1	-	-	-	-	-	
NONMANUFACTURING -----	1,033	39.5	239.00	241.00	205.00-268.00	25	69	116	145	149	234	133	74	51	24	8	4	1	-	-	-	-	-	-	-	-	
RETAIL TRADE -----	117	40.0	253.50	241.50	216.00-296.50	-	6	10	14	21	12	11	17	17	9	-	-	-	-	-	-	-	-	-	-	-	
FINANCE -----	259	38.5	235.00	230.00	213.00-255.00	1	11	28	47	62	54	28	12	16	-	-	-	-	-	-	-	-	-	-	-	-	
MOTION PICTURES -----	32	39.5	293.00	294.50	271.50-305.00	-	-	-	2	-	3	5	11	4	3	3	-	1	-	-	-	-	-	-	-	-	

\* Workers were distributed as follows: 3 at \$540 to \$560; 2 at \$560 to \$580; and 3 at \$580 to \$600.

\*\* Workers were at \$540 to \$560.

See footnotes at end of tables.



**Table A-9. Weekly earnings of professional and technical workers—large establishments in Los Angeles—Long Beach, Calif., October 1977—Continued**

Occupation and industry division	Number of workers	Average weekly hours <sup>1</sup> (standard)	Weekly earnings <sup>1</sup> (standard)			Number of workers receiving straight-time weekly earnings of—																						
			Mean <sup>2</sup>	Median <sup>2</sup>	Middle range <sup>2</sup>	Under \$160	\$ 160	\$ 180	\$ 200	\$ 220	\$ 240	\$ 260	\$ 280	\$ 300	\$ 320	\$ 340	\$ 360	\$ 380	\$ 400	\$ 420	\$ 440	\$ 460	\$ 480	\$ 500	\$ 520	\$ 540	and over	
						160	180	200	220	240	260	280	300	320	340	360	380	400	420	440	460	480	500	520	540	over		
ALL WORKERS-- CONTINUED																												
COMPUTER OPERATORS - CONTINUED																												
COMPUTER OPERATORS, CLASS A -----	619	39.5	\$ 268.00	\$ 269.00	\$ 234.00-296.00	-	3	21	61	93	93	113	98	56	53	18	7	1	1	-	1	-	-	-	-	-	-	-
MANUFACTURING -----	258	40.0	271.50	269.00	237.00-300.00	-	-	12	14	42	47	34	44	20	30	10	3	-	1	-	1	-	-	-	-	-	-	-
NONMANUFACTURING -----	361	39.5	265.50	269.00	228.00-294.50	-	3	9	47	51	46	79	54	36	23	8	4	1	-	-	-	-	-	-	-	-	-	-
PUBLIC UTILITIES -----	79	40.0	295.00	278.00	278.00-324.00	-	-	-	-	2	4	37	9	7	11	5	4	-	-	-	-	-	-	-	-	-	-	-
MOTION PICTURES -----	26	40.0	302.00	295.00	288.50-317.50	-	-	-	-	-	2	3	11	3	3	3	-	1	-	-	-	-	-	-	-	-	-	-
COMPUTER OPERATORS, CLASS B -----	875	39.5	232.00	237.50	199.50-254.50	6	68	146	133	93	266	100	31	23	3	2	-	1	3	-	-	-	-	-	-	-	-	-
MANUFACTURING -----	398	40.0	228.00	219.50	194.00-253.00	6	44	76	73	27	86	50	20	8	2	2	-	1	3	-	-	-	-	-	-	-	-	-
NONMANUFACTURING -----	477	39.5	235.00	245.00	204.00-254.50	-	24	70	60	66	180	50	11	15	1	-	-	-	-	-	-	-	-	-	-	-	-	-
COMPUTER OPERATORS, CLASS C -----	273	39.5	201.50	195.50	170.00-222.00	*45	47	56	45	46	8	5	11	2	1	7	-	-	-	-	-	-	-	-	-	-	-	-
MANUFACTURING -----	78	39.5	209.00	197.50	161.50-228.00	20	5	19	7	14	-	1	2	2	1	7	-	-	-	-	-	-	-	-	-	-	-	-
NONMANUFACTURING -----	195	39.0	198.50	194.00	172.00-220.00	25	42	37	38	32	8	4	9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DRAFTERS -----	1,223	40.0	263.00	260.00	226.00-303.00	27	50	101	73	146	189	187	123	120	75	71	47	13	1	-	-	-	-	-	-	-	-	-
MANUFACTURING -----	1,004	40.0	256.00	253.50	224.00-291.50	27	49	92	64	128	174	135	111	97	48	56	17	6	-	-	-	-	-	-	-	-	-	-
NONMANUFACTURING -----	219	40.0	294.50	288.50	262.00-330.00	-	1	9	9	18	15	52	12	23	27	15	30	7	1	-	-	-	-	-	-	-	-	-
PUBLIC UTILITIES -----	164	40.0	311.00	318.00	267.00-347.50	-	-	1	3	9	5	43	5	18	27	15	30	7	1	-	-	-	-	-	-	-	-	-
DRAFTERS, CLASS A -----	598	40.0	292.00	287.50	260.00-321.00	-	-	-	8	22	119	100	106	93	41	56	39	13	1	-	-	-	-	-	-	-	-	-
MANUFACTURING -----	539	40.0	287.00	285.50	254.00-307.00	-	-	-	8	20	117	95	101	85	36	54	17	6	-	-	-	-	-	-	-	-	-	-
NONMANUFACTURING -----	59	40.0	338.00	360.00	302.50-374.00	-	-	-	-	2	2	5	5	8	5	2	22	7	1	-	-	-	-	-	-	-	-	-
DRAFTERS, CLASS B -----	388	40.0	253.00	250.00	224.00-267.50	-	8	29	42	87	58	84	16	26	16	15	7	-	-	-	-	-	-	-	-	-	-	-
MANUFACTURING -----	271	40.0	240.00	230.00	216.00-262.00	-	8	27	36	80	48	37	9	12	12	2	-	-	-	-	-	-	-	-	-	-	-	-
NONMANUFACTURING -----	117	40.0	282.50	267.00	267.00-308.50	-	-	2	6	7	10	47	7	14	4	13	7	-	-	-	-	-	-	-	-	-	-	-
PUBLIC UTILITIES -----	90	40.0	294.50	267.00	267.00-328.50	-	-	-	-	2	1	2	43	5	13	4	13	7	-	-	-	-	-	-	-	-	-	-
DRAFTERS, CLASS C -----	193	40.0	213.00	198.50	181.00-230.00	12	27	60	23	36	12	2	1	1	18	-	1	-	-	-	-	-	-	-	-	-	-	-
MANUFACTURING -----	152	40.0	197.00	188.50	179.50-222.00	12	26	55	20	27	9	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ELECTRONICS TECHNICIANS -----	3,141	40.0	306.50	323.50	271.00-339.50	-	27	83	103	141	227	310	284	350	1009	300	214	61	7	-	25	-	-	-	-	-	-	-
MANUFACTURING -----	1,760	40.0	285.00	288.50	252.00-329.00	-	19	71	83	123	205	275	230	250	383	83	17	14	7	-	-	-	-	-	-	-	-	-
NONMANUFACTURING -----	1,381	40.0	334.00	339.50	339.50-345.00	-	8	12	20	18	22	35	54	100	626	217	197	47	-	-	25	-	-	-	-	-	-	-
ELECTRONICS TECHNICIANS, CLASS A- MANUFACTURING -----	1,532	40.0	317.50	323.50	292.00-340.00	-	-	-	11	38	68	163	151	302	413	116	204	59	7	-	-	-	-	-	-	-	-	-
NONMANUFACTURING -----	1,103	40.0	307.00	318.50	281.00-329.00	-	-	-	11	38	68	152	120	233	364	82	16	12	7	-	-	-	-	-	-	-	-	-
ELECTRONICS TECHNICIANS, CLASS B- MANUFACTURING -----	1,382	40.0	304.50	339.50	262.50-339.50	-	1	31	49	69	144	132	124	44	596	180	10	2	-	-	-	-	-	-	-	-	-	-
NONMANUFACTURING -----	522	40.0	257.50	257.50	236.50-285.50	-	-	31	44	65	127	111	104	17	19	1	1	2	-	-	-	-	-	-	-	-	-	-
ELECTRONICS TECHNICIANS, CLASS C- MANUFACTURING -----	194	40.0	213.50	208.00	189.00-228.50	-	26	52	43	34	15	15	9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NONMANUFACTURING -----	135	40.0	213.00	207.00	188.50-226.50	-	19	40	28	20	10	12	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
REGISTERED INDUSTRIAL NURSES -----	321	40.0	277.00	276.00	253.00-303.50	-	2	14	3	33	49	73	50	64	19	8	2	4	-	-	-	-	-	-	-	-	-	-
MANUFACTURING -----	230	40.0	276.50	275.00	253.00-300.00	-	-	14	3	18	38	59	31	41	15	5	2	4	-	-	-	-	-	-	-	-	-	-
NONMANUFACTURING -----	91	39.5	279.00	280.00	255.50-308.50	-	2	-	-	15	11	14	19	23	4	3	-	-	-	-	-	-	-	-	-	-	-	-

\* Workers were at \$140 to \$160.

See footnotes at end of tables.

**Table A-10. Average weekly earnings of office, professional, and technical workers, by sex—large establishments in Los Angeles—Long Beach, Calif., October 1977**

Sex, <sup>3</sup> occupation, and industry division	Number of workers	Average (mean <sup>2</sup> )		Sex, <sup>3</sup> occupation, and industry division	Number of workers	Average (mean <sup>2</sup> )		Sex, <sup>3</sup> occupation, and industry division	Number of workers	Average (mean <sup>2</sup> )	
		Weekly hours <sup>1</sup> (standard)	Weekly earnings <sup>1</sup> (standard)			Weekly hours <sup>1</sup> (standard)	Weekly earnings <sup>1</sup> (standard)			Weekly hours <sup>1</sup> (standard)	Weekly earnings <sup>1</sup> (standard)
OFFICE OCCUPATIONS - MEN			\$	OFFICE OCCUPATIONS - WOMEN--CONTINUED			\$	OFFICE OCCUPATIONS - WOMEN--CONTINUED			\$
MESSENGERS -----	364	39.5	150.50	STENOGRAPHERS - CONTINUED				ACCOUNTING CLERKS -----	4,266	39.5	190.50
MANUFACTURING -----	107	39.5	171.50	STENOGRAPHERS, GENERAL -----	616	39.5	200.00	MANUFACTURING -----	1,526	39.5	191.50
NONMANUFACTURING -----	257	39.5	142.00	MANUFACTURING -----	227	40.0	210.00	NONMANUFACTURING -----	2,740	39.5	190.50
ACCOUNTING CLERKS:				NONMANUFACTURING -----	389	39.5	194.00	RETAIL TRADE -----	1,073	40.0	198.50
NONMANUFACTURING:				MOTION PICTURES -----	28	40.0	238.50	FINANCE -----	639	38.0	162.00
MOTION PICTURES -----	23	38.5	255.50	STENOGRAPHERS, SENIOR -----	1,437	40.0	212.50	MOTION PICTURES -----	74	39.0	257.50
ACCOUNTING CLERKS, CLASS A:				MANUFACTURING -----	726	40.0	239.00	ACCOUNTING CLERKS, CLASS A -----	2,090	39.5	202.50
NONMANUFACTURING:				NONMANUFACTURING -----	711	39.5	186.00	MANUFACTURING -----	947	39.5	199.50
MOTION PICTURES -----	15	38.0	251.00	MOTION PICTURES -----	45	40.0	255.00	NONMANUFACTURING -----	1,143	39.5	204.50
OFFICE OCCUPATIONS - WOMEN				TRANSCRIBING-MACHINE TYPISTS -----	197	38.0	179.50	PUBLIC UTILITIES -----	302	40.0	243.00
SECRETARIES -----	12,023	39.5	233.00	TYPISTS -----	2,355	39.5	167.50	RETAIL TRADE -----	271	40.0	209.00
MANUFACTURING -----	5,805	39.5	243.50	MANUFACTURING -----	844	40.0	192.00	FINANCE -----	373	38.5	172.00
NONMANUFACTURING:				NONMANUFACTURING -----	1,511	39.0	154.00	MOTION PICTURES -----	51	38.5	257.50
PUBLIC UTILITIES -----	1,220	39.0	250.50	PUBLIC UTILITIES -----	117	40.0	193.50	ACCOUNTING CLERKS, CLASS B -----	2,176	39.5	179.50
WHOLESALE TRADE -----	433	40.0	236.00	FINANCE -----	1,107	39.0	147.00	MANUFACTURING -----	579	39.5	178.00
RETAIL TRADE -----	539	40.0	219.50	TYPISTS, CLASS A -----	908	39.0	186.00	NONMANUFACTURING -----	1,597	39.5	180.00
FINANCE -----	2,620	39.0	203.50	MANUFACTURING -----	376	39.5	206.00	RETAIL TRADE -----	802	40.0	195.00
MOTION PICTURES -----	492	39.5	265.50	NONMANUFACTURING -----	532	39.0	171.50	FINANCE -----	266	37.5	148.00
SECRETARIES, CLASS A -----	566	39.5	299.00	FINANCE -----	418	38.5	160.00	BOOKKEEPING-MACHINE OPERATORS -----	112	40.0	201.00
MANUFACTURING -----	285	40.0	308.00	TYPISTS, CLASS B -----	1,447	39.5	156.00	PAYROLL CLERKS -----	501	39.5	206.50
SECRETARIES, CLASS B -----	2,425	39.5	258.50	MANUFACTURING -----	468	40.0	181.00	MANUFACTURING -----	205	40.0	211.50
MANUFACTURING -----	1,281	40.0	270.00	NONMANUFACTURING -----	979	39.5	144.50	NONMANUFACTURING -----	296	39.0	203.00
NONMANUFACTURING -----	1,144	39.5	245.50	FINANCE -----	689	39.5	139.00	RETAIL TRADE -----	116	39.5	203.50
PUBLIC UTILITIES -----	220	39.5	281.50	FILE CLERKS -----	979	39.0	145.00	KEYPUNCH OPERATORS -----	2,741	39.5	199.50
RETAIL TRADE -----	149	40.0	228.50	MANUFACTURING -----	188	39.5	170.50	MANUFACTURING -----	1,267	40.0	205.00
FINANCE -----	534	39.5	228.50	NONMANUFACTURING -----	791	38.5	139.00	NONMANUFACTURING -----	1,474	39.5	195.00
SECRETARIES, CLASS C -----	4,647	39.5	233.50	FINANCE -----	590	38.0	127.00	RETAIL TRADE -----	360	39.5	192.50
MANUFACTURING -----	2,348	40.0	246.00	FILE CLERKS, CLASS B -----	366	38.5	154.00	FINANCE -----	473	39.0	180.00
NONMANUFACTURING:				NONMANUFACTURING -----	339	38.5	151.50	MOTION PICTURES -----	64	39.5	237.50
PUBLIC UTILITIES -----	561	39.0	243.00	FINANCE -----	241	38.0	131.00	KEYPUNCH OPERATORS, CLASS A -----	1,371	39.5	207.00
WHOLESALE TRADE -----	183	40.0	231.50	FILE CLERKS, CLASS C -----	519	39.0	130.50	MANUFACTURING -----	641	40.0	211.50
FINANCE -----	1,018	39.5	201.50	MANUFACTURING -----	140	40.0	158.00	MANUFACTURING -----	730	39.0	203.50
MOTION PICTURES -----	116	38.5	272.00	NONMANUFACTURING -----	379	39.0	120.50	NONMANUFACTURING -----	168	39.5	219.00
SECRETARIES, CLASS D -----	4,066	39.0	208.50	MESSENGERS -----	230	39.0	143.00	FINANCE -----	194	38.0	180.00
MANUFACTURING -----	1,844	39.5	212.00	SWITCHBOARD OPERATORS -----	1,112	39.5	176.00	KEYPUNCH OPERATORS, CLASS B -----	1,370	39.5	192.00
NONMANUFACTURING -----	2,222	39.0	206.00	MANUFACTURING -----	423	40.0	194.00	MANUFACTURING -----	626	40.0	198.00
PUBLIC UTILITIES -----	351	38.5	226.00	NONMANUFACTURING -----	689	39.0	165.00	NONMANUFACTURING:			
FINANCE -----	969	39.0	185.00	FINANCE -----	171	39.5	155.00	RETAIL TRADE -----	192	39.5	169.50
MOTION PICTURES -----	226	39.0	257.50	MOTION PICTURES -----	61	39.0	235.00	FINANCE -----	279	39.5	180.50
STENOGRAPHERS -----	2,053	39.5	209.00	SWITCHBOARD OPERATOR-RECEPTIONISTS-----	245	39.5	169.00	PROFESSIONAL AND TECHNICAL OCCUPATIONS - MEN			
MANUFACTURING -----	953	40.0	232.00	MANUFACTURING -----	111	40.0	179.50	COMPUTER SYSTEMS ANALYSTS (BUSINESS) -----	1,094	39.5	390.50
NONMANUFACTURING -----	1,100	39.5	189.00	NONMANUFACTURING -----	134	39.5	160.50	MANUFACTURING -----	581	39.5	399.00
MOTION PICTURES -----	73	40.0	249.00	ORDER CLERKS -----	291	40.0	176.50	NONMANUFACTURING -----	513	39.5	380.00
				MANUFACTURING -----	193	40.0	181.50	PUBLIC UTILITIES -----	90	40.0	442.50
								MOTION PICTURES -----	38	39.5	399.50

See footnotes at end of tables.

**Table A-10. Average weekly earnings of office, professional, and technical workers, by sex—large establishments in Los Angeles—Long Beach, Calif., October 1977—Continued**

Sex, <sup>3</sup> occupation, and industry division	Number of workers	Average (mean <sup>2</sup> )		Sex, <sup>3</sup> occupation, and industry division	Number of workers	Average (mean <sup>2</sup> )		Sex, <sup>3</sup> occupation, and industry division	Number of workers	Average (mean <sup>2</sup> )	
		Weekly hours <sup>1</sup> (standard)	Weekly earnings <sup>1</sup> (standard)			Weekly hours <sup>1</sup> (standard)	Weekly earnings <sup>1</sup> (standard)			Weekly hours <sup>1</sup> (standard)	Weekly earnings <sup>1</sup> (standard)
PROFESSIONAL AND TECHNICAL OCCUPATIONS - MEN--CONTINUED				PROFESSIONAL AND TECHNICAL OCCUPATIONS - MEN--CONTINUED				PROFESSIONAL AND TECHNICAL OCCUPATIONS - MEN--CONTINUED			
COMPUTER SYSTEMS ANALYSTS (BUSINESS) - CONTINUED				COMPUTER PROGRAMMERS (BUSINESS) - CONTINUED				DRAFTERS - CONTINUED			
COMPUTER SYSTEMS ANALYSTS (BUSINESS), CLASS A -----	620	39.5	\$ 419.00	COMPUTER PROGRAMMERS (BUSINESS), CLASS B -----	383	39.5	\$ 321.00	DRAFTERS, CLASS C -----	127	40.0	\$ 199.00
MANUFACTURING -----	337	39.5	428.00	MANUFACTURING -----	193	39.5	333.00	MANUFACTURING -----	115	40.0	193.00
NONMANUFACTURING -----	283	39.5	408.50	NONMANUFACTURING -----	190	39.5	309.00	PROFESSIONAL AND TECHNICAL OCCUPATIONS - WOMEN			
MOTION PICTURES -----	27	39.5	415.50	PUBLIC UTILITIES -----	59	40.0	361.00	COMPUTER SYSTEMS ANALYSTS (BUSINESS):			
COMPUTER SYSTEMS ANALYSTS (BUSINESS), CLASS B -----	384	39.5	362.50	COMPUTER PROGRAMMERS (BUSINESS), CLASS C -----	140	39.5	261.50	NONMANUFACTURING -----	238	39.5	368.50
NONMANUFACTURING -----	178	39.5	355.50	NONMANUFACTURING -----	98	39.5	267.50	COMPUTER SYSTEMS ANALYSTS (BUSINESS), CLASS B:			
COMPUTER SYSTEMS ANALYSTS (BUSINESS), CLASS C -----	90	39.5	309.50	COMPUTER OPERATORS: MANUFACTURING -----	552	39.5	239.50	NONMANUFACTURING -----	73	39.5	358.50
COMPUTER PROGRAMMERS (BUSINESS) ---	1,050	39.5	334.50	NONMANUFACTURING: RETAIL TRADE -----	97	40.0	249.00	COMPUTER PROGRAMMERS (BUSINESS) ---	279	39.0	307.50
MANUFACTURING -----	451	40.0	348.00	FINANCE -----	219	38.5	237.50	MANUFACTURING -----	123	40.0	318.00
NONMANUFACTURING -----	599	39.0	325.00	COMPUTER OPERATORS, CLASS A ----	475	39.5	268.50	NONMANUFACTURING -----	156	38.5	299.00
PUBLIC UTILITIES -----	149	40.0	366.00	MANUFACTURING -----	196	39.5	276.50	COMPUTER PROGRAMMERS (BUSINESS), CLASS A -----	98	39.0	350.00
RETAIL TRADE -----	52	40.0	322.50	COMPUTER OPERATORS, CLASS B: MANUFACTURING -----	305	40.0	222.00	NONMANUFACTURING -----	53	38.5	333.00
COMPUTER PROGRAMMERS (BUSINESS), CLASS A -----	527	39.0	364.00	COMPUTER OPERATORS, CLASS C ----	197	39.0	196.00	COMPUTER PROGRAMMERS (BUSINESS), CLASS C -----	60	39.5	259.00
MANUFACTURING -----	216	40.0	380.50	MANUFACTURING -----	51	39.5	202.50	COMPUTER OPERATORS: MANUFACTURING -----	167	40.0	248.50
NONMANUFACTURING -----	311	38.5	352.50	NONMANUFACTURING -----	146	39.0	193.50	COMPUTER OPERATORS, CLASS B: MANUFACTURING -----	93	40.0	247.00
PUBLIC UTILITIES -----	61	40.0	401.00	DRAFTERS: NONMANUFACTURING -----	123	40.0	311.50	NONMANUFACTURING -----	293	40.0	279.00
				PUBLIC UTILITIES -----	88	40.0	334.00	REGISTERED INDUSTRIAL NURSES -----	214	40.0	279.50
				DRAFTERS, CLASS B: NONMANUFACTURING -----	60	40.0	294.00	NONMANUFACTURING -----	79	39.5	277.00

See footnotes at end of tables.

**Table A-11. Hourly earnings of maintenance, toolroom, and powerplant workers—large establishments in Los Angeles—Long Beach, Calif., October 1977**

Occupation and industry division	Number of workers	Hourly earnings: 4			Number of workers receiving straight-time hourly earnings of—																							
		Mean 2	Median 2	Middle range 2	Under \$ 4.40	\$ 4.40	\$ 4.60	\$ 4.80	\$ 5.00	\$ 5.20	\$ 5.40	\$ 5.60	\$ 5.80	\$ 6.00	\$ 6.20	\$ 6.40	\$ 6.60	\$ 6.80	\$ 7.00	\$ 7.20	\$ 7.60	\$ 8.00	\$ 8.40	\$ 8.80	\$ 9.20	\$ 9.60	\$ 10.00	
					and under \$ 4.40																							
<b>ALL WORKERS</b>																												
MAINTENANCE CARPENTERS -----	446	\$ 7.53	\$ 7.70	\$ 6.90- 8.16	-	-	2	2	7	5	3	5	6	8	27	19	13	29	19	39	128	46	36	49	3	-	-	-
MANUFACTURING -----	316	7.63	7.77	7.13- 8.05	-	-	-	1	1	-	-	1	6	24	17	11	6	15	20	125	29	36	23	1	-	-	-	-
NONMANUFACTURING -----	130	7.27	7.28	6.44- 8.16	-	-	2	2	6	4	3	5	5	2	3	2	23	4	19	3	17	-	26	2	-	-	-	
MAINTENANCE ELECTRICIANS -----	1,559	8.24	8.27	7.55- 8.86	-	-	-	-	-	1	1	-	14	25	21	13	39	119	199	175	318	172	176	243	5	38	-	
MANUFACTURING -----	1,218	8.19	8.27	7.35- 8.79	-	-	-	-	-	-	-	-	14	21	21	12	36	116	180	79	305	154	-	238	4	38	-	
NONMANUFACTURING -----	341	8.39	8.86	7.67- 8.86	-	-	-	-	1	1	-	-	4	-	1	3	3	19	96	13	18	176	5	1	-	-	-	
MOTION PICTURES -----	75	7.98	7.87	7.67- 7.88	-	-	-	-	-	7.87	-	-	-	-	-	-	-	-	-	-	69	-	6	-	-	-	-	
MAINTENANCE PAINTERS -----	425	7.64	7.59	7.16- 8.52	-	1	-	1	-	-	3	5	13	3	26	15	9	12	22	137	60	11	25	60	2	-	-	
MANUFACTURING -----	312	7.62	7.56	7.36- 8.09	-	1	-	-	-	1	2	13	-	24	8	9	7	5	134	27	6	21	52	2	-	-	-	
NONMANUFACTURING -----	113	7.70	7.84	7.16- 8.75	-	-	-	1	-	2	3	-	3	2	7	-	5	17	3	33	5	4	28	-	-	-	-	
MAINTENANCE MACHINISTS -----	607	8.14	8.25	7.26- 8.86	-	-	-	6	-	-	-	2	13	8	-	44	55	16	41	89	73	72	66	32	59	31	-	
MANUFACTURING -----	490	8.02	7.83	6.95- 8.52	-	-	-	6	-	-	-	2	13	8	-	44	55	12	41	72	70	65	-	12	59	31	-	
NONMANUFACTURING -----	117	8.67	8.86	8.63- 8.86	-	-	-	-	-	-	-	-	-	-	-	-	-	4	-	17	3	7	66	20	-	-	-	
MAINTENANCE MECHANICS (MACHINERY) -	2,146	7.25	7.35	6.45- 8.00	-	2	-	6	66	55	25	114	87	69	91	59	38	233	256	298	346	113	152	14	-	-	-	
MANUFACTURING -----	1,995	7.22	7.35	6.44- 8.00	-	2	-	6	66	53	25	106	83	65	86	50	34	233	243	259	331	113	108	14	-	-	-	
NONMANUFACTURING -----	151	7.66	7.63	7.00- 8.84	-	-	-	-	2	-	8	4	4	5	9	4	-	4	13	39	15	-	44	-	-	-	-	
MAINTENANCE MECHANICS (MOTOR VEHICLES) -----	1,258	8.39	8.30	7.74- 9.18	-	-	-	-	1	6	2	1	2	4	16	3	21	11	173	270	125	76	256	284	7	-	-	
MANUFACTURING -----	310	7.85	7.56	7.56- 8.28	-	-	-	-	-	6	-	-	-	12	3	2	10	146	28	47	14	16	19	7	-	-	-	
NONMANUFACTURING -----	948	8.57	8.84	7.74- 9.28	-	-	-	-	1	-	2	1	2	4	4	-	19	1	27	242	78	62	240	265	-	-	-	
PUBLIC UTILITIES -----	755	8.62	8.84	7.74- 9.44	-	-	-	-	1	-	-	1	1	-	-	-	18	-	23	228	45	1	172	265	-	-	-	
MAINTENANCE PIPEFITTERS -----	510	8.62	8.56	8.25- 9.18	-	-	-	-	-	-	-	1	-	-	-	-	-	5	53	18	70	165	95	84	19	-	-	
MANUFACTURING -----	506	8.63	8.56	8.25- 9.18	-	-	-	-	-	-	-	-	-	-	-	-	-	5	53	18	70	165	92	84	19	-	-	
MAINTENANCE SHEET-METAL WORKERS ---	84	7.75	7.76	7.56- 7.88	-	-	-	-	-	-	1	1	-	-	-	4	-	-	19	49	4	-	-	6	-	-	-	
MANUFACTURING -----	75	7.79	7.77	7.56- 7.88	-	-	-	-	-	-	1	-	-	-	-	4	-	-	19	41	4	-	-	6	-	-	-	
MAINTENANCE TRADES HELPERS -----	300	6.00	6.54	5.25- 6.60	*35	21	6	5	6	14	9	1	11	-	8	109	15	-	7	7	-	-	-	-	-	-	-	
MANUFACTURING -----	189	5.94	6.50	4.67- 6.61	25	20	6	4	2	1	9	-	4	-	8	48	15	-	1	-	-	-	-	-	-	-	-	
TOOL AND DIE MAKERS -----	1,124	8.00	8.23	7.32- 8.35	-	-	-	-	-	-	-	-	3	-	1	2	57	20	174	48	431	82	-	142	-	-	-	
MANUFACTURING -----	1,123	8.00	8.23	7.32- 8.35	-	-	-	-	-	-	-	-	3	-	1	2	57	20	174	47	431	82	-	142	-	-	-	
STATIONARY ENGINEERS -----	482	8.01	7.94	7.15- 8.87	-	-	-	-	-	2	6	12	12	7	5	37	12	29	27	101	46	28	49	54	15	-	-	
MANUFACTURING -----	278	8.11	7.84	7.49- 8.87	-	-	-	-	-	-	-	-	-	-	29	1	22	19	69	43	15	42	24	14	-	-		
NONMANUFACTURING -----	204	7.86	7.94	6.70- 8.87	-	-	-	-	-	2	6	12	12	7	5	8	11	7	8	32	3	13	47	30	1	-	-	

\* Workers were distributed as follows: 9 at \$3 to \$3.20; 1 at \$3.20 to \$3.40; 9 at \$3.60 to \$3.80; 10 at \$3.80 to \$4; and 6 at \$4.20 to \$4.40.

See footnotes at end of tables.

**Table A-12. Hourly earnings of material movement and custodial workers—large establishments in Los Angeles—Long Beach, Calif., October 1977**

Occupation and industry division	Number of workers	Hourly earnings <sup>4</sup>			Number of workers receiving straight-time hourly earnings of—																							
		Mean <sup>2</sup>	Median <sup>2</sup>	Middle range <sup>2</sup>	\$ 2.50 and under	\$ 2.60	\$ 2.80	\$ 3.00	\$ 3.20	\$ 3.40	\$ 3.60	\$ 3.80	\$ 4.00	\$ 4.20	\$ 4.40	\$ 4.60	\$ 4.80	\$ 5.20	\$ 5.60	\$ 6.00	\$ 6.40	\$ 6.80	\$ 7.20	\$ 7.60	\$ 8.00	\$ 8.40	\$ 8.80	
ALL WORKERS																												
		\$	\$	\$	\$																							
TRUCKDRIVERS -----	5,613	7.74	7.76	7.26- 8.54	-	-	-	-	-	-	2	2	1	-	3	2	28	30	221	84	98	327	254	1539	428	246	2061	287
MANUFACTURING -----	2,212	7.09	7.26	7.16- 7.44	-	-	-	-	-	2	2	1	-	1	2	28	21	206	60	42	159	166	1205	161	10	-	146	
NONMANUFACTURING -----	3,401	8.15	8.45	7.80- 8.54	-	-	-	-	-	-	-	-	-	-	-	-	9	15	24	56	168	88	334	267	236	2061	141	
PUBLIC UTILITIES -----	1,785	8.40	8.54	8.40- 8.78	-	-	-	-	-	-	-	-	-	-	2	-	-	1	4	10	48	5	189	13	-	1372	141	
RETAIL TRADE -----	1,049	8.17	8.45	8.35- 8.45	-	-	-	-	-	-	-	-	-	-	-	-	9	12	17	32	10	6	1	67	206	689	-	
MOTION PICTURES -----	204	7.08	6.77	6.76- 7.41	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	104	-	100	-	-	-	-	
TRUCKDRIVERS, MEDIUM TRUCK -----	575	7.34	7.56	6.52- 8.35	-	-	-	-	-	-	-	-	-	2	1	12	-	32	25	28	90	76	50	45	90	124	-	
MANUFACTURING -----	213	6.73	6.83	6.26- 7.56	-	-	-	-	-	-	-	-	-	-	1	12	-	29	7	12	45	12	50	45	-	-		
NONMANUFACTURING -----	362	7.70	8.35	6.83- 8.54	-	-	-	-	-	-	-	-	-	-	-	-	-	3	16	16	45	64	-	-	90	124		
PUBLIC UTILITIES -----	172	7.99	8.54	6.52- 8.66	-	-	-	-	-	-	-	-	-	-	2	-	-	-	1	3	40	2	-	-	-	124		
TRUCKDRIVERS, HEAVY TRUCK -----	3,094	7.83	7.69	7.26- 8.45	-	-	-	-	-	-	-	-	-	-	-	-	9	15	10	40	89	29	1294	328	134	1005	141	
(TRAILER) -----	1,943	8.19	8.45	7.80- 8.57	-	-	-	-	-	-	-	-	-	-	-	-	9	9	-	20	6	23	329	267	134	1005	141	
NONMANUFACTURING -----	1,943	8.19	8.45	7.80- 8.57	-	-	-	-	-	-	-	-	-	-	-	-	9	9	-	20	6	23	329	267	134	1005	141	
PUBLIC UTILITIES -----	656	8.41	8.78	7.45- 8.78	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	184	13	-	316	141	
SHIPPING CLERKS -----	227	5.79	5.75	5.00- 6.74	-	-	-	-	-	-	-	12	6	2	8	8	29	16	69	8	31	20	1	14	1	2	-	
MANUFACTURING -----	145	5.70	5.60	4.86- 6.74	-	-	-	-	-	-	-	10	6	2	8	2	22	13	29	3	31	12	-	4	1	2		
RECEIVING CLERKS -----	683	6.05	6.76	4.74- 7.34	-	-	26	9	4	18	29	31	7	31	7	14	27	11	96	12	23	14	299	20	-	5		
MANUFACTURING -----	183	6.17	6.24	5.18- 7.34	-	-	-	-	-	6	11	2	10	5	7	7	7	6	33	9	18	-	64	-	-	5		
NONMANUFACTURING -----	500	6.01	7.25	4.25- 7.25	-	-	26	9	4	18	23	20	5	21	2	7	20	5	63	3	5	14	235	20	-	-		
SHIPPING AND RECEIVING CLERKS -----	475	5.14	4.85	4.35- 5.71	-	-	-	33	15	18	17	4	36	27	69	78	59	12	3	14	63	11	-	16	-	-		
MANUFACTURING -----	404	4.95	4.81	4.35- 5.29	-	-	-	33	15	17	4	35	25	56	74	57	48	-	3	7	56	7	-	-	-	-		
NONMANUFACTURING -----	71	6.23	5.84	4.74- 7.20	-	-	-	-	-	3	-	-	1	2	13	4	2	12	-	7	7	4	-	16	-	-		
WAREHOUSEMEN -----	2,346	6.11	6.28	4.70- 7.72	-	-	2	5	10	170	41	53	32	83	47	181	191	185	79	147	227	140	67	173	489	24	-	
MANUFACTURING -----	1,334	5.16	4.97	4.26- 6.28	-	-	-	5	10	170	40	53	18	63	46	174	182	140	47	115	110	105	6	33	17	-	-	
NONMANUFACTURING -----	1,012	7.36	7.77	6.52- 8.12	-	-	2	-	-	-	1	-	14	20	1	7	9	45	32	32	117	35	61	140	472	24		
ORDER FILLERS -----	592	4.34	4.30	3.00- 4.86	-	3	125	50	40	2	37	20	6	16	110	32	18	22	3	16	55	14	1	22	-	-		
SHIPPING PACKERS -----	671	4.43	4.25	3.15- 5.25	-	2	125	45	54	29	59	16	4	47	25	70	22	29	2	66	4	6	66	-	-	-		
MANUFACTURING -----	413	4.68	4.25	3.30- 6.36	-	2	46	20	45	20	45	7	4	47	15	34	2	3	2	45	4	6	66	-	-	-		
MATERIAL HANDLING LABORERS -----	2,426	5.98	5.63	4.44- 7.51	-	18	-	19	50	40	144	63	182	43	75	32	156	295	433	108	19	11	141	25	-	572		
MANUFACTURING -----	854	4.97	4.92	4.14- 5.92	-	-	-	5	50	22	18	49	155	31	75	20	92	102	156	-	3	1	69	6	-	-		
NONMANUFACTURING -----	1,572	6.53	6.16	5.58- 8.41	-	18	-	14	-	18	126	14	27	12	-	12	64	193	277	108	16	10	72	19	-	572		
FORKLIFT OPERATORS -----	1,979	6.57	6.97	5.81- 7.51	-	-	-	3	45	25	18	28	15	5	64	11	41	94	348	107	104	241	439	157	166	68		
MANUFACTURING -----	1,341	6.22	6.34	5.31- 7.51	-	-	-	3	45	25	18	28	15	5	64	11	41	94	245	77	89	176	341	-	48	16		
NONMANUFACTURING -----	638	7.32	7.61	6.80- 8.17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	103	30	15	65	98	157	118	52		
POWER-TRUCK OPERATORS (OTHER THAN FORKLIFT) -----	469	7.32	7.55	7.10- 7.69	-	-	-	-	-	-	-	-	-	-	-	-	-	9	3	1	77	51	138	190	-	-		
MANUFACTURING -----	208	7.03	7.13	6.70- 7.60	-	-	-	-	-	-	-	-	-	-	-	-	-	9	3	1	77	14	44	60	-	-		
GUARDS AND WATCHMEN -----	2,382	4.89	5.00	3.29- 6.44	179	172	42	128	128	104	89	50	61	108	62	41	83	141	105	290	280	242	28	45	-	1	3	
MANUFACTURING -----	908	6.05	6.66	5.66- 6.89	-	-	-	16	30	19	49	10	13	21	21	5	17	23	64	81	269	219	2	45	-	1	3	
NONMANUFACTURING -----	1,474	4.18	3.84	2.85- 5.42	179	172	42	112	98	85	40	40	48	87	41	36	66	118	41	209	11	23	26	-	-	-		
PUBLIC UTILITIES -----	91	6.67	6.36	6.36- 7.40	-	-	-	-	-	-	-	-	-	-	-	-	-	1	8	44	-	12	26	-	-			
MOTION PICTURES -----	71	6.23	6.23	6.12- 6.23	-	-	-	-	-	-	-	-	1	-	-	-	1	2	2	54	-	11	-	-	-			

See footnotes at end of tables.

**Table A-12. Hourly earnings of material movement and custodial workers—large establishments in Los Angeles—Long Beach, Calif., October 1977—Continued**

Occupation and industry division	Number of workers	Hourly earnings <sup>4</sup>			Number of workers receiving straight-time hourly earnings of—																						
		Mean <sup>2</sup>	Median <sup>2</sup>	Middle range <sup>2</sup>	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$				
					2.50 and under	2.60	2.80	3.00	3.20	3.40	3.60	3.80	4.00	4.20	4.40	4.60	4.80	5.20	5.60	6.00	6.40	6.80	7.20	7.60	8.00	8.40	8.80
					2.60	2.80	3.00	3.20	3.40	3.60	3.80	4.00	4.20	4.40	4.60	4.80	5.20	5.60	6.00	6.40	6.80	7.20	7.60	8.00	8.40	8.80	9.20
ALL WORKERS-- CONTINUED																											
GUARDS AND WATCHMEN--CONTINUED																											
GUARDS:		\$	\$	\$	\$																						
MANUFACTURING -----	860	6.03	6.66	5.52- 6.89	-	-	-	16	30	19	49	10	13	21	21	5	17	23	64	54	249	219	2	44	-	1	3
JANITORS, PORTERS, AND CLEANERS ---	9,082	4.76	4.54	4.44- 4.65	5	230	126	184	148	165	183	138	140	188	4786	690	165	142	340	388	553	302	136	73	-	-	-
MANUFACTURING -----	2,216	5.59	5.95	4.46- 6.70	5	19	37	28	44	90	92	55	89	44	79	174	92	99	174	181	496	282	126	10	-	-	-
NONMANUFACTURING -----	6,866	4.49	4.47	4.44- 4.54	-	211	89	156	104	75	91	83	51	144	4707	516	73	43	166	207	57	20	10	63	-	-	-
PUBLIC UTILITIES -----	345	6.51	6.26	6.01- 6.61	-	-	-	-	-	-	-	-	-	-	-	-	-	1	39	185	43	18	-	59	-	-	-
RETAIL TRADE -----	1,260	4.08	4.47	3.40- 4.47	-	92	50	106	64	66	65	70	36	48	513	12	46	24	40	20	6	2	-	-	-	-	-
MOTION PICTURES -----	88	5.69	5.68	5.68- 5.69	-	-	-	-	-	-	-	-	-	-	-	-	-	-	87	1	-	-	-	-	-	-	-

See footnotes at end of tables.

**Table A-13. Average hourly earnings of maintenance, toolroom, powerplant, material movement, and custodial workers, by sex—large establishments in Los Angeles—Long Beach, Calif., October 1977**

Sex, <sup>3</sup> occupation, and industry division	Number of workers	Average (mean <sup>2</sup> ) hourly earnings <sup>4</sup>	Sex, <sup>3</sup> occupation, and industry division	Number of workers	Average (mean <sup>2</sup> ) hourly earnings <sup>4</sup>
<b>MAINTENANCE, TOOLROOM, AND POWERPLANT OCCUPATIONS - MEN</b>		\$	<b>MATERIAL MOVEMENT AND CUSTODIAL OCCUPATIONS - MEN--CONTINUED</b>		
MAINTENANCE CARPENTERS -----	431	7.53	TRUCKDRIVERS - CONTINUED		
MANUFACTURING -----	316	7.63	TRUCKDRIVERS, HEAVY TRUCK (TRAILER) -----	3,088	\$ 7.83
NONMANUFACTURING -----	115	7.26	NONMANUFACTURING -----	1,937	8.19
MAINTENANCE ELECTRICIANS -----	1,520	8.26	PUBLIC UTILITIES -----	651	8.42
MANUFACTURING -----	1,201	8.22	SHIPPING CLERKS -----	209	5.80
NONMANUFACTURING -----	319	8.42	MANUFACTURING -----	130	5.73
MOTION PICTURES -----	75	7.98	RECEIVING CLERKS -----	594	6.31
MAINTENANCE PAINTERS -----	386	7.75	MANUFACTURING -----	176	6.19
MANUFACTURING -----	288	7.73	NONMANUFACTURING -----	418	6.36
NONMANUFACTURING -----	98	7.78	SHIPPING AND RECEIVING CLERKS -----	400	5.19
MAINTENANCE MACHINISTS -----	604	8.15	MANUFACTURING -----	337	5.00
MANUFACTURING -----	490	8.02	NONMANUFACTURING -----	63	6.22
MAINTENANCE MECHANICS (MACHINERY) - MANUFACTURING -----	2,105	7.25	WAREHOUSEMEN -----	2,144	6.16
	1,980	7.23	MANUFACTURING -----	1,253	5.18
MAINTENANCE MECHANICS (MOTOR VEHICLES) -----	1,257	8.39	NONMANUFACTURING -----	891	7.54
MANUFACTURING -----	310	7.85	ORDER FILLERS -----	312	4.84
NONMANUFACTURING -----	947	8.57	MATERIAL HANDLING LABORERS: MANUFACTURING -----	784	5.04
PUBLIC UTILITIES -----	755	8.62	FORKLIFT OPERATORS -----	1,939	6.58
MAINTENANCE PIPEFITTERS -----	510	8.62	MANUFACTURING -----	1,316	6.23
MANUFACTURING -----	506	8.63	NONMANUFACTURING -----	623	7.33
MAINTENANCE SHEET-METAL WORKERS --- MANUFACTURING -----	83	7.77	POWER-TRUCK OPERATORS (OTHER THAN FORKLIFT) -----	469	7.32
	75	7.79	MANUFACTURING -----	208	7.03
MAINTENANCE TRADES HELPERS -----	294	6.02	GUARDS AND WATCHMEN -----	2,099	4.79
MANUFACTURING -----	189	5.94	MANUFACTURING -----	868	6.04
TOOL AND DIE MAKERS -----	1,056	8.06	NONMANUFACTURING -----	1,231	3.91
MANUFACTURING -----	1,055	8.06	MOTION PICTURES -----	70	6.23
STATIONARY ENGINEERS -----	466	8.01	GUARDS: MANUFACTURING -----	823	6.02
MANUFACTURING -----	278	8.11	JANITORS, PORTERS, AND CLEANERS: MANUFACTURING -----	1,934	5.62
NONMANUFACTURING -----	188	7.86	NONMANUFACTURING: RETAIL TRADE -----	1,058	4.12
<b>MATERIAL MOVEMENT AND CUSTODIAL OCCUPATIONS - MEN</b>			MOTION PICTURES -----	59	5.69
TRUCKDRIVERS -----	4,707	7.65	<b>MATERIAL MOVEMENT AND CUSTODIAL OCCUPATIONS - WOMEN</b>		
MANUFACTURING -----	2,194	7.11	WAREHOUSEMEN -----	191	5.66
NONMANUFACTURING: RETAIL TRADE -----	1,048	8.17	JANITORS, PORTERS, AND CLEANERS: MANUFACTURING -----	273	5.42
TRUCKDRIVERS, MEDIUM TRUCK -----	537	7.39			
MANUFACTURING -----	213	6.73			
NONMANUFACTURING -----	324	7.83			
PUBLIC UTILITIES -----	151	8.22			

See footnotes at end of tables.

## Footnotes

<sup>1</sup> 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.

<sup>2</sup> 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.

<sup>3</sup> Earnings data relate only to workers whose sex identification was provided by the establishment.

<sup>4</sup> Excludes premium pay for overtime and for work on weekends, holidays, and late shifts.

<sup>5</sup> 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.

<sup>6</sup> 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.

<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.

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

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

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

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

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

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

#### Wage trends for selected occupational groups

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

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

Occupations used to compute wage trends are:

#### Office clerical

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

#### Office clerical—Continued

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

#### Electronic data processing

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

#### Skilled maintenance

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

#### Industrial nurses

Registered industrial nurses

#### Unskilled plant

Janitors, porters, and cleaners  
Material handling laborers

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

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

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

#### Establishment practices and supplementary wage provisions

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

**Appendix table 1. Establishments and workers within scope of survey and number studied in Los Angeles—Long Beach, Calif.,<sup>1</sup> October 1977**

Industry division <sup>2</sup>	Minimum employment in establishments in scope of study	Number of establishments		Workers in establishments		
		Within scope of study <sup>3</sup>	Studied	Within scope of study <sup>4</sup>		Studied
				Number	Percent	
<b>ALL ESTABLISHMENTS</b>						
ALL DIVISIONS -----	-	4,162	430	1,376,278	100	553,031
MANUFACTURING -----	100	1,430	134	593,197	43	196,356
NONMANUFACTURING -----	-	2,732	296	783,081	57	356,675
TRANSPORTATION, COMMUNICATION, AND OTHER PUBLIC UTILITIES <sup>5</sup> -----	100	162	41	133,650	10	113,645
WHOLESALE TRADE -----	50	780	61	110,852	8	20,313
RETAIL TRADE -----	100	397	44	220,611	16	83,833
FINANCE, INSURANCE, AND REAL ESTATE <sup>6</sup> -----	50	462	47	138,049	10	65,840
SERVICES (EXCLUDING MOTION PICTURES) <sup>7</sup> -----	50	834	81	149,238	11	50,528
TELEVISION AND MOTION PICTURES <sup>8</sup> -----	50	77	22	30,681	2	22,516
<b>LARGE ESTABLISHMENTS</b>						
ALL DIVISIONS -----	-	434	161	745,006	100	499,926
MANUFACTURING -----	500	227	72	314,134	42	179,263
NONMANUFACTURING -----	-	207	109	430,872	58	320,663
TRANSPORTATION, COMMUNICATION, AND OTHER PUBLIC UTILITIES <sup>5</sup> -----	500	26	23	111,486	15	109,493
WHOLESALE TRADE -----	500	21	11	19,658	3	12,224
RETAIL TRADE -----	500	79	26	153,278	21	79,620
FINANCE, INSURANCE, AND REAL ESTATE <sup>6</sup> -----	500	38	17	76,450	10	60,149
SERVICES (EXCLUDING MOTION PICTURES) <sup>7</sup> -----	500	32	21	49,626	7	38,803
TELEVISION AND MOTION PICTURES <sup>8</sup> -----	500	11	11	20,374	3	20,374

<sup>1</sup> The Los Angeles—Long Beach Standard Metropolitan Statistical Area, as defined by the Office of Management and Budget through February 1974, consists of Los Angeles County. 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.

<sup>2</sup> 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.

<sup>3</sup> 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.

<sup>4</sup> 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. Electric utilities and most of the local transit for the city of Los Angeles are municipally operated and are excluded by definition from the scope of the study.

<sup>6</sup> Abbreviated to "finance" in the A-series tables.

<sup>7</sup> 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.

<sup>8</sup> Motion picture production, tape production for television, and allied 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.

### SECRETARY—Continued

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

#### 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;

Exclusions—Continued

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

Class A

1. Secretary to the chairman of the board or president of a company that employs, in all, over 100 but fewer than 5,000 persons; or

2. Secretary to a corporate officer (other than the chairman of the board or president) of a company that employs, in all, over 5,000 but fewer than 25,000 persons; or

3. Secretary to the head, immediately below the corporate officer level, of a major segment or subsidiary of a company that employs, in all, over 25,000 persons.

Class B

1. Secretary to the chairman of the board or president of a company that employs, in all, fewer than 100 persons; or

2. Secretary to a corporate officer (other than the chairman of the board or president) of a company that employs, in all, over 100 but fewer than 5,000 persons; or

3. Secretary to the head, immediately below the officer level, over either a major corporationwide functional activity (e.g., marketing, research, operations, industrial relations, etc.) or a major geographic or organizational segment (e.g., a regional headquarters; a major division) of a company that employs, in all, over 5,000 but fewer than 25,000 employees; or

4. Secretary to the head of an individual plant, factory, etc. (or other equivalent level of official) that employs, in all, over 5,000 persons; or

5. Secretary to the head of a large and important organizational segment (e.g., a middle management supervisor of an organizational segment often involving as many as several hundred persons) or a company that employs, in all, over 25,000 persons.

Class C

1. Secretary to an executive or managerial person whose responsibility is not equivalent to one of the specific level situations in the definition for class B, but whose organizational unit normally numbers at least several dozen employees and is usually divided into organizational segments which are often, in turn, further subdivided. In some companies, this level includes a wide range of organizational echelons; in others, only one or two; or

2. Secretary to the head of an individual plant, factory, etc. (or other equivalent level of official) that employs, in all, fewer than 5,000 persons.

Class D

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

2. Secretary to a nonsupervisory staff specialist, professional employee, administrative officer, or assistant, skilled technician, or expert. (NOTE: Many companies assign stenographers, rather than secretaries as described above, to this level of supervisory or nonsupervisory worker.)

## STENOGRAPHER

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

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

Stenographer, General

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

Stenographer, Senior

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

OR

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

## TRANSCRIBING-MACHINE TYPIST

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

## TYPIST

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

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

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

## FILE CLERK

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

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

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

Class C. Performs routine filing of material that has already been classified or which is easily classified in a simple serial classification system (e.g., alphabetical, chronological, or numerical). As requested, locates readily available material in files and forwards materials; 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 customers' orders for material or merchandise by mail, phone, or personally. Duties involve any combination of the following: Quoting prices to customers; making out an order sheet listing the items to make up the order; checking prices and quantities of items on order sheet; and distributing order sheets to respective departments to be filled. May check with credit department to determine credit rating of customer, acknowledge receipt of orders from customers, follow up orders to see that they have been filled, keep file of orders received, and check shipping invoices with original orders.

## ACCOUNTING CLERK

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

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

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

**Class A.** Under general supervision, performs accounting clerical operations which require the application of experience and judgment, for example, clerically processing complicated or nonrepetitive accounting transactions, selecting among a substantial variety of prescribed accounting codes and classifications, or tracing transactions through previous accounting actions to determine source of discrepancies. May be assisted by one or more class B accounting clerks.

**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

Computes wages of company employees and enters the necessary data on the payroll sheets. Duties involve: Calculating workers' earnings based on time or production records; and posting calculated data on payroll sheet, showing information such as worker's name, working days, time, rate, deductions for insurance, and total wages due. May make out paychecks and assist paymaster in making up and distributing pay envelopes. May use a calculating machine.

#### KEYPUNCH OPERATOR

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

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

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

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

#### TABULATING-MACHINE OPERATOR

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

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

**Class A.** Performs complete reporting and tabulating assignments including devising difficult control panel wiring under general supervision. Assignments typically involve a variety of long and complex reports which often are irregular or nonrecurring, requiring some planning of the nature and sequencing of operations, and the use of a variety of machines. Is

typically involved in training new operators in machine operations or training lower level operators in wiring from diagrams and in the operating sequences of long and complex reports. Does not include positions in which wiring responsibility is limited to selection and insertion of prewired boards.

Class B. Performs work according to established procedures and under specific instructions. Assignments typically involve complete but routine and recurring reports or parts of larger and more complex reports. Operates more difficult tabulating or electrical accounting machines such as

## 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,

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

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.

### COMPUTER SYSTEMS ANALYST, BUSINESS—Continued

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

OR

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

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

### COMPUTER PROGRAMMER, BUSINESS

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



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

For wage study purposes, programmers are classified as follows:

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

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

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

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

OR

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

May guide or instruct lower level programmers.

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

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.

## DRAFTER—Continued

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.

## ELECTRONICS TECHNICIAN—Continued

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).

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

## Maintenance, Toolroom, and Powerplant

### MAINTENANCE CARPENTER

Performs the carpentry duties necessary to construct and maintain in good repair building woodwork and equipment such as bins, cribs, counters, benches, partitions, doors, floors, stairs, casings, and trim made of wood in an establishment. Work involves most of the following: Planning and laying out of work from blueprints, drawings, models, or verbal instructions; using a variety of carpenter's handtools, portable power tools, and standard measuring instruments; making standard shop computations relating to dimensions of work; and selecting materials necessary for the work. In general, the work of the maintenance carpenter requires rounded training and experience usually acquired through a formal apprenticeship or equivalent training and experience.

### MAINTENANCE ELECTRICIAN

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

### MAINTENANCE PAINTER

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

## REGISTERED INDUSTRIAL NURSE—Continued

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 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 Vehicles)

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.

## MAINTENANCE MECHANIC (Motor Vehicles)—Continued

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

## MAINTENANCE TRADES HELPER—Continued

the helper is permitted to perform varies from trade to trade: In some trades the helper is confined to supplying, lifting, and holding materials and tools, and cleaning working areas; and in others he is permitted to perform specialized machine operations, or parts of a trade that are also performed by workers on a full-time basis.

### MACHINE-TOOL OPERATOR (TOOLROOM)

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

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

### TOOL AND DIE MAKER

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

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

## STATIONARY ENGINEER

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

## 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.)

- Truckdriver, light truck (under 1½ tons)
- Truckdriver, medium truck (1½ to and including 4 tons)
- Truckdriver, heavy truck (trailer) (over 4 tons)
- Truckdriver, heavy truck (other than trailer) (over 4 tons)

### SHIPPING AND RECEIVING CLERK

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

## STATIONARY ENGINEER—Continued

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.

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

#### MATERIAL HANDLING LABORER

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

#### POWER-TRUCK OPERATOR

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

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

- Forklift operator
- Power-truck operator (other than forklift)

#### GUARD AND WATCHMAN

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

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

#### JANITOR, PORTER, OR CLEANER

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

# Area Wage Surveys

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

Area	Bulletin number and price*
Akron, Ohio, Dec. 1976 <sup>1</sup>	1900-76, 85 cents
Albany-Schenectady-Troy, N.Y., Sept. 1977	1950-52, 80 cents
Anaheim-Santa Ana-Garden Grove, Calif., Oct. 1977	1950-60, \$1.00
Atlanta, Ga., May 1977	1950-17, \$1.20
Baltimore, Md., Aug. 1977	1950-39, \$1.20
Billings, Mont., July 1977 <sup>1</sup>	1950-40, \$1.00
Birmingham, Ala., Mar. 1977	1950-8, 85 cents
Boston, Mass., Aug. 1977	1950-50, \$1.20
Buffalo, N.Y., Oct. 1977	1950-58, \$1.00
Canton, Ohio, May 1977 <sup>1</sup>	1950-28, \$1.10
Chattanooga, Tenn.-Ga., Sept. 1977	1950-44, 70 cents
Chicago, Ill., May 1977 <sup>1</sup>	1950-41, \$1.40
Cincinnati, Ohio-Ky.-Ind., July 1977 <sup>1</sup>	1950-45, \$1.20
Cleveland, Ohio, Sept. 1977 <sup>1</sup>	1950-53, \$1.40
Columbus, Ohio, Oct. 1976	1900-68, 75 cents
Corpus Christi, Tex., July 1977 <sup>1</sup>	1950-35, \$1.00
Dallas-Fort Worth, Tex., Oct. 1976	1900-63, 85 cents
Davenport-Rock Island-Moline, Iowa-Ill., May 1977 <sup>1</sup>	1950-26, \$1.10
Dayton, Ohio, Dec. 1976	1900-78, 85 cents
Daytona Beach, Fla., Aug. 1977 <sup>1</sup>	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 <sup>1</sup>	1950-46, \$1.00
Green Bay, Wis., July 1977	1950-36, 70 cents
Greensboro-Winston-Salem-High Point, N.C., Aug. 1977 <sup>1</sup>	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 <sup>1</sup>	1950-48, \$1.40
Huntsville, Ala., Feb. 1977 <sup>1</sup>	1950-4, \$1.40
Indianapolis, Ind., Oct. 1977	1950-56, \$1.00
Jackson, Miss., Jan. 1977 <sup>1</sup>	1950-2, \$1.50
Jacksonville, Fla., Dec. 1976 <sup>1</sup>	1900-80, 85 cents
Kansas City, Mo.-Kans., Sept. 1977	1950-54, \$1.00
Los Angeles-Long Beach, Calif., Oct. 1977	1950-61, \$1.20
Louisville, Ky.-Ind., Nov. 1976	1900-69, 55 cents
Memphis, Tenn.-Ark.-Miss., Nov. 1976 <sup>1</sup>	1900-75, 85 cents

Area	Bulletin number and price*
Miami, Fla., Oct. 1977	1950-57, \$1.00
Milwaukee, Wis., Apr. 1977	1950-14, \$1.10
Minneapolis-St. Paul, Minn.-Wis., Jan. 1977	1950-3, \$1.60
Nassau-Suffolk, N.Y., June 1977	1950-27, \$1.00
Newark, N.J., Jan. 1977	1950-7, \$1.60
New Orleans, La., Jan. 1977 <sup>1</sup>	1950-5, \$1.60
New York, N.Y.-N.J., May 1977	1950-31, \$1.20
Norfolk-Virginia Beach-Portsmouth, Va.-N.C., May 1977	1950-20, 70 cents
Norfolk-Virginia Beach-Portsmouth and Newport News-Hampton, Va.-N.C., May 1977	1950-21, 70 cents
Northeast Pennsylvania, Aug. 1977 <sup>1</sup>	1950-38, \$1.10
Oklahoma City, Okla., Aug. 1977 <sup>1</sup>	1950-49, \$1.10
Omaha, Nebr.-Iowa, Oct. 1977 <sup>1</sup>	1950-55, \$1.10
Paterson-Clifton-Passaic, N.J., June 1977	1950-34, 70 cents
Philadelphia, Pa.-N.J., Nov. 1976 <sup>1</sup>	1900-64, \$1.10
Pittsburgh, Pa., Jan. 1977	1950-1, \$1.50
Portland, Maine, Dec. 1976 <sup>1</sup>	1900-72, 85 cents
Portland, Oreg.-Wash., May 1977 <sup>1</sup>	1950-32, \$1.20
Poughkeepsie, N.Y., June 1977	1950-25, 70 cents
Poughkeepsie-Kingston-Newburgh, N.Y., June 1976	1900-55, 55 cents
Providence-Warwick-Pawtucket, R.I.-Mass., June 1977 <sup>1</sup>	1950-22, \$1.20
Richmond, Va., June 1977 <sup>1</sup>	1950-23, \$1.10
St. Louis, Mo.-Ill., Mar. 1977	1950-10, \$1.20
Sacramento, Calif., Dec. 1976	1900-71, 55 cents
Saginaw, Mich., Nov. 1977	1950-59, 70 cents
Salt Lake City-Ogden, Utah, Nov. 1976	1900-65, 55 cents
San Antonio, Tex., May 1977 <sup>1</sup>	1950-24, \$1.10
San Diego, Calif., Nov. 1976	1900-79, 55 cents
San Francisco-Oakland, Calif., Mar. 1977	1950-29, \$1.20
San Jose, Calif., Mar. 1977	1950-19, \$1.00
Seattle-Everett, Wash., Jan. 1977 <sup>1</sup>	1950-12, \$1.20
South Bend, Ind., Aug. 1977 <sup>1</sup>	1950-51, \$1.10
Syracuse, N.Y., July 1976	1900-44, 55 cents
Toledo, Ohio-Mich., May 1977	1950-18, 80 cents
Trenton, N.J., Sept. 1977	1950-47, 70 cents
Utica-Rome, N.Y., July 1977 <sup>1</sup>	1950-37, \$1.10
Washington, D.C.-Md.-Va., Mar. 1977	1950-11, \$1.20
Wichita, Kans., Apr. 1977 <sup>1</sup>	1950-16, \$1.10
Worcester, Mass., Apr. 1977	1950-15, 70 cents
York, Pa., Feb. 1977	1950-6, \$1.10

\* Prices are determined by the Government Printing Office and are subject to change.  
<sup>1</sup> Data on establishment practices and supplementary wage provisions are also presented.

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Bureau of Labor Statistics  
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