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Area Wage Survey

Los Angeles-Long Beach, California, Metropolitan Area October 1979

U.S. Department of Labor
Bureau of Labor Statistics

Bulletin 2050-59

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Preface

This bulletin provides results of an October 1979 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 Susan Holland, 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 area are reports on occupational earnings and supplementary benefits for the machinery manufacturing (January 1978), computer and data processing services (March 1978), men's shirts and separate trousers (May 1978), hospitals (May 1978), hotels and motels (May 1978), auto dealer repair shops (June 1978), and nursing and personal care facilities (June 1978). A report on occupational earnings alone is available for the refuse hauling industry (October 1979). Listings of union wage rates for both the cities of Los Angeles and Long Beach are available for building trades, printing trades, local-transit operating employees, local truckdrivers and helpers, and grocery store employees. Also available is a report on occupational earnings and supplementary benefits for municipal government employees of the city of Los Angeles. 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 1979



U.S. Department of Labor
Ray Marshall, Secretary
Bureau of Labor Statistics
Janet L. Norwood, Commissioner

April 1980

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Introduction

This area is 1 of 72 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, earnings data for selected occupations (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. The occupations are defined in Appendix B. For the 31 largest survey areas, tables A-10 through A-15 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.

Tables A-8 and A-9 provide for the first time measures of average pay relationships within establishments. These measures may differ considerably from the pay relationships of overall averages published in tables A-1 through A-6. See appendix A for details.

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 representatives to classify workers by occupation.

Earnings: All establishments

Table A-1. Weekly earnings of office workers, Los Angeles—Long Beach, Calif., October 1979

Occupation and industry division	Number of workers	Average weekly hours ¹ (standard)	Weekly earnings ¹ (standard)			NUMBER OF WORKERS RECEIVING STRAIGHT-TIME WEEKLY EARNINGS (IN DOLLARS) OF--																				
			Mean ²	Median ²	Middle range ²	110 AND UNDER																				
						120	140	160	180	200	220	240	260	280	300	320	340	360	380	400	420	440	460	480	500	
SECRETARIES.....	22,324	39.5	\$267.00	\$258.00	\$219.00-\$308.00	-	-	182	651	1869	2973	2598	3033	2549	2283	1580	1533	1469	862	291	207	171	53	17	2	1
MANUFACTURING.....	8,365	39.5	276.50	275.00	235.00-314.50	-	-	2	94	407	894	928	1066	1113	1154	824	755	611	288	99	55	54	13	7	-	1
NONMANUFACTURING.....	13,959	39.5	261.00	250.00	213.00-300.00	-	-	180	557	1462	2079	1670	1967	1436	1129	756	778	858	574	192	152	117	40	10	2	-
PUBLIC UTILITIES.....	1,894	39.5	294.50	293.50	247.00-332.00	-	-	-	1	40	130	155	147	159	149	274	127	139	59	64	48	27	3	-	2	-
SECRETARIES, CLASS A.....	923	39.5	324.50	315.00	287.50-352.00	-	-	-	-	17	5	30	81	199	157	86	125	85	22	31	43	17	2	2	2	1
MANUFACTURING.....	446	40.0	329.50	329.00	287.50-363.00	-	-	-	-	13	-	1	26	115	56	46	66	59	12	20	18	11	2	-	1	
NONMANUFACTURING.....	457	39.0	320.00	311.50	284.50-350.00	-	-	-	-	4	5	29	55	84	101	40	59	26	10	11	25	6	-	2	-	
PUBLIC UTILITIES.....	119	38.5	339.00	331.00	303.00-393.50	-	-	-	-	2	2	10	6	8	29	7	13	8	7	4	18	3	-	2	-	
SECRETARIES, CLASS B.....	3,564	39.5	297.50	290.50	260.00-330.00	-	-	-	35	191	304	352	534	627	417	353	291	187	110	70	70	12	15	-	-	
MANUFACTURING.....	1,815	40.0	306.00	306.00	277.50-338.00	-	-	-	17	100	98	74	207	311	326	241	186	146	47	31	24	2	5	-	-	
NONMANUFACTURING.....	1,753	39.0	289.00	276.00	250.00-316.00	-	-	-	18	91	206	278	327	316	91	112	105	41	63	39	46	10	10	-	-	
PUBLIC UTILITIES.....	351	39.0	300.00	289.00	252.50-343.50	-	-	-	1	9	37	61	46	49	23	20	23	23	28	17	5	-	-	-	-	
SECRETARIES, CLASS C.....	7,198	39.5	265.50	260.00	228.00-294.50	-	-	1	146	467	952	826	1152	1100	921	446	431	441	83	124	63	34	11	-	-	
MANUFACTURING.....	3,616	39.5	273.50	270.00	238.50-310.00	-	-	-	40	129	475	354	461	570	541	283	325	326	65	31	4	12	-	-	-	
NONMANUFACTURING.....	3,582	39.5	257.50	252.00	218.50-281.50	-	-	1	106	338	477	472	691	500	380	163	106	115	18	93	59	22	11	-	-	
PUBLIC UTILITIES.....	460	40.0	299.00	293.50	249.50-348.50	-	-	-	-	7	18	67	49	55	49	50	36	73	12	25	17	2	-	-	-	
SECRETARIES, CLASS D.....	6,248	39.5	250.50	242.00	213.00-276.00	-	-	29	213	524	1155	1018	1230	627	320	341	413	253	87	23	11	4	-	-	-	
MANUFACTURING.....	1,842	39.5	257.50	252.50	228.00-282.00	-	-	-	20	79	203	361	421	271	168	146	127	19	18	9	-	-	-	-	-	
NONMANUFACTURING.....	4,406	39.5	247.50	238.00	207.00-270.50	-	-	29	193	445	952	657	809	356	152	195	286	234	69	14	11	4	-	-	-	
PUBLIC UTILITIES.....	430	39.0	269.50	265.50	216.00-318.50	-	-	-	-	28	98	49	23	48	13	118	39	-	2	2	8	2	-	-	-	
SECRETARIES, CLASS E.....	2,841	39.5	216.00	205.00	185.00-231.50	-	-	152	285	820	605	411	208	46	75	101	84	30	17	2	3	-	-	-	-	
MANUFACTURING.....	646	38.5	224.00	220.00	195.50-247.00	-	-	2	34	182	103	115	109	39	19	13	16	14	-	-	-	-	-	-	-	
NONMANUFACTURING.....	2,195	39.5	212.50	203.00	184.00-224.50	-	-	150	251	638	502	296	99	7	56	88	70	16	17	2	3	-	-	-	-	
PUBLIC UTILITIES.....	134	40.0	304.50	310.50	293.50-325.50	-	-	-	1	4	3	-	4	4	30	54	16	-	14	2	2	-	-	-	-	
STENOGRAPHERS.....	1,234	39.5	255.50	256.50	209.00-294.00	-	-	1	12	86	89	192	157	101	158	143	143	119	16	3	-	14	-	-	-	
MANUFACTURING.....	583	40.0	271.50	277.00	230.00-311.00	-	-	-	-	3	16	104	48	63	67	72	121	86	-	3	-	-	-	-	-	
NONMANUFACTURING.....	651	39.0	241.50	233.00	196.00-277.50	-	-	1	12	83	73	88	109	38	91	71	22	33	16	-	-	14	-	-	-	
PUBLIC UTILITIES.....	251	39.5	274.50	277.50	236.50-310.50	-	-	-	-	6	1	14	47	24	37	57	8	27	16	-	-	14	-	-	-	
STENOGRAPHERS, SENIOR.....	694	39.5	267.50	275.50	222.50-312.00	-	-	-	43	63	60	72	54	109	72	101	103	-	3	-	14	-	-	-	-	
MANUFACTURING.....	401	40.0	287.50	290.50	260.50-315.00	-	-	-	-	12	26	20	42	58	69	87	84	-	3	-	16	-	-	-	-	
NONMANUFACTURING.....	293	39.0	240.00	228.00	189.00-276.00	-	-	-	-	43	51	34	52	12	51	3	14	19	-	-	14	-	-	-	-	
STENOGRAPHERS, GENERAL.....	540	39.5	240.50	233.00	202.00-284.00	-	-	1	12	43	26	132	85	47	49	71	42	16	16	-	-	-	-	-	-	
MANUFACTURING.....	182	39.5	237.00	222.50	200.50-271.50	-	-	-	3	4	78	28	21	9	3	34	2	-	-	-	-	-	-	-	-	
NONMANUFACTURING.....	358	39.5	242.50	236.50	207.00-287.50	-	-	1	12	40	22	54	57	26	40	68	8	14	16	-	-	-	-	-	-	
PUBLIC UTILITIES.....	213	39.5	267.00	266.50	234.00-293.50	-	-	-	-	6	1	14	47	24	37	54	-	14	16	-	-	-	-	-	-	
TRANSCRIBING-MACHINE TYPISTS.....	711	38.5	203.50	200.00	178.50-220.00	-	-	-	51	165	110	200	92	50	19	6	6	12	-	-	-	-	-	-	-	
NONMANUFACTURING.....	640	38.0	198.50	197.50	178.50-212.00	-	-	-	51	165	110	187	68	44	3	-	-	12	-	-	-	-	-	-	-	
TYPISTS.....	3,533	39.5	195.00	180.00	162.00-212.00	-	-	172	534	974	713	427	233	102	82	100	122	68	4	1	-	1	-	-	-	
MANUFACTURING.....	1,348	40.0	219.50	205.00	184.00-243.00	-	-	-	84	183	357	167	206	90	44	68	89	58	-	1	-	1	-	-	-	
NONMANUFACTURING.....	2,185	39.0	179.50	172.00	159.00-194.00	-	-	172	450	791	356	260	27	12	38	32	33	10	4	-	-	-	-	-	-	
PUBLIC UTILITIES.....	76	40.0	206.00	201.00	179.00-209.50	-	-	-	3	17	6	35	2	2	6	5	-	-	-	-	-	-	-	-	-	

See footnotes at end of tables.

Table A-1. Weekly earnings of office workers, Los Angeles—Long Beach, Calif., October 1979—Continued

Occupation and industry division	Number of workers	Average weekly hours ¹ (standard)	Weekly earnings ¹ (standard)			NUMBER OF WORKERS RECEIVING STRAIGHT-TIME WEEKLY EARNINGS (IN DOLLARS) OF--																					
			Mean ²	Median ²	Middle range ²	110 AND UNDER	120	140	160	180	200	220	240	260	280	300	320	340	360	380	400	420	440	460	480	500	
							120	140	160	180	200	220	240	260	280	300	320	340	360	380	400	420	440	460	480	500	520
TYPISTS--CONTINUED																											
TYPISTS, CLASS A.....	1,166	39.0	\$215.50	\$202.00	\$180.00-\$235.00	-	14	61	207	271	242	100	69	42	25	63	66	4	1	-	1	-	-	-	-	-	
MANUFACTURING.....	466	39.5	242.00	235.00	197.00- 274.00	-	-	-	16	110	72	75	58	29	18	30	56	-	1	-	1	-	-	-	-	-	
NONMANUFACTURING.....	700	39.0	198.00	188.00	170.50- 214.00	-	14	61	191	161	170	25	11	13	7	33	10	4	-	-	-	-	-	-	-	-	
TYPISTS, CLASS B.....	2,322	39.5	183.00	173.00	159.50- 199.50	-	158	473	767	442	185	133	33	20	50	59	2	-	-	-	-	-	-	-	-	-	
MANUFACTURING.....	882	40.0	208.00	198.00	176.00- 230.00	-	-	84	167	247	95	131	32	15	50	59	2	-	-	-	-	-	-	-	-	-	
NONMANUFACTURING.....	1,440	39.0	167.50	165.00	153.00- 178.50	-	158	389	600	195	90	2	1	5	-	-	-	-	-	-	-	-	-	-	-	-	
PUBLIC UTILITIES.....	56	40.0	198.00	201.00	177.50- 204.50	-	-	3	17	1	28	1	1	5	-	-	-	-	-	-	-	-	-	-	-	-	
FILE CLERKS.....	2,620	39.0	174.50	151.00	138.00- 187.00	144	644	735	374	181	127	49	81	54	47	45	31	48	14	42	4	-	-	-	-	-	
MANUFACTURING.....	386	39.5	211.50	208.00	173.00- 245.00	-	42	17	59	63	29	35	74	17	30	14	4	2	-	-	-	-	-	-	-	-	
NONMANUFACTURING.....	2,234	38.5	168.00	149.50	129.00- 172.00	144	602	710	315	118	98	14	7	37	17	31	27	46	14	42	4	-	-	-	-	-	
PUBLIC UTILITIES.....	188	40.0	271.00	293.50	160.00- 377.50	-	5	41	16	16	3	-	3	3	9	11	16	5	14	42	4	-	-	-	-	-	
FILE CLERKS, CLASS A.....	330	39.0	225.50	204.00	192.00- 221.00	-	-	32	31	92	91	14	-	-	-	14	4	46	2	-	4	-	-	-	-	-	
NONMANUFACTURING.....	315	39.0	221.50	203.00	192.00- 217.00	-	-	32	31	92	89	14	-	-	-	7	-	44	2	-	4	-	-	-	-	-	
FILE CLERKS, CLASS B.....	941	39.0	183.00	163.00	149.50- 184.00	-	80	332	272	51	13	12	75	17	33	15	27	2	12	-	-	-	-	-	-	-	
MANUFACTURING.....	761	38.5	174.00	159.00	149.50- 172.00	-	51	332	272	25	7	-	1	-	17	15	27	2	12	-	-	-	-	-	-	-	
PUBLIC UTILITIES.....	82	40.0	250.00	209.00	171.50- 335.50	-	-	15	10	15	2	-	1	-	9	-	16	2	12	-	-	-	-	-	-	-	
FILE CLERKS, CLASS C.....	1,349	39.0	156.00	140.00	124.50- 155.50	144	564	371	71	38	23	23	6	37	14	16	-	-	-	42	-	-	-	-	-	-	
MANUFACTURING.....	191	39.5	195.50	180.00	170.50- 212.00	-	13	17	59	37	21	23	-	-	14	7	-	-	-	-	-	-	-	-	-	-	
NONMANUFACTURING.....	1,158	38.5	149.50	132.50	124.00- 143.50	144	551	354	12	1	2	-	6	37	-	9	-	-	-	42	-	-	-	-	-	-	
PUBLIC UTILITIES.....	95	40.0	278.00	316.00	154.00- 387.50	-	5	26	6	1	1	-	2	3	-	9	-	-	-	42	-	-	-	-	-	-	
MESSENGERS.....	1,017	39.0	176.00	161.50	143.00- 202.50	28	120	348	119	139	84	103	49	10	1	16	-	-	-	-	-	-	-	-	-	-	
MANUFACTURING.....	325	39.0	171.00	150.50	142.00- 199.00	-	52	136	21	36	34	13	24	8	1	-	-	-	-	-	-	-	-	-	-	-	
NONMANUFACTURING.....	692	39.0	178.00	167.00	145.00- 203.50	28	68	212	98	103	50	90	25	2	-	16	-	-	-	-	-	-	-	-	-	-	
PUBLIC UTILITIES.....	56	39.0	217.00	180.50	170.00- 308.50	-	2	4	20	7	1	1	3	2	-	16	-	-	-	-	-	-	-	-	-	-	
SWITCHBOARD OPERATORS.....	1,999	38.5	199.00	179.00	157.00- 230.00	5	251	263	492	238	144	135	100	82	83	83	102	-	1	-	-	-	-	-	-	-	
MANUFACTURING.....	320	39.5	233.50	239.00	195.00- 267.50	-	-	8	52	27	46	36	45	67	18	3	17	-	1	-	-	-	-	-	-	-	
NONMANUFACTURING.....	1,679	38.5	192.00	171.50	154.00- 216.00	5	251	275	440	211	98	99	55	15	65	80	85	-	-	-	-	-	-	-	-	-	
PUBLIC UTILITIES.....	77	38.5	258.00	280.00	219.00- 316.50	-	-	-	7	6	8	11	1	4	19	21	-	-	-	-	-	-	-	-	-	-	
SWITCHBOARD OPERATOR-RECEPTIONISTS.....	2,134	39.5	190.00	173.00	160.00- 207.00	-	69	330	795	317	320	100	13	17	78	8	38	2	-	15	32	-	-	-	-	-	
MANUFACTURING.....	894	40.0	188.00	180.00	162.00- 205.50	-	-	74	373	213	153	22	11	15	26	-	3	2	-	6	-	-	-	-	-	-	
NONMANUFACTURING.....	1,236	39.0	192.00	172.50	159.50- 207.00	-	69	256	422	104	167	78	2	2	52	8	35	-	-	9	32	-	-	-	-	-	
PUBLIC UTILITIES.....	110	39.5	285.50	291.00	161.50- 408.00	-	-	-	33	3	8	1	1	1	20	2	-	-	-	9	32	-	-	-	-	-	
ORDER CLERKS.....	3,574	40.0	214.50	200.00	184.00- 242.50	12	40	77	537	1093	639	268	291	139	267	98	60	-	62	-	-	-	-	-	-	-	
MANUFACTURING.....	1,509	40.0	200.50	190.00	175.00- 210.00	-	-	12	436	506	243	71	53	85	77	6	20	-	-	-	-	-	-	-	-	-	
NONMANUFACTURING.....	2,065	40.0	225.00	207.00	190.00- 253.00	12	40	65	101	587	396	197	238	45	190	92	40	-	62	-	-	-	-	-	-	-	

See footnotes at end of tables.

Table A-1. Weekly earnings of office workers, Los Angeles—Long Beach, Calif., October 1979—Continued

Occupation and industry division	Number of workers	Average weekly hours ¹ (standard)	Weekly earnings ¹ (standard)			NUMBER OF WORKERS RECEIVING STRAIGHT-TIME WEEKLY EARNINGS (IN DOLLARS) OF--																									
			Mean ²	Median ²	Middle range ²	110 AND UNDER 120	120	140	160	180	200	220	240	260	280	300	320	340	360	380	400	420	440	460	480	500					
							140	160	180	200	220	240	260	280	300	320	340	360	380	400	420	440	460	480	500	520					
ORDER CLERKS--CONTINUED																															
ORDER CLERKS, CLASS A.....	1,072	40.0	\$231.50	\$210.00	\$188.00-\$276.00	-	-	-	125	244	202	101	66	199	67	98	60	-	-	-	-	-	-	-	-	-	-				
MANUFACTURING.....	621	40.0	211.50	200.00	184.00- 231.00	-	-	-	125	166	163	23	24	67	27	6	20	-	-	-	-	-	-	-	-	-	-				
ORDER CLERKS, CLASS B.....	2,502	40.0	207.50	196.00	184.00- 225.00	12	40	77	412	849	437	167	225	21	200	-	-	-	62	-	-	-	-	-	-	-	-				
MANUFACTURING.....	888	40.0	193.00	184.00	170.00- 200.50	-	-	12	311	340	80	48	29	18	50	-	-	-	-	-	-	-	-	-	-	-	-				
NONMANUFACTURING.....	1,614	40.0	215.50	200.00	190.00- 244.00	12	40	65	101	509	357	119	196	3	150	-	-	-	62	-	-	-	-	-	-	-	-				
ACCOUNTING CLERKS.....	12,218	39.5	219.50	207.00	179.50- 241.50	-	91	512	2466	2336	2097	1473	830	490	697	422	264	216	175	36	113	-	-	-	-	-	-				
MANUFACTURING.....	3,475	39.5	219.50	208.00	184.00- 240.00	-	-	68	552	716	678	579	286	111	219	102	72	53	8	22	9	-	-	-	-	-	-				
NONMANUFACTURING.....	8,743	39.5	219.50	207.00	178.50- 241.50	-	91	444	1914	1620	1419	894	544	379	478	320	192	163	167	14	104	-	-	-	-	-	-				
PUBLIC UTILITIES.....	843	40.0	265.50	265.50	216.50- 308.50	-	5	-	29	75	122	120	57	52	149	146	27	6	-	13	42	-	-	-	-	-	-				
ACCOUNTING CLERKS, CLASS A.....	5,536	39.5	233.50	223.00	195.50- 250.00	-	9	58	449	1056	1083	994	676	274	187	303	105	79	165	25	71	-	-	-	-	-	-				
MANUFACTURING.....	1,846	39.5	238.00	228.00	200.00- 257.00	-	-	-	49	274	416	438	234	66	120	93	72	51	8	16	9	-	-	-	-	-	-				
NONMANUFACTURING.....	3,690	39.5	231.00	218.50	190.00- 243.50	-	9	58	400	782	667	558	442	208	67	210	33	28	157	9	62	-	-	-	-	-	-				
PUBLIC UTILITIES.....	381	40.0	280.50	291.50	249.00- 317.00	-	-	-	-	29	13	40	52	40	26	146	21	6	-	8	-	-	-	-	-	-	-				
ACCOUNTING CLERKS, CLASS B.....	6,607	39.5	206.50	190.00	172.50- 221.00	-	82	454	2017	1280	1014	477	154	206	500	104	129	127	10	11	42	-	-	-	-	-	-				
MANUFACTURING.....	1,629	39.5	199.00	187.00	172.50- 212.00	-	-	68	503	442	262	141	52	45	99	9	-	2	-	6	-	-	-	-	-	-	-				
NONMANUFACTURING.....	4,978	39.5	209.50	192.00	169.00- 229.00	-	82	386	1514	838	752	336	102	161	401	95	129	125	10	5	42	-	-	-	-	-	-				
PUBLIC UTILITIES.....	462	40.0	253.00	225.00	209.00- 291.00	-	5	-	29	46	109	80	5	12	123	-	6	-	-	5	42	-	-	-	-	-	-				
MACHINE-BILLERS.....	305	40.0	288.00	283.50	195.50- 415.50	-	-	58	-	24	68	-	-	-	12	-	10	1	-	34	98	-	-	-	-	-	-				
BILLING-MACHINE BILLERS.....	304	40.0	288.00	283.50	195.50- 415.50	-	-	58	-	24	68	-	-	-	12	-	10	-	-	34	98	-	-	-	-	-	-				
PAYROLL CLERKS.....	1,951	39.5	238.00	219.50	195.50- 266.50	-	6	44	190	349	382	227	185	153	136	73	21	60	36	19	14	60	-	-	-	-	-				
MANUFACTURING.....	735	39.5	226.50	220.00	193.00- 255.00	-	-	25	73	98	170	161	44	64	47	25	3	21	4	-	-	-	-	-	-	-	-				
NONMANUFACTURING.....	1,216	39.5	245.00	218.50	195.50- 280.00	-	6	24	117	251	212	66	141	89	89	48	18	39	32	10	14	60	-	-	-	-	-				
PUBLIC UTILITIES.....	189	39.5	312.50	296.00	231.50- 423.50	-	-	-	10	17	15	8	15	5	26	15	11	3	-	-	4	60	-	-	-	-	-				
KEY ENTRY OPERATORS.....	7,093	39.5	219.50	210.00	184.00- 242.50	9	130	323	993	1231	1444	1036	491	239	651	248	171	84	25	4	14	-	-	-	-	-	-				
MANUFACTURING.....	1,897	39.5	230.00	215.00	200.00- 258.50	-	-	5	137	318	575	289	128	66	202	76	50	22	25	4	-	-	-	-	-	-	-				
NONMANUFACTURING.....	5,196	39.5	216.00	207.50	179.00- 240.50	9	130	318	856	913	869	747	363	173	449	172	121	62	-	-	14	-	-	-	-	-	-				
PUBLIC UTILITIES.....	632	40.0	255.50	240.50	225.00- 293.50	-	-	-	5	33	38	34	152	106	59	132	12	47	-	-	14	-	-	-	-	-	-				
KEY ENTRY OPERATORS, CLASS A.....	2,673	39.0	237.50	226.00	204.50- 264.50	-	-	-	168	392	618	524	251	116	255	153	89	84	19	4	-	-	-	-	-	-	-				
MANUFACTURING.....	964	39.5	243.50	224.50	207.00- 280.00	-	-	-	9	101	300	193	90	38	63	75	50	22	19	4	-	-	-	-	-	-	-				
NONMANUFACTURING.....	1,709	39.0	234.00	226.00	195.50- 264.50	-	-	-	159	291	318	331	161	78	192	78	39	62	-	-	-	-	-	-	-	-	-				
PUBLIC UTILITIES.....	104	39.5	243.00	230.00	214.00- 286.00	-	-	-	10	4	15	29	8	10	15	12	1	-	-	-	-	-	-	-	-	-	-				
KEY ENTRY OPERATORS, CLASS B.....	4,275	39.5	206.00	200.00	176.00- 228.00	9	130	323	825	839	826	512	240	93	331	50	77	-	6	-	14	-	-	-	-	-	-				
MANUFACTURING.....	933	39.5	216.00	208.00	188.00- 232.50	-	-	5	128	217	275	94	38	28	139	1	-	-	6	-	-	-	-	-	-	-	-				
NONMANUFACTURING.....	3,342	39.5	203.00	195.50	170.00- 226.00	9	130	318	697	622	551	416	202	65	192	49	77	-	-	-	14	-	-	-	-	-	-				
PUBLIC UTILITIES.....	528	40.0	258.00	240.50	228.00- 299.50	-	-	-	5	23	34	19	123	98	49	117	-	46	-	-	14	-	-	-	-	-	-				

See footnotes at end of tables.

Table A-2. Weekly earnings of professional and technical workers, Los Angeles—Long Beach, Calif., October 1979

Occupation and industry division	Number of workers	Average weekly hours ¹ (standard)	Weekly earnings ¹ (standard)			NUMBER OF WORKERS RECEIVING STRAIGHT-TIME WEEKLY EARNINGS (IN DOLLARS) OF--																					
			Mean ²	Median ²	Middle range ²	120	140	160	180	200	220	240	260	280	300	320	340	360	380	420	460	500	540	580	620	660	700
						AND UNDER 140	160	180	200	220	240	260	280	300	320	340	360	420	460	500	540	580	620	660	700	740	
COMPUTER SYSTEMS ANALYSTS (BUSINESS)	2,660	39.5	\$443.00	\$443.00	\$381.00-\$499.50	-	-	-	-	-	12	6	30	41	73	133	367	371	478	491	310	221	92	27	9	2	
MANUFACTURING.....	927	39.5	454.00	458.00	393.00-518.00	-	-	-	-	-	10	1	27	11	24	46	97	95	155	163	130	80	53	25	8	2	
NONMANUFACTURING.....	1,733	39.5	437.50	439.50	379.50-493.00	-	-	-	-	-	2	5	3	30	89	84	273	276	323	328	180	141	39	2	1	-	
PUBLIC UTILITIES.....	235	40.0	450.50	437.00	397.00-524.00	-	-	-	-	-	-	-	-	2	-	22	23	51	49	17	34	31	8	-	1	-	
COMPUTER SYSTEMS ANALYSTS (BUSINESS), CLASS A	1,314	39.5	487.00	476.00	442.50-530.00	-	-	-	-	-	-	-	-	-	1	5	37	138	337	335	189	182	82	27	9	2	
MANUFACTURING.....	451	39.5	516.50	513.00	465.00-563.50	-	-	-	-	-	-	-	-	-	-	-	9	10	74	106	89	75	53	25	8	2	
NONMANUFACTURING.....	863	39.5	471.00	460.00	437.00-506.00	-	-	-	-	-	-	-	-	-	1	5	28	98	263	229	100	137	29	2	1	-	
PUBLIC UTILITIES.....	101	40.0	517.00	525.00	466.00-553.50	-	-	-	-	-	-	-	-	-	-	-	-	-	25	8	37	27	8	-	1	-	
COMPUTER SYSTEMS ANALYSTS (BUSINESS), CLASS B	986	39.5	414.00	403.00	367.00-468.50	-	-	-	-	-	-	-	9	34	59	260	236	126	142	91	29	-	-	-	-		
MANUFACTURING.....	319	39.5	426.00	421.00	377.50-473.50	-	-	-	-	-	-	-	1	8	17	54	74	66	53	41	5	-	-	-	-		
NONMANUFACTURING.....	667	39.5	408.00	393.00	356.50-450.50	-	-	-	-	-	-	-	8	26	42	236	162	60	89	50	24	-	-	-	-		
PUBLIC UTILITIES.....	81	40.0	429.00	420.00	407.50-439.50	-	-	-	-	-	-	-	2	-	-	2	38	24	9	2	4	-	-	-	-		
COMPUTER SYSTEMS ANALYSTS (BUSINESS), CLASS C	294	39.5	329.50	329.50	296.00-361.00	-	-	-	-	12	6	30	32	38	66	70	27	9	4	-	-	-	-	-	-		
MANUFACTURING.....	151	39.5	328.00	325.00	272.50-365.00	-	-	-	-	10	1	27	10	16	29	34	11	9	4	-	-	-	-	-	-		
COMPUTER PROGRAMMERS (BUSINESS)	2,716	39.0	358.00	360.50	302.00-402.50	-	-	-	11	36	140	107	169	191	161	231	674	442	276	159	44	29	6	-	-	-	
MANUFACTURING.....	1,057	39.0	375.00	374.50	324.50-410.00	-	-	-	-	9	25	32	81	27	67	85	256	263	61	86	34	27	4	-	-	-	
NONMANUFACTURING.....	1,659	39.0	347.00	355.00	294.00-393.00	-	-	-	11	27	115	75	88	164	94	146	418	219	215	73	10	2	2	-	-	-	
PUBLIC UTILITIES.....	170	40.0	373.00	366.50	346.00-407.00	-	-	-	-	-	-	-	11	9	3	17	62	30	32	5	1	-	-	-	-	-	
COMPUTER PROGRAMMERS (BUSINESS), CLASS A	938	39.0	422.50	419.00	385.50-455.50	-	-	-	-	-	-	-	-	-	17	37	158	246	232	140	43	29	6	-	-	-	
MANUFACTURING.....	422	39.0	435.50	413.00	394.00-484.00	-	-	-	-	-	-	-	-	-	11	15	40	155	55	82	33	27	4	-	-	-	
NONMANUFACTURING.....	486	39.5	411.50	422.50	376.00-441.00	-	-	-	-	-	-	-	-	-	6	22	118	91	177	58	10	2	2	-	-	-	
COMPUTER PROGRAMMERS (BUSINESS), CLASS B	1,055	39.0	344.50	356.00	320.50-376.00	-	-	-	-	16	21	11	66	69	78	145	445	190	9	4	1	-	-	-	-	-	
MANUFACTURING.....	399	39.0	361.00	364.50	345.00-383.50	-	-	-	-	-	3	1	18	16	27	32	185	136	6	4	1	-	-	-	-	-	
NONMANUFACTURING.....	656	39.0	334.00	345.00	306.50-368.00	-	-	-	-	16	18	10	48	53	51	113	260	84	3	-	-	-	-	-	-	-	
PUBLIC UTILITIES.....	71	40.0	358.50	362.50	345.00-377.50	-	-	-	-	-	-	-	-	6	-	13	39	15	1	-	-	-	-	-	-	-	
COMPUTER PROGRAMMERS (BUSINESS), CLASS C	637	39.0	280.50	278.00	241.50-305.50	-	-	-	11	20	119	88	103	114	66	89	61	6	-	-	-	-	-	-	-	-	
MANUFACTURING.....	221	38.5	291.50	278.50	244.50-326.00	-	-	-	-	9	22	23	63	3	79	38	31	2	-	-	-	-	-	-	-	-	
NONMANUFACTURING.....	417	39.0	274.00	276.00	230.00-299.00	-	-	-	11	11	97	65	40	111	-	11	33	4	-	-	-	-	-	-	-	-	
COMPUTER OPERATORS	3,264	39.5	263.50	257.50	225.00-294.00	11	5	62	247	294	479	569	473	365	321	136	235	62	5	2	-	-	-	-	-	-	
MANUFACTURING.....	1,167	39.5	271.50	258.50	234.00-302.00	-	-	12	50	153	104	265	154	82	138	43	113	46	5	2	-	-	-	-	-	-	
NONMANUFACTURING.....	2,099	39.5	259.00	254.50	224.50-292.00	11	5	50	197	141	375	304	319	283	183	93	122	16	-	-	-	-	-	-	-	-	
PUBLIC UTILITIES.....	255	39.5	306.50	307.50	307.50-330.50	-	-	-	-	12	12	12	12	10	126	35	26	10	-	-	-	-	-	-	-	-	

See footnotes at end of tables.

Table A-2. Weekly earnings of professional and technical workers, Los Angeles—Long Beach, Calif., October 1979—Continued

Occupation and industry division	Number of workers	Average weekly hours ¹ (standard)	Weekly earnings ¹ (standard)			NUMBER OF WORKERS RECEIVING STRAIGHT-TIME WEEKLY EARNINGS (IN DOLLARS) OF--																				
			Mean ²	Median ²	Middle range ²	120	140	160	180	200	220	240	260	280	300	320	340	360	420	460	500	540	580	620	660	700
						AND UNDER	140	160	180	200	220	240	260	280	300	320	340	360	420	460	500	540	580	620	660	700
COMPUTER OPERATORS--CONTINUED																										
COMPUTER OPERATORS, CLASS A.....	844	39.5	\$299.00	\$290.00	\$262.00-\$333.50	-	-	-	4	13	51	125	174	87	112	102	125	49	4	-	-	-	-	-	-	-
MANUFACTURING.....	361	39.0	307.00	300.00	260.50-348.50	-	-	-	1	16	62	62	28	66	19	62	41	4	-	-	-	-	-	-	-	
NONMANUFACTURING.....	485	39.5	293.00	287.50	264.50-331.00	-	-	-	4	12	35	63	112	59	46	83	63	8	-	-	-	-	-	-	-	
PUBLIC UTILITIES.....	62	39.5	336.50	333.00	330.50-343.00	-	-	-	-	-	2	-	-	-	8	34	11	7	-	-	-	-	-	-	-	
COMPUTER OPERATORS, CLASS B.....	1,769	39.5	258.50	253.00	225.00-290.00	-	-	12	135	153	351	342	238	211	197	34	80	13	1	2	-	-	-	-	-	
MANUFACTURING.....	650	39.5	262.50	253.00	224.50-296.00	-	-	12	36	92	71	171	62	51	72	24	51	5	1	2	-	-	-	-	-	
NONMANUFACTURING.....	1,119	39.5	256.00	253.00	225.00-288.00	-	-	-	99	61	280	171	176	160	125	10	29	8	-	-	-	-	-	-	-	
COMPUTER OPERATORS, CLASS C.....	621	39.5	225.50	220.00	191.00-254.00	11	5	50	108	128	77	102	61	67	12	-	-	-	-	-	-	-	-	-	-	
MANUFACTURING.....	156	40.0	227.50	222.00	201.50-254.00	-	-	-	14	60	17	32	30	3	-	-	-	-	-	-	-	-	-	-	-	
NONMANUFACTURING.....	465	39.5	225.00	220.00	184.00-253.50	11	5	50	94	68	60	70	31	64	12	-	-	-	-	-	-	-	-	-	-	
COMPUTER DATA LIBRARIANS.....	158	39.5	228.00	230.00	169.50-253.50	-	16	33	13	10	27	22	5	10	3	4	15	-	-	-	-	-	-	-	-	
NONMANUFACTURING.....	106	39.5	218.50	208.00	165.50-253.50	-	16	33	2	5	11	14	5	9	1	-	10	-	-	-	-	-	-	-	-	
DRAFTERS.....	2,697	40.0	319.00	307.50	243.00-400.00	-	-	77	157	212	164	216	162	225	256	116	346	233	301	206	24	-	-	-	-	
MANUFACTURING.....	1,416	40.0	276.00	273.50	230.00-317.00	-	-	72	101	143	133	150	133	140	199	83	196	47	19	-	-	-	-	-	-	
NONMANUFACTURING.....	1,281	40.0	367.00	390.00	299.50-438.50	-	-	5	56	69	31	66	29	85	57	33	150	186	282	206	26	-	-	-	-	
PUBLIC UTILITIES.....	93	40.0	410.50	427.50	366.50-464.00	-	-	-	-	-	-	-	-	5	9	-	17	9	20	33	-	-	-	-	-	
DRAFTERS, CLASS A.....	931	40.0	354.50	342.00	300.00-403.00	-	-	-	-	1	8	47	23	120	177	62	190	112	58	107	26	-	-	-	-	
MANUFACTURING.....	582	40.0	327.50	320.00	302.50-353.00	-	-	-	-	-	6	15	23	53	168	57	167	40	13	-	-	-	-	-	-	
NONMANUFACTURING.....	389	40.0	391.50	403.00	299.50-466.50	-	-	-	-	1	2	32	-	67	9	5	23	72	45	107	26	-	-	-	-	
PUBLIC UTILITIES.....	56	40.0	435.00	464.00	412.50-464.00	-	-	-	-	-	-	-	-	-	3	-	9	3	8	33	-	-	-	-	-	
DRAFTERS, CLASS B.....	616	40.0	287.00	267.00	243.00-318.00	-	-	-	31	46	59	114	88	81	51	24	61	7	54	-	-	-	-	-	-	
MANUFACTURING.....	407	40.0	273.00	260.00	243.00-293.50	-	-	-	-	15	58	108	78	77	21	14	29	1	6	-	-	-	-	-	-	
NONMANUFACTURING.....	209	40.0	313.50	318.00	219.00-408.50	-	-	-	31	31	1	6	10	4	30	10	32	6	48	-	-	-	-	-	-	
DRAFTERS, CLASS C.....	532	40.0	224.00	217.00	190.00-238.00	-	-	62	112	140	91	33	39	13	10	21	5	6	-	-	-	-	-	-	-	
MANUFACTURING.....	416	40.0	220.50	216.50	188.00-236.50	-	-	57	87	121	63	23	29	8	10	12	-	6	-	-	-	-	-	-	-	
ELECTRONICS TECHNICIANS.....	6,322	40.0	349.50	363.50	300.00-403.00	-	12	31	136	133	192	155	363	540	553	356	988	2313	439	111	-	-	-	-	-	
MANUFACTURING.....	2,476	40.0	312.00	309.50	270.00-359.00	-	12	17	72	64	181	136	287	311	285	238	462	343	64	4	-	-	-	-	-	
NONMANUFACTURING.....	3,846	40.0	373.50	391.00	348.50-407.00	-	-	14	64	69	11	19	76	229	268	118	526	1970	375	107	-	-	-	-	-	
ELECTRONICS TECHNICIANS, CLASS A.....	2,342	40.0	371.00	364.00	340.50-407.00	-	-	-	-	-	-	21	74	83	198	200	832	402	421	111	-	-	-	-	-	
MANUFACTURING.....	1,127	40.0	361.00	361.00	335.00-394.00	-	-	-	-	-	-	20	3	47	126	128	403	340	56	4	-	-	-	-	-	
ELECTRONICS TECHNICIANS, CLASS B.....	3,401	40.0	352.50	391.00	301.00-407.00	-	-	-	97	73	36	42	209	375	337	152	153	1910	17	-	-	-	-	-	-	
MANUFACTURING.....	845	40.0	288.00	287.00	267.00-315.00	-	-	-	55	11	35	33	208	184	141	108	59	3	8	-	-	-	-	-	-	
ELECTRONICS TECHNICIANS, CLASS C.....	572	40.0	239.50	235.50	220.50-269.50	-	12	31	39	60	156	92	80	82	18	2	-	-	-	-	-	-	-	-	-	
MANUFACTURING.....	504	40.0	243.50	241.00	228.00-270.00	-	12	17	17	53	146	83	76	80	18	2	-	-	-	-	-	-	-	-	-	
REGISTERED INDUSTRIAL NURSES.....	319	39.5	338.50	339.00	310.00-368.50	-	-	5	1	-	7	6	6	30	53	52	103	48	4	4	-	-	-	-	-	
MANUFACTURING.....	233	40.0	345.00	340.00	312.00-375.50	-	-	-	-	-	7	3	4	20	31	46	76	38	4	4	-	-	-	-	-	
NONMANUFACTURING.....	86	39.0	320.50	321.00	300.50-360.00	-	-	5	1	-	-	3	2	10	22	6	27	10	-	-	-	-	-	-	-	

See footnotes at end of tables.

Table A-3. Average weekly earnings of office, professional, and technical workers, by sex, Los Angeles—Long Beach, Calif., October 1979

Occupation, sex, ³ and industry division	Number of workers	Average (mean ²)		Occupation, sex, ³ and industry division	Number of workers	Average (mean ²)		Occupation, sex, ³ and industry division	Number of workers	Average (mean ²)	
		Weekly hours ¹ (standard)	Weekly earnings ¹ (standard)			Weekly hours ¹ (standard)	Weekly earnings ¹ (standard)			Weekly hours ¹ (standard)	Weekly earnings ¹ (standard)
OFFICE OCCUPATIONS - MEN				OFFICE OCCUPATIONS - WOMEN--CONTINUED				OFFICE OCCUPATIONS - WOMEN--CONTINUED			
MESSENGERS: MANUFACTURING.....	169	38.5	\$173.50	STENOGRAPHERS--CONTINUED				ORDER CLERKS.....	2,997	40.0	\$207.00
ORDER CLERKS.....	923	40.0	238.00	STENOGRAPHERS, GENERAL.....	500	39.5	\$244.50	MANUFACTURING.....	1,301	40.0	197.00
ACCOUNTING CLERKS: MANUFACTURING.....	252	39.0	212.50	MANUFACTURING.....	182	39.5	237.00	NONMANUFACTURING.....	1,296	40.0	217.00
PAYROLL CLERKS.....	275	39.5	261.50	NONMANUFACTURING.....	318	39.5	249.00	ORDER CLERKS, CLASS A.....	555	40.0	204.50
NONMANUFACTURING.....	163	39.5	269.50	PUBLIC UTILITIES.....	234	40.0	270.00	MANUFACTURING.....	500	40.0	203.00
OFFICE OCCUPATIONS - WOMEN				TRANSCRIBING-MACHINE TYPISTS.....	691	38.0	204.00	ORDER CLERKS, CLASS B.....	2,042	40.0	208.00
SECRETARIES.....	20,852	39.5	270.00	NONMANUFACTURING.....	620	38.0	198.50	MANUFACTURING.....	801	40.0	193.50
MANUFACTURING.....	8,357	39.5	276.50	TYPISTS.....	3,018	39.5	199.50	NONMANUFACTURING.....	1,241	40.0	217.00
NONMANUFACTURING.....	12,495	39.5	265.50	MANUFACTURING.....	1,311	40.0	221.00	ACCOUNTING CLERKS.....	10,595	39.5	217.00
PUBLIC UTILITIES.....	1,325	40.0	301.00	PUBLIC UTILITIES.....	74	40.0	206.00	MANUFACTURING.....	3,188	39.5	229.00
SECRETARIES, CLASS A.....	843	39.5	328.00	TYPISTS, CLASS A.....	1,125	39.0	216.50	NONMANUFACTURING.....	7,407	39.5	215.50
MANUFACTURING.....	444	40.0	329.50	MANUFACTURING.....	458	39.5	242.50	ACCOUNTING CLERKS, CLASS A.....	4,914	39.5	233.50
NONMANUFACTURING.....	399	39.0	327.00	PUBLIC UTILITIES.....	667	39.0	198.50	MANUFACTURING.....	1,698	39.5	237.50
SECRETARIES, CLASS B.....	3,266	39.5	303.50	TYPISTS, CLASS B.....	1,853	39.5	187.50	NONMANUFACTURING.....	3,216	39.5	227.00
MANUFACTURING.....	1,815	40.0	396.00	MANUFACTURING.....	853	40.0	209.50	PUBLIC UTILITIES.....	345	40.0	281.50
SECRETARIES, CLASS C.....	6,821	39.5	269.00	PUBLIC UTILITIES.....	55	40.0	197.50	ACCOUNTING CLERKS, CLASS B.....	5,416	39.5	203.50
MANUFACTURING.....	3,618	39.5	273.50	FILE CLERKS.....	2,419	39.0	173.50	MANUFACTURING.....	1,490	39.5	203.00
NONMANUFACTURING.....	3,205	39.5	264.00	MANUFACTURING.....	360	39.5	212.00	NONMANUFACTURING.....	4,126	39.5	205.00
PUBLIC UTILITIES.....	459	40.0	299.00	NONMANUFACTURING.....	2,059	38.5	167.00	MACHINE-BILLERS.....	218	40.0	239.00
SECRETARIES, CLASS D.....	5,891	39.5	253.00	PUBLIC UTILITIES.....	162	40.0	268.00	BILLING-MACHINE BILLERS.....	217	40.0	238.50
MANUFACTURING.....	1,838	39.5	257.00	FILE CLERKS, CLASS A.....	292	39.0	221.50	PAYROLL CLERKS.....	1,722	39.5	235.50
NONMANUFACTURING.....	4,053	39.5	251.00	NONMANUFACTURING.....	279	39.0	216.50	MANUFACTURING.....	693	40.0	226.50
PUBLIC UTILITIES.....	373	39.5	275.50	FILE CLERKS, CLASS B.....	873	39.0	183.00	NONMANUFACTURING.....	1,029	39.5	241.50
SECRETARIES, CLASS E.....	2,726	39.5	217.00	NONMANUFACTURING.....	698	38.5	173.50	PUBLIC UTILITIES.....	162	39.5	308.00
MANUFACTURING.....	644	38.5	226.00	PUBLIC UTILITIES.....	67	40.0	244.00	KEY ENTRY OPERATORS.....	6,560	39.5	218.50
NONMANUFACTURING.....	2,082	39.5	214.00	FILE CLERKS, CLASS C.....	1,254	39.0	156.50	MANUFACTURING.....	1,860	39.5	229.50
PUBLIC UTILITIES.....	131	40.0	309.50	MANUFACTURING.....	172	40.0	195.00	NONMANUFACTURING.....	4,700	39.5	214.00
STENOGRAPHERS.....	1,192	39.5	258.00	NONMANUFACTURING.....	1,082	38.5	150.00	KEY ENTRY OPERATORS, CLASS A.....	2,610	39.0	237.50
MANUFACTURING.....	582	40.0	271.50	PUBLIC UTILITIES.....	90	40.0	282.50	MANUFACTURING.....	945	39.5	242.50
NONMANUFACTURING.....	610	39.5	244.50	MESSENGERS: MANUFACTURING.....	156	39.5	168.50	NONMANUFACTURING.....	1,665	39.0	234.50
PUBLIC UTILITIES.....	242	40.0	283.00	MANUFACTURING.....	156	39.5	168.50	PUBLIC UTILITIES.....	101	39.5	243.50
STENOGRAPHERS, SENIOR.....	692	39.5	267.50	NONMANUFACTURING.....	156	39.5	168.50	KEY ENTRY OPERATORS, CLASS B.....	3,805	39.5	202.50
MANUFACTURING.....	400	40.0	287.50	SWITCHBOARD OPERATORS.....	1,851	38.5	200.00	MANUFACTURING.....	915	39.5	216.00
NONMANUFACTURING.....	292	39.0	240.00	MANUFACTURING.....	320	39.5	233.50	NONMANUFACTURING.....	2,890	39.5	198.50
				NONMANUFACTURING.....	1,531	38.5	193.00				
				SWITCHBOARD OPERATOR-RECEPTIONISTS.....	2,114	39.5	189.50				
				MANUFACTURING.....	898	40.0	188.00				
				NONMANUFACTURING.....	1,216	39.0	190.50				

See footnotes at end of tables.

Table A-3. Average weekly earnings of office, professional, and technical workers, by sex, Los Angeles—Long Beach, Calif., October 1979—Continued

Occupation, sex, ³ and industry division	Number of workers	Average (mean ²)		Occupation, sex, ³ and industry division	Number of workers	Average (mean ²)		Occupation, sex, ³ and industry division	Number of workers	Average (mean ²)	
		Weekly hours ¹ (standard)	Weekly earnings ¹ (standard)			Weekly hours ¹ (standard)	Weekly earnings ¹ (standard)			Weekly hours ¹ (standard)	Weekly earnings ¹ (standard)
PROFESSIONAL AND TECHNICAL OCCUPATIONS - MEN				PROFESSIONAL AND TECHNICAL OCCUPATIONS - MEN--CONTINUED				PROFESSIONAL AND TECHNICAL OCCUPATIONS - WOMEN--CONTINUED			
COMPUTER SYSTEMS ANALYSTS (BUSINESS).....	2,011	39.5	\$446.50	DRAFTERS.....	2,395	40.0	\$320.50	COMPUTER PROGRAMMERS (BUSINESS)--CONTINUED			
MANUFACTURING.....	736	39.5	457.00	MANUFACTURING.....	1,272	40.0	276.00				
NONMANUFACTURING.....	1,275	39.5	440.50	NONMANUFACTURING.....	1,123	40.0	370.50	COMPUTER PROGRAMMERS (BUSINESS), CLASS B: MANUFACTURING.....	97	38.0	\$356.50
PUBLIC UTILITIES.....	165	40.0	461.00	PUBLIC UTILITIES.....	85	40.0	418.50				
COMPUTER SYSTEMS ANALYSTS (BUSINESS), CLASS A.....	980	39.5	491.00	DRAFTERS, CLASS A.....	848	40.0	356.50	COMPUTER PROGRAMMERS (BUSINESS), CLASS C: MANUFACTURING.....	249	38.5	292.50
MANUFACTURING.....	353	39.5	520.00	MANUFACTURING.....	520	40.0	328.00		144	38.0	290.50
NONMANUFACTURING.....	627	39.5	475.00	NONMANUFACTURING.....	328	40.0	402.50	COMPUTER OPERATORS: MANUFACTURING.....	346	40.0	269.50
PUBLIC UTILITIES.....	73	40.0	530.00	DRAFTERS, CLASS B.....	524	40.0	286.00	COMPUTER OPERATORS, CLASS A: MANUFACTURING.....	73	40.0	324.50
COMPUTER SYSTEMS ANALYSTS (BUSINESS), CLASS B.....	787	39.5	419.00	MANUFACTURING.....	340	40.0	270.50	COMPUTER OPERATORS, CLASS B: MANUFACTURING.....	197	40.0	262.50
MANUFACTURING.....	272	40.0	430.50	DRAFTERS, CLASS C.....	461	40.0	221.00	COMPUTER DATA LIBRARIANS.....	112	39.5	232.00
NONMANUFACTURING.....	515	39.5	412.50	MANUFACTURING.....	372	40.0	216.00	NONMANUFACTURING.....	84	39.5	224.00
COMPUTER SYSTEMS ANALYSTS (BUSINESS), CLASS C.....	203	39.5	324.00	ELECTRONICS TECHNICIANS.....	5,160	40.0	345.00	DRAFTERS.....	296	40.0	312.00
COMPUTER PROGRAMMERS (BUSINESS).....	1,800	39.0	364.00	MANUFACTURING.....	2,297	40.0	314.50	MANUFACTURING.....	144	39.5	277.50
MANUFACTURING.....	691	39.0	389.00	ELECTRONICS TECHNICIANS, CLASS A.....	2,309	40.0	371.50	DRAFTERS, CLASS B.....	92	39.5	291.50
NONMANUFACTURING.....	1,109	39.0	348.50	MANUFACTURING.....	1,101	40.0	361.00	MANUFACTURING.....	67	39.5	285.00
COMPUTER PROGRAMMERS (BUSINESS), CLASS A.....	649	39.5	426.50	ELECTRONICS TECHNICIANS, CLASS B: MANUFACTURING.....	785	40.0	286.50	DRAFTERS, CLASS C.....	71	40.0	244.50
MANUFACTURING.....	313	39.0	437.50	ELECTRONICS TECHNICIANS, CLASS C.....	448	40.0	238.50				
NONMANUFACTURING.....	336	39.5	416.50	MANUFACTURING.....	411	40.0	242.50	REGISTERED INDUSTRIAL NURSES.....	306	39.5	339.50
COMPUTER PROGRAMMERS (BUSINESS), CLASS B.....	734	38.5	349.00	PROFESSIONAL AND TECHNICAL OCCUPATIONS - WOMEN				MANUFACTURING.....	232	40.0	344.50
MANUFACTURING.....	302	39.5	362.50	COMPUTER SYSTEMS ANALYSTS (BUSINESS): MANUFACTURING.....	191	39.5	442.50	NONMANUFACTURING.....	74	39.0	323.50
NONMANUFACTURING.....	432	38.5	340.00	COMPUTER SYSTEMS ANALYSTS (BUSINESS), CLASS A: MANUFACTURING.....	98	39.5	505.50				
COMPUTER PROGRAMMERS (BUSINESS), CLASS C.....	362	39.5	273.50	COMPUTER SYSTEMS ANALYSTS (BUSINESS), CLASS B.....	169	39.5	402.50				
MANUFACTURING.....	76	40.0	293.50	COMPUTER SYSTEMS ANALYSTS (BUSINESS), CLASS C.....	91	39.5	341.00				
NONMANUFACTURING.....	286	39.0	268.00	COMPUTER PROGRAMMERS (BUSINESS).....	804	39.0	349.50				
COMPUTER OPERATORS.....	2,160	39.5	261.50	MANUFACTURING.....	366	38.5	348.50				
MANUFACTURING.....	891	39.5	273.00	COMPUTER PROGRAMMERS (BUSINESS), CLASS A.....	229	39.0	413.50				
COMPUTER OPERATORS, CLASS A: MANUFACTURING.....	288	39.0	302.50	MANUFACTURING.....	109	39.0	428.50				
COMPUTER OPERATORS, CLASS B.....	1,098	39.0	256.50								
MANUFACTURING.....	433	39.5	263.00								
COMPUTER OPERATORS, CLASS C.....	465	39.5	223.50								
MANUFACTURING.....	89	41.0	219.00								
NONMANUFACTURING.....	385	39.5	224.50								

See footnotes at end of tables.

Table A-4. Hourly earnings of maintenance, toolroom, and powerplant workers, Los Angeles—Long Beach, Calif., October 1979

Occupation and industry division	Number of workers	Hourly earnings ⁴			NUMBER OF WORKERS RECEIVING STRAIGHT-TIME HOURLY EARNINGS (IN DOLLARS) OF--																							
		Mean ²	Median ²	Middle range ²	3.20	3.60	4.00	4.40	4.80	5.20	5.60	6.00	6.40	6.80	7.20	7.60	8.00	8.40	8.80	9.20	9.60	10.00	10.40	10.80	11.20	11.60	12.00	
					AND UNDER 3.60	4.00	4.40	4.80	5.20	5.60	6.00	6.40	6.80	7.20	7.60	8.00	8.40	8.80	9.20	9.60	10.00	10.40	10.80	11.20	11.60	12.00	AND OVER	
MAINTENANCE CARPENTERS.....	610	\$8.66	\$9.01	\$7.88- \$9.47	-	-	-	-	-	4	5	32	9	40	39	49	28	75	56	167	72	5	6	20	-	-	3	
MANUFACTURING.....	408	8.61	8.83	7.95- 9.38	-	-	-	-	-	-	1	29	6	8	28	49	28	52	40	88	62	5	4	8	-	-	-	
NONMANUFACTURING.....	202	8.75	9.47	7.89- 9.47	-	-	-	-	4	4	3	3	32	11	-	-	23	16	79	15	-	2	12	-	-	3		
MAINTENANCE ELECTRICIANS.....	1,569	9.78	9.74	9.04- 10.31	-	-	-	-	-	-	-	-	30	52	3	49	83	110	146	277	102	366	44	160	13	11	123	
MANUFACTURING.....	1,225	9.87	9.80	8.91- 10.31	-	-	-	-	-	-	-	-	29	19	3	45	74	82	145	161	85	288	27	148	-	-	*123	
NONMANUFACTURING.....	344	9.49	9.47	9.27- 10.21	-	-	-	-	-	-	-	-	1	33	-	4	9	28	1	116	17	82	17	12	13	11	-	
PUBLIC UTILITIES.....	101	9.96	9.27	9.27- 10.89	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	55	8	8	1	10	12	6	-	
MAINTENANCE PAINTERS.....	532	8.68	9.15	7.95- 9.50	-	-	-	17	-	4	4	16	59	8	36	29	47	74	170	30	6	4	25	3	-	-	-	
MANUFACTURING.....	297	8.71	8.98	8.14- 9.51	-	-	-	8	-	4	4	16	16	7	15	25	38	52	49	29	4	4	23	3	-	-	-	
NONMANUFACTURING.....	235	8.63	9.47	7.66- 9.50	-	-	-	9	-	-	-	-	43	1	21	4	9	22	121	1	2	-	2	-	-	-	-	
MAINTENANCE MACHINISTS.....	747	9.47	10.08	8.03- 10.80	-	-	-	-	-	-	-	-	11	-	72	68	90	45	35	21	15	187	12	124	21	46	-	
MANUFACTURING.....	532	9.14	8.95	7.85- 10.38	-	-	-	-	-	-	-	-	11	-	72	68	61	45	35	21	10	130	12	-	21	46	-	
MAINTENANCE MECHANICS (MACHINERY).....	3,968	8.31	8.35	7.15- 9.71	-	-	28	56	11	32	41	293	341	358	382	186	275	286	304	323	214	735	48	7	48	-	-	
MANUFACTURING.....	3,843	8.19	8.20	7.03- 9.49	-	-	28	56	11	29	39	289	279	352	344	169	270	284	295	175	185	553	30	7	48	-	-	
NONMANUFACTURING.....	525	9.12	9.47	7.85- 10.29	-	-	-	-	-	3	2	4	62	6	38	17	5	2	9	148	29	182	18	-	-	-	-	
MAINTENANCE MECHANICS (MOTOR VEHICLES).....	2,077	9.41	9.45	8.51- 10.53	-	-	-	-	-	-	-	35	108	55	123	7	113	133	243	268	347	176	97	70	300	72	-	
MANUFACTURING.....	625	9.19	9.17	8.70- 10.00	-	-	-	-	-	-	-	18	28	1	16	4	63	50	140	87	58	38	84	28	10	-	-	
NONMANUFACTURING.....	1,452	9.50	9.63	8.53- 11.19	-	-	-	-	-	-	-	17	80	54	107	3	50	83	103	181	289	68	13	42	290	72	-	
PUBLIC UTILITIES.....	1,034	9.65	9.63	8.51- 11.21	-	-	-	-	-	-	-	17	80	46	41	1	10	40	12	95	214	65	13	42	246	72	-	
MAINTENANCE SHEET-METAL WORKERS.....	99	9.39	9.48	9.32- 9.86	-	-	-	-	-	-	-	-	1	6	1	-	-	3	12	34	24	12	-	4	-	-	-	
MANUFACTURING.....	99	9.39	9.48	9.32- 9.86	-	-	-	-	-	-	-	-	1	6	1	-	-	3	12	34	26	12	-	4	-	-	-	
MAINTENANCE TRADES HELPERS.....	659	6.28	6.34	4.75- 7.66	28	-	77	64	33	7	85	40	35	85	33	87	60	6	11	8	-	-	-	-	-	-	-	
MANUFACTURING.....	567	6.28	6.34	5.00- 7.93	28	-	77	32	31	7	84	31	30	79	1	86	56	6	11	8	-	-	-	-	-	-	-	
MACHINE-TOOL OPERATORS (TOOLROOM).....	300	9.11	9.06	8.38- 9.84	-	-	-	-	-	-	-	-	-	-	-	-	87	36	35	28	73	41	-	-	-	-	-	
TOOL AND DIE MAKERS.....	1,713	9.40	9.43	8.78- 10.08	-	-	-	-	-	-	-	-	-	1	1	36	299	93	234	394	180	274	27	165	3	-	6	
MANUFACTURING.....	1,713	9.40	9.43	8.78- 10.08	-	-	-	-	-	-	-	-	-	1	1	36	299	93	234	394	180	274	27	165	3	-	6	
STATIONARY ENGINEERS.....	713	9.33	9.48	8.23- 10.20	-	-	1	2	-	2	1	4	5	17	99	39	9	34	9	180	48	164	14	21	-	64	-	
MANUFACTURING.....	476	9.43	9.51	7.89- 10.30	-	-	-	-	-	-	-	-	-	3	88	31	3	24	6	96	32	173	5	21	-	64	-	
NONMANUFACTURING.....	237	9.12	9.47	8.63- 10.29	-	-	1	2	-	2	1	4	5	14	11	8	6	10	3	84	16	61	9	-	-	-	-	

* Workers were distributed as follows: 80 at \$12 to \$12.40; 10 at \$12.40 to \$12.80; 9 at \$12.80 to \$13.20; and 24 at \$14.40 and over.

See footnotes at end of tables.

**Table A-5. Hourly earnings of material movement and custodial workers, Los Angeles—
Long Beach, Calif., October 1979**

Occupation and industry division	Number of workers	Hourly earnings ⁴			NUMBER OF WORKERS RECEIVING STRAIGHT-TIME HOURLY EARNINGS (IN DOLLARS) OF--																									
		Mean ²	Median ²	Middle range ²	2.80	3.00	3.20	3.40	3.60	4.00	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	10.20	10.60	11.00			
					AND UNDER	3.00	3.20	3.40	3.60	4.00	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	10.20	10.60	11.00	AND OVER		
TRUCKDRIVERS.....	15,308	\$8.18	\$8.26	\$7.00- \$9.70	-	-	90	328	245	182	304	329	658	533	517	615	1633	563	960	1834	352	1624	766	356	2064	1177	178			
MANUFACTURING.....	3,578	7.55	7.76	6.15- 8.58	-	-	32	116	44	117	115	85	23	395	282	93	454	75	170	695	46	69	160	-	607	-	-			
NONMANUFACTURING.....	11,730	8.37	8.58	7.35- 9.98	-	-	58	212	201	65	189	244	635	138	235	522	1179	488	790	1139	306	1555	606	356	1457	1177	178			
PUBLIC UTILITIES.....	4,090	9.76	10.34	9.40- 10.82	-	-	-	-	-	-	9	-	450	2	9	5	16	38	55	50	16	224	380	24	1457	1177	178			
TRUCKDRIVERS, LIGHT TRUCK.....	2,439	7.26	6.60	4.15- 10.82	-	-	90	328	222	67	180	76	27	42	104	201	5	43	12	1	97	90	-	-	-	852	-			
MANUFACTURING.....	463	5.00	6.97	3.78- 6.28	-	-	32	116	32	11	63	29	12	39	104	12	-	1	9	-	3	-	-	-	-	-	-			
NONMANUFACTURING.....	1,976	7.79	8.89	4.43- 10.82	-	-	58	212	190	56	117	47	15	3	2	189	5	42	3	1	94	90	-	-	-	-	852			
TRUCKDRIVERS, MEDIUM TRUCK.....	4,166	7.56	7.65	7.26- 7.86	-	-	-	-	23	35	124	141	61	185	276	35	1150	484	781	325	14	22	145	-	320	45	-			
MANUFACTURING.....	988	6.83	7.00	5.89- 7.76	-	-	-	-	12	26	52	53	11	176	133	22	206	70	133	11	-	3	80	-	-	-	-			
NONMANUFACTURING.....	3,178	7.79	7.65	7.35- 7.91	-	-	-	-	11	9	72	88	50	9	143	13	944	414	648	314	14	19	65	-	320	45	-			
TRUCKDRIVERS, HEAVY TRUCK.....	2,055	8.10	8.26	5.75- 10.40	-	-	-	-	-	80	-	112	450	155	28	6	-	-	-	-	318	8	18	59	-	741	80			
MANUFACTURING.....	1,081	8.66	8.48	8.23- 10.51	-	-	-	-	-	80	-	3	-	155	-	6	-	-	-	-	706	-	2	27	-	502	-			
PUBLIC UTILITIES.....	837	7.82	5.75	5.75- 10.34	-	-	-	-	-	-	-	-	450	-	-	-	-	-	-	-	12	8	16	32	-	239	80			
TRUCKDRIVERS, TRACTOR-TRAILER.....	5,526	8.96	9.23	8.26- 9.98	-	-	-	-	-	-	-	-	40	151	66	164	466	36	160	1182	66	1247	539	356	675	200	178			
MANUFACTURING.....	891	8.21	8.36	7.12- 8.50	-	-	-	-	-	-	-	-	-	25	4	47	236	4	21	372	30	17	30	-	105	-	-			
NONMANUFACTURING.....	4,635	9.11	9.35	8.26- 9.98	-	-	-	-	-	-	-	-	40	126	62	117	230	32	139	810	36	1230	509	356	570	200	178			
PUBLIC UTILITIES.....	1,472	10.10	10.46	9.40- 10.82	-	-	-	-	-	-	-	-	-	-	4	1	11	32	52	36	8	8	348	24	570	200	*178			
SHIPPERS.....	577	6.31	6.40	5.26- 6.95	-	-	-	2	71	4	48	25	25	87	127	47	54	1	2	51	-	-	9	-	24	-	-			
MANUFACTURING.....	504	6.33	6.41	5.18- 7.00	-	-	-	-	70	3	48	24	18	73	86	42	54	-	2	51	-	-	9	-	24	-	-			
RECEIVERS.....	1,274	6.88	7.29	5.15- 8.10	-	-	2	40	27	37	162	108	62	43	109	17	71	39	298	98	-	109	-	-	52	-	-			
MANUFACTURING.....	522	6.31	5.59	4.88- 8.09	-	-	-	29	21	33	122	31	45	21	29	13	16	20	36	33	-	21	-	-	52	-	-			
NONMANUFACTURING.....	752	7.28	8.10	6.49- 8.10	-	-	2	11	6	4	40	77	17	22	80	4	55	19	262	65	-	88	-	-	-	-	-			
SHIPPERS AND RECEIVERS.....	1,216	6.43	5.88	5.25- 7.33	-	-	-	-	28	27	110	242	157	76	91	93	114	27	10	49	134	-	12	34	12	-	-			
MANUFACTURING.....	820	6.76	6.78	5.45- 8.31	-	-	-	-	28	26	24	83	113	76	26	84	113	26	3	49	133	-	12	12	12	-	-			
NONMANUFACTURING.....	396	5.76	5.25	5.09- 6.51	-	-	-	-	-	1	86	159	44	-	65	9	1	1	7	-	1	-	-	22	-	-	-			
WAREHOUSEMEN.....	7,583	6.65	6.20	4.60- 7.35	-	56	48	687	669	429	453	271	538	605	1129	349	521	136	491	117	418	118	474	63	-	-	11			
MANUFACTURING.....	2,623	5.81	5.60	4.55- 7.21	-	56	48	138	122	297	316	191	433	149	119	46	73	63	409	79	6	-	14	63	-	-	-			
NONMANUFACTURING.....	4,960	7.09	6.31	4.66- 7.35	-	-	-	549	547	132	137	80	105	456	1010	303	451	73	82	38	412	118	456	-	-	-	11			
ORDER FILLERS.....	1,425	5.21	4.83	3.75- 6.10	-	-	102	303	88	57	174	186	142	24	14	180	-	-	-	-	24	126	-	3	-	-	-			
SHIPPING PACKERS.....	4,320	4.50	4.10	3.30- 5.31	180	784	229	451	594	423	241	469	314	68	77	26	1	411	52	-	-	-	-	-	-	-	-			
MANUFACTURING.....	2,950	3.97	3.65	3.00- 4.46	180	784	226	442	283	378	199	241	31	10	76	26	1	21	52	-	-	-	-	-	-	-	-			
MATERIAL HANDLING LABORERS.....	6,105	5.10	4.16	3.40- 6.45	10	1388	104	1056	541	761	232	139	140	49	211	413	32	45	11	158	109	12	-	-	502	192	-			
MANUFACTURING.....	2,625	4.02	3.50	3.05- 4.42	-	1198	62	232	250	288	164	58	85	15	126	68	30	5	8	7	17	12	-	-	-	-	-			
NONMANUFACTURING.....	3,480	5.91	4.50	3.60- 8.50	10	190	42	824	291	473	68	81	55	34	85	345	2	40	3	151	92	-	-	-	502	192	-			
FORKLIFT OPERATORS.....	4,251	7.19	6.67	5.40- 9.02	-	-	-	-	78	68	349	533	259	460	207	416	4	50	77	428	151	605	-	134	400	32	-			
MANUFACTURING.....	2,707	6.78	5.97	5.28- 8.58	-	-	-	-	77	68	96	533	255	458	135	209	-	46	65	166	114	177	-	-	348	-	-			
NONMANUFACTURING.....	1,544	7.89	8.25	6.70- 9.02	-	-	-	-	1	-	253	-	4	2	72	207	4	4	12	262	37	468	-	134	52	32	-			

* Workers were at \$11 to \$11.40.

See footnotes at end of tables.

**Table A-5. Hourly earnings of material movement and custodial workers, Los Angeles—
Long Beach, Calif., October 1979—Continued**

Occupation and industry division	Number of workers	Hourly earnings ¹			NUMBER OF WORKERS RECEIVING STRAIGHT-TIME HOURLY EARNINGS (IN DOLLARS) OF--																							
		Mean ²	Median ²	Middle range ²	2.80	3.00	3.20	3.40	3.80	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	10.20	10.60	11.00	
					AND UNDER 3.00	3.20	3.40	3.80	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	10.20	10.60	11.00	AND OVER	
GUARDS.....	12,979	\$4.16	\$3.40	\$3.05- \$4.40	1277	2412	2396	2477	846	530	250	161	73	967	148	361	488	106	95	158	155	30	6	-	6	6	31	
MANUFACTURING.....	1,487	6.61	6.96	5.18- 7.86	-	-	7	39	147	95	52	70	27	52	120	288	129	85	79	135	111	27	6	-	6	6	6	
NONMANUFACTURING.....	11,492	3.84	3.30	3.00- 3.90	1277	2412	2389	2438	699	435	198	91	46	915	28	73	359	21	16	23	44	3	-	-	-	-	25	
PUBLIC UTILITIES.....	128	7.47	7.29	7.22- 8.68	-	-	-	-	-	6	6	-	-	-	-	15	57	-	2	5	37	-	-	-	-	-	-	
GUARDS, CLASS A.....	2,148	6.29	5.80	5.24- 6.96	-	1	18	118	142	138	66	66	44	749	61	279	148	55	58	123	14	27	6	-	6	6	23	
MANUFACTURING.....	736	7.30	6.99	6.85- 7.92	-	-	-	18	9	9	-	1	9	22	48	252	109	41	56	103	8	27	6	-	6	6	6	
NONMANUFACTURING.....	1,412	5.76	5.80	4.50- 5.80	-	1	18	100	133	129	66	65	35	727	13	27	39	14	2	20	6	-	-	-	-	-	17	
GUARDS, CLASS B.....	10,015	3.76	3.25	3.00- 3.75	1199	2225	2028	2247	640	392	184	95	29	218	87	82	340	51	37	35	115	3	-	-	-	-	8	
MANUFACTURING.....	751	5.92	5.56	4.32- 7.58	-	-	7	21	138	86	52	69	18	30	72	36	20	44	23	32	103	-	-	-	-	-	-	
NONMANUFACTURING.....	9,264	3.58	3.25	3.00- 3.50	1199	2225	2021	2226	502	306	132	26	11	188	15	46	320	7	14	3	12	3	-	-	-	-	8	
JANITORS, PORTERS, AND CLEANERS.....	15,543	5.07	5.22	3.76- 5.83	257	1206	942	1536	689	803	650	2146	3325	2301	156	308	84	196	542	80	212	27	48	35	-	-	-	
MANUFACTURING.....	3,564	5.50	5.22	4.20- 6.59	-	200	86	315	275	461	371	319	181	371	127	39	37	124	422	51	137	-	48	-	-	-	-	
NONMANUFACTURING.....	11,979	4.94	5.19	3.76- 5.72	257	1006	856	1221	414	342	279	1827	3144	1930	29	269	47	72	120	29	75	27	-	35	-	-	-	
PUBLIC UTILITIES.....	427	7.59	7.81	6.88- 8.19	-	2	2	2	7	6	-	-	6	12	-	118	10	39	118	29	14	27	-	35	-	-	-	

See footnotes at end of tables.

Table A-6. Average hourly earnings of maintenance, toolroom, powerplant, material movement, and custodial workers, by sex, Los Angeles—Long Beach, Calif., October 1979

Occupation, sex, ³ and industry division	Number of workers	Average (mean ²) hourly earnings ⁴	Occupation, sex, ³ and industry division	Number of workers	Average (mean ²) hourly earnings ⁴	Occupation, sex, ³ and industry division	Number of workers	Average (mean ²) hourly earnings ⁴
MAINTENANCE, TOOLROOM, AND POWERPLANT OCCUPATIONS - MEN			MATERIAL MOVEMENT AND CUSTODIAL OCCUPATIONS - MEN			MATERIAL MOVEMENT AND CUSTODIAL OCCUPATIONS - MEN--CONTINUED		
MAINTENANCE CARPENTERS.....	583	\$8.63	TRUCKDRIVERS.....	15,074	\$8.18	MATERIAL HANDLING LABORERS.....	5,324	\$4.97
MANUFACTURING.....	408	8.61	MANUFACTURING.....	3,563	7.55	MANUFACTURING.....	2,343	3.96
NONMANUFACTURING.....	172	8.69	NONMANUFACTURING.....	11,511	8.38	NONMANUFACTURING.....	2,981	5.76
MAINTENANCE ELECTRICIANS.....	1,534	9.80	PUBLIC UTILITIES.....	3,972	9.78	FORKLIFT OPERATORS.....	3,945	7.11
MANUFACTURING.....	1,224	9.87	TRUCKDRIVERS, LIGHT TRUCK.....	2,232	7.23	MANUFACTURING.....	2,699	6.78
NONMANUFACTURING.....	310	9.52	MANUFACTURING.....	462	5.00	GUARDS:		
PUBLIC UTILITIES.....	88	9.85	NONMANUFACTURING.....	1,770	7.82	MANUFACTURING.....	1,392	6.63
MAINTENANCE PAINTERS.....	525	8.67	TRUCKDRIVERS, MEDIUM TRUCK.....	4,155	7.56	PUBLIC UTILITIES.....	126	7.46
MANUFACTURING.....	297	8.71	MANUFACTURING.....	986	6.83	GUARDS, CLASS A:		
NONMANUFACTURING.....	228	8.61	NONMANUFACTURING.....	3,169	7.79	MANUFACTURING.....	691	7.30
MAINTENANCE WASHINGTONISTS.....	747	9.47	TRUCKDRIVERS, HEAVY TRUCK.....	2,052	8.10	GUARDS, CLASS B:		
MANUFACTURING.....	532	9.14	MANUFACTURING.....	1,078	8.66	MANUFACTURING.....	701	5.97
MAINTENANCE MECHANICS (MACHINERY).....	3,968	8.31	PUBLIC UTILITIES.....	837	7.82	JANITORS, PORTERS, AND CLEANERS.....	12,084	5.06
MANUFACTURING.....	3,443	8.19	TRUCKDRIVERS, TRACTOR-TRAILER.....	5,515	8.96	MANUFACTURING.....	3,219	5.44
NONMANUFACTURING.....	525	9.12	MANUFACTURING.....	882	8.21	NONMANUFACTURING.....	8,865	4.92
MAINTENANCE MECHANICS (MOTOR VEHICLES).....	2,037	9.44	NONMANUFACTURING.....	4,633	9.11	PUBLIC UTILITIES.....	315	7.73
MANUFACTURING.....	625	9.19	PUBLIC UTILITIES.....	1,470	10.09			
NONMANUFACTURING.....	1,412	9.56	SHIPPERS.....	539	6.31	MATERIAL MOVEMENT AND CUSTODIAL OCCUPATIONS - WOMEN		
PUBLIC UTILITIES.....	999	9.73	MANUFACTURING.....	488	6.32	TRUCKDRIVERS.....	220	7.69
MAINTENANCE SHEET-METAL WORKERS.....	99	9.39	RECEIVERS:			WAREHOUSEMEN.....	230	6.65
MANUFACTURING.....	99	9.39	MANUFACTURING.....	504	6.30	SHIPPING PACKERS.....	1,921	4.04
MAINTENANCE TRADES HELPERS.....	645	6.26	SHIPPERS AND RECEIVERS.....	1,142	6.50	MANUFACTURING.....	1,625	3.92
MANUFACTURING.....	566	6.28	MANUFACTURING.....	754	6.89	GUARDS:		
MACHINE-TOOL OPERATORS (TOOLROOM).....	300	9.11	NONMANUFACTURING.....	388	5.75	MANUFACTURING.....	95	6.21
TOOL AND DIE MAKERS.....	1,713	9.40	WAREHOUSEMEN.....	7,330	6.65	JANITORS, PORTERS, AND CLEANERS:		
MANUFACTURING.....	1,713	9.40	MANUFACTURING.....	2,535	5.79	MANUFACTURING.....	345	6.08
STATIONARY ENGINEERS.....	667	9.47	NONMANUFACTURING.....	4,795	7.10			
MANUFACTURING.....	476	9.43	ORDER FILLERS.....	817	5.88			
			SHIPPING PACKERS.....	2,102	4.98			
			MANUFACTURING.....	1,115	4.05			

See footnotes at end of tables.

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

Industry and occupational group ⁵	October 1973 to October 1974	October 1974 to October 1975	October 1975 to October 1976	October 1976 to October 1977	October 1977 to October 1978	October 1978 to October 1979
All industries:						
Office clerical.....	7.0	8.6	7.3	7.4	7.8	9.8
Electronic data processing.....	7.2	8.2	7.0	6.6	9.6	8.6
Industrial nurses.....	9.3	9.2	7.8	7.4	9.6	8.4
Skilled maintenance trades.....	7.9	8.2	7.4	8.8	8.1	9.7
Unskilled plant workers.....	5.6	6.4	12.4	6.7	8.2	11.7
Manufacturing:						
Office clerical.....	6.7	8.7	7.7	7.2	6.9	9.7
Electronic data processing.....	7.5	10.0	6.4	6.3	8.8	8.4
Industrial nurses.....	9.5	9.3	8.0	7.5	9.1	8.7
Skilled maintenance trades.....	8.1	8.5	7.1	8.6	8.2	10.5
Unskilled plant workers.....	7.4	7.2	7.8	5.7	7.1	8.5
Nonmanufacturing:						
Office clerical.....	7.2	8.6	7.2	7.5	8.4	10.0
Electronic data processing.....	7.1	7.1	7.4	6.8	10.4	8.7
Industrial nurses.....	8.5	8.8	7.3	7.0	11.0	7.7
Unskilled plant workers.....	4.8	6.0	14.4	7.1	8.7	12.9

See footnotes at end of tables.

**Table A-8. Average pay relationships within establishments for white-collar occupations,
Los Angeles—Long Beach, Calif., October 1979**

Occupation which equals 100	Office clerical occupation being compared—																							
	Secretaries				Stenographers		Transcribing-machine typists	Typists		File clerks			Messengers	Switch-board operators	Switch-board operators-receptionists	Order clerks		Accounting clerks		Billing-machine billers	Payroll clerks	Key entry operators		
	Class A	Class B	Class C	Class D	Class E	Senior		General	Class A	Class B	Class A	Class B				Class C	Class A	Class B	Class A			Class B	Class A	Class B
SECRETARIES, CLASS A.....	100																							
SECRETARIES, CLASS B.....	114	100																						
SECRETARIES, CLASS C.....	130	116	100																					
SECRETARIES, CLASS D.....	143	128	113	100																				
SECRETARIES, CLASS E.....	153	141	124	114	100																			
STENOGRAPHERS, SENIOR.....	130	120	114	107	101	100																		
STENOGRAPHERS, GENERAL.....	147	140	130	121	110	113	100																	
TRANSCRIBING-MACHINE TYPISTS.....	152	137	122	120	106	104	(6)	100																
TYPISTS, CLASS A.....	153	144	131	122	113	115	99	109	100															
TYPISTS, CLASS B.....	170	157	144	138	126	127	107	117	116	100														
FILE CLERKS, CLASS A.....	149	144	128	107	112	103	90	110	96	100														
FILE CLERKS, CLASS B.....	179	169	151	131	121	116	114	125	117	105	117	100												
FILE CLERKS, CLASS C.....	188	169	156	157	142	135	114	139	129	115	125	113	100											
MESSENGERS.....	184	166	153	144	138	144	120	124	126	105	137	112	94	100										
SWITCHBOARD OPERATORS.....	155	139	128	116	110	108	98	110	100	91	109	93	85	87	100									
SWITCHBOARD OPERATOR-RECEPTIONISTS.....	147	147	128	126	111	124	99	111	112	95	108	83	77	87	104	100								
ORDER CLERKS, CLASS A.....	122	112	100	104	(6)	(6)	(6)	(6)	83	(6)	(6)	(6)	68	(6)	(6)	87	100							
ORDER CLERKS, CLASS B.....	139	131	132	120	95	125	105	116	96	94	(6)	(6)	(6)	(6)	93	129	100							
ACCOUNTING CLERKS, CLASS A.....	138	127	115	105	98	106	96	90	90	81	90	76	70	76	87	87	94	88	100					
ACCOUNTING CLERKS, CLASS B.....	155	146	135	122	114	125	109	107	103	95	107	90	84	88	98	100	113	105	117	100				
BILLING-MACHINE BILLERS.....	(6)	154	105	100	(6)	(6)	(6)	(6)	79	(6)	91	(6)	(6)	(6)	101	(6)	(6)	135	98	100	100			
PAYROLL CLERKS.....	133	125	112	101	92	99	94	90	92	77	96	80	73	72	83	87	112	93	98	88	90			
KEY ENTRY OPERATORS, CLASS A.....	136	128	112	105	98	102	91	90	91	77	94	80	71	70	89	87	96	93	103	89	(6)	100	100	
KEY ENTRY OPERATORS, CLASS B.....	154	140	124	115	107	115	99	102	105	86	106	88	76	81	96	101	120	101	111	97	(6)	115	100	
Professional and technical occupation being compared—																								
	Computer systems analysts (business)			Computer programmers (business)			Computer operators			Computer data librarians	Drafters			Electronics technicians			Registered industrial nurses							
	Class A	Class B	Class C	Class A	Class B	Class C	Class A	Class B	Class C		Class A	Class B	Class C	Class A	Class B	Class C								
COMPUTER SYSTEMS ANALYSTS (BUSINESS), CLASS A.....	100																							
COMPUTER SYSTEMS ANALYSTS (BUSINESS), CLASS B.....	121	100																						
COMPUTER SYSTEMS ANALYSTS (BUSINESS), CLASS C.....	151	122	100																					
COMPUTER PROGRAMMERS (BUSINESS), CLASS A.....	118	102	69	100																				
COMPUTER PROGRAMMERS (BUSINESS), CLASS B.....	141	121	91	123	100																			
COMPUTER PROGRAMMERS (BUSINESS), CLASS C.....	170	144	110	144	124	100																		
COMPUTER OPERATORS, CLASS A.....	161	135	106	141	121	99	100																	
COMPUTER OPERATORS, CLASS B.....	189	155	120	167	139	111	117	100																
COMPUTER OPERATORS, CLASS C.....	238	200	153	209	165	137	145	123	100															
COMPUTER DATA LIBRARIANS.....	209	173	132	183	152	125	133	116	100	100														
DRAFTERS, CLASS A.....	150	127	101	127	99	89	93	82	69	85	100													
DRAFTERS, CLASS B.....	169	146	120	152	120	114	104	102	84	(6)	122	100												
DRAFTERS, CLASS C.....	195	164	137	174	152	124	132	112	101	113	161	132	100											
ELECTRONICS TECHNICIANS, CLASS A.....	132	109	92	119	98	83	86	68	61	66	93	80	67	100										
ELECTRONICS TECHNICIANS, CLASS B.....	161	139	105	141	116	101	255	230	80	86	110	96	77	128	100									
ELECTRONICS TECHNICIANS, CLASS C.....	195	164	(6)	181	142	117	122	106	94	106	134	115	91	157	121	100								
REGISTERED INDUSTRIAL NURSES.....	158	128	105	128	114	103	102	91	86		88	102	88	76	95	(6)	78							100

See note under table A-9 and footnote at end of tables.

**Table A-9. Average pay relationships within establishments for blue-collar occupations,
Los Angeles—Long Beach, Calif., October 1979**

Occupation which equals 100	Maintenance, toolroom, and powerplant occupation being compared—														
	Carpenters	Electricians	Painters	Machinists	Mechanics		Sheet-metal workers	Trades helpers	Machine-tool Operators (toolroom)	Tool and die makers	Stationary engineers				
					Machinery	Motor vehicles									
MAINTENANCE CARPENTERS.....	100														
MAINTENANCE ELECTRICIANS.....	93	100													
MAINTENANCE PAINTERS.....	103	114	100												
MAINTENANCE MACHINISTS.....	92	102	88	100											
MAINTENANCE MECHANICS (MACHINERY).....	97	107	91	108	100										
MAINTENANCE MECHANICS (MOTOR VEHICLES).....	99	110	99	107	100	100									
MAINTENANCE SHEET-METAL WORKERS.....	100	108	97	108	100	98	100								
MAINTENANCE TRADES HELPERS.....	130	139	129	137	141	135	122	100							
MACHINE-TOOL OPERATORS (TOOL ROOM).....	95	104	91	102	95	94	97	82	100						
TOOL AND DIE MAKERS.....	92	100	88	97	90	94	93	72	97	100					
STATIONARY ENGINEERS.....	97	102	94	107	98	97	97	76	104	105		100			
	Material movement and custodial occupation being compared—														
	Truckdrivers				Shippers	Receivers	Shippers and receivers	Warehousemen	Order fillers	Shipping packers	Material handling laborers	Forklift operators	Guards		Janitors, porters, and cleaners
	Light truck	Medium truck	Heavy truck	Tractor-trailer									Class A	Class B	
TRUCKDRIVERS, LIGHT TRUCK.....	100														
TRUCKDRIVERS, MEDIUM TRUCK.....	80	100													
TRUCKDRIVERS, HEAVY TRUCK.....	(6)	(6)	100												
TRUCKDRIVERS, TRACTOR-TRAILER.....	(6)	97	98	100											
SHIPPERS.....	(6)	108	(6)	123	100										
RECEIVERS.....	82	112	(6)	108	107	100									
SHIPPERS AND RECEIVERS.....	100	105	(6)	(6)	(6)	100									
WAREHOUSEMEN.....	107	105	106	112	105	104	105	100							
ORDER FILLERS.....	94	125	(6)	(6)	107	134	121	106	100						
SHIPPING PACKERS.....	94	141	(6)	133	128	121	120	122	96	100					
MATERIAL HANDLING LABORERS.....	125	121	106	112	123	118	(6)	114	(6)	93	100				
FORKLIFT OPERATORS.....	95	110	105	109	102	102	108	100	79	81	90	100			
GUARDS, CLASS A.....	97	115	(6)	(6)	(6)	95	94	98	(6)	91	90	101	100		
GUARDS, CLASS B.....	109	(6)	126	(6)	118	109	120	103	(6)	99	86	111	113	100	
JANITORS, PORTERS, AND CLEANERS.....	117	131	140	152	124	127	129	139	103	101	102	131	128	115	100

See footnote at end of tables.

NOTE: Tables A-8 and A-9 present the average pay relationship between pairs of occupations within establishments. For example, a value of 122 indicates that earnings for the occupation directly above in the heading are 22 percent greater than earnings for the occupation directly to the left in the stub. Similarly, a value of 85 indicates earnings for the occupation in the heading are 15 percent below earnings for the occupation in the stub.

See appendix A for method of computation.

Earnings: Large establishments

Table A-10. Weekly earnings of office workers, large establishments, Los Angeles—Long Beach, Calif., October 1979

Occupation and industry division	Number of workers	Average weekly hours ¹ (standard)	Weekly earnings ¹ (standard)			NUMBER OF WORKERS RECEIVING STRAIGHT-TIME WEEKLY EARNINGS (IN DOLLARS) OF--																				
			Mean ²	Median ²	Middle range ²	110 AND UNDER	120	140	160	180	200	220	240	260	280	300	320	340	360	380	400	420	440	460	480	500
						120	140	160	180	200	220	240	260	280	300	320	340	360	380	400	420	440	460	480	500	520
SECRETARIES.....	17,791	39.5	\$271.50	\$265.00	\$220.00-\$318.50	-	-	152	521	1467	2261	1907	2071	1963	1729	1451	1398	1354	837	274	177	157	52	17	2	1
MANUFACTURING.....	7,348	39.5	281.00	279.00	240.00-320.00	-	-	2	26	352	622	792	926	983	1029	769	726	637	288	96	55	54	13	7	-	1
NONMANUFACTURING.....	10,443	39.5	264.50	253.00	210.00-318.50	-	-	150	495	1115	1639	1115	1145	980	700	682	672	747	549	178	122	103	39	10	2	-
PUBLIC UTILITIES.....	1,154	39.0	294.50	299.50	245.00-331.00	-	-	-	1	35	102	127	82	105	128	244	104	97	41	50	20	13	3	-	2	-
SECRETARIES, CLASS A.....	520	39.5	336.50	333.00	298.50-367.50	-	-	-	-	17	5	25	33	51	80	67	63	75	22	31	29	17	2	2	1	-
MANUFACTURING.....	286	40.0	351.50	353.00	330.00-373.00	-	-	-	-	13	-	1	9	8	24	46	62	59	12	20	18	11	2	-	1	-
NONMANUFACTURING.....	234	39.0	318.50	311.50	280.50-338.00	-	-	-	-	4	5	24	24	43	56	21	1	16	10	11	11	6	-	2	-	-
PUBLIC UTILITIES.....	61	37.5	331.00	315.00	264.00-393.50	-	-	-	-	2	2	10	4	6	9	3	1	4	7	4	4	3	-	2	-	-
SECRETARIES, CLASS B.....	2,639	39.5	305.50	300.00	266.50-342.00	-	-	-	35	117	175	229	312	435	388	263	238	187	107	56	70	12	15	-	-	-
MANUFACTURING.....	1,608	39.5	313.00	310.00	285.00-343.50	-	-	-	17	26	54	74	166	299	322	212	186	146	44	31	24	2	5	-	-	-
NONMANUFACTURING.....	1,031	39.0	293.50	276.00	244.00-333.50	-	-	-	18	91	121	155	146	136	66	51	52	41	63	25	46	10	10	-	-	-
PUBLIC UTILITIES.....	229	38.0	308.00	309.50	258.00-364.00	-	-	-	1	9	31	22	12	38	16	18	23	23	28	3	5	-	-	-	-	-
SECRETARIES, CLASS C.....	5,618	39.5	273.00	268.00	234.00-306.50	-	-	1	72	301	615	602	826	914	713	435	415	441	82	110	47	34	10	-	-	-
MANUFACTURING.....	3,198	39.0	279.50	278.00	243.00-318.50	-	-	11	101	295	307	402	508	535	276	325	326	65	31	4	12	-	-	-	-	-
NONMANUFACTURING.....	2,420	39.5	264.00	255.50	223.00-290.50	-	-	1	61	200	320	295	424	406	178	159	90	115	17	79	43	22	10	-	-	-
PUBLIC UTILITIES.....	369	40.0	299.50	298.50	256.50-345.50	-	-	-	-	2	18	47	27	50	41	47	36	73	12	11	3	2	-	-	-	-
SECRETARIES, CLASS D.....	5,175	39.5	253.50	244.50	211.50-289.00	-	-	29	184	450	909	857	817	499	316	329	407	253	87	23	11	4	-	-	-	-
MANUFACTURING.....	1,693	40.0	259.00	254.50	230.00-285.00	-	-	-	8	67	185	330	367	261	168	134	127	19	18	9	-	-	-	-	-	-
NONMANUFACTURING.....	3,482	39.5	251.00	237.00	206.50-297.00	-	-	29	176	383	724	527	450	238	148	195	280	234	69	14	11	4	-	-	-	-
PUBLIC UTILITIES.....	381	39.0	273.50	273.50	216.00-318.50	-	-	-	-	28	72	47	19	35	13	118	35	-	2	2	8	2	-	-	-	-
SECRETARIES, CLASS E.....	2,273	39.0	215.50	204.00	184.00-230.00	-	-	122	258	658	550	234	113	44	73	101	82	30	3	2	3	-	-	-	-	-
NONMANUFACTURING.....	1,710	39.5	211.00	199.50	184.00-218.50	-	-	120	251	491	447	133	31	5	54	88	66	16	3	2	3	-	-	-	-	-
STENOGRAPHERS.....	1,067	39.5	256.50	257.00	215.50-302.00	-	-	1	12	86	80	115	157	101	107	130	143	119	16	-	-	-	-	-	-	-
MANUFACTURING.....	497	40.0	279.00	284.00	240.00-312.00	-	-	-	-	3	7	56	48	63	54	59	121	86	-	-	-	-	-	-	-	-
NONMANUFACTURING.....	570	39.0	236.50	232.00	189.00-278.00	-	-	1	12	83	73	59	109	38	53	71	22	35	16	-	-	-	-	-	-	-
PUBLIC UTILITIES.....	237	39.5	272.00	277.50	234.00-293.50	-	-	-	-	6	1	14	47	24	37	57	8	27	18	-	-	-	-	-	-	-
STENOGRAPHERS, SENIOR.....	595	39.5	264.50	272.00	220.50-312.00	-	-	-	-	43	54	51	72	54	58	59	101	103	-	-	-	-	-	-	-	-
MANUFACTURING.....	354	40.0	291.50	297.00	265.50-316.50	-	-	-	-	-	3	17	20	42	45	56	87	84	-	-	-	-	-	-	-	-
NONMANUFACTURING.....	241	38.5	224.50	215.50	185.00-243.00	-	-	-	-	43	51	34	52	12	13	3	14	19	-	-	-	-	-	-	-	-
STENOGRAPHERS, GENERAL.....	472	39.5	246.00	240.00	211.00-291.00	-	-	1	12	43	26	64	85	47	49	71	42	16	16	-	-	-	-	-	-	-
MANUFACTURING.....	143	39.5	247.00	235.50	212.00-297.00	-	-	-	-	3	4	39	28	21	9	3	34	2	-	-	-	-	-	-	-	-
NONMANUFACTURING.....	329	39.5	245.50	240.50	204.00-291.00	-	-	1	12	40	22	25	57	26	40	68	8	14	16	-	-	-	-	-	-	-
PUBLIC UTILITIES.....	213	39.5	267.00	266.50	234.00-293.50	-	-	-	-	6	1	14	47	24	37	54	-	14	18	-	-	-	-	-	-	-
TRANSCRIBING-MACHINE TYPISTS.....	255	39.0	210.50	209.00	171.50-220.00	-	-	-	36	47	24	55	47	6	16	6	6	12	-	-	-	-	-	-	-	-
TYPISTS.....	1,992	39.5	201.00	185.00	160.00-224.00	-	-	102	388	456	267	236	145	64	58	100	102	68	4	1	-	1	-	-	-	-
MANUFACTURING.....	730	40.0	242.50	232.50	198.00-296.50	-	-	-	1	55	129	100	134	62	32	68	89	58	-	1	-	1	-	-	-	-
NONMANUFACTURING.....	1,262	39.0	176.50	165.50	153.00-187.50	-	-	102	387	401	138	136	11	2	26	32	13	10	4	-	-	-	-	-	-	-
PUBLIC UTILITIES.....	51	40.0	214.50	201.00	194.00-240.00	-	-	-	3	4	6	23	2	2	6	5	-	-	-	-	-	-	-	-	-	-

See footnotes at end of tables.

Table A-10. Weekly earnings of office workers, large establishments, Los Angeles—Long Beach, Calif., October 1979—Continued

Occupation and industry division	Number of workers	Average weekly hours ¹ (standard)	Weekly earnings ¹ (standard)			NUMBER OF WORKERS RECEIVING STRAIGHT-TIME WEEKLY EARNINGS (IN DOLLARS) OF--																				
			Mean ²	Median ²	Middle range ²	110 AND UNDER 120	120	140	160	180	200	220	240	260	280	300	320	340	360	380	400	420	440	460	480	500
							140	160	180	200	220	240	260	280	300	320	340	360	380	400	420	440	460	480	500	520
TYPISTS--CONTINUED																										
TYPISTS, CLASS A.....	731	39.0	\$217.00	\$194.50	\$176.00-\$244.00	-	6	37	195	146	114	44	31	18	25	43	66	4	1	-	1	-	-	-	-	
MANUFACTURING.....	311	39.5	251.50	239.50	201.50-311.50	-	-	-	12	65	46	35	30	17	18	30	56	-	1	-	1	-	-	-	-	
NONMANUFACTURING.....	420	38.5	191.50	179.00	167.00-202.00	-	6	37	183	81	68	9	1	1	7	13	10	4	-	-	-	-	-	-	-	
TYPISTS, CLASS B.....	1,216	39.5	188.00	167.50	153.00-218.00	-	96	351	261	121	122	101	33	20	50	59	2	-	-	-	-	-	-	-	-	
MANUFACTURING.....	419	40.0	236.00	232.50	198.00-287.00	-	-	1	43	64	54	99	32	15	50	59	2	-	-	-	-	-	-	-	-	
NONMANUFACTURING.....	797	39.0	163.00	159.50	148.50-168.00	-	96	350	218	57	68	2	1	5	-	-	-	-	-	-	-	-	-	-	-	
FILE CLERKS.....	1,294	38.5	188.00	163.00	142.00-220.50	144	95	330	232	110	52	49	81	24	47	45	31	48	2	-	4	-	-	-	-	
MANUFACTURING.....	331	39.5	223.50	220.50	182.00-248.50	-	-	17	46	63	29	35	74	17	30	14	4	2	-	-	-	-	-	-	-	
NONMANUFACTURING.....	963	38.5	175.50	153.00	140.30-178.00	144	95	313	186	47	23	14	7	7	17	31	27	46	2	-	4	-	-	-	-	
PUBLIC UTILITIES.....	84	40.0	262.50	293.50	159.00-332.00	-	-	21	6	1	3	-	3	3	9	11	16	5	2	-	4	-	-	-	-	
FILE CLERKS, CLASS A.....	165	39.0	257.00	221.00	194.00-344.50	-	-	8	15	36	22	14	-	-	-	14	4	46	2	-	4	-	-	-	-	
NONMANUFACTURING.....	150	38.5	251.50	204.00	192.00-344.50	-	-	8	15	36	20	14	-	-	-	7	-	44	2	-	4	-	-	-	-	
FILE CLERKS, CLASS B.....	516	38.5	201.00	172.50	159.00-243.00	-	19	113	159	36	8	12	75	17	33	15	27	2	-	-	-	-	-	-	-	
NONMANUFACTURING.....	365	38.5	185.50	163.00	153.00-178.00	-	19	113	159	10	2	-	1	-	17	15	27	2	-	-	-	-	-	-	-	
FILE CLERKS, CLASS C.....	613	39.0	158.00	142.00	124.50-171.00	144	76	209	58	38	22	23	6	7	14	16	-	-	-	-	-	-	-	-	-	
NONMANUFACTURING.....	448	38.5	142.00	142.00	118.50-148.50	144	76	192	12	1	1	-	6	7	-	9	-	-	-	-	-	-	-	-	-	
MESSENGERS.....	757	39.0	181.50	172.00	144.50-217.50	28	111	187	82	86	84	103	49	10	1	16	-	-	-	-	-	-	-	-	-	
MANUFACTURING.....	223	38.5	183.50	181.00	145.00-212.50	-	44	42	21	36	34	13	24	8	1	-	-	-	-	-	-	-	-	-	-	
NONMANUFACTURING.....	534	39.5	181.00	167.00	142.50-217.50	28	67	145	61	50	50	90	25	2	-	16	-	-	-	-	-	-	-	-	-	
SWITCHBOARD OPERATORS.....	1,191	38.5	217.50	194.50	170.00-267.50	5	75	115	330	93	91	41	94	80	82	82	102	-	1	-	-	-	-	-	-	
MANUFACTURING.....	282	39.5	239.00	245.00	208.00-267.50	-	-	4	43	21	42	24	45	67	18	3	17	-	1	-	-	-	-	-	-	
NONMANUFACTURING.....	909	38.0	210.50	176.00	164.50-280.00	5	75	114	287	72	49	17	49	13	64	79	85	-	-	-	-	-	-	-	-	
PUBLIC UTILITIES.....	63	38.5	265.50	280.00	224.00-318.00	-	-	-	2	6	6	9	-	2	18	23	-	-	-	-	-	-	-	-	-	
SWITCHBOARD OPERATOR-RECEPTIONISTS.....	398	38.5	188.00	172.50	150.00-196.00	-	40	112	74	76	23	8	2	16	24	8	7	2	-	6	-	-	-	-	-	
MANUFACTURING.....	114	39.0	213.50	188.00	175.00-214.00	-	-	12	20	44	10	-	-	15	2	-	3	2	-	6	-	-	-	-	-	
NONMANUFACTURING.....	284	38.0	177.50	161.00	142.50-184.00	-	40	100	54	32	13	8	2	1	22	8	4	-	-	-	-	-	-	-	-	
ORDER CLERKS.....	479	39.5	207.50	198.00	170.00-254.00	12	12	75	30	120	82	20	13	63	40	6	6	-	-	-	-	-	-	-	-	
MANUFACTURING.....	314	39.5	226.50	207.00	188.50-273.50	-	-	12	30	99	25	20	13	63	40	6	6	-	-	-	-	-	-	-	-	
ACCOUNTING CLERKS.....	4,539	39.5	237.00	217.50	185.00-286.50	-	70	208	594	759	688	462	277	210	357	278	222	216	175	19	9	-	-	-	-	
MANUFACTURING.....	1,555	39.5	232.50	215.00	189.50-266.50	-	-	4	196	351	256	162	166	91	147	53	43	53	8	19	9	-	-	-	-	
NONMANUFACTURING.....	2,984	39.5	239.50	218.00	184.00-296.50	-	70	204	398	408	432	300	111	119	205	228	179	163	167	-	-	-	-	-	-	
PUBLIC UTILITIES.....	509	40.0	254.00	254.50	216.50-291.00	-	-	-	25	27	95	92	25	27	137	54	21	6	-	-	-	-	-	-	-	
ACCOUNTING CLERKS, CLASS A.....	2,113	39.5	245.00	228.00	195.50-288.00	-	9	58	152	380	384	280	187	78	95	159	63	79	165	13	9	-	-	-	-	
MANUFACTURING.....	861	39.5	246.50	233.00	200.00-288.00	-	-	-	26	185	154	99	114	46	72	41	43	51	8	13	9	-	-	-	-	
NONMANUFACTURING.....	1,252	39.5	244.00	221.00	191.50-302.50	-	9	58	126	195	232	181	73	32	23	118	20	28	157	-	-	-	-	-	-	
PUBLIC UTILITIES.....	152	39.5	283.50	299.50	254.00-318.50	-	-	-	-	3	11	13	21	15	14	54	15	6	-	-	-	-	-	-	-	

See footnotes at end of tables.

Table A-10. Weekly earnings of office workers, large establishments, Los Angeles—Long Beach, Calif., October 1979—Continued

Occupation and industry division	Number of workers	Average weekly hours ¹ (standard)	Weekly earnings ¹ (standard)			NUMBER OF WORKERS RECEIVING STRAIGHT-TIME WEEKLY EARNINGS (IN DOLLARS) OF--																					
			Mean ²	Median ²	Middle range ²	110	120	140	160	180	200	220	240	260	280	300	320	340	360	380	400	420	440	460	480	500	
						AND	120	160	180	200	220	240	260	280	300	320	340	360	380	400	420	440	460	480	500	520	
ACCOUNTING CLERKS--CONTINUED																											
ACCOUNTING CLERKS, CLASS R.....	2,351	39.5	\$227.50	\$208.00	\$176.00-\$283.50	-	61	150	442	379	302	182	90	122	247	104	129	127	10	6	-	-	-	-	-	-	
MANUFACTURING.....	694	39.5	214.50	200.00	178.50- 240.00	-	-	4	170	166	102	63	52	45	75	9	-	2	-	4	-	-	-	-	-	-	
NONMANUFACTURING.....	1,657	39.5	233.00	215.50	175.00- 291.00	-	61	146	272	213	200	119	38	77	172	95	129	125	10	-	-	-	-	-	-	-	
PUBLIC UTILITIES.....	357	40.0	241.50	225.00	215.00- 291.00	-	-	-	25	24	84	79	4	12	123	-	6	-	-	-	-	-	-	-	-	-	
PAYROLL CLERKS.....																											
PAYROLL CLERKS.....	757	39.5	249.50	240.00	198.00- 296.00	-	6	37	74	94	118	49	74	43	77	52	19	58	36	10	10	-	-	-	-	-	
MANUFACTURING.....	275	39.5	241.50	229.00	207.00- 284.50	-	-	13	39	8	61	30	16	21	46	13	3	21	4	-	-	-	-	-	-	-	
NONMANUFACTURING.....	482	39.5	254.50	241.00	195.50- 317.50	-	6	24	35	86	57	19	58	22	31	39	16	37	32	10	10	-	-	-	-	-	
PUBLIC UTILITIES.....	79	39.5	270.50	273.50	231.50- 313.50	-	-	-	-	-	15	7	15	5	14	13	9	1	-	-	-	-	-	-	-	-	
KEY ENTRY OPERATORS.....																											
KEY ENTRY OPERATORS.....	3,247	39.5	238.00	228.00	204.00- 282.50	9	14	77	242	357	572	663	325	159	413	229	139	19	25	4	-	-	-	-	-	-	
MANUFACTURING.....	1,129	39.5	240.00	227.50	206.00- 279.50	-	-	5	63	136	265	236	88	54	120	44	50	19	25	4	-	-	-	-	-	-	
NONMANUFACTURING.....	2,118	39.5	237.00	228.00	202.50- 286.00	9	14	72	179	221	307	427	237	105	293	165	89	-	-	-	-	-	-	-	-	-	
PUBLIC UTILITIES.....	491	40.0	259.50	250.00	228.00- 299.50	-	-	-	13	23	24	112	91	50	127	5	46	-	-	-	-	-	-	-	-	-	
KEY ENTRY OPERATORS, CLASS A.....																											
KEY ENTRY OPERATORS, CLASS A.....	1,214	39.0	247.50	231.00	210.00- 286.50	-	-	-	31	97	295	292	110	36	89	134	84	19	19	4	-	-	-	-	-	-	
MANUFACTURING.....	625	39.5	255.50	240.00	213.50- 299.00	-	-	-	1	25	162	153	50	26	53	63	50	19	19	4	-	-	-	-	-	-	
NONMANUFACTURING.....	589	39.0	239.50	226.00	205.00- 269.00	-	-	-	30	72	133	139	60	10	36	71	38	-	-	-	-	-	-	-	-	-	
PUBLIC UTILITIES.....	60	39.5	243.00	229.00	224.00- 273.00	-	-	-	-	4	5	29	6	1	10	5	-	-	-	-	-	-	-	-	-	-	
KEY ENTRY OPERATORS, CLASS R.....																											
KEY ENTRY OPERATORS, CLASS R.....	1,888	39.5	227.50	225.00	190.00- 258.00	9	14	77	211	260	277	371	215	93	259	50	46	-	6	-	-	-	-	-	-	-	
MANUFACTURING.....	594	39.0	221.50	214.00	188.00- 245.00	-	-	-	5	62	111	103	83	38	28	47	1	-	6	-	-	-	-	-	-	-	
NONMANUFACTURING.....	1,384	39.5	230.00	228.00	191.50- 260.00	9	14	72	149	149	174	288	177	65	192	49	46	-	-	-	-	-	-	-	-	-	
PUBLIC UTILITIES.....	431	40.0	262.00	254.50	228.00- 299.50	-	-	-	13	19	19	83	85	49	117	-	46	-	-	-	-	-	-	-	-	-	

See footnotes at end of tables.

Table A-11. Weekly earnings of professional and technical workers, large establishments, Los Angeles—Long Beach, Calif., October 1979

Occupation and industry division	Number of workers	Average weekly hours ¹ (standard)	Weekly earnings ¹ (standard)			NUMBER OF WORKERS RECEIVING STRAIGHT-TIME WEEKLY EARNINGS (IN DOLLARS) OF--																				
			Mean ²	Median ²	Middle range ²	140	160	180	200	220	240	260	280	300	320	340	340	380	420	460	500	540	580	620	660	700
						AND UNDER																				
COMPUTER SYSTEMS ANALYSTS (BUSINESS)	2,013	39.5	\$453.00	\$451.00	\$393.00-\$511.00	-	-	-	-	2	6	3	41	41	91	234	300	332	361	273	210	81	27	9	2	
MANUFACTURING.....	791	39.5	469.00	469.00	404.00-530.00	-	-	-	-	-	1	-	11	17	29	86	88	126	135	130	80	53	25	8	2	
NONMANUFACTURING.....	1,222	39.5	442.50	439.00	388.50-499.50	-	-	-	2	5	3	30	24	62	148	212	206	226	143	139	28	2	1	-	-	
PUBLIC UTILITIES.....	213	40.0	448.00	425.50	394.00-524.00	-	-	-	-	-	-	2	-	22	20	51	36	14	28	31	8	-	1	-	-	
COMPUTER SYSTEMS ANALYSTS (BUSINESS), CLASS A	983	39.5	495.00	491.50	442.50-548.50	-	-	-	-	-	-	-	1	5	33	79	198	235	152	171	71	27	9	2		
MANUFACTURING.....	397	39.5	527.50	527.00	479.50-570.00	-	-	-	-	-	-	-	-	-	5	10	45	78	89	75	53	25	8	2		
NONMANUFACTURING.....	593	39.5	473.00	465.00	432.50-514.50	-	-	-	-	-	-	-	1	5	28	69	153	157	63	96	18	2	1	-	-	
COMPUTER SYSTEMS ANALYSTS (BUSINESS), CLASS B	713	39.5	428.50	420.00	383.00-484.00	-	-	-	-	-	-	9	8	20	131	194	119	112	91	29	-	-	-	-	-	
MANUFACTURING.....	281	40.0	436.50	424.00	400.00-478.00	-	-	-	-	-	-	1	1	-	47	67	66	53	41	5	-	-	-	-	-	
NONMANUFACTURING.....	432	39.5	423.50	412.50	375.00-484.50	-	-	-	-	-	-	8	7	20	84	127	53	59	50	28	-	-	-	-	-	
PUBLIC UTILITIES.....	81	40.0	429.00	420.00	407.50-439.50	-	-	-	-	-	-	2	-	-	2	38	24	9	2	4	-	-	-	-	-	
COMPUTER SYSTEMS ANALYSTS (BUSINESS), CLASS C	251	39.5	340.50	335.50	316.00-368.00	-	-	-	-	2	6	3	32	32	66	70	27	9	4	-	-	-	-	-	-	
COMPUTER PROGRAMMERS (BUSINESS)	1,664	39.0	372.00	374.00	322.50-413.50	-	-	-	27	28	54	108	64	115	148	380	370	184	112	41	29	6	-	-	-	
MANUFACTURING.....	886	38.5	382.00	377.50	332.00-410.50	-	-	-	-	12	20	68	13	51	82	216	232	58	72	31	27	4	-	-	-	
NONMANUFACTURING.....	780	39.5	360.50	361.50	306.50-416.00	-	-	-	27	16	34	40	51	64	66	164	138	126	40	10	2	2	-	-	-	
COMPUTER PROGRAMMERS (BUSINESS), CLASS A	693	39.0	424.50	410.50	391.00-456.00	-	-	-	-	-	-	-	-	13	34	96	241	141	93	40	29	6	-	-	-	
MANUFACTURING.....	392	39.0	435.00	410.50	394.00-479.50	-	-	-	-	-	-	-	-	7	12	40	152	52	68	30	27	4	-	-	-	
NONMANUFACTURING.....	301	39.5	410.50	407.00	377.50-441.00	-	-	-	-	-	-	-	-	6	22	56	89	89	25	10	2	2	-	-	-	
COMPUTER PROGRAMMERS (BUSINESS), CLASS B	505	39.0	345.50	352.00	322.00-376.00	-	-	-	16	11	11	17	18	51	68	217	83	8	4	1	-	-	-	-	-	
MANUFACTURING.....	292	38.5	367.50	366.00	347.00-391.00	-	-	-	-	3	1	5	2	15	32	145	78	6	4	1	-	-	-	-	-	
NONMANUFACTURING.....	213	39.5	315.00	328.50	287.50-345.50	-	-	-	16	8	10	12	16	36	36	72	5	2	-	-	-	-	-	-	-	
COMPUTER PROGRAMMERS (BUSINESS), CLASS C	352	39.0	297.50	294.00	276.00-326.00	-	-	-	11	17	35	91	38	51	46	57	6	-	-	-	-	-	-	-	-	
MANUFACTURING.....	186	38.5	302.50	302.00	276.00-330.00	-	-	-	-	9	11	63	3	29	38	31	2	-	-	-	-	-	-	-	-	
NONMANUFACTURING.....	166	39.0	292.50	288.00	255.50-313.00	-	-	-	11	8	24	28	35	22	8	26	4	-	-	-	-	-	-	-	-	
COMPUTER OPERATORS	1,829	39.5	277.00	270.50	236.00-310.50	5	35	78	159	228	264	262	169	225	112	232	53	5	2	-	-	-	-	-	-	
MANUFACTURING.....	843	39.5	279.50	266.00	239.00-319.50	-	12	7	102	91	142	140	82	58	43	113	46	5	2	-	-	-	-	-	-	
NONMANUFACTURING.....	986	39.5	274.50	276.00	233.50-307.50	5	23	71	57	137	122	122	87	167	69	119	7	-	-	-	-	-	-	-	-	
COMPUTER OPERATORS, CLASS A	652	39.0	301.50	292.00	259.00-342.00	-	-	4	13	40	108	112	58	68	78	125	42	4	-	-	-	-	-	-	-	
MANUFACTURING.....	318	39.0	309.00	300.00	260.50-356.00	-	-	-	1	16	55	58	28	34	19	62	41	4	-	-	-	-	-	-	-	
NONMANUFACTURING.....	334	39.5	294.50	291.50	256.00-333.00	-	-	4	12	24	53	54	30	34	59	63	1	-	-	-	-	-	-	-	-	
COMPUTER OPERATORS, CLASS B	829	39.5	271.00	269.50	230.00-307.50	-	12	49	71	141	93	103	87	148	34	77	11	1	2	-	-	-	-	-	-	
MANUFACTURING.....	392	39.5	271.00	265.00	230.00-302.00	-	12	5	52	58	55	52	51	24	24	51	5	1	2	-	-	-	-	-	-	
NONMANUFACTURING.....	437	39.5	271.00	276.00	230.50-307.50	-	-	44	19	83	38	51	36	124	10	26	6	-	-	-	-	-	-	-	-	

See footnotes at end of tables.

Table A-11. Weekly earnings of professional and technical workers, large establishments, Los Angeles—Long Beach, Calif., October 1979—Continued

Occupation and industry division	Number of workers	Average weekly hour ¹ (standard)	Weekly earnings ¹ (standard)			NUMBER OF WORKERS RECEIVING STRAIGHT-TIME WEEKLY EARNINGS (IN DOLLARS) OF--																			
			Mean ²	Median ²	Middle range ²	140	160	180	200	220	240	260	280	300	320	340	380	420	460	500	540	580	620	660	700
						AND UNDER	160	180	200	220	240	260	280	300	320	340	380	420	460	500	540	580	620	660	700
COMPUTER OPERATORS--CONTINUED																									
COMPUTER OPERATORS, CLASS C.....	318	39.5	\$232.50	\$232.50	\$202.50-\$260.50	5	23	25	75	47	63	47	24	9	-	-	-	-	-	-	-	-	-	-	
MANUFACTURING.....	133	40.0	234.00	236.00	209.00- 257.50	-	-	2	49	17	32	30	3	-	-	-	-	-	-	-	-	-	-		
NONMANUFACTURING.....	185	39.0	232.00	231.50	198.00- 261.00	5	23	23	26	30	31	17	21	9	-	-	-	-	-	-	-	-	-		
COMPUTER DATA LIBRARIANS.....	131	39.0	240.00	236.50	196.50- 263.00	16	9	11	10	26	22	5	10	3	4	15	-	-	-	-	-	-	-	-	
NONMANUFACTURING.....	79	39.5	235.50	239.50	171.50- 278.00	16	9	-	5	10	14	5	9	1	10	-	-	-	-	-	-	-	-		
DRAFTERS.....	957	40.0	298.00	294.00	245.00- 340.00	-	15	33	96	80	74	94	115	135	72	126	45	39	33	-	-	-	-		
MANUFACTURING.....	816	40.0	287.00	287.00	238.00- 327.00	-	15	32	91	73	67	84	101	119	67	112	36	19	-	-	-	-	-		
NONMANUFACTURING.....	141	40.0	360.50	362.50	287.50- 428.50	-	-	1	5	7	7	10	14	16	5	14	9	20	33	-	-	-	-		
DRAFTERS, CLASS A.....	431	40.0	338.50	325.00	300.00- 362.00	-	-	-	1	8	16	19	50	105	46	100	32	21	33	-	-	-	-		
MANUFACTURING.....	359	40.0	326.00	318.50	300.00- 355.00	-	-	-	-	6	15	19	45	97	41	94	29	13	-	-	-	-	-		
NONMANUFACTURING.....	72	40.0	400.00	428.50	326.00- 464.00	-	-	-	1	2	1	-	5	8	5	6	3	8	33	-	-	-	-		
DRAFTERS, CLASS R.....	242	40.0	296.00	286.50	260.00- 319.50	-	-	-	15	11	31	55	50	20	14	21	7	18	-	-	-	-	-		
MANUFACTURING.....	192	40.0	286.00	285.00	259.00- 306.00	-	-	-	15	10	25	45	46	12	14	18	1	8	-	-	-	-	-		
DRAFTERS, CLASS C.....	237	40.0	243.50	230.50	211.00- 261.00	-	4	19	73	55	23	17	13	10	12	5	6	-	-	-	-	-	-		
MANUFACTURING.....	218	40.0	281.00	229.50	211.00- 259.00	-	4	18	69	51	23	17	8	10	12	-	6	-	-	-	-	-	-		
ELECTRONICS TECHNICIANS.....	5,063	40.0	361.50	391.00	313.00- 407.00	12	6	7	72	105	137	202	476	421	286	541	2275	412	111	-	-	-	-		
MANUFACTURING.....	2,022	40.0	322.50	323.50	283.00- 363.50	12	6	6	24	94	125	196	282	223	238	435	340	37	4	-	-	-	-		
NONMANUFACTURING.....	3,041	40.0	387.50	391.00	391.00- 413.50	-	-	1	48	11	12	6	194	198	48	106	1935	375	107	-	-	-	-		
ELECTRONICS TECHNICIANS, CLASS A.....	1,516	40.0	388.00	392.50	349.00- 433.50	-	-	-	-	10	4	48	70	130	385	368	394	111	-	-	-	-			
MANUFACTURING.....	1,001	40.0	363.00	362.00	339.50- 394.50	-	-	-	-	9	3	47	68	128	376	337	29	4	-	-	-	-			
ELECTRONICS TECHNICIANS, CLASS R.....	3,119	40.0	363.50	391.00	318.00- 407.00	-	-	-	48	7	35	118	346	333	152	153	1910	17	-	-	-	-			
MANUFACTURING.....	626	40.0	303.50	300.00	280.00- 323.50	-	-	-	-	6	33	117	155	137	108	59	3	8	-	-	-	-			
ELECTRONICS TECHNICIANS, CLASS C.....	421	40.0	251.00	250.00	231.50- 279.00	12	6	7	24	98	92	80	82	18	2	-	-	-	-	-	-	-	-		
REGISTERED INDUSTRIAL NURSES.....	299	39.5	338.00	335.50	310.00- 369.00	-	5	1	-	7	6	6	30	49	52	90	45	4	4	-	-	-	-		
MANUFACTURING.....	214	40.0	345.00	339.50	312.00- 379.00	-	-	-	-	7	3	4	20	27	46	64	35	4	4	-	-	-	-		
NONMANUFACTURING.....	85	39.0	320.00	319.50	300.50- 360.00	-	5	1	-	-	3	2	10	22	6	26	10	-	-	-	-	-	-		

See footnotes at end of tables.

Table A-12. Average weekly earnings of office, professional, and technical workers, by sex, large establishments, Los Angeles—Long Beach, Calif., October 1979

Occupation, sex, ³ and industry division	Number of workers	Average (mean ²)		Occupation, sex, ³ and industry division	Number of workers	Average (mean ²)		Occupation, sex, ³ and industry division	Number of workers	Average (mean ²)	
		Weekly hours ¹ (standard)	Weekly earnings ¹ (standard)			Weekly hours ¹ (standard)	Weekly earnings ¹ (standard)			Weekly hours ¹ (standard)	Weekly earnings ¹ (standard)
OFFICE OCCUPATIONS - MEN				OFFICE OCCUPATIONS - WOMEN--CONTINUED				OFFICE OCCUPATIONS - WOMEN--CONTINUED			
MESSENGE RS:				TYPISTS--CONTINUED				KEY ENTRY OPERATORS--CONTINUED			
MANUFACTURING.....	140	38.5	\$180.00	TYPISTS, CLASS R:				KEY ENTRY OPERATORS, CLASS A.....	1,163	39.0	\$249.00
OFFICE OCCUPATIONS - WOMEN				MANUFACTURING.....	417	40.0	\$236.00	MANUFACTURING.....	618	39.5	255.50
SECRETARIES.....	16,350	39.5	275.50	FILE CLERKS.....	1,151	38.5	187.00	NONMANUFACTURING.....	525	39.0	241.00
MANUFACTURING.....	7,340	39.5	281.00	MANUFACTURING.....	305	39.5	225.00	PUBLIC UTILITIES.....	57	39.5	243.50
NONMANUFACTURING.....	9,010	39.5	271.00	NONMANUFACTURING.....	846	38.5	173.50	KEY ENTRY OPERATORS, CLASS R:			
PUBLIC UTILITIES.....	985	40.0	303.00	PUBLIC UTILITIES.....	63	40.0	242.50	MANUFACTURING.....	499	39.0	223.50
SECRETARIES, CLASS A.....	460	39.5	344.50	FILE CLERKS, CLASS A.....	143	38.5	247.50	PROFESSIONAL AND TECHNICAL OCCUPATIONS - MEN			
MANUFACTURING.....	284	40.0	351.50	NONMANUFACTURING.....	130	38.5	243.00	COMPUTER SYSTEMS ANALYSTS (BUSINESS).....	1,452	39.5	461.00
SECRETARIES, CLASS B.....	2,337	39.5	314.00	FILE CLERKS, CLASS B.....	469	38.5	201.50	MANUFACTURING.....	628	39.5	477.00
MANUFACTURING.....	1,608	39.5	313.00	FILE CLERKS, CLASS C.....	539	39.0	158.00	NONMANUFACTURING.....	824	39.5	449.00
SECRETARIES, CLASS C.....	5,272	39.5	277.50	NONMANUFACTURING.....	393	38.5	142.00	COMPUTER SYSTEMS ANALYSTS (BUSINESS), CLASS A.....	713	39.5	501.50
MANUFACTURING.....	3,198	39.0	279.50	MESSENGE RS:				MANUFACTURING.....	320	39.5	529.00
NONMANUFACTURING.....	2,074	39.5	273.50	MANUFACTURING.....	83	39.5	189.00	COMPUTER SYSTEMS ANALYSTS (BUSINESS), CLASS B.....	538	39.5	438.50
PUBLIC UTILITIES.....	368	40.0	299.50	SWITCHBOARD OPERATORS.....	1,062	38.5	221.00	MANUFACTURING.....	234	40.0	443.50
SECRETARIES, CLASS D.....	4,818	39.5	257.00	MANUFACTURING.....	282	39.5	239.00	NONMANUFACTURING.....	304	39.5	434.50
MANUFACTURING.....	1,689	40.0	259.00	NONMANUFACTURING.....	780	38.0	214.50	COMPUTER SYSTEMS ANALYSTS (BUSINESS), CLASS C.....	160	39.5	340.00
NONMANUFACTURING.....	3,129	39.5	256.00	SWITCHBOARD OPERATOR-RECEPTIONISTS.....	378	38.5	183.00	COMPUTER PROGRAMMERS (BUSINESS).....	1,078	39.0	387.00
PUBLIC UTILITIES.....	324	39.5	281.00	MANUFACTURING.....	114	39.0	213.50	MANUFACTURING.....	566	39.0	399.50
SECRETARIES, CLASS E.....	2,158	39.0	216.50	NONMANUFACTURING.....	264	38.0	170.00	COMPUTER PROGRAMMERS (BUSINESS), CLASS A.....	493	39.0	429.00
NONMANUFACTURING.....	1,597	39.5	212.50	ORDER CLERKS.....	371	40.0	200.00	MANUFACTURING.....	300	39.0	439.00
STENOGRAPHERS.....	1,325	39.5	259.00	ACCOUNTING CLERKS.....	3,575	39.5	238.00	NONMANUFACTURING.....	193	39.5	413.50
MANUFACTURING.....	496	40.0	279.00	MANUFACTURING.....	1,398	39.5	232.00	COMPUTER PROGRAMMERS (BUSINESS), CLASS B.....	312	39.0	353.50
NONMANUFACTURING.....	529	39.0	243.00	ACCOUNTING CLERKS, CLASS A.....	1,765	39.5	245.50	MANUFACTURING.....	298	39.0	367.00
PUBLIC UTILITIES.....	228	40.0	275.50	MANUFACTURING.....	759	39.5	246.00	NONMANUFACTURING.....	148	39.5	305.50
STENOGRAPHERS, SENIOR.....	593	39.5	264.50	NONMANUFACTURING.....	1,006	39.5	245.00	COMPUTER OPERATORS:			
MANUFACTURING.....	353	40.0	291.50	PUBLIC UTILITIES.....	124	39.5	286.00	MANUFACTURING.....	629	39.0	283.00
NONMANUFACTURING.....	240	38.5	224.50	ACCOUNTING CLERKS, CLASS B.....	1,745	39.5	227.00	COMPUTER OPERATORS, CLASS A:			
STENOGRAPHERS, GENERAL.....	432	39.5	251.00	MANUFACTURING.....	639	39.5	216.00	MANUFACTURING.....	271	39.0	304.00
MANUFACTURING.....	143	39.5	247.00	PAYROLL CLERKS.....	432	39.5	244.00				
NONMANUFACTURING.....	289	39.5	253.00	MANUFACTURING.....	260	39.5	242.00				
PUBLIC UTILITIES.....	204	40.0	270.00	NONMANUFACTURING.....	372	39.5	245.50				
TRANSCRIBING-MACHINE TYPISTS.....	235	39.0	211.50	PUBLIC UTILITIES.....	67	40.0	275.00				
TYPISTS:				KEY ENTRY OPERATORS.....	2,809	39.5	238.50				
MANUFACTURING.....	720	40.0	243.00	MANUFACTURING.....	1,117	39.5	240.00				
TYPISTS, CLASS A.....	690	39.0	218.50								
MANUFACTURING.....	303	39.5	252.50								
NONMANUFACTURING.....	387	38.0	192.00								

See footnotes at end of tables.

Table A-12. Average weekly earnings of office, professional, and technical workers, by sex, large establishments, Los Angeles—Long Beach, Calif., October 1979—Continued

Occupation, sex, ³ and industry division	Number of workers	Average (mean ²)		Occupation, sex, ³ and industry division	Number of workers	Average (mean ²)		Occupation, sex, ³ and industry division	Number of workers	Average (mean ²)	
		Weekly hours ¹ (standard)	Weekly earnings ¹ (standard)			Weekly hours ¹ (standard)	Weekly earnings ¹ (standard)			Weekly hours ¹ (standard)	Weekly earnings ¹ (standard)
PROFESSIONAL AND TECHNICAL OCCUPATIONS - MEN--CONTINUED				PROFESSIONAL AND TECHNICAL OCCUPATIONS - WOMEN				PROFESSIONAL AND TECHNICAL OCCUPATIONS - WOMEN--CONTINUED			
COMPUTER OPERATORS--CONTINUED				COMPUTER SYSTEMS ANALYSTS (BUSINESS):				COMPUTER OPERATORS:			
COMPUTER OPERATORS, CLASS R: MANUFACTURING.....	391	39.0	\$267.50	MANUFACTURING.....	163	39.5	\$438.50	MANUFACTURING.....	214	40.0	\$279.00
DRAFTERS.....	808	40.0	301.00	COMPUTER SYSTEMS ANALYSTS (BUSINESS), CLASS A:				COMPUTER OPERATORS, CLASS R: MANUFACTURING.....	91	40.0	284.00
MANUFACTURING.....	692	40.0	288.00	MANUFACTURING.....	70	39.5	522.00	COMPUTER DATA LIBRARIANS.....	91	39.5	246.00
DRAFTERS, CLASS A.....	400	40.0	340.50	COMPUTER SYSTEMS ANALYSTS (BUSINESS), CLASS C.....	91	39.5	341.00	NONMANUFACTURING.....	63	39.5	242.00
MANUFACTURING.....	337	40.0	326.50	COMPUTER PROGRAMMERS (BUSINESS):				DRAFTERS.....	143	40.0	282.00
DRAFTERS, CLASS B.....	174	40.0	298.00	MANUFACTURING.....	320	38.0	351.00	MANUFACTURING.....	124	40.0	281.00
MANUFACTURING.....	173	40.0	283.00	COMPUTER PROGRAMMERS (BUSINESS), CLASS A.....	170	39.0	414.50	DRAFTERS, CLASS B.....	68	40.0	291.50
DRAFTERS, CLASS C.....	198	40.0	241.00	MANUFACTURING.....	92	38.5	422.00	MANUFACTURING.....	59	40.0	292.50
MANUFACTURING.....	186	40.0	238.50	COMPUTER PROGRAMMERS (BUSINESS), CLASS R:				ELECTRONICS TECHNICIANS:			
ELECTRONICS TECHNICIANS.....	3,926	40.0	358.50	MANUFACTURING.....	84	38.0	369.00	MANUFACTURING.....	168	40.0	290.50
MANUFACTURING.....	1,854	40.0	325.50	COMPUTER PROGRAMMERS (BUSINESS), CLASS C.....	178	38.0	297.00	ELECTRONICS TECHNICIANS, CLASS R:			
ELECTRONICS TECHNICIANS, CLASS A, MANUFACTURING.....	1,883	40.0	389.00	MANUFACTURING.....	128	38.0	298.00	MANUFACTURING.....	60	40.0	307.50
MANUFACTURING.....	975	40.0	363.00	REGISTERED INDUSTRIAL NURSES.....				MANUFACTURING.....	213	40.0	344.50
ELECTRONICS TECHNICIANS, CLASS R: MANUFACTURING.....	566	40.0	303.50	MANUFACTURING.....				NONMANUFACTURING.....	73	39.0	323.00
ELECTRONICS TECHNICIANS, CLASS C.....	315	40.0	289.50								

See footnotes at end of tables.

Table A-13. Hourly earnings of maintenance, toolroom, and powerplant workers, large establishments, Los Angeles—Long Beach, Calif., October 1979

Occupation and industry division	Number of workers	Hourly earnings ⁴			NUMBER OF WORKERS RECEIVING STRAIGHT-TIME HOURLY EARNINGS (IN DOLLARS) OF--																							
		Mean ²	Median ²	Middle range ²	4.00	4.40	4.80	5.20	5.60	6.00	6.40	6.80	7.20	7.60	8.00	8.40	8.80	9.20	9.60	10.00	10.40	10.80	11.20	11.60	12.00			
					AND UNDER	4.40	4.80	5.20	5.60	6.00	6.40	6.80	7.20	7.60	8.00	8.40	8.80	9.20	9.60	10.00	10.40	10.80	11.20	11.60	12.00	AND OVER		
MAINTENANCE CARPENTERS.....	446	\$8.97	\$9.14	\$8.47- 9.47	-	-	-	-	1	5	7	9	20	38	28	69	56	109	71	4	6	20	-	-	3			
MANUFACTURING.....	321	8.78	8.88	8.02- 9.55	-	-	-	-	1	4	6	8	17	38	28	52	40	49	62	4	4	8	-	-	-			
NONMANUFACTURING.....	125	9.45	9.47	9.14- 9.47	-	-	-	-	1	1	1	3	-	-	-	17	16	60	9	-	2	12	-	-	3			
MAINTENANCE ELECTRICIANS.....	1,229	9.94	9.88	9.27- 10.31	-	-	-	-	-	2	6	3	45	36	101	95	253	99	289	17	160	13	11	99				
MANUFACTURING.....	996	10.00	10.09	9.04- 10.31	-	-	-	-	-	1	1	3	41	36	82	94	137	85	269	-	148	-	-	99				
NONMANUFACTURING.....	233	9.69	9.36	9.27- 10.21	-	-	-	-	-	1	5	-	4	-	19	1	116	14	20	17	12	13	11	-				
PUBLIC UTILITIES.....	101	9.96	9.27	9.27- 10.89	-	-	-	-	-	-	-	-	-	-	-	1	-	55	8	8	1	10	12	6	-			
MAINTENANCE PAINTERS.....	391	8.70	9.14	8.35- 9.50	-	-	17	-	4	4	16	18	8	17	29	47	74	119	3	6	4	25	-	-	-			
MANUFACTURING.....	267	8.59	8.81	7.96- 9.26	-	-	8	-	4	4	16	16	7	15	25	38	52	49	2	4	4	23	-	-	-			
NONMANUFACTURING.....	124	8.94	9.50	8.98- 9.50	-	-	9	-	-	-	-	2	1	2	4	9	22	70	1	2	-	2	-	-	-			
MAINTENANCE MACHINISTS.....	425	9.52	9.88	8.30- 10.31	-	-	-	-	-	-	-	-	28	43	39	35	35	21	15	166	-	-	-	46	-			
MANUFACTURING.....	363	9.39	9.20	8.10- 10.38	-	-	-	-	-	-	-	-	-	28	43	39	35	35	21	10	109	-	-	46	-			
MAINTENANCE MECHANICS (MACHINERY)...	2,185	8.92	9.04	7.99- 10.07	-	-	-	1	-	99	139	33	216	67	64	228	304	259	209	481	30	7	48	-	-			
MANUFACTURING.....	1,923	8.87	8.90	7.76- 10.07	-	-	-	-	-	99	139	31	193	58	61	228	295	113	185	454	12	7	48	-	-			
MAINTENANCE MECHANICS (MOTOR VEHICLES).....	1,126	9.64	9.63	9.35- 10.23	-	-	-	-	-	7	72	4	13	7	4	68	51	252	326	80	10	70	126	32	-			
MANUFACTURING.....	274	9.43	9.40	9.04- 9.78	-	-	-	-	-	6	-	1	4	4	5	35	40	87	42	12	-	28	10	-	-			
NONMANUFACTURING.....	852	9.71	9.63	9.37- 10.23	-	-	-	-	-	1	72	3	9	3	3	33	11	165	284	68	10	42	116	32	-			
PUBLIC UTILITIES.....	653	9.67	9.63	9.37- 10.23	-	-	-	-	-	1	72	3	1	1	2	30	7	95	214	65	10	42	78	32	-			
MAINTENANCE SHEET-METAL WORKERS.....	99	9.39	9.48	9.32- 9.86	-	-	-	-	-	1	6	1	-	-	-	3	12	34	26	12	-	4	-	-	-			
MANUFACTURING.....	99	9.39	9.48	9.32- 9.86	-	-	-	-	-	1	6	1	-	-	-	3	12	34	26	12	-	4	-	-	-			
MAINTENANCE TRADES HELPERS.....	315	6.94	7.66	6.01- 7.93	49	5	5	7	6	28	11	8	33	87	60	6	2	8	-	-	-	-	-	-	-			
MANUFACTURING.....	255	6.91	7.93	5.60- 8.04	49	5	3	7	5	19	6	2	1	86	56	6	2	8	-	-	-	-	-	-	-			
TOOL AND DIE MAKERS.....	1,054	9.72	9.64	9.24- 10.27	-	-	-	-	-	-	-	1	1	36	86	23	81	231	140	254	27	165	3	-	6			
MANUFACTURING.....	1,054	9.72	9.64	9.24- 10.27	-	-	-	-	-	-	-	1	1	36	86	23	81	231	140	254	27	165	3	-	6			
STATIONARY ENGINEERS.....	410	9.65	9.73	8.97- 10.38	1	2	-	2	1	4	5	9	13	35	5	22	9	64	36	115	2	21	-	64	-			
MANUFACTURING.....	280	9.96	10.20	9.33- 11.00	-	-	-	-	-	-	-	3	4	31	3	12	6	48	32	54	2	21	-	64	-			

See footnotes at end of tables.

Table A-14. Hourly earnings of material movement and custodial workers, large establishments, Los Angeles—Long Beach, Calif., October 1979

Occupation and industry division	Number of workers	Hourly earnings ¹			NUMBER OF WORKERS RECEIVING STRAIGHT-TIME HOURLY EARNINGS (IN DOLLARS) OF--																								
		Mean ²	Median ²	Middle range ²	2.80 AND UNDER					3.40					4.00					4.60					5.20				
					3.00	3.20	3.40	3.80	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	10.20	10.60	11.00 AND OVER			
TRUCKDRIVERS.....	4,557	\$9.35	\$9.35	\$8.90-10.40	-	-	-	-	15	20	11	12	21	31	67	64	172	17	131	543	49	1431	439	332	127	897	178		
MANUFACTURING.....	1,231	8.33	8.36	8.01- 9.21	-	-	-	-	15	11	8	9	12	19	39	50	93	10	86	524	20	69	139	-	127	-			
NONMANUFACTURING.....	3,326	9.72	9.40	9.27- 10.82	-	-	-	-	-	9	3	9	12	28	14	79	7	45	19	29	1362	300	332	-	897	178			
TRUCKDRIVERS, LIGHT TRUCK:.....																													
MANUFACTURING.....	78	5.98	5.73	4.81- 6.90	-	-	-	-	3	11	8	6	12	6	7	12	-	1	9	-	3	-	-	-	-	-			
TRUCKDRIVERS, MEDIUM TRUCK.....	377	8.19	8.18	6.84- 9.50	-	-	-	-	12	9	3	-	8	9	17	20	16	11	63	11	-	3	80	-	-	45			
MANUFACTURING.....	188	8.23	8.22	8.00- 9.45	-	-	-	-	12	-	-	-	-	-	13	7	8	5	49	11	-	3	80	-	-	-			
NONMANUFACTURING.....	119	8.13	7.71	6.43- 10.82	-	-	-	-	-	9	3	-	8	9	4	13	8	6	14	-	-	-	-	-	-	45			
TRUCKDRIVERS, TRACTOR-TRAILER.....	2,656	9.20	9.35	9.13- 9.40	-	-	-	-	-	-	-	-	-	13	26	26	139	4	49	348	32	1179	330	332	-	178			
MANUFACTURING.....	527	8.19	8.16	8.08- 8.50	-	-	-	-	-	-	-	-	-	13	4	25	73	4	21	336	4	17	30	-	-	-			
NONMANUFACTURING.....	2,129	9.45	9.35	9.23- 9.40	-	-	-	-	-	-	-	-	-	-	22	1	66	-	28	12	28	1162	300	332	-	178			
PUBLIC UTILITIES.....	526	9.89	9.40	9.40- 11.27	-	-	-	-	-	-	-	-	-	-	4	1	3	-	28	12	-	-	300	-	-	*178			
SHIPPERS.....	190	6.90	6.65	5.67- 8.30	-	-	-	-	2	13	4	9	14	13	9	26	35	-	1	2	38	-	-	-	24	-			
MANUFACTURING.....	161	7.07	6.65	5.73- 8.45	-	-	-	-	12	3	9	13	6	9	15	30	-	-	2	38	-	-	-	-	24	-			
RECEIVERS.....	702	7.69	8.10	6.60- 8.50	-	-	2	9	18	5	9	69	10	17	37	15	4	8	298	46	-	103	-	-	52	-			
MANUFACTURING.....	223	7.65	8.09	5.89- 9.22	-	-	-	-	12	1	8	22	7	9	17	13	4	7	36	20	-	15	-	-	52	-			
NONMANUFACTURING.....	479	7.71	8.10	8.10- 8.10	-	-	2	9	6	4	1	47	3	8	20	2	-	1	262	26	-	88	-	-	-	-			
SHIPPERS AND RECEIVERS.....	501	7.00	7.22	5.45- 8.60	-	-	-	-	2	27	39	35	95	22	21	8	49	1	10	49	85	-	12	34	12	-			
MANUFACTURING.....	436	6.97	7.22	5.45- 8.60	-	-	-	-	2	26	13	35	95	22	16	7	48	-	3	49	84	-	12	12	12	-			
WAREHOUSEMEN.....	2,259	8.87	8.04	5.60- 8.95	-	-	48	54	95	65	219	49	57	160	110	40	25	124	210	117	418	118	276	63	-	11			
MANUFACTURING.....	1,107	6.17	6.00	4.60- 8.02	-	-	48	54	94	62	155	41	56	92	64	31	6	63	186	79	6	-	-	63	-	-			
NONMANUFACTURING.....	1,159	11.42	8.95	8.14- 9.37	-	-	-	-	1	3	64	8	1	68	46	9	19	61	24	38	412	118	276	-	-	11			
PUBLIC UTILITIES.....	434	15.89	8.14	6.29- 9.13	-	-	-	-	-	-	21	-	-	64	41	9	19	61	22	-	-	118	88	-	-	11			
SHIPPING PACKERS.....	911	4.89	4.93	4.05- 5.31	-	-	13	171	111	94	81	272	78	12	3	2	1	21	52	-	-	-	-	-	-	-			
MANUFACTURING.....	759	4.83	4.75	3.87- 5.31	-	-	10	162	110	91	81	198	19	10	2	2	1	21	52	-	-	-	-	-	-	-			
MATERIAL HANDLING LABORERS.....	1,421	6.02	6.45	4.44- 6.92	-	-	22	63	206	91	79	67	140	5	123	305	8	42	8	153	97	12	-	-	-	-			
MANUFACTURING.....	742	5.09	4.65	3.90- 6.32	-	-	6	55	204	86	71	46	85	3	90	44	6	2	8	7	17	12	-	-	-	-			
FORKLIFT OPERATORS.....	2,260	8.34	8.65	6.76- 9.13	-	-	-	-	69	14	1	2	28	74	179	202	4	23	64	417	96	605	-	134	348	-			
MANUFACTURING.....	1,284	8.05	8.58	6.67- 10.20	-	-	-	-	68	14	-	2	24	72	135	190	-	19	54	155	66	137	-	-	348	-			
GUARDS.....	4,644	5.00	4.00	3.25- 6.96	402	443	653	608	381	247	83	122	68	84	147	361	488	106	95	142	151	30	6	-	6	6	15		
MANUFACTURING.....	1,320	6.81	6.96	6.10- 7.92	-	-	7	21	138	31	24	42	27	52	120	288	129	85	79	119	107	27	6	-	6	6	6		
NONMANUFACTURING.....	3,324	4.28	3.50	3.17- 4.55	402	443	646	587	243	216	59	80	41	32	27	73	359	21	16	23	44	3	-	-	-	9			
PUBLIC UTILITIES.....	116	7.78	7.29	7.25- 8.69	-	-	-	-	-	-	-	-	-	-	-	15	57	-	2	5	37	-	-	-	-	-			
GUARDS, CLASS A.....	1,218	6.56	6.90	5.01- 7.39	-	1	3	100	120	39	32	66	44	35	61	279	144	55	58	107	10	27	6	-	6	6	15		
MANUFACTURING.....	680	7.45	7.04	6.92- 7.92	-	-	-	-	-	-	-	1	9	22	48	252	109	41	56	87	4	27	6	-	6	6	6		
GUARDS, CLASS B.....	3,400	4.41	3.50	3.20- 5.28	402	442	650	508	261	208	51	56	24	49	86	82	340	51	37	35	115	3	-	-	-	-			
MANUFACTURING.....	640	6.12	6.24	4.15- 7.70	-	-	7	21	138	31	24	41	18	30	72	36	20	44	23	32	103	-	-	-	-	-			
NONMANUFACTURING.....	2,760	4.01	3.30	3.07- 4.00	402	442	643	487	123	177	27	15	6	19	14	46	320	7	14	3	12	3	-	-	-	-			
JANITORS, PORTERS, AND CLEANERS.....	8,404	5.62	5.72	4.94- 5.85	-	319	173	709	245	301	383	635	1934	2213	112	308	28	176	530	80	152	27	48	35	-	-			
MANUFACTURING.....	1,934	6.34	6.12	4.98- 8.02	-	58	28	97	99	69	136	122	123	313	89	39	11	104	410	51	137	-	48	-	-	-			
NONMANUFACTURING.....	6,470	5.41	5.72	4.94- 5.84	-	261	145	612	146	232	247	513	1811	1900	23	269	17	72	120	29	15	27	-	35	-	-			
PUBLIC UTILITIES.....	396	7.82	7.81	6.88- 8.21	-	-	-	-	-	-	-	-	-	6	-	-	118	10	39	118	29	14	27	-	35	-	-		

* Workers were at \$11 to \$11.40.

See footnotes at end of tables.

Table A-15. Average hourly earnings of maintenance, toolroom, powerplant, material movement, and custodial workers, by sex, large establishments, Los Angeles—Long Beach, Calif., October 1979

Occupation, sex, ³ and industry division	Number of workers	Average (mean ²) hourly earnings ⁴	Occupation, sex, ³ and industry division	Number of workers	Average (mean ²) hourly earnings ⁴	Occupation, sex, ³ and industry division	Number of workers	Average (mean ²) hourly earnings ⁴
MAINTENANCE, TOOLROOM, AND POWERPLANT OCCUPATIONS - MEN			MATERIAL MOVEMENT AND CUSTODIAL OCCUPATIONS - MEN			MATERIAL MOVEMENT AND CUSTODIAL OCCUPATIONS - MEN--CONTINUED		
MAINTENANCE CARPENTERS.....	422	8.95	TRUCKDRIVERS.....	4,422	9.32	GUARDS.....	4,244	55.01
MANUFACTURING.....	321	8.78	MANUFACTURING.....	1,216	8.33	MANUFACTURING.....	1,252	6.81
			NONMANUFACTURING.....	3,206	9.70	NONMANUFACTURING.....	2,992	4.26
MAINTENANCE ELECTRICIANS.....	1,194	9.96				PUBLIC UTILITIES.....	114	7.78
MANUFACTURING.....	995	10.00	TRUCKDRIVERS, LIGHT TRUCK: MANUFACTURING.....	77	5.96	GUARDS, CLASS A.....	1,088	6.61
NONMANUFACTURING.....	199	9.78				MANUFACTURING.....	635	7.46
PUBLIC UTILITIES.....	88	9.85	TRUCKDRIVERS, MEDIUM TRUCK.....	297	8.21	GUARDS, CLASS B.....	3,130	4.43
MAINTENANCE PAINTERS.....	384	8.69	MANUFACTURING.....	186	8.21	MANUFACTURING.....	617	6.13
MANUFACTURING.....	267	8.59	TRUCKDRIVERS, TRACTOR-TRAILER.....	2,645	9.20	NONMANUFACTURING.....	2,513	4.01
NONMANUFACTURING.....	117	8.92	MANUFACTURING.....	518	8.19	JANITORS, PORTERS, AND CLEANERS.....	6,447	5.57
MAINTENANCE MACHINISTS.....	425	9.52	NONMANUFACTURING.....	2,127	9.45	MANUFACTURING.....	1,632	6.33
MANUFACTURING.....	363	9.39	PUBLIC UTILITIES.....	524	9.88	NONMANUFACTURING.....	4,815	5.32
MAINTENANCE MECHANICS (MACHINERY).....	2,185	8.92	SHIPPERS.....	152	7.06	PUBLIC UTILITIES.....	292	7.92
MANUFACTURING.....	1,923	8.87	MANUFACTURING.....	145	7.12			
MAINTENANCE MECHANICS (MOTOR VEHICLES).....	1,121	9.64	RECEIVERS: MANUFACTURING.....	208	7.76	MATERIAL MOVEMENT AND CUSTODIAL OCCUPATIONS - WOMEN		
MANUFACTURING.....	274	9.43				WAREHOUSEMEN.....	187	6.65
NONMANUFACTURING.....	847	9.71	SHIPPERS AND RECEIVERS.....	491	7.03	GUARDS: MANUFACTURING.....	68	6.86
PUBLIC UTILITIES.....	653	9.67	MANUFACTURING.....	434	6.98			
MAINTENANCE SHEET-METAL WORKERS.....	99	9.39	WAREHOUSEMEN.....	2,049	9.10	GUARDS, CLASS B.....	238	3.91
MANUFACTURING.....	99	9.39	MANUFACTURING.....	1,016	6.15	JANITORS, PORTERS, AND CLEANERS.....	1,760	5.76
MAINTENANCE TRADES HELPERS.....	301	6.93	NONMANUFACTURING.....	1,033	12.03	MANUFACTURING.....	302	6.43
MANUFACTURING.....	254	6.91	PUBLIC UTILITIES.....	331	18.71	NONMANUFACTURING.....	1,458	5.62
TOOL AND DIE MAKERS.....	1,054	9.72	MATERIAL HANDLING LABORERS: MANUFACTURING.....	460	5.46			
MANUFACTURING.....	1,054	9.72						
STATIONARY ENGINEERS.....	364	9.95	FORKLIFT OPERATORS.....	1,954	8.37			
MANUFACTURING.....	280	9.96	MANUFACTURING.....	1,276	8.06			

See footnotes at end of tables.

Footnotes

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

² The mean is computed for each job by totaling the earnings of all workers and dividing by the number of workers. The median designates position—half of the workers receive the same or more and half receive the same or less than the rate shown. The middle range is defined by two rates of pay: a fourth of the workers earn the same or less than the lower of these rates and a fourth earn the same or more than the higher rate.

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

⁴ Excludes premium pay for overtime and for work on weekends, holidays, and late shifts.

⁵ Estimates for periods ending prior to 1976 relate to men only for skilled maintenance and unskilled plant workers. All other estimates relate to men and women.

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

The following data were obtained from the records of the
 Federal Reserve Bank of St. Louis for the period
 ending June 30, 1954. The figures are in millions of
 dollars unless otherwise indicated.

The amount of deposits held by the Federal Reserve Bank
 of St. Louis for the period ending June 30, 1954, is
 \$1,000,000,000. This amount is composed of the following
 items:

Appendix A.

Scope and Method of Survey

In each of the 72¹ areas currently surveyed, the Bureau obtains wages and related benefits data from representative establishments within six broad industry divisions: Manufacturing; transportation, communication, and other public utilities; wholesale trade; retail trade; finance, insurance, and real estate; and services. Government operations and the construction and extractive industries are excluded. Establishments having fewer than a prescribed number of workers are also excluded because of insufficient employment in the occupations studied. Appendix table 1 shows the number of establishments and workers estimated to be within the scope of this survey, as well as the number actually studied.

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

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

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

Occupations and earnings

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

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

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

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

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

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.

¹ Included in the 72 areas are 2 studies conducted by the Bureau under contract. These areas are Akron, Ohio and Poughkeepsie-Kingston-Newburgh, N.Y. In addition, the Bureau conducts more limited area studies in approximately 100 areas at the request of the Employment Standards Administration of the U.S. Department of Labor.

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

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

Wage trends for selected occupational groups

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

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

Occupations used to compute wage trends are:

Office clerical

Secretaries
Stenographers, senior
Stenographers, general
Typists, classes A and B
File clerks, classes A,
B, and C
Messengers
Switchboard operators
Order clerks, classes
A and B
Accounting clerks,
classes A and B
Payroll clerks
Key entry operators,
classes A and B

Electronic data processing

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

Electronic data processing— Continued

Computer operators,
classes A, B, and C
Industrial nurses
Registered industrial
nurses
Skilled maintenance
Carpenters
Electricians
Painters
Machinists
Mechanics (machinery)
Mechanics (motor vehicle)
Pipefitters
Tool and die makers
Unskilled plant
Janitors, porters, and
cleaners
Material handling laborers

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

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.

Average pay relationships within establishments

Relative measures of occupational pay are presented in table A-8 for white-collar occupations and in table A-9 for blue-collar occupations. These relative values reflect differences in pay between occupations within individual establishments. Relative pay values are computed by dividing an establishment's average earnings for an occupation being compared by the average for another occupation (designated as 100) and multiplying the quotient by 100. For example, if janitors in a firm average \$4 an hour and forklift operators \$5, forklift operators have a relative pay value of 125 compared with janitors. ($\$5 \div \$4 = 1.25$, $\times 100 = 125$.) In combining the relatives of the individual establishments to arrive at an overall average, each establishment is considered to have as many relatives as it has weighted workers in the two jobs being compared.

Pay relationships based on overall averages may differ considerably because of the varying contribution of high- and low-wage establishments to the averages. For example, the overall average hourly earnings for forklift operators may be 50 percent more than the average for janitors because the average for forklift operators may be strongly influenced by earnings in high-wage establishments while the average for janitors may be strongly influenced by earnings in low-wage establishments. In such a case, the intra-establishment relationship will indicate a much smaller difference in earnings.

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, Los Angeles—Long Beach, Calif.,¹ October 1979

Industry division ²	Minimum employment in establishments in scope of study	Number of establishments		Workers in establishments		
		Within scope of study ³	Studied	Within scope of study ⁴		Studied
				Number	Percent	
ALL ESTABLISHMENTS						
ALL INDUSTRY DIVISIONS-----	-	4,197	323	1,523,802	100	511,027
MANUFACTURING -----	100	1,430	115	600,504	39	209,662
NONMANUFACTURING -----	-	2,767	208	923,298	61	301,365
TRANSPORTATION, COMMUNICATION, AND OTHER PUBLIC UTILITIES ⁵ -----	100	152	34	127,813	8	91,161
WHOLESALE TRADE ⁶ -----	50	752	36	105,731	7	13,263
RETAIL TRADE ⁶ -----	100	473	34	316,957	21	95,334
FINANCE, INSURANCE, AND REAL ESTATE ⁶ -----	50	481	33	141,684	9	66,038
SERVICES ^{6,7} -----	50	816	65	200,639	13	31,025
LARGE ESTABLISHMENTS						
ALL INDUSTRY DIVISIONS-----	-	503	121	890,965	100	458,523
MANUFACTURING -----	500	244	53	354,734	40	195,066
NONMANUFACTURING -----	-	259	68	536,231	60	263,457
TRANSPORTATION, COMMUNICATION, AND OTHER PUBLIC UTILITIES ⁵ -----	500	22	15	95,005	11	81,438
WHOLESALE TRADE ⁶ -----	500	22	6	20,090	2	8,670
RETAIL TRADE ⁶ -----	500	74	16	227,605	26	84,489
FINANCE, INSURANCE, AND REAL ESTATE ⁶ -----	500	44	13	88,818	10	63,073
SERVICES ^{6,7} -----	500	76	14	83,543	9	21,527

¹ 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 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 statistical series to measure employment trends or levels since (1) planning of wage surveys requires establishment data compiled considerably in advance of the payroll period studied, and (2) small establishments are excluded from the scope of the survey.

² The 1972 edition of the Standard Industrial Classification Manual was used in classifying establishments by industry division. All government operations are excluded from the scope of the survey.

³ Includes all establishments with total employment at or above the minimum limitation. All outlets (within the area) of companies in industries such as trade,

finance, auto repair service, and motion picture theaters are considered as one establishment.

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

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

⁶ Separate data for this division are not presented in the A-series tables, but the division is represented in the "all industries" and "nonmanufacturing" estimates.

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

Appendix B. Occupational Descriptions

The primary purpose of preparing job descriptions for the Bureau's wage surveys is to assist its field representatives 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 grouping occupational wage rates representing comparable job content. Because of this emphasis on reestablishment 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 representatives are instructed to exclude working supervisors; apprentices; and part-time, temporary, and probationary workers. Handicapped workers whose earnings are reduced because of their handicap are also excluded. Learners, beginners, and trainees, unless specifically included in the job descriptions, are excluded.

Office

SECRETARY

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

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

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

SECRETARY—Continued

Exclusions—Continued

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

Classification by Level

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

Level of Secretary's Supervisor (LS)

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

SECRETARY—Continued

Classification by Level—Continued

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

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

SECRETARY—Continued

Classification by Level—Continued

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

Level of Secretary's Responsibility (LR)

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

LR-1. Performs varied secretarial duties including or comparable to most of the following:

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

LR-2. Performs duties described under LR-1 and, in addition performs tasks requiring greater judgment, initiative, and knowledge of office functions including or comparable to most of the following:

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

SECRETARY—Continued

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

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

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

STENOGRAPHER

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

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

Stenographer, 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.

STENOGRAPHER—Continued

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

TRANSCRIBING-MACHINE TYPIST

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

TYPIST

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

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

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

FILE CLERK

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

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

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

FILE CLERK—Continued

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

MESENKER

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

SWITCHBOARD OPERATOR

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

SWITCHBOARD OPERATOR-RECEPTIONIST

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

ORDER CLERK

Receives written or verbal customers' purchase orders for material or merchandise from customers or sales people. Work typically involves some combination of the following duties: Quoting prices; determining availability of ordered items and suggesting substitutes when necessary; advising expected delivery date and method of delivery; recording order and customer information on order sheets; checking order sheets for accuracy and adequacy of information recorded; ascertaining credit rating of customer; furnishing customer with acknowledgement of receipt of order; following up to see that order is delivered by the specified date or to let customer know of a delay in delivery; maintaining order file; checking shipping invoice against original order.

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

ORDER CLERK—Continued

Positions are classified into levels according to the following definitions:

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

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

ACCOUNTING CLERK

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

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

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

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

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.

BOOKKEEPING-MACHINE OPERATOR—Continued

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

MACHINE BILLER

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

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

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

PAYROLL CLERK

Performs the clerical tasks necessary to process payrolls and to maintain payroll records. Work involves most of the following: Processing workers' time or production records; adjusting workers' records for changes in wage rates, supplementary benefits, or tax deductions; editing payroll listings against source records; tracing and correcting errors in listings; and assisting in preparation of periodic summary payroll reports. In a non-automated payroll system, computes wages. Work may require a practical knowledge of governmental regulations, company payroll policy, or the computer system for processing payrolls.

KEY ENTRY OPERATOR

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

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

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

KEY ENTRY OPERATOR—Continued

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

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

Professional and Technical

COMPUTER SYSTEMS ANALYST, BUSINESS

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

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

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

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

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

Class B. Works independently or under only general direction on problems that are relatively uncomplicated to analyze, plan, program, and operate. Problems are of limited complexity because sources of input data are homogeneous and the output data are closely related. (For example,

COMPUTER SYSTEMS ANALYST, BUSINESS—Continued

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

OR

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

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

COMPUTER PROGRAMMER, BUSINESS

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

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

For wage study purposes, programmers are classified as follows:

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

COMPUTER PROGRAMMER, BUSINESS—Continued

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

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

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

OR

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

May guide or instruct lower level programmers.

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

COMPUTER OPERATOR

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

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

COMPUTER OPERATOR—Continued

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

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

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

An operator at this level typically guides lower level operators.

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

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

PERIPHERAL EQUIPMENT OPERATOR

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

PERIPHERAL EQUIPMENT OPERATOR—Continued

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

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

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

COMPUTER DATA LIBRARIAN

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

DRAFTER

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

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

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

DRAFTER-TRACER

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

AND/OR

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

ELECTRONICS TECHNICIAN

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

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

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

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

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

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

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

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

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

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

REGISTERED INDUSTRIAL NURSE

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

Maintenance, Toolroom, and Powerplant

MAINTENANCE CARPENTER

Performs the carpentry duties necessary to construct and maintain in good repair building woodwork and equipment such as bins, cribs, counters, benches, partitions, doors, floors, stairs, casings, and trim made of wood in an establishment. Work involves most of the following: Planning and

MAINTENANCE CARPENTER—Continued

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

MAINTENANCE ELECTRICIAN

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

MAINTENANCE PAINTER

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

MAINTENANCE MACHINIST

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

MAINTENANCE MECHANIC (Machinery)

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

MAINTENANCE MECHANIC (Machinery)—Continued

obtained from stock; ordering the production of a replacement part by a machine shop or sending the machine to a machine shop for major repairs; preparing written specifications for major repairs or for the production of parts ordered from machine shops; reassembling machines; and making all necessary adjustments for operation. In general, the work of a machinery maintenance mechanic requires rounded training and experience usually acquired through a formal apprenticeship or equivalent training and experience. Excluded from this classification are workers whose primary duties involve setting up or adjusting machines.

MAINTENANCE MECHANIC (Motor vehicle)

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

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

MAINTENANCE PIPEFITTER

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

MAINTENANCE SHEET-METAL WORKER

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

MILLWRIGHT

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

MAINTENANCE TRADES HELPER

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

MACHINE-TOOL OPERATOR (Toolroom)

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

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

TOOL AND DIE MAKER

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

TOOL AND DIE MAKER—Continued

alloys; selecting appropriate materials, tools, and processes required to complete tasks; making necessary shop computations; setting up and operating various machine tools and related equipment; using various tool and die maker's handtools and precision measuring instruments; working to very close tolerances; heat-treating metal parts and finished tools and dies to achieve required qualities; fitting and assembling parts to prescribed tolerances and allowances. In general, the tool and die maker's work requires rounded training in machine-shop and toolroom practice usually acquired through formal apprenticeship or equivalent training and experience.

For cross-industry wage study purposes, this classification does 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. Head or chief engineers in establishments employing more than one engineer are excluded.

BOILER TENDER

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

Material Movement and Custodial

TRUCKDRIVER

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

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

- Truckdriver, light truck
(straight truck, under 1½ tons, usually 4 wheels)
- Truckdriver, medium truck
(straight truck, 1½ to 4 tons inclusive, usually 6 wheels)
- Truckdriver, heavy truck
(straight truck, over 4 tons, usually 10 wheels)
- Truckdriver, tractor-trailer

SHIPPER AND RECEIVER

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

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

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

For wage study purposes, workers are classified as follows:

Shipper
Receiver
Shipper and receiver

WAREHOUSEMAN

As directed, performs a 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 Shipper and Receiver and Shipping Packer), order filling (see Order Filler), or operating power trucks (see Power-Truck Operator).

ORDER FILLER

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

SHIPPING PACKER

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

MATERIAL HANDLING LABORER

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

POWER-TRUCK OPERATOR

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

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

Forklift operator
Power-truck operator (other than forklift)

GUARD

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

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

For wage study purposes, guards are classified as follows:

Class A. Enforces regulations designed to prevent breaches of security. Exercises judgment and uses discretion in dealing with emergencies and security violations encountered. Determines whether first

response should be to intervene directly (asking for assistance when deemed necessary and time allows), to keep situation under surveillance, or to report situation so that it can be handled by appropriate authority. Duties require specialized training in methods and techniques of protecting security areas. Commonly, the guard is required to demonstrate continuing physical fitness and proficiency with firearms or other special weapons.

Class B. Carries out instructions primarily oriented toward insuring that emergencies and security violations are readily discovered and reported to appropriate authority. Intervenes directly only in situations which require minimal action to safeguard property or persons. Duties re-

quire minimal training. Commonly, the guard is not required to demonstrate physical fitness. May be armed, but generally is not required to demonstrate proficiency in the use of firearms or special weapons.

JANITOR, PORTER, OR CLEANER

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

Service Contract Act Surveys

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

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

Fayetteville, N.C.
Fort Lauderdale—Hollywood and West Palm Beach—Boca Raton, Fla.
Fort Smith, Ark.—Okla.
Fort Wayne, Ind.
Gadsden and Anniston, Ala.
Goldensboro, N.C.
Grand Island—Hastings, Nebr.
Guam, Territory of
Harrisburg—Lebanon, Pa.
Knoxville, Tenn.
La Crosse—Sparta, Wis.
Laredo, Tex.
Las Vegas—Tonopah, Nev.
Lexington—Fayette, Ky.
Lima, Ohio
Little Rock—North Little Rock, Ark.
Lorain—Elyria, Ohio
Lower Eastern Shore, Md.—Va.—Del.
Macon, Ga.
Madison, Wis.
Maine (statewide)
Mansfield, Ohio
McAllen—Pharr—Edinburg and Brownsville—Harlingen—San Benito, Tex.
Meridian, Miss.
Middlesex, Monmouth, and Ocean Counties, N.J.
Mobile—Pensacola—Panama City, Ala.—Fla.
Montana (statewide)
Nashville—Davidson, Tenn.
New Bern—Jacksonville, N.C.
New Hampshire (statewide)
North Dakota (statewide)
Northern New York
Northwest Texas
Orlando, Fla.
Oxnard—Simi Valley—Ventura, Calif.
Peoria, Ill.
Phoenix, Ariz.
Pine Bluff, Ark.
Pueblo, Colo.
Puerto Rico
Raleigh—Durham, N.C.
Reno, Nev.

Riverside—San Bernardino—Ontario, Calif.
Salina, Kans.
Salinas—Seaside—Monterey, Calif.
Sandusky, Ohio
Santa Barbara—Santa Maria—Lompoc, Calif.
Savannah, Ga.
Selma, Ala.
Sherman—Denison, Tex.
Shreveport, La.
South Dakota (statewide)
Southeastern Massachusetts
Southern Idaho
Southwest Virginia
Spokane, Wash.
Springfield, Ill.
Stockton, Calif.
Tacoma, Wash.
Tampa—St. Petersburg, Fla.
Topeka, Kans.
Tucson—Douglas, Ariz.
Tulsa, Okla.
Upper Peninsula, Mich.
Vallejo—Fairfield—Napa, Calif.
Vermont (statewide)
Virgin Islands of the U.S.
Waco and Killeen—Temple, Tex.
Waterloo—Cedar Falls, Iowa
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ALSO AVAILABLE—

An annual report on salaries for accountants, auditors, chief accountants, attorneys, job analysts, directors of personnel, buyers, chemists, engineers, engineering technicians, drafters, and clerical employees is available. Order as BLS Bulletin 2004, National Survey of Professional, Administrative, Technical and Clerical Pay, March 1978, \$2.40 a copy, from any of the BLS regional sales offices shown on the back cover, or from the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402.

Area Wage Surveys

A list of the latest bulletins available is presented below. Bulletins may be purchased from any of the BLS regional offices shown on the back cover, or from the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402. Make checks payable to Superintendent of Documents. A directory of occupational wage surveys, covering the years 1970 through 1977, is available on request.

<u>Area</u>	<u>Bulletin number and price *</u>	<u>Area</u>	<u>Bulletin number and price *</u>
Akron, Ohio, Dec. 1978	2025-63, \$1.00	Miami, Fla., Oct. 1979	2050-55, \$2.25
Albany-Schenectady-Troy, N.Y., Sept. 1979	2050-46, \$1.50	Milwaukee, Wis., Apr. 1979	2050-8, \$1.30
Anaheim-Santa Ana-Garden Grove, Calif., Oct. 1979	2050-48, \$1.50	Minneapolis-St. Paul, Minn.-Wis., Jan. 1979	2050-1, \$1.30
Atlanta, Ga., May 1979	2050-20, \$1.30	Nassau-Suffolk, N.Y., June 1979	2050-36, \$1.75
Baltimore, Md., Aug. 1979	2050-42, \$1.75	Newark, N.J., Jan. 1979	2050-5, \$1.30
Billings, Mont., July 1979	2050-43, \$1.50	New Orleans, La., Oct. 1979	2050-53, \$2.25
Birmingham, Ala., Mar. 1978	2025-15, 80 cents	New York, N.Y.-N.J., May 1979	2050-30, \$1.75
Boston, Mass., Aug. 1979	2050-50, \$1.75	Norfolk-Virginia Beach-Portsmouth, Va.- N.C., May 1979 ¹	2050-22, \$1.75
Buffalo, N.Y., Oct. 1978 ¹	2025-71, \$1.30	Norfolk-Virginia Beach-Portsmouth and Newport News-Hampton, Va.-N.C., May 1978	2025-21, 80 cents
Canton, Ohio, May 1978	2025-22, 70 cents	Northeast Pennsylvania, Aug. 1979 ¹	2050-32, \$1.75
Chattanooga, Tenn.-Ga., Sept. 1979	2050-39, \$1.50	Oklahoma City, Okla., Aug. 1979	2050-37, \$1.50
Chicago, Ill., May 1979	2050-21, \$1.75	Omaha, Nebr.-Iowa, Oct. 1979	2050-51, \$1.50
Cincinnati, Ohio-Ky.-Ind., July 1979 ¹	2050-28, \$2.00	Paterson-Clifton-Passaic, N.J., June 1979	2050-26, \$1.50
Cleveland, Ohio, Sept. 1979	2050-47, \$1.75	Philadelphia, Pa.-N.J., Nov. 1979 ¹	2050-57, \$3.00
Columbus, Ohio, Oct. 1978 ¹	2025-59, \$1.50	Pittsburgh, Pa., Jan. 1979 ¹	2050-11, \$1.50
Corpus Christi, Tex., July 1979 ¹	2050-33, \$1.75	Portland, Maine, Dec. 1978 ¹	2025-70, \$1.20
Dallas-Fort Worth, Tex., Oct. 1978 ¹	2025-52, \$1.50	Portland, Oreg.-Wash., May 1979	2050-27, \$1.75
Davenport-Rock Island-Moline, Iowa-Ill., Feb. 1979	2050-10, \$1.00	Poughkeepsie, N.Y., June 1979	2050-34, \$1.50
Dayton, Ohio, Dec. 1978	2025-66, \$1.00	Poughkeepsie-Kingston-Newburgh, N.Y., June 1979	2050-35, \$1.50
Daytona Beach, Fla., Aug. 1979 ¹	2050-41, \$1.50	Providence-Warwick-Pawtucket, R.I.- Mass., June 1979 ¹	2050-38, \$1.75
Denver-Boulder, Colo., Dec. 1978	2025-68, \$1.20	Richmond, Va., June 1979	2050-24, \$1.50
Detroit, Mich., Mar. 1979 ¹	2050-7, \$1.50	St. Louis, Mo.-Ill., Mar. 1979 ¹	2050-13, \$1.50
Fresno, Calif., June 1979	2050-25, \$1.50	Sacramento, Calif., Dec. 1978	2025-75, \$1.00
Gainesville, Fla., Sept. 1979	2050-45, \$1.50	Saginaw, Mich., Nov. 1979 ¹	2050-52, \$1.75
Gary-Hammond-East Chicago, Ind., Oct. 1979 ¹	(To be surveyed)	Salt Lake City-Ogden, Utah, Nov. 1978 ¹	2025-72, \$1.30
Green Bay, Wis., July 1979	2050-31, \$1.50	San Antonio, Tex., May 1979	2050-17, \$1.00
Greensboro-Winston-Salem-High Point, N.C., Aug. 1979	2050-49, \$1.50	San Diego, Calif., Nov. 1978	2025-73, \$1.00
Greenville-Spartanburg, S.C., June 1979 ¹	2050-29, \$1.75	San Francisco-Oakland, Calif., Mar. 1979	2050-14, \$1.20
Hartford, Conn., Mar. 1979	2050-12, \$1.10	San Jose, Calif., Mar. 1979	2050-19, \$1.10
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Huntsville, Ala., Feb. 1979	2050-3, \$1.00	South Bend, Ind., Aug. 1979 ¹	2050-44, \$1.75
Indianapolis, Ind., Oct. 1979	2050-54, \$2.25	Toledo, Ohio-Mich., May 1979	2050-16, \$1.10
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Jacksonville, Fla., Dec. 1978	2025-67, \$1.00	Utica-Rome, N.Y., July 1978	2025-34, \$1.00
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Los Angeles-Long Beach, Calif., Oct. 1979	2050-59, \$2.25	Wichita, Kans., Apr. 1979	2050-18, \$1.00
Louisville, Ky.-Ind., Nov. 1978	2025-69, \$1.00	Worcester, Mass., Apr. 1979	2050-23, \$1.50
Memphis, Tenn.-Ark.-Miss., Nov. 1979 ¹	2050-56, \$2.25	York, Pa., Feb. 1979	2050-6, \$1.00

* Prices are determined by the Government Printing Office and are subject to change.

¹ Data on establishment practices and supplementary wage provisions are also presented.

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