Industry Vage Survey

Machinery Manufacturing, September— November 1968

**BULLETIN 1664** 

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U. S. DEPARTMENT OF LABOR George P. Shultz, Secretary

BUREAU OF LABOR STATISTICS Geoffrey H. Moore, Commissioner

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#### Preface

This bulletin summarizes the results of a Bureau of Labor Statistics survey of wages and supplementary benefits in the nonelectrical machinery manufacturing industries in 21 selected areas in September—November 1968. Separate releases for each of the areas were issued earlier and may be obtained from the Bureau of Labor Statistics, Washington, D.C. 20212, or any of its regional offices.

Occupational data are presented for the machinery industries as a whole in each area. Separate information on average hourly earnings by occupation also is presented for selected industries (e.g., special dies and tools, die sets, jigs, and fixtures; machine-tool accessories; oil-field machinery) in nine areas. The distributions of workers by occupational earnings for these industries are included in the individual area releases. Data on establishment practices and supplementary wage benefits are presented for the industries as a whole in each area.

The study was conducted in the Bureau's Office of Wages and Industrial Relations. The analysis was prepared by Joseph C. Bush in the Division of Occupational Wage Structures. Field work for the survey was directed by the Assistant Regional Directors for Operations.

Other reports available from the Bureau's program of industry wage studies and the addresses of the Bureau's regional offices are listed at the end of this bulletin.

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# Machinery Manufacturing, September-November, 1968

#### Summary

Average straight-time hourly earnings of production and related workers in the nonelectrical machinery manufacturing industries increased 13.5 percent between mid-1966 and September-November 1968 in 21 metropolitan areas surveyed by the Bureau of Labor Statistics. The annual rate of increase for the 21 areas combined was 5.7 percent; it ranged from 3.3 percent in Pittsburgh to 7.5 percent in St. Louis.

Pay levels were generally highest in San Francisco—Oakland and lowest in Dallas among the areas surveyed. Tool and die makers usually had the highest level of earnings in the occupations selected for separate study. Men producing or maintaining tools and dies for in-plant use, rather than for sale, had average earnings ranging from \$5.12 an hour in San Francisco—Oakland to \$3.53 in Worcester. Janitors were lowest paid among the jobs studied in most areas. They averaged from \$3.07 in Detroit to \$2 in Dallas.

Virtually all workers were in establishments providing paid holidays and vacations. Provisions for life, sickness and accident, hospitalization, surgical, and medical insurance, as well as retirement pension benefits, were also widespread.

#### Industry Characteristics

Products. Establishments within scope of the 21-area survey manufacture a wide variety of nonelectrical machinery, differing in complexity, size, and character of demand. The products include diverse goods such as special dies and tools (usually manufactured on a job order basis), engines and turbines; typewriters; farm tractors and hay racks; bulldozers and powersaws; escalators and dumb waiters; complex machine tools and metal working drill bits; ball bearings; and large special industry machinery. The establishments studies were classified according to their primary product and were grouped in a number of industry related categories. As indicated below, the percent distribution of production workers among these major product groups in the 21 areas combined was generally similar to the nationwide distribution:

Product group	21 areas combined	Nationwide
Engines and turbines	6	6
Farm machinery	3	7
Construction and related machinery	15	14
Metalworking machinery	24	19
Special industry machinery	9	10
General industrial machinery	17	13
Office and computing machines	9	10
Service industry machinery	7	7
Miscellaneous machinery, except electrical	11	13
Total	100	100

NOTE: Because of rounding, sums of individual items may not equal totals.

<sup>1</sup> See appendix A for scope and method of survey. Wage data presented in this bulletin exclude premium pay for overtime and for work on weekends, holidays, and late shifts.

<sup>&</sup>lt;sup>2</sup> The survey included establishments primarily engaged in manufacturing nonelectrical machinery. Omitted from the survey were (1) establishments with fewer than 8 workers primarily manufacturing special dies, tools, jigs, and fixtures, or machine-tool accessories, and (2) other nonelectrical machinery establishments with fewer than 20 workers.

Nationwide employment as reported in the Bureau's employment and earnings series. (See <u>Employment and Earnings</u>, vol. 16, No. 5, November 1969.)

The types of machinery manufactured differed, however, among areas. For example, three-fourths of the workers in Houston were in establishments primarily manufacturing construction and related machinery (almost always oil-field machinery), whereas slightly over one-half of the workers in Detroit were in plants manufacturing metalworking machinery. In nearly all other areas, no one product category constituted as much as half of the work force.

Employment. The 21-area survey constituted nearly two-fifths of the 1,326,300 production and related workers estimated to be in the industry (nationwide) at the time of the survey. Employment ranged from fewer than 10,000 in Baltimore, Buffalo, Dallas, Denver, Portland, San Francisco—Oakland, and Worcester to 85,000 in Chicago. Other major areas of industry employment included Detroit (62,000), Los Angeles—Long Beach and Anaheim—Santa Ana—Garden Grove (46,000), Milwaukee (42,000), and Cleveland and Philadelphia (34,000).

About two-fifths of the production workers in the 21 areas combined were in establishments with fewer than 250 workers. A similar proportion were in establishments with 250 to 2,499 workers, and the remainder were in plants with 2,500 employees or more. Establishments with fewer than 250 workers constituted a majority of the production workers in Dallas, Detroit, Los Angeles, New York, Portland, and San Francisco—Oakland. Corresponding proportions in other areas ranged from one-sixth in Milwaukee to nearly one-half in Boston. Establishments with 2,500 workers or more were found in 16 of the 21 areas. They constituted one-third to one-half of the production workers in Baltimore, Denver, Hartford, Houston, Milwaukee, and Minneapolis—St. Paul, and less than one-fourth of those in other areas.

<u>Processes</u>. Mass production is used to manufacture nonelectrical machinery having a relatively large demand (e.g., typewriters, tractors), but not to manufacture items required to meet specific customer needs (e.g., special dies, tools, jigs, and fixtures). Nevertheless, processes are similar and include various types of metal fabrication (machining), assembling, and inspection. Some plants also operate their own foundries, forge shops, and stamping departments. Among the other types of operations found in machinery manufacturing establishments are heattreating, polishing, plating, and painting.

Assembling operations were reported by establishments employing four-fifths of the production workers in the 21 areas combined. Three principal types of assembly were used: (1) Floor assembling was the predominant method reported by establishments employing nearly two-fifths of the workers; (2) bench assembling, usually employed when the product is relatively small, was the predominant method in establishments employing one-third of the workers; and (3) conveyor line assembling was reported by establishments constituting one-tenth of the workers. The types of assembling varied substantially by area. Plants using floor assembling, for example, employed one-half or more of the workers in Milwaukee, Minneapolis—St. Paul, Philadelphia, Pittsburgh, Portland, and Worcester whereas most workers in Denver, Houston, Los Angeles, and San Francisco—Oakland were in plants using bench assembling.

The numerical control of machine tools is among the relatively new technological developments in machinery manufacturing. This technique permits automatic operation of machine tools by electronic devices (control units) and changeable tapes. The control unit interprets coded tape instructions, prepared in advance by the programer, and directs the machine tool through the programed sequence of machining operations (drilling, milling, boring, turning, etc.) while controlling machine speeds and feeds, distance and direction of movement of the tool or workpiece, flow of coolant, and even selection of the proper preset cutting tool for each operation. In the 21 areas combined, nearly one-half of the production workers were in plants which used these machines. Areas which had a majority of the workers employed in such plants were Boston, Buffalo, Denver, Hartford, Houston, Milwaukee, Minneapolis—St. Paul, Newark and Jersey City, Philadelphia, Pittsburgh, San Francisco—Oakland, and Worcester. A few plants in nearly all of the areas studied plan to install numerically-controlled machine tools within the next year.

<u>Unionization</u>. Establishments having collective bargaining agreements covered a majority of the production workers and employed nearly two-thirds of the industry's work force in the 21 areas combined. The extent of collective bargaining agreement coverage varied substantially among the areas; it was lowest in Los Angeles and highest in Milwaukee, Pittsburgh, St. Louis, and San Francisco—Oakland. The percent of production workers in establishments with collective bargaining contracts covering a majority of their workers is shown below:

	Coverage
Pittsburgh, Milwaukee, St. Louis, and San Francisco-OaklandPortland	90+ 80 <b>-</b> 89
Hartford, Buffalo, Newark and Jersey City, New York, Philadelphia, Cleveland, Detroit, and Minneapolis-St. Paul	70-79
Houston	60-69
Boston and Chicago	50-59
Worcester, Baltimore, and Dallas	40-49
Denver	30-39
Los Angeles-Long Beach and Anaheim-Santa Ana-Garden Grove	20-29

The major unions in the industry were the Machinists (IAM), Auto Workers (UAW), and the Steelworkers (USA).

The survey also developed information on the incidence of supplementary wage benefits and the extent of collective bargaining agreement coverage for office clerical employees in the industry. Approximately 95,000 office clerical employees in plants were covered; those in separate central offices were excluded from the study. The proportion of workers in plants having collective bargaining agreements covering a majority of their office workers were nearly two-fifths in Buffalo, one-third in Pittsburgh, nearly three-tenths in Baltimore, approximately one-fourth in New York and Newark and Jersey City, and less than one-fifth in the remaining areas.

Method of Wage Payment. A large majority of the production workers in each of the selected areas were paid time rates, usually under formal wage systems providing either a single rate or ranges of rates for specified occupations (table 25). Informal systems, under which rates were determined by qualifications of the individual workers, applied to nearly one-half of the workers in New York, about one-third in Los Angeles, nearly three-tenths in Newark and Jersey City, and one-fourth or less of the workers in the remaining areas.

Incentive wage systems, reported by some plants in all areas except Portland, applied to one-third of the workers in Milwaukee, one-fourth in Hartford, and about one-fifth in Buffalo, Cleveland, Pittsburgh, St. Louis, and Worcester. In most other areas, one-tenth or less of the workers were paid under incentive wage systems.

<u>Sex.</u> Men constituted nine-tenths of the production workers in the 21 areas combined. Women made up between one- and two-tenths of the workers in Baltimore, Chicago, Hartford, Los Angeles, Milwaukee, Minneapolis, St. Louis, and San Francisco—Oakland, and less than one-tenth in the other areas. Among the occupations selected for separate study, women were most frequently employed in jobs such as routine assemblers and inspectors and, in some areas, as machine-tool operators.

#### Trends in Earnings

Average straight-time hourly earnings of production workers in the 21 areas combined rose 13.5 percent between mid-1966 5 and September-November 1968. Computed on an annual basis, the increase was 5.7 percent. This exceeded the annual rates of increase for each of the years during the 1960's which ranged from 2.3 percent in

<sup>&</sup>lt;sup>4</sup> Wage information was not developed for office clerical employees.

<sup>&</sup>lt;sup>5</sup> See Industry Wage Survey: Machinery Manufacturing, Mid-1966, BLS Bulletin 1563 (1967). The mid-1966 was nationwide in scope, but provided separate data for the 21 selected areas surveyed in 1968.

1964-65 to 3.6 percent in 1965-66. The index of wage rates for all production workers covered by the survey was 142.9 (1958-59 = 100) in September-November 1968. The corresponding indexes were 142.6 for material handling laborers and 149.5 for tool and die makers (other than jobbing).

The annual rate of increase in average earnings between the 1966 and 1968 surveys varied substantially by area. It ranged from 3.3 percent in Pittsburgh to 7.5 percent in St. Louis. In most other areas, increases were between 5 and 6 percent. They exceeded 6 percent in Chicago, Dallas, Denver, Detroit, Portland, and San Francisco—Oakland and were less than 5 percent in New York, Cleveland, and Worcester.

Percent increases in average hourly earnings <sup>1</sup> of production workers in nonelectrical machinery manufacturing in selected areas and occupations and indexes of average hourly earnings

		Perce		es in ave			ated	Inc	lexes
			01	n an annu	al basis <sup>2</sup>			(1958-5	$9 = 100)^3$
Area and occupation	1960	1961	1962	1963	1964	1965	1966 to 1967	June-	September-
	to	to	to	to	to	to	and	July	November
	1961	1962	1963	1964	1965	1966	1967 to 1968 4	1966	1968
All areas combined	2.6	2.6	2.7	2.7	2.3	3.6	5.7	125.8	142.9
<u>.Areas</u>									
Baltimore	3.7	1.9	4.9	3.0	2.4	3.5	5.0	129.1	144.7
Boston	3.7	3.0	2.8	1.4	1.8	4.1	5.9	128.7	147.1
Buffalo	3.2	1.9	3.5	3.2	2.9	2.2	5.9	125.2	143. C
Chicago	1.3	2.8	3.4	3.7	2.0	2.5	6.5	124.7	143.5
Cleveland	1.9	3.8	2.7	2.7	2.4	3.3	4.9	128.2	142.7
Dallas	2.9	2.6	2.6	4.0	2.8	3.5	6.6	127.3	146.1
Denver	2.4	1.0	2.7	2.6	2.7	2.8	7.0	122.3	142.4
Detroit	2.6	1.8	2.6	2.1	2.4	3.1	7.0	122.4	142.5
Hartford	3.7	2.4	3.2	3.9	2.1	3.5	5.9	129.5	148.7
Houston	2	2.1	1.9	1.4	2.0	4.7	5.3	122.9	138.0
Los Angeles-Long Beach and Anaheim-Santa Ana-									
Garden Grove	3.3	3.0	3.4	1.0	3.8	4.3	5. 1	127.0	142.0
Milwaukee	3.2	2.6	2.7	2.6	1.3	4.6	5.2	125.7	141.3
Minneapolis-St. Paul	4.7	2.0	2.5	4.1	2.4	4.5	5.6	130.6	148.2
Newark and Jersey City	3.6	3.0	2.7	4.7	1.6	3.1	5.9	125.5	144.2
New York	3.8	3.7	3.0	3.1	1.4	4.1	3.9	126.2	137.1
Philadelphia	2.8	2.4	1.2	2.3	2.4	2.4	5. 2	122.7	138.0
Pittsburgh	2.3	1.6	.6	1.2	1.6	4.4	3.3	119.7	129.3
Portland (Oreg Wash. )	1.8	3.5	2.9	3.1	3.7	2.4	6.8	132.4	154.4
St. Louis	3.8	5.1	3.1	2.3	2.9	3.2	7.5	130.6	154.5
San Francisco-Oakland	2.6	2.5	3.0	2.7	5.3	3.9	6.5	131.6	150.7
Worcester	4.2	2.7	3.7	2.1	3.0	4.6	4.9	128.2	143.2
Occupations									
Laborers, material handling	3.5	2.1	2.9	3.3	1.8	3.0	5.6	125.9	142.6
Tool and die (other than jobbing)	3.1	2.5	2.4	3.3	2.5	4.1	7.2	127.8	149. 5

<sup>1</sup> Excludes premium pay for overtime and for work on weekends, holidays, and late shifts.

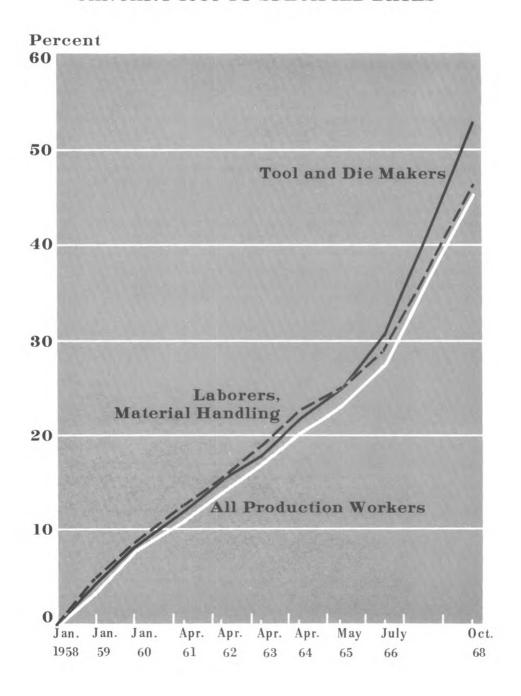
In the 21 areas combined, the annual rate of increase in average straight-time hourly earnings between the 1966 and 1968 surveys was 7.2 percent for tool and die makers, compared with 5.6 percent for material handling laborers. Since 1960, the annual rate of increase in average earnings for tool and die makers has exceeded that for laborers in all years except 1960-61, 1962-63, and 1963-64.

<sup>&</sup>lt;sup>2</sup> Changes which vary from area to area are for payroll periods approximately a year apart. Because the intervals between the 1965 and 1966, and the 1966 and 1968 surveys were over 1 year, the percents of change since 1961 have been adjusted to reflect annual changes. The compound effect of wage changes was considered in computing the annual percent of change between the 1966 and 1968 surveys.

<sup>3</sup> For methods used to construct indexes see appendix A.

<sup>4</sup> Since a survey was not made in 1967, data for the 2 periods are the same.

# INCREASE IN AVERAGE STRAIGHT-TIME HOURLY EARNINGS, NONELECTRICAL MACHINERY MANUFACTURING IN 21 AREAS, JANUARY 1958 TO SPECIFIED DATES



#### Occupational Earnings

The occupations selected for separate study constituted one-half of the 506,000 production workers within scope of the survey. These jobs were selected to represent wage levels for the various activities performed by production workers in the industry.

Tool and die makers had the highest average hourly earnings in nearly all areas. Men producing or maintaining tools and dies for use within the establishment (other than jobbing) averaged from \$5.12 an hour in San Francisco—Oakland to \$3.53 in Worcester (table 1); in 13 other areas they averaged \$4 or more an hour. In most areas, averages for men producing tools and dies for sale (jobbing) were within 5 percent of the earnings levels for tool and die makers (other than jobbing).

Production machine-tool operators were the most numerous occupational group studied and, for survey purposes, were divided into three groups. Men operators, who set up their own machines and perform a variety of machining operations to close tolerances (class A), averaged from \$4.40 an hour in San Francisco—Oakland to \$3.14 in Dallas. The corresponding range for the intermediate group of operators (class B) was from \$3.68 in St. Louis to \$2.65 in Dallas. Averages for operators who perform routine repetitive operations and do not set up machines (class C) were highest in Hartford (\$3.30) and lowest in Dallas (\$2.19).

Special inquiry was made concerning formal wage-setting practices for workers operating numerically controlled (N/C) machine tools. Nearly one-half of the production workers in the 21 areas combined were in establishments that had N/C machine tools. In these establishments, one-half of the workers were in plants that set wage rates for N/C machine tools the same as the rate for operators of standard machine tools, and nearly one-fourth were in plants which set higher rates for N/C machine-tool operators. Nearly all of the remaining workers were in plants which had no formal policy relating to rate-setting for operators of N/C machine tools.

Janitors were lowest paid among the jobs studied in most areas. They averaged from \$3.07 an hour in Detroit to \$2 in Dallas. Hourly averages for material-handling laborers, another relatively low-pay job, ranged from \$3.30 in Portland to \$2.16 in Dallas.

Occupational pay levels were generally highest in San Francisco-Oakland and lowest in Dallas. The relative pay levels <sup>6</sup> of the 21 areas surveyed, using Chicago as base = 100, are shown below:

San Francisco-Oakland	116
Portland	112
Detroit	109
St. Louis	107
Milwaukee	103
Denver and Cleveland	101
Chicago and Los Angeles	100
Pittsburgh	99
Buffalo and Newark and Jersey City	97
Hartford and Houston	95
Baltimore and Minneapolis-St. Paul	94
Boston and Philadelphia	92
Worcester	91
New York	87
Dallas	79

Average hourly earnings for men in 15 occupational classifications common to all areas were used in computing the relative pay levels. To minimize interarea differences in occupational composition, weights expressing constant employment relationships based on total employment in the respective jobs in the 21 areas were used. Aggregates were computed for each area by multiplying the average straight-time earnings for the jobs by these weights and totaling. The ratio of these aggregates formed the basis for the relatives.

Relative differences in wage levels among the areas varied by occupations. Janitors in San Francisco—Oakland, for example, averaged 53 percent more than those in Dallas; the corresponding spread was 40 percent for class A production machinetool operators, and 33 percent for tool and die makers (jobbing).

Where comparisons were possible, workers paid under incentive wage systems generally had higher average earnings than time-rated workers in the same occupation and area (table 2). Differences in averages for time and incentive workers differed by occupation and area. For example, class A and class B assemblers paid under incentive wage systems in Chicago averaged 8 and 17 percent, respectively, more than their time-rated counterparts. The corresponding differences in Milwaukee were 24 and 19 percent.

The preceding discussion of occupational earnings related to men in the jobs selected for separate study. Tables 4 through 24 provide earnings for women in a few of the occupations studied.

Earnings of individuals performing similar tasks varied considerably within the same job and area (tables 4 through 24). Earnings of the highest paid workers frequently exceeded those of the lowest paid workers in the same job and area by \$1 an hour or more. Thus, some workers in comparatively low-paid jobs earned more than some workers in jobs for which significantly higher averages were recorded. For example, the following tabulation indicates a considerable earnings overlapping for men class A grinding-machine operators and polishing- and buffing-machine operators in Cleveland, despite a 60 cents difference in the hourly averages of the two jobs:

Earnings	Polishing- and buffing- machine operators	Class A grinding- machine operators
Under \$3.00	- 78	18
\$3.00 and under \$3.20	49	78
\$3. 20 and under \$3. 40	- 33	101
\$3.40 and under \$3.60	- 20	74
\$3.60 and under \$3.80	- 14	143
\$3.80 and under \$4.00		95
\$4.00 and over	- 18	255
Total workers	- 212	764
Average hourly earnings	- \$3.28	\$3.88

#### Establishment Practices and Supplementary Wage Provisions

Data also were obtained on certain establishment practices, including shift differentials for production workers; and work schedules and selected supplementary wage benefits, such as paid holidays and vacations, and health, insurance, and retirement plans, for production and office workers.

Scheduled Weekly Hours. Work schedules of 40 hours a week were in effect in establishments employing a majority of the production workers in each area (table 26). Most of the remaining workers had weekly work schedules of more than 40 hours. Office workers also typically had 40-hour weekly work schedules, except in New York where schedules of 35 or  $37\frac{1}{2}$  hours applied to a majority of the workers (table 27).

Shift Differential Provisions and Practices. A large majority of the production workers in nearly all areas were in establishments which had provisions for late-shift operations with extra pay above day-shift rates (table 28). Proportions of workers employed on late shifts at the time of the survey ranged from one-third in Baltimore and Houston to less than one-tenth in Boston and New York. From 15 to 25 percent of the production workers were employed on late shifts in most other areas (table 29).

Workers on second shifts outnumber those on third shifts by more than 5 to 1 in 14 of the 21 areas. The amount of shift differential pay, nearly always specified in uniform cents per hour or uniform percentages of day-shifts rates, varied among and within areas.

Paid Holidays. Almost all establishments studied provided paid holidays to production and office workers (tables 30 and 31). The number of paid holidays provided annually varied among and within areas. A majority of the production workers were in establishments providing at least 9 holidays in Boston, Buffalo, Detroit, Hartford, Milwaukee, Newark and Jersey City, New York, Philadelphia, St. Louis, and San Francisco—Oakland. In a majority of the remaining areas, workers were most commonly provided 8 paid holidays a year. With some exceptions, paid holiday provisions for office workers were generally similar to those for production workers.

<u>Paid Vacations</u>. Paid vacations were provided by establishments employing nearly all of the production and office workers (tables 32 and 33). Typical provisions for production workers were 1 week of vacation pay after 1 year of service, 2 weeks after 3 years, and 3 weeks after 10 years, and at least 4 weeks after 20 years. In most areas, vacation provisions for office workers were more liberal than those for production workers, particularly after 1 year of service.

Health, Insurance, and Retirement Plans. Life, hospitalization, surgical, and medical insurance for which the employer paid at least part of the cost, were provided to more than nine-tenths of the workers (tables 34 and 35). A majority of the workers in most areas also were provided other types of health benefits, including sickness and accident insurance and/or sick leave, and accidental death and dismemberment and catastrophe (major medical) insurance.

Pension plans that provide for regular payments on retirement (in addition to social security) were reported by establishments employing at least two-thirds of the production and office workers in nearly all areas. In most areas, employers usually pay for the entire cost of the plans. The proportions of production and office workers covered by retirement pension plans were generally similar within the same area.

Table 1. Occupational Averages in 21 Areas: Men

									heast										Sc	outh		
	Во	ston	Buf	falo		rd-New -Bristol	Newa: Jerse		New	York	Philad	delphia	Pitts	burgh	Word	ester	Balti	imore	Da	llas	Hou	iston
Occupation	Num-	Aver-	Num-	Aver-	Num-	Aver-	Num-	Aver-	Num-	Aver-	Num-	Aver-	Num-	Aver-	Num-	Aver-	Num-	Aver-	Num-	Aver-	Num-	Aver
	ber	age	ber	age	ber	age	ber	age	ber	age	ber	age	ber	age	ber	age	ber	age	ber	age	ber	age
	of	hourly	of	hourly	of	hourly	of	hourly	of	hourly	of	hourly	of	hourly	of	hourly	of	hourly	of	hourly	of	hourl
	work-	earn-	work-	earn-	work-	earn-	work-	earn-	work-	earn-	work-	earn-	work-	earn-	work-	earn-	work-	earn-	work-	earn-	work-	earn
	ers	ings	ers	ings	ers	ings	ers	ings	ers	ings	ers	ings	ers	ings	ers	ings	ers	ings	ers	ings	ers	ings
Assemblers, class A	718	\$3,47	332	\$3.58	258	\$3,63	666	\$3.55	851	\$3.51	1.385	\$3.24	442	\$3.67	304	\$3.47	146	\$3.63	286	\$2.92	482	\$3.3
Assemblers, class B	450	3.00		3.12		3.00	674	3. 30	758	2.79		2.76	189	3. 27	196	3.06	197	2.91	203	2.41	286	2.8
Assemblers, class C	186	2.62	69	3.03	250	3.01	440	2.77	994	2. 32		2. 28	69	2.92	46	2.92	82	2.54	274	1.93		2.
Carpenters, maintenance	25	3. 23	09	3.03	15	3.49	25	3.46		2.32	28	3.67	32	3. 88	7	3.43	02		214	1.93	14	3.
Electricians, maintenance	79	3. 61	74	3,56	93	4.06	132	4.16	48	3, 61	102	3.63	125	3.75	36	3.45	39	3, 59	31	3.12	159	3.
	205						255		174													
nspectors, class A		3.42	114	3.69	204	3. 40		3.48		3.52		3.42		3.78	109	3, 27	87	3.60	98	3.34		3.
nspectors, class B	144	3.01 2.74	57	3.38		3. 26	270	3. 37	178	3. 10	380 55	3. 27	82	3.18	59	3.07	43	3. 20	86	2.72		3.
nspectors, class C	83			2, 68			130	3.19	138	2.16		2.88		2.85					68	2.00		-
anitors, porters, and cleaners	223	2. 37	188	2.44		2.63	231	2.50	291	2. 22		2.59		2.65	91	2.46	115	2.10	166	2.00		2.
aborers, material handling	249	2.68	79	2.66	222	2.67	307	2.77	474	2. 38	367	2.53	163	2.73	75	2.53	76	2.34	116	2.16	223	2.
Machine-tool operators, production, class A <sup>3</sup>	1.619	3, 44	970	3, 47	1,418	3, 53	1.397	3. 57	1.869	3. 55	2.658	3. 51	1.764	3, 61	1.003	3, 35	733	3, 54	665	3 14	1.646	3.
Automatic-lathe operators,	-,,		/		1, 110	3.00	2,5/1	3.51	1,007	3.33	2,000	3.51	1,101	3, 01	1,005	3, 33	133	3.31	003	3.11	1,040	J
class A	-	-	-	2	27	3, 62	-	-	97	3, 59	70	3.39	-	_	10	3, 40	16	3.73	52	3.05	171	3.
Drill-press operators, radial,									/ /	0.07		0.07				0.10		3.15		3.05		
class A	96	3, 52	_	_	60	3,50	82	3, 44	_	_	274	3, 45	106	3, 28	70	3.40	100	_	20	2.94	90	3.
Drill-press operators, single- or	, ,	5.52			- 00	3.30	02	5. 11				3, 13	100	3.20	10	3.40	7.7	-	20	2. 74	70	١ ٥.
multiple-spindle, class A	81	3.49	15	3, 30	24	3, 51	93	3.13	66	3, 23	160	3, 19		100	43	3.19	25	3, 29	29	2.83	73	3.
Engine-lathe operators, class A	135	3.49		3.43		3, 65	224	3.51	302	3, 62	305	3.59	262	3, 66	106	3. 31	114	3.44	106	3.12		3.
Grinding-machine operators,	133	3. 17	11.1	3. 13	131	3.05	221	3. 31	302	3.02	303	3.37	202	3.00	100	3. 31	114	3.44	100	3.12	100	٥.
class A	195	3,56	117	3, 57	562	3, 49	164	3, 55	275	3, 45	340	3.11	317	3, 63	235	3, 27	0.0	2 50	44	2 24	112	3.
Milling-machine operators.	175	3.50	111	3.51	302	3. 47	104	3.33	213	3.43	340	3.11	311	3.03	233	3.41	98	3.50	44	3. 24	112	٥.
class A	194	3.49	105	3.49	176	3, 47	254	3, 58	346	3, 57	291	3, 49	305	3, 60	148	3.45	84	3, 70	86	3, 13	215	3.
Screw-machine operators, auto-	174	3.47	103	3. 47	110	3.41	234	3.50	340	3.57	271	3.49	303	3.00	140	3.43	04	3. 10	00	3.13	215	٥.
matic, class A	80	3, 55			_		43	3.99	30	3, 85		1000	8	3, 67	28	2 4/	1		4.2	2 41		
	00	3, 35	-	; <b>-</b> ;	-	-	43	3.99	30	3. 85	-	-	8	3.07	28	3.46	-	-	43	3.41	-	-
Turret-lathe operators, hand																		1		1		1
(including hand screw machine),	217	2 43	2/2	2 42	1/0	2 (1)	22/	2 (0	1/2	2 5.	200	2 (2		0 45								1
class A	217	3. 41	263	3.42	160	3.64	226	3.68	162	3, 51	393	3.62	153	3.45	124	3, 33	94	3.44	214	3.11	425	3.
Tachine-tool operators, production,																						
class B 3	1.051	2.99	470	3 35	1,591	3. 26	1 964	3 55	1,513	2 92	2,012	3. 28	585	3, 21	462	3,01	387	3, 15	461	2, 65	781	3.
Automatic-lathe operators,	1,051	2. //	110	3.33	1,5/1	3.20	1, /01	3.33	1,515	2. 72	2,012	3.20	303	3.21	402	3.01	301	3.15	401	2.05	101	٥.
class B	-	-	-	-			_	_	71	2, 62	89	2.86	-		18	2.96	10	3, 43	43	2.59		
Drill-press operators, radial.	-	-	-	-	-	- 1	-	-	11	2.02	09	2.00	- 1	-	10	2.90	10	3, 43	43	2.59		-
class B	53	3, 15	16	3, 25	23	3.18	97	3, 46	68	3, 33	101	2 05	18	3, 21	32	2 05			2/	2 40	40	1
Drill-press operators, single- or	33	3.15	10	3. 23	23	3.10	91	3.40	00	3.33	101	2.95	18	3. 41	34	3.05	-	-	26	2.48	48	2.
multiple-spindle, class B	61	2.92			87	2 01	111	2.85	1/0	2.69		2 70	20	2 12								1
			60	2 15		2.91	111		169		75	2.79	28	3.13	47	3.12	28	3.13	44	2.40	81	3.
Engine-lathe operators, class B	71	3.18	60	3.15	35	3.14	114	3. 31	82	3.13	142	3.12	40	3.46	40	2.94	43	2.84	21	2.53	101	3.
Grinding-machine operators, class B	111	2 05	0.3	2 2/	222	2 1/			102	2 00			100	0 40		2 01			100			1
	111	3.05	82	3. 26	777	3, 16	-	-	192	2.90	-	-	138	3, 40	131	2.96	27	3, 40	28	2.73	184	3.
Milling-machine operators,	10/	2 02	2.7	2 22		2 24			2/2								7.2					
class B	106	2.93	27	3. 22	105	3. 24	110	3, 33	262	2.99	355	3.13	57	3. 24	50	3, 26	41	3.24	84	2.67	66	3.
Screw-machine operators, auto-																						1
matic, class B	-	-	-	-	-	-	-	-	40	2.97	34	3, 55	-	-	-	-	-	-	-	-	-	-
Turret-lathe operators, hand																						-
(including hand screw machine),			1,31													1000						1
class B	185	3.03	47	3.10	64	3.38	131	3.19	69	3.11	362	3, 40			47	2.95	20	2.94	105	2.59	86	3.

#### Table 1. Occupational Averages in 21 Areas: Men—Continued

(Number and average straight-time hourly earnings 1 of men in selected occupations in machinery manufacturing establishments, September-November 1968 2)

								North	neast								1		Son	uth		
	Во	ston	Buf	falo		rd-New -Bristol		rk and y City	New	York	Philad	lelphia	Pitts	burgh	Word	ester	Balti	more	Da	llas	Hou	ston
Occupation		Aver-		Aver-	Num-		Num-		Num-		Num-	Aver-		Aver-	Num-		Num-	Aver-		Aver-	Num-	Ave
	ber of work-	age hourly earn-	ber of work-	hour																		
	ers	ings	ers	ing																		
Machine-tool operators, production,																						
class C <sup>3</sup>	467	\$2.52	125	\$2.81	1,171	\$3.30	461	\$2.64	1,286	\$2.28	902	\$2.40	148	\$2.71	115	\$2.59	561	\$2.67	278	\$2.19	284	\$2.
Automatic-lathe operators,																						
class C	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	18	3.19	-	-	-	
Drill-press operators, radial,					14	2.85	28	3, 24	_	_											28	2.
Drill-press operators, single- or	-	-	1	-	14	2.05	20	3, 24	-	-			-	-	_	-	-	-	-	- 7	40	4
multiple-spindle, class C	37	2.35	33	2.69	66	3. 25	86	2.88	238	2.23	107	2.08		2-1	24	2.46	43	2.41	43	2.03	-	
Engine-lathe operators, class C	-	-	-	-	-	-	-	-	68	2.39	-	-	-	-	-	-	-	-	-	-	-	
Grinding-machine operators,								100														
class C	16	2.43	-	-	710	3.40	61	2.70	105	2.32	-	-	37	2.78	18	2,72	12	2.63	-	(-)	31	2
Milling-machine operators,	48	2.37			100	3, 15	4,	2.85	122	2 40	120	2 40							- 22	2.24		
Screw-machine operators, auto-	48	2.31	-	-	100	3, 15	41	2.85	122	2.48	129	2.48	-	-	-	-	-	-	22	2. 24	18	3
matic, class C	_	_	_	-	_	_			-	2	_		100	_	_	2.1	_	200		10/42	_	
Turret-lathe operators, hand	1		100								1	1000					-	-	-	-	_	
(including hand screw machine),							1															1
class C	55	2.75	-	-	41	3.13	10	3.02	-	-	69	2.31	-	-	-	-	41	2.48	50	2. 28	32	2.
achine-tool operators, toolroom																						
operate 1 type of machine)	47	3, 38	_	_	347	4.22	373	4.12	_		121	3,72	23	3, 65	_		46	3, 67	23	3.96		
achine-tool operators, toolroom		.,				-,														,-	1	
(operate more than 1 type of											1 -4.5					1						
machine)	46	3.45		3, 52		3.41	303	3, 52	136	3.57		3.55		3.63	11	3.52	58	3.65	40	3.39	180	3
fachinists, maintenance	22	3.87		3.59		3, 57			46	3.73		3.73		-	-		24	3, 53		-	131	3
achinists, production	426 55	3.58		3.69		3.53	130	3. 32	196	3.61	494	3.76	-	2.40	84	3. 35	252	3.57	152	3.49	879	3
echanics, maintenanceolishers and buffers, metal	12	3.63		3, 50		3.16	29 50	3. 58 3. 17	60	3. 26	125 81	3. 58 3. 27	98	3. 60	30	3. 38	-	-	40	3.12	205	3
olishing- and buffing-machine	12	2.11	20	3.33	27	3.10	30	3.11	-	-	01	3. 21	-	-	-	-	_	-	-	-	-	
operators	_		-	-	90	3.14	116	2.96	27	2. 29	71	3.70	22	2.83	-		_	_		-	-	
unch-press operators, class A	48	2.93	-	-	-	-	-	-	-	1.20	116	2.80			14	3. 26	-	-	72	2.78	-	
unch-press operators, class B	113	2.37		-	92	2.94	433	2.75	124	2.24	239	2.58	-	-	-	-	-	-	135	2.12		2
etup men, machine tools	58	3.19			693	3.48			107	3.74	141	3. 29			33	3.49	-	-	:		52	3
ool and die makers (jobbing)	266	3.76	285	4.08	436	3.71	705	3.95	243	3.99	601	3.94	319	3.75	111	3, 39	-	-	212	3.97	-	
ool and die makers (other than	134	3.88	69	3, 66	376	1 02	316	4.11	251	4.03	333	4.00	48	3, 83	68	3, 53	75	2 75	57	2 50	106	3
ool clerks	97	2.95		2.93		4.03	121	3.03	82	2.80		2.93		2.93	39	2, 62	20	3.75 2.65		3. 58 2. 52		2
elders, hand, class A	217	3. 21		3.64		3.74	336	3.72	223	3. 69	544	3, 55		3.57	43	3.55	73	3.50		2.98	642	3
elders, hand, class B	-	-	73	3. 24		2.88	128	3.34	332	2.74		3.15		2.97	-	-	35	3.00	140	2.59		3
Velders, machine, class A	-	-	-	-	-	-	-	-	-	-	-	-	46	3, 41	0-1	-	7	3.79	29	2.82	14	3
Velders, machine, class B	-	-	-	-	29	2.76	-	-	30	2.93	119	2.73	17	2.93	-	-	-	-	31	2. 29	-	

Table 1. Occupational Averages in 21 Areas: Men-Continued

						North	Central									West				
Occupation		cago		reland		troit		aukee	St.	apolis- Paul		Louis		nver	and Anahein Garden	s—Long Beach n—Santa Ana— i Grove		tland	Franc	an cisco— cland
occupation	Num-	Aver-	Num-	Aver-	Num-	Aver-	Num-	Aver-	Num-	Aver-	Num-	Aver-	Num-	Aver-	Num-	Aver-	Num-	Aver-	Num-	Aver-
	ber of work- ers	age hourly earn- ings	ber of work- ers	age hourly earn- ings	ber of work- ers	age hourly earn- ings	of work- ers	age hourly earn- ings	ber of work- ers	age hourly earn- ings	ber of work- ers	age hourly earn- ings	of work- ers	age hourly earn- ings	ber of work- ers	age hourly earn- ings	ber of work- ers	age hourly earn- ings	ber of work- ers	age hourly earn- ings
	2 501	02.72	. 2//	00.75		0 4 20	. 00/	0.2.00	. 220	00.00	424	00.05		40.00		20.00	2/4			
Assemblers, class A	3,501	\$3.72		\$3.75		\$4.39		\$3.88		\$3.31	434	\$3.85	240	\$3.20	1,136	\$3.32	360	\$3.97	165	\$4.2
Assemblers, class B	2,930	3.15	788		1,734		1,855		1,153	2.91	563	3.52	75	2.95	1,184	2.76	165	3.49	309	3. 3
Assemblers, class C	1,831	2.62	256		1,298	3.37		3.24	498	2.81	467	2.82	200	1.92	600	2. 37	-	-	392	3.0
Carpenters, maintenance	66	3.77	38	3.61	30	4.19		4.01	-	-	-	-	-	-	34	3.72	-	-	8	4.4
Electricians, maintenance	447	4.32	194	3.87	241	4.55		4.07	58	4.16	92	4.29	15	3.70	83	3.95	-	-	24	4.6
Inspectors, class A	1,075	3.74	411	3.65	514	4.09	645	3.76	378	3.54	88	4.28	69	3.50	712	3.76	59	4.03	138	4.5
Inspectors, class B	740	3. 31	375	3.56	720	3.57	474	3.44	307	3.20	188	3.46	41	2.97	273	3.15	-	-	-	-
Inspectors, class C	340	2.86	77	3.38	228	3.35	129	3.12	-	-	-	-	6	2.95	107	2, 65	-	-	-	-
Janitors, porters, and cleaners	1,394	2.63	399	2.75	1.253	3.07	570	2.89	431	2.56	209	2.74	80	2.46	644	2, 37	76	2.88	85	3.0
Laborers, material handling	2,204	2.77	461	2.99		3. 28	922	2.81	476	2.87	420	2.82	50	2.56	228	2, 55	61	3.30	128	3. 2
Machine-tool operators, production, class A <sup>3</sup>	9,172	3.84	4,388	3.73	5,485	4. 20	2,951	3. 89	1,965	3.54	1,056	4. 33	352	3.92	3,703	3, 82	582	4.02	848	4.4
Automatic-lathe operators,																				
class A	585	3.96	94	3.66	70	3, 62	145	4,03	132	3.60	-	-	8	3, 55	61	3.72	34	3.94	18	4.3
Drill-press operators, radial, class A	854	3.72	289	3, 66	144	4.36	239	3, 75	125	3, 52	41	4.11	30	4.06	148	3, 52	44	3, 85		
Drill-press operators, single- or	001	3.1.0	20,	5,00		1.50	257	3.10	100	3,55			30	1.00	110	3.32		3,03		
multiple-spindle, class A	380	3,53	192	3.76	200	3, 51	48	4.02	156	3, 25	_	_	13	3,58	54	3, 43	-	1-1	_	-
Engine-lathe operators, class A	1,212	3.83	350	3.66	406	4.42		3.80	154	3.60	-	-	77	3,59	620	3.82	158	4.05	113	4.3
Grinding-machine operators,	1.423	3.95	764	3, 88		4, 23	259	4.02	193	3, 52	80	4. 20		-	610	3, 79	8	3.95	-	
Milling-machine operators,	919	3, 83	670	3, 82	542	4, 30	261	4.00	140	3, 53	142	4, 43			646	3, 79	53	4.02	70	4.3
Screw-machine operators, auto-	1												-	-			33	4.02		
matic, class A Turret-lathe operators, hand (including hand screw machine),	435	4.03	227	3. 86	206	3.96	141	3. 91	75	3.76	67	4.19	-	-	48	3, 78	-	-	81	4.1
class A	1,096	3. 79	516	3.68	788	4. 11	605	3.79	284	3.59	102	4.08	72	4.19	630	3.74	88	4.01	102	4.2
Machine-tool operators, production, class B <sup>3</sup>	4,535	3. 39	2,030	3, 44	6, 144	3, 53	2,578	3.53	1,351	3, 14	734	3.68	176	3.18	1,726	3. 25	270	3. 46	473	3.5
class B	152	3.67	-	-	68	3.60	87	3.58	-	-	- 2	-	7	2.89	14	3, 20	-	-	-	-
Drill-press operators, radial, class B	321	3, 33	86	3, 44	548	3, 50	425	3, 50	161	3. 28	34	4.01	23	3.11	114	3. 19	88	3.51	70	3.5
Drill-press operators, single- or	690	3, 25	242	3.76	929	3, 41	173	3, 52	113	3.05			20	3,00	119	2 02	24			2.0
multiple-spindle, class B	458	3. 39	169	3, 51	246	3, 40	133	3.57	78	3.17	-	-	29	3.00	117	2. 82 3. 29	34	3, 32	54	3.3
Grinding-machine operators, class B	740	3.36	369	3.41	2,137	3.57	239	3.64	50	3. 23	90	3.49	-	-	538	3. 26	-	-	84	3.8
Milling-machine operators, class B	604	3, 45	326	3.56	837	3.60	266	3.46	112	3.19	158	4.04	19	3.44	107	3, 07	6	3, 41	_	-
Screw-machine operators, auto-							1			1				1111111						
matic, class B	139	3.51	34	3, 55	196	3, 81	138	3, 40	-	-	61	4.39	-	-		-	-	-	-	-
class B	514	3.37	163	3,43	575	3.48	422	3. 39	108	3.16	63	3.35	16	3.70	172	3.04	25	3, 50	14	3.4

#### Table 1. Occupational Averages in 21 Areas: Men—Continued

(Number and average straight-time hourly earnings 1 of men in selected occupations in machinery manufacturing establishments, September—November 1968 2)

						North (	Central									West				
Occupation		cago		reland		roit		aukee	St.	apolis— Paul		Louis	1 1 1 1 1 1 1	nver	and Anaheir Garder	—Long Beach n—Santa Ana— n Grove	Por	tland	Franc	an cisco- cland
оссирания	Num- ber of work- ers	Aver- age hourly earn- ings	Num- ber of work- ers	Aver- age hourly earn- ings	ber	Aver- age hourly earn- ings	Num- ber of work- ers	Aver- age hourly earn- ings	ber	Aver- age hourly earn- ings										
Machine-tool operators, production, class C <sup>3</sup>	2,252		1,152		2,353		588	\$2.93	572	\$2.88	129	\$2.98	18	\$2.77	1,038	\$2.69	-	-	_	-
Automatic-lathe operators, class C	-	-	-	-	22	3. 17	-	-	-	-	-	-	-	-		-	-	-	-	-
class C	89	2.79	-	-	132	3.16	56	2.93	-	-		-	-	-	-	-	-	-	-	-
multiple-spindle, class C Engine-lathe operators, class C Grinding-machine operators,	323 27	2. 69 3. 30	59 -	2.87	145	3.46	170	3.00	87	2.79	21	2.91	-	-	169	2. 37	:	:	:	1
class C	-	-	93	3.06	996	2.86	10	3, 20	-	-	-	-	-	-	214	2.56	-	-	-	-
class C	207	2.54	56	2.99	278	3. 32	58	3, 33	13	2.71	-	-	-	-		-	-	-	-	-
matic, class C Turret-lathe operators, hand (including hand screw machine),	76	2.94		-		-	-	-	-	-	Ī	-	-	-		-	-	-		
Machine-tool operators, toolroom	506	2.76	44	3.00	33	3.05	100	2.65	-	-		-	-	-	87	2.93	-		-	-
(operate 1 type of machine) Machine-tool operators, toolroom (operate more than 1 type of	1,423	4. 29	413	4.12	4,859	4.81	323	3.88	107	3, 55	57	4.08	9	3.92	678	4. 29	-	-	-	-
machine)	786 314 215	3.90	186 86 83		417 102	4. 64 4. 65	320 139 26	3. 98 3. 81 3. 80	210 42 154	3.63 3.58 3.57	218 57 402	4.56 4.17 4.52	45 22 54	3.56 3.81 3.25	483 53 1,117	3. 98 3. 90 4. 04	26 17	\$4.10 4.07	- 48 581	\$4. 3 4.
Mechanics, maintenance	488 283	3.84	149 64	3. 87 3. 40	372 147	4. 59 4. 36	151 78	4. 17 3. 61	55	3.74	67	4. 24	22	3. 53	193 38	3. 60 3. 37	:	:	-	-
operators	137 481 915	3.06 3.32 2.72	212 82 185	3. 28 3. 13 2. 81	37 - 485	3. 34	48 173 192	3. 20 3. 45 3. 29	126 225	3. 24 2. 94	226 125	3.75 3.19	70	- 2, 35	63 100	3.16 2.51	14	3.78	113	3. 2
Setup men, machine tools Tool and die makers (jobbing)	371 2,420	3.71 4.58	173 1,266	3. 58 4. 11	864 4,936	3. 77 4. 97	605	4. 36	45 382	3. 51 4. 27	91 352	4.03	-	-	48 988	4. 04 4. 52	=	:	147	5. 2
Tool and die makers (other than jobbing) Tool clerks	1,213	4. 37 3. 19	367 178	4.00	457 297	4. 82 3. 58	327 144	4. 37 3. 19	265 76	4.08 3.10	240 45	4.72	96 26	4.45	339 183	4. 34 2. 89	12 13	4.50 3.50	200 56	5. 1
Welders, hand, class A	2,227 652 201 232	3.75 3.81 3.49 2.85	513 331 - 28	3. 39 3. 38 - 3. 40	399 480 37	3. 92 3. 43 4. 09	820 1,185 119 81	3.70 3.51 3.67 3.13	798 585 - 32	3.44 3.01 - 2.96	395 61 - 41	3.98 3.24 - 2.86	141 55 -	3.43	1,176 217 21	3. 63 3. 08 3. 52	566 41 -	3.99 3.50	332	4.1

Excludes premium pay for overtime and for work on weekends, holidays, and late shifts.
 Payroll periods covered in individual areas are indicated in the tables 4-24.
 Includes data for operators of other machine tools in addition to those shown separately.

NOTE: Dashes indicate no data reported or data that do not meet publication criteria.

Table 2. Occupational Averages in 12 Areas: By Method of Wage Payment

						North	neast					
Occupation	В	oston		New Britain— istol		rk, and ey City	New	York	Phila	adelphia	Word	cester
	Number of workers	Average hourly earnings										
Assemblers, class A:												
Timeworkers	579	\$3.26	84	\$3.59	553	\$3.51	779	\$3.47	1,301	\$3.18	225	\$ 3. 33
Incentive workers	139	4.36	174	3.65	113	3.76		-	84	4. 12	_	_
Assemblers, class B:	1.57	1,50		3,05		5						
Timeworkers	398	2.92	133	3.01	434	3.21	737	2.77	789	2.69	149	2.96
Incentive workers	52	3.60	133	3.01	240	3. 46	21	3.47	-	2.07	117	2. 70
	36	3.00			240	3.40	21	3.41		_		
Assemblers, class C:	105	2 /2	153	2 02	336	2.62	744	2.30	525	2.25	31	2.83
Timeworkers	185	2.62		2.83						2.25		2.83
Incentive workers		-	-	-	-	-	250	2.37	-	-	-	-
Machine-tool operators, production, class A:									2 222			
Timeworkers	1,246	3.30	960	3.48	1,144	3.51	1,738	3.54	2,093	3.38	827	3. 25
Incentive workers	373	3.92	458	3.64	253	3.85	131	3.71	565	4.00	176	3.84
Machine-tool operators, production, class B:												
Timeworkers	980	2.95	681	3. 19	1,844	3.55	1,372	2.86	1,516	3.07	331	2.88
Incentive workers	71	3.49	910	3.32	120	3.60	141	3.43	-	-	-	-
Machine-tool operators, production, class C:												
Timeworkers	465	2.52	737	3.21	391	2,53	1.113	2.25	852	2.35	98	2.58
Incentive workers	-	-	434	3.45	70	3.25	173	2.46	-	-	-	-
	So	uth				North Cer	ntral				W	Vest
			-			1101111 001	1					
	Baltin	more	Chi	cago	Clev	reland	Milw	aukee	St. Lo	ouis	and Anaheir	s-Long Beac n-Santa Ana n Grove
Assemblers, class A:												
Timeworkers	59	\$3.26	3,028	\$3.68	886	\$3.46	614	\$3.52	389	\$3.88	1,123	\$3.32
Incentive workers	87	3.88	473	3.97	380	4.44	482	4.35	-	Ψ σ σ σ σ	1,120	40.00
Assemblers, class B:	01	3.00	113	3. //	300	1. 11	102	1.33		_		
Timeworkers	168	2.86	2,359	3, 05	590	3.05	1.028	3, 29	338	3.18	1,184	2.77
Incentive workers	29	3. 24	571	3.56	198	4.13	827	3. 92	225	4. 03	1,104	2.77
	27	3. 24	5/1	3, 30	170	4.13	120	3.72	223	4.03	-	-
Assemblers, class C:	79	2,50	1 730	2,53	168	2.73	494	3, 05	464	2.81	600	2.37
Timeworkers		100.000	1,728							2.81	600	2.31
Incentive workers	-	-	103	4.14	88	3.71	329	3.51	-	-	-	-
Machine-tool operators, production, class A:												
Timeworkers	552	3.45	7,306	3.77	3,265	3.54	1,473	3.65	615	4.07	3,628	3.81
Incentive workers	181	3.83	1,866	4.10	1,123	4.31	1,478	4.12	-	-	-	-
Machine-tool operators, production, class B:											0.000	
Timeworkers	250	2.92	3,141	3.25	1,490	3.22	1,432	3. 32	457	3.60	1,701	3.25
Incentive workers		-,	1,394	3.72	540	4.04	1,146	3.79	277	3.82	-	-
Machine-tool operators, production, class C:			76.76									
Timeworkers	483	2.64	2,044	2.73	1,100	2.52	363	2.81	107	2.93	1,038	2.69
Incentive workers		-	208	3.53	52	3, 47	225	3, 13	22	3.21		1 22

<sup>1</sup> Excludes premium pay for overtime and for work on weekends, holidays, and late shifts.

NOTE: Dashes indicate no data reported or data that do not meet publication criteria.

#### Table 3. Occupational Averages in 9 Areas: By Selected Industries

(Number and average straight-time hourly earnings of men in selected occupations in establishments primarily manufacturing selected products, September-November 1968)

		Chic	cago		Cleve	eland		Det	roit		and Anaheir	s—Long Beach n—Santa Ana— n Grove	New	York
Occupation		al dies	Machin	ne-tool ories 3		al dies		al dies	Machin		Oil f machi	ield	Paper an	d printing
	Number of	Average hourly earnings	Number of workers	Average hourly earnings	Number of	Average hourly earnings	Number of workers	Average hourly earnings		Average hourly	Number of workers	Average hourly earnings	Number of	Average
Assemblers, class A			69	\$3.74			33	\$4.49	35	\$4.52	115	\$3.53	317	\$ 3, 59
	-	-	38	3.23	-	10.7	17	3.59	-	\$4.52			118	2.97
Assemblers, class B	-	-	16	2.92	-	-	11	3.59	-	-	-	-	54	
Assemblers, class C	-	-		3.87	8	02/7	41	1 40	8	4.53	15	2.72		2.93
Electricians, maintenance	2.	02.44	20			\$3.67		4.40		4.53		3.72	24	3.54
Inspectors, class A	26	\$3.66	38	3.75	13	3.62	-	-	96	4.01	35	3.61	59	3.58
Inspectors, class B		-	47	3.32	-	-	-	-	55	3.55	-	-	28	3. 12
Inspectors, class C		-	21	2.75	-		-	-	23	3.26	-	-	-	-
Janitors, porters, and cleaners	92	2.58	76	2.51	57	2.36	392	3.21	124	2.88	38	2.97	54	2.45
Laborers, material handling	-	-	49	2.71	-	-	-	-	37	3.35	-	-	105	2.61
Machine-tool operators, production, class A6	-	-	672	3.92	-	-	-	-	1,917	4.04	370	3.68	457	3.60
Engine-lathe operators	-	-	86	3.77	-	-	-	-	98	3.99	58	3.77	-	-
Grinding-machine operators	-	-	358	4.05	-	-	-	-	1,187	4.03	43	3, 55	39	3.64
Milling-machine operators	-	_	70	3.85	-	-		-	264	4.09	72	3.38	123	3.64
Screw-machine operators, automatic	-	-	45	3.86	-	-	-	-	79	3.93	-	-	-	_
Turret-lathe operators, hand (including														
hand screw machine)	-	-	44	3,50	-	_	-	-	132	3.99	71	3.91	-	-
Machine-tool operators, production, class B6	268	3.33	403	3, 40	297	3, 31	283	3.99	1.471	3.53	64	3.25	194	3, 10
Drill-press operators, radial	23	3.06		-	19	3.28		-	.,	-	-	-	.,.	1
Drill-press operators, single- or multiple-		3.00		-	1 ./	3.20			-		1	1 -	-	1
spindle	-		40	3. 17			100				-		12	3. 07
Engine-lathe operators	1	-	35	3.49	34	3, 35		1 5	75	3.41	-	-	10	3. 20
		1 7	148	3.48	43	3.36	-	1 7	864	3.50	1 1	-	18	3. 29
Grinding-machine operators			92	3. 33	43	3.30	106	4.24	328	3.62	1	-	36	2.96
Milling-machine operators	-	-	92	3, 33	-	-	100	4.24	340	3.02	-	-	36	2.90
Turret-lathe operators, hand (including hand			40	2 20					10	2 20	1			
screw machine)	-	2.55	49	3. 29	4.5		240	2.40	69	3. 28	-	-	1=	1
Machine-tool operators, production, class C 6	89	2.55	257	2.82	43	2.72	248	3.60	566	3.07	-	-	147	2.54
Drill-press operators, radial	-	-	-	-	-	-	93	3.41	-	-	-	-	-	-
Drill-press operators, single- or multiple-			1	200							1			
spindle	-	-	44	2.54	-	-	-	-	-	-	-	-	-	-
Engine-lathe operators		-	16	3.42	-	-	-	-	-	-	-	-	-	-
Grinding-machine operators		-	92	3.14	-	-	-	-	366	3. 25	-	-	7	2.86
Milling-machine operators	-	-	58	2.66	-	-	47	4.02	141	3.11	1 -	-	-	-
Turret-lathe operators, hand (including hand				100						2008				1
screw machine)	-	-	38	2.45	-	-	-	-	23	2.92	-	-	-	-
Machine-tool operators, toolroom (operate 1				1										,
type of machine)	744	4.41	-	-	286	4.10	4,481	4.82	-	-	-	-	-	-
Machine-tool operators, toolroom (operate more						27.7								1
than I type of machine)	314	4.06		-	64	3.45	304	4.75	-	_	37	3, 84	-	1 -
Machinists, maintenance		-	32	4.01	-	-	21	4.86	-	_	-	-	10	3.64
Mechanics, maintenance		-	6	3.55	9	3.77	134	4.75	48	4.30	17	3.73	-	
Punch-press operators, class B		2.53	1	3.33	66	2.36	1	1	-		1	3.15	13	2.45
Tool and die makers (jobbing)		4.62	-	-	876	4.18	4,936	4.97			1			
Tool and die makers (other than jobbing)	2,132	1.02	29	4.33	0.0	1.10	-, ,50	1. //	15	4.57	1 -		19	3. 82
Tool clerks		3. 17	8	2.92	8	2.85	99	3.60	8	3.68			6	3. 10
Welders, hand, class A		3.17	7	3.91	10	4. 14	71	4.35	18	3.90		3.67	10	3. 57
weiders, nand, class A	-	-	1 '	3. 71	10	4.14	/ / /	4.35	10	3.90	121	3.07	10	3.57

#### Table 3. Occupational Averages in 9 Areas: By Selected Industries-Continued

(Number and average straight-time hourly earnings of men in selected occupations in establishments primarily manufacturing selected products, September-November 1968)

	Во	ston	Hartford—N Bri	ew Britain— stol	and Anahein	—Long Beach n—Santa Ana— n Grove	Milw	aukee	Newar Jerse	rk and y City	New	York
Occupation					Special dies a	nd tools and ma	achine-tool	ccessories 7				
	Number of workers	Average hourly earnings	Number of workers	Average hourly earnings	Number of workers	Average hourly earnings	Number of workers	Average hourly earnings	Number of workers	Average hourly earnings	Number of workers	Average hourly earnings
Inspectors, class A	16	\$3.57	32	\$3.33	177	\$4.01	6	\$4.16	21	\$3.74	24	\$3.75
Inspectors, class B	23	2.92	43	3.08	11	2.97	-	-	-	-	-	-
Inspectors, class C	-	-	-	-	14	2.51	-	-	-	-	-	-
Janitors, porters, and cleaners	8	2.22	29	2.45	97	2.36	15	2.51	66	2.22	34	2.11
Laborers, material handling	-	-	-	-	-	-	-	_	-	-	27	2.23
Machine-tool operators, class A 6	177	3.40	463	3.56	266	3, 80	-	-	109	3.45	159	3.57
Engine-lathe operators	-	-	36	3.63	69	4.00	-	-	-	-	-	-
Grinding-machine operators	52	3.48	248	3.57	71	3.64	-	-	-	-	44	3.41
Milling-machine operators	25	3. 28	72	3.31	-	-		1	-	-	-	-
Turret-lathe operators, hand (including hand												1
screw machine)	-		51	3.65	16	3.26	-	-	-	-	-	-
Machine-tool operators, class B 6	204	2.89	385	3.09	220	3.29	83	3.01	173	3.19	370	2.95
Drill-press operators, single- or multiple-												
spindle	-	1 - 2	-	-	9	2.96	-	-	20	2.72	-	-
Engine-lathe operators	-	-	18	3. 26	-	-	-	-	22	3.22	-	-
Grinding-machine operators	32	2.98	273	3.00	96	3.04	44	3.03	61	3.25	104	2.92
Milling-machine operators	24	2.74	39	3.34	-	-	-	1 200	-	-	39	2.88
Turret-lathe operators, hand (including hand												
screw machine)	-	-	6	3.36	11	2.74		-	-	-		-
Machine-tool operators, class C6	125	2.45	158	2.81	88	2.28	-	-	210	2.38	277	2.36
Grinding-machine operators	10	2.49	76	2.58	_	-	-	-	44	2.72	-	-
Machine-tool operators, toolroom (operate												
l type of machine)	-	-	154	3.89	653	4.31	157	4.00	187	3.60	-	-
Machine-tool operators, toolroom (operate												
more than I type of machine)	-	-	96	3.35	302	3.99	67	4.04	240	3.49	-	-
Mechanics, maintenance	-	-	-	-	19	3.70	-	-	-	-	-	-
Punch-press operators, class B	78	2.19	-	-	_		(-)	-	92	2.34	-	-
Tool and die makers (jobbing)	254	3.77	400	3.70	980	4.53	605	4.36	705	3.95	207	4.02
Tool and die makers (other than jobbing)	-	-	28	3.72	189	4.51		-	-	-	-	-
Tool clerks	-:	-	6	2.66	46	2.94	-	-	7	2.62	-	-
Welders, hand, class A	_	-	-	-	61	3.97	_	-	-	_	-	-

 $<sup>^1</sup>$  Excludes premium pay for overtime and for work on weekends, holidays, and late shifts.  $^2$  Includes data for establishments classified in SIC 3544.

NOTE: Dashes indicate no data reported or data that do not meet publication criteria.

Includes data for establishments classified in SIC 3545.
 Includes data for establishments classified in SIC 3533.

Includes data for establishments classified in SIC 3554 and SIC 3555.
 Includes data for operators of machine tools in addition to those shown separately.

Includes data for establishments classified in SIC 3544 and SIC 3545.

#### Table 4. Occupational Earnings: Baltimore, Md. 1

											NUM	BER OF	WORK	ERS REC	CEIVING	STRAI	GHT-TI	ME HOU	RLY EA	RNING	or-							
	Number	Average	\$1.60	\$1.70	\$1.80	\$1.90	\$2.00	\$2.10	\$2.20	\$2.30	\$2.40	\$2.50	\$2.60	\$2.70	\$2.80	\$2.90	\$3.00	\$3.10	\$3.20	\$3.30	\$3.40	\$3.50	\$3.60	\$3.70	\$3.80	\$4.00	\$4.20	\$4.
Occupation and sex	of workers	hourly earnings 2	and	-	_	_	- 1			_	_		_		_	_		_	_	12.1	_	_	-		_	1		ar
			under \$1.70		\$1.90	\$2.00	\$2.10	\$2.20	\$2.30	\$2.40	\$2.50	\$2.60	\$2.70	\$2.80	\$2.90	\$3.00	\$3.10	\$3.20	\$3.30	\$3.40	\$3.50	\$3.60	\$3.70	\$3.80	\$4.00	\$4.20	\$4.40	
Men																												
ssemblers, class A	146	\$3.63				1							2	7	20	5	3		6	24	13	10	1	6		2	5	1
ssemblers, class B	197	2.91	_	_		_	_	_	5	4	2	10	19	51	35	7	4	36	6	5		1	1	_	3	9	_	
ssemblers, class C	82	2. 54		5		_	2	2	3	13	5	9	27	5	8	1	1	1 1	-	_	-		1			ĺí		
ectricians, maintenance	39	3.59		-			_	_	_	-	_			_	_	100	120	1 1	1	5	2	9	9	13	130	1	100	
spectors, class A	87	3, 60					-				1	-			1	4		2	12	3	-	9	28	9	13	7	-	
spectors, class B	43	3. 20						-	_		2	2		_	2	1	12	7	2	-	1	9	20	1	2	2	-	
nitors, porters, and	13	3.20	-	-	-	_	-	-	-	-		-	-	-	-	1	12		-	-		,	-	1	-	-	-	
cleaners	115	2. 10	7	17	23	4	7	12	6	13	13	2	6	3	2	100	100						1	32				1
borers, material	115	2. 10	'	11	23	4	,	12	0	13	13	2	0	3	-	-	-	-	-	-	7	-	-	-	-	-	-	1
andling	76	2. 34		8	6	12	100	1	1	16	13	4			_	1	2	12		_		_						
achine-tool operators,	10	2. 34	-	0	0	12	-	1	1	10	13	4	-	-	-	1	-	12	-	-	-	-	-	-	-	-	-	
	733	3, 54									3	3	13	4	3	3	23	22	15	148	136	118	2/	12	20	2/	20	
roduction, class A	133	3, 54	-	-	-	-	-	-	-	-	3	3	13	4	3	3	23	22	65	148	136	118	36	13	28	26	29	
chine-tool operators,	387	3, 15						5	5		6		6	25	1.5				2.0						1			
production, class B	387	3. 15	-	1	1	4	4	5	5	1	0	9	0	25	15	58	55	42	38	13	12	21	11	14	18	17	4	
achine-tool operators,	561	2.67	5		1.77		2	-	30	1	7.1	112	65	86	91	32	20	12		2	6	2	2	,	١,			1
production, class C	561	2.01	2	4	-	-	2	1	30	2	71	113	65	86	91	32	20	12	4	2	6	3	2	1	1	2	-	
achine-tool operators,																									1			
coolroom (operate 1																												1
type of machine)	46	3.67	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	1	16	6	-	-	10	3	5	
achine-tool operators,																									1			
coolroom (operate more	12.00	4.44																			1							1
han I type of machine)	58	3.65	-	-	-	-	-	-	-	-	-	-	-	-	1	1	4	1	6	8	7	-	-	4	9	15	1	
achinists, maintenance	24	3.53	-	-		-	-	-	-	-	-	-	1.5	-	-	-	-	-	4	2	1	4	9	4	-	-	-	
chinists, production	252	3.57	-	-	-	-	-	-	-	-	-	-	11	10	-	-	11	4	-	36	-	-	103	55	11	2	-	
ool and die makers (other		1.0																										
han jobbing)	75	3. 75	-	- '	-	-	-	-	-	-	-	-	-	-	-	-	2	-	6	-	2	2	22	1	29	11	-	
ool clerks	20	2.65	-	-	-	-	-	-	4	2	2	-	etc. 1	5	-	3	-	3		-	-	-	-	-	-		-	
elders, hand, class A	73	3.50	-	-	-	-	-	-	-	-	-	-	-	-	3	-	7	2	2	14	9	21	-	-	-	15		
lders, hand, class B	35	3.00	-	-	-	-	-	-	-	-	-	4	2	7	4	1	4	8	-	-	2	-	-	-	2	1	-	
elders, machine, class A	7	3. 79	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	-	-	1	2	-	-	-	
Women																												
chine-tool operators,																												
production, class C	106	2.92	-	-	-	-	-	-	-		2	2	42	21	3	7	3	4	4	5	2	2	3	1	2	1	1	

The Baltimore Standard Metropolitan Statistical Area consists of Baltimore City, Anne Arundel, Baltimore, Carroll, Harford, and Howard Counties.

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

All workers were at \$4,40 to \$4,60.

Table 5. Occupational Earnings: Boston, Mass.1

												BER OF																
Occupation and sex	Number	Average				\$2.20	\$2.30	\$2.40	\$2.50	\$2.60	\$2.70	\$2.80	\$2.90	\$3.00	\$3.10	\$3.20	\$3.30	\$3.40	\$3.50	\$3.60	\$3.70	\$3.80	\$3.90	\$4.00	\$4.20	\$4.40	\$4.60	\$4.80
Occupation and sex	of workers	hourly earnings 2	Under	and under	-	-	_	-		-	-	-	-	-	-		_	_	-	-	-	-	-	-	-	_	-	and
			φ2.00			\$2.30	\$2.40	\$2.50	\$2.60	\$2.70	\$2.80	\$2.90	\$3.00	\$3.10	\$3.20	\$3.30	\$3.40	\$3.50	\$3.60	\$3.70	\$3.80	\$3.90	\$4.00	\$4.20	\$4.40	\$4.60	\$4.80	over
Men																												
Assemblers, class A	718	\$3.47				6	_	6			10	22	6	46	55	179	124	146	5	14	20	1	4	2			6	66
Assemblers, class B	450	3.00	-	-	-	-	13	12	28	40	27	51	61	96	39	34	5	21	1	2	4	1	1	1	2	4	4	3
Assemblers, class C	186	2.62	2	1	18	20	31	1	11	1	57	6	14	17	6	-	-	-	-	1	-	-	-	-	_	-	-	-
Carpenters, maintenance	25	3.23	-	-	-	-	_	12	-	5	1	_	1	-	_	4	3	2	9	-	-	-	-	-	-	-		-
Electricians, maintenance	79	3, 61	-	-	-		-		-	2	_	-	6	-	8	-	4	3	10	18	2	10	_	10	6		_	-
Inspectors, class A	205	3,42	-	-		_	-	_	_	-	_	6	7	11	11	43	17	35	10	44	14	3	-	4	-	-	-	
Inspectors, class B	144	3,01		-	-	1	3	2	2	10	12	4	42	12	23	20	7	5	1		-	-	_	1 :	-	-	_	
Inspectors, class C	83	2. 74	2		4	4	2	2	2	5	10	7	34	8	-			_										
Janitors, porters, and	03	2. , 1	_				_	_	_				31	0	1		-	-				-		1				
cleaners	223	2.37	1	31	23	41	34	43	16	-	4	20	10											1				
Laborers, material	223	2.51	1	31	23	4.1	34	13	10		- 1	20	10	-	-	-	-	-	-	-	-	-	-	-	-			-
	249	2.68	4	13	18	14	13	17	19	17	23	31	22	39	_		19											
handling	249	2.00	4	13	10	1.4	13	17	19	11	23	31	22	39	-	-	19	-	-		-	-	-	-	-	-	-	-
Machine-tool operators,	1 (10	2 44							10	,		27		- 00	12/	212	201	2/4	100		,,		20		22	25	21	24
production, class A	1,619	3.44	-	-	-	-	-	-	10	6	44	37	54	98	136	213	296	264	100	55	66	43	27	52	23	25	36	34
Machine-tool operators,																												
production, class B	1,051	2.99	-	-	-	2	12	32	82	73	117	96	.99	109	126	162	58	37	14	2	3	12	2	6	-	3	-	4
Machine-tool operators,								0.00		1 33																		
production, class C	467	2.52	4	14	-	36	56	142	89	43	8	29	20	5	10	11	-	-	-	-	-	-	-	-		-	-	-
Machine-tool operators,																								1				
toolroom (operate 1 type																								1				
of machine)	47	3.38	-	-	-	-	-	-	-	-	4	1	1	5	3	1	1	13	9	-	2	6	1	-	-	-	-	-
Machine-tool operators,																												
toolroom (operate more																												
than 1 type of machine	46	3.45	_	-	-	-	-	_	_	-	_	-	6	-	-	_	8	1	21	-	10	-	-	-	-	-	_	-
Machinists, maintenance	22	3.87	-	-	-	-	_	_	_	-	_	-		-	_	_	-			9	4	2		-	7	-	-	-
Machinists, production	426	3.58	1	-			13.		_		8			10	8	27	16	108	132	4	79	5	3	8			-	18
Mechanics, maintenance	55	3. 63		-	_	-	-	_	-		-			2	4	4	2	1	5	13	8	11	-	5		-		
Polishers and buffers.	33	3. 03	_	-		-		-	-			-		-	- 1	- 4	-		3	13	0	1.1	1 2	1	_		-	-
metal	12	2.77		2	3	1		-	-		1	1	1		-			2		_	-	_	100	1				,
	12	2.11	-	2	,	1	-	-	1 -	-	1	1	1	-	- 2	100	1.5	2	7	-	-	-	-	-	-	-	-	1
Punch-press operators,	48	2.93								1	4	35	,		100	2	2	2		1				1				
class A	48	2.93	-	-	-	-	-	-	-	1	4	35	1	-	-	2	2	2	-	1	-	-	-	-	-	-	-	-
Punch-press operators,	112	2 27		2/	10	1.4			2.2	,			,		-									1				
class B	113	2. 37	-	26	18	14	4	12	22	1	-	-	1	8	7	-	-	-	-	-	-	-	-	-	-	-	-	-
Setup men, machine																								1				
tools	58	3. 19	-	-	-	-	-	-	-	-	-	-	-	38	2	-	11	1	-	5	-	-	-	-	1	-	-	-
Tool and die makers																								1				
(jobbing)	266	3.76	-	1-	-	-	-	-	-	-	-	4	-	4	4	8	20	18	42	4	28	24	12	76	14	8	-	-
Tool and die makers (other								1 3																				
than jobbing)	134	3.88	-	-	-	-	-	-	4	-	-	-	-	1	-	3	-	15	6	20	16	-	31	7	32	1	2	-
Tool clerks	97	2.95	-	-	-	3	1	1	7	11	8	17	5	7	4	-	29	4	_	-	-	_	-	-	-	-	_	-
Welders, hand, class A	217	3.21	-	-	-	-	-	-	-	1	21	9	6	40	39	6	41	37	5	5	4	-	-	3	-	-	-	-
Women																												
Inspectors, class C	58	2. 35		2	5	26	2	7	15	1	_	_	_	_	_			_	_		-	_			_	-	_	
Janitors, porters, and				-						1																		
cleaners	7	2.17	-	4	-	2	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

The Boston Standard Metropolitan Statistical Area consists of Suffolk County, 15 communities in Essex County, 30 in Middlesex County, 20 in Norfolk County, and 9 in Plymouth County.
 Excludes premium pay for overtime and for work on weekends, holidays, and late shifts.

# Table 6. Occupational Earnings: Buffalo, N.Y.1

											NUM	BER OF	WORK	ERS REC	CEIVING	STRAIG	GHT-TIM	ME HOU	RLY EA	RNING	s of-						
	Number	Average	\$1.80	\$1.90	\$2.00	\$2.10	\$2.20	\$2.30	\$2.40	\$2.50	\$2.60	\$2.70	\$2.80	\$2.90	\$3.00	\$3.10	\$3.20	\$3.30	\$3.40	\$3.50	\$3.60	\$3.70	\$3.80	\$4.00	\$4.20	\$4.40	\$4.6
Occupation and sex	of workers	hourly earnings 2	and			100					_			-				_				-			-		
	WOTAGES		under \$1.90		\$2.10	\$2.20	\$2.30	\$2.40	\$2.50	\$2.60	\$2.70	\$2.80	\$2.90	\$3.00	\$3.10	\$3.20	\$3.30	\$3.40	\$3.50	\$3.60	\$3.70	\$3.80	\$4.00	\$4.20	\$4.40	\$4.60	\$4.8
Men																											
Assemblers, class A	332	\$3.58	١.	_	_		_	_			_	_	8		22	6	14	41	81	2	24	24	84	26		- 2	
Assemblers, class B	322	3.12	-	_	_		_	_	_	11	8	28	55	27	12	23	44	72	18	10	8	1	5			_	
Assemblers, class C	69	3.03		-	_	1		3	-	1 1	3	-	14	-	16	15	12	3	3	-	_	-	_	_			
Electricians, maintenance	74	3.56				_		_	1	1 23				2	-	2	4	4	9	29	5	-	19	_	_		
Inspectors, class A	114	3.69					_		-			1		2	5		- 1	4		4	23	70	3	3			
Inspectors, class B	75	3.38					20	1	_	1 2	-			4	_	20	5	19	7	11			_	8			
Inspectors, class C	57	2. 68	1 -					_	_	20	22	2	9	2	1	1	_	.,		1		_		_			
Janitors, porters, and cleaners	188	2.44	3 12	10	2	24	3.3	2	14	80	15	9	15	3	2	_							-				
Laborers, material handling	79	2.66	3	10	_	-		_	12	14	19	7	12	4	8			1		1030	_			- 5			
Machine-tool operators,	17	2.00	1 3	-	_	-	-	-	12	1.1	1,	1 '	12	-		-	- 1	-	-	-	-	-		-	1 -	-	-
production, class A	970	3.47						_	-	_	6	12	2	9	34	49	136	155	106	135	119	107	58	40	2		
Machine-tool operators,	710	3.41	-	-	-	-	-	_	-	-	0	12	-	7	34	17	130	133	100	133	117	101	50	40	-	-	-
production, class B	470	3, 35	1	1							6	10	15	78	41	37	24	27	14	53	48	108	6	2		1	
	470	3.35	-	-	_	-	-	-	-	-	0	10	15	10	41	31	24	21	14	33	40	100	0	-	-	1	-
Machine-tool operators,	125	2.81			3		18	1	8	10	6	2	20	6	22	8	12	6	,		2			100			
production, class C	125	2.01	-	-	3	-	10	1	0	10	0	-	20	0	22	0	12	0		-	-	-	-	-		-	-
Machine-tool operators, toolroom (op-	197	3.52						1									3	77	10	29	35	13	30				
erate more than I type of machine)	54	3.59	-	-	-	-	- 5	-	-	-	-	-	-	-	-	-	3	11	10	32		3	30	5	-	-	1 -
Machinists, maintenance		3.69	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9	19	9	113	7	11			42	-	-
Machinists, production	209		-	-	-	-	-	-	-	-	-	-	-	1.2	-	-	9	19	- 7		3		15	-	42	0	-
Mechanics, maintenance	72	3.50	-	-	-	-	-	-	-	-	3	-	-	12	-	-	1		4	9	3	4	15	5	-	-	-
Polishers and buffers, metal	26	3.33	-	-	-	-	-	-	-	-		-	-	5	-	-	4	-	6	10	30	63	20	2	-		1 -
Tool and die makers (jobbing)	285	4.08	-	-	-	-	-	-	-	-	1-	-	-	-	-	-	- 1	-	3	10	30	63	20	63	-	72	24
Tool and die makers (other than																											
jobbing)	69	3.66	-	-	-	-	-	-	-	-	-	7	-		-		-	3	13	4	16	23	10	-	-	- 1	-
Tool clerks	38	2. 93	-	-	-	-	-	1	-	-	2	6	10	6	2	5	6	-		-	-	-			-	-	-
Welders, hand, class A	234	3.64	-	-	-	-	-	-	-	-		-	17	-	4	2		-	11	86	22	10	57	15	8	2	-
Welders, hand, class B	73	3. 25	-		-	-	-	-	-	-	12	-	-	-	-	11	15	-	31	-	2	2	-	-	-	-	-
Women																											
Janitors, porters, and cleaners	32	2.50	2	-	-	5	-	2	-	12	2	7	2	-		-	-	-	-	-	-	-	-	-	-	-	-

The Buffalo Standard Metropolitan Statistical Area consists of Erie and Niagara Counties.
 Excludes premium pay for overtime and for work on weekends, holidays, and late shifts.
 Includes 10 workers at \$1.60 to \$1.70.

Table 7. Occupational Earnings: Chicago, Ill. 1

			-																	RNING			_		_	1		
	Number	Average		\$1.90	\$2.00	\$2.10	\$2.20 \$	\$2.30	\$2.40	\$2.50	\$2.60	\$2.70	\$2.80	\$2.90	\$3.00	\$3.10	\$3.20	\$3.30	\$3.40	\$3.50	\$3.60	\$3.70	\$3.80	\$4.00	\$4.20	\$4.40	\$4.60	\$4.8
Occupation and sex	of workers	hourly earnings 2	Under \$1, 90		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	an
					\$2.10	\$2.20	\$2.30	\$2.40	\$2.50	\$2.60	\$2.70	\$2.80	\$2.90	\$3.00	\$3.10	\$3.20	\$3.30	\$3.40	\$3.50	\$3.60	\$3.70	\$3.80	\$4.00	\$4.20	\$4.40	\$4.60	\$4.80	ove
Men							,																					1
Assemblers, class A	3.501	\$3.72	-	_	-	_	_	-	-		3	4	11	21	151	57	178	272	187	117	335	635	936	406	97	15	28	4
Assemblers, class B	2,930	3. 15	- 1	-	-	54	25	279	64	97	70	60	214	227	122	541	166	223	85	115	194	90	128	56	28	38	15	3
Assemblers, class C		2.62	- 1	209	85	450	266	206	107	16	37	27	62	57	33	18	18	39	47	10	7	6	14	20	2	-	-	9
Carpenters, maintenance	66	3.77	-	-	-	-	-	-	-	-	-	-	-	-	-	1	8	3	10	16	1	8	1	4	-	2	12	
Electricians, maintenance	447	4.32	-	-	-	- 1	-	-	-	-	-	-	-	-	1	1	-	7	21	9	23	34	75	37	31	26	110	3 7
Inspectors, class A	1,075	3.74	- 1	-	-	- 1	- :	-	-	-	-	-	-	9	51	32	28	47	74	60	44	203	312	194	20	1	-	
Inspectors, class B	740	3.31	-		-	-	- 1	9	8	1	28	21	29	24	55	77	61	96	41	33	212	44	1	-	-	-	-	
Inspectors, class C	340	2.86	2	-	2	2	87	14	32	6	11	8	23	19	24	39	5	1	6	27	1	3	5	10	8	2	3	
Janitors, porters, and cleaners	1,394	2.63	11	2	59	49	167	48	209	165	112	136	120	98	11	33	1 34	40	-	-	-	-	-	-	-	-	-	
Laborers, material handling	2, 204	2.77	-	-	55	27 :	52	298	95	244	278	251	179	147	25	50	336	136	2	3	3	1	22	-	-	-	-	
Machine-tool operators,																										1000		
production, class A	9, 172	3. 84	-	-	-	-	- 1	-	-	3	-	-	6	49	1 34	202	323	321	600	906	603	553	2123	1936	870	4 36	36	7
production, class B	4.535	3.39	- 1		-	35 .	2 !	-	8	53	163	134	179	312	377	201	325	428	421	516	345	180	392	266	113	51	18	1
Machine-tool operators,	1,555	3, 3,					- 1							3.12		201	3.00			3.0	3.3	100	3,2	200		3.	10	1
production, class C	2.252	2.80	4	38	36	41	188	107	129	186	92	278	220	174	280	70	180	59	30	36	30	7	21	26	7	6	2	
Machine-tool operators, toolroom	-,						1		1	200														-		1		
(operate 1 type of machine) Machine-tool operators,	1,423	4.29	-	-	-	-	- 1	-	1.5	-	-	1	-	5	5	3	7	22	31	23	26	65	174	201	268	272	171	14
toolroom (operate more											1																	
than I type of machine)	786	4.05	- 1	-	- 1	- 1	- 1	-			_ 1	1			5	1	21	29	20	6	20	36	231	160	126	88	20	1 2
Machinists, maintenance	314	3.90	-		-	- 1	- 1	-	-	-	- 1	1	_	-	-	1	-	18	15	16	32	60	76	45	18	6	20	2
Machinists, production	215	3.98	- 1	_	-	- 1	- !	-	-	-	- 1	2	_	-	-	2	12	-		1	-	1	120	26	49	2	1	1 -
Mechanics, maintenance	488	3.84	-	-	-	- 1	- 1	-	-	-	- 1	_	-	7	13	22	22	90	23	18	13	44	43	58	15	40	79	
Polishers and buffers, metal	283	3, 54	-	-	-	- 1	- 1	-	-	1	-	3	27	10	67	1	15	7	39		18	2	14	18	39	18	3	
Polishing - and buffing -																					7.0							
machine operators	137	3.06	-	-	-	2	1	-	-	-	- !	14	1	49	26	15	8	13		1	-	-	2	1	3	-	1	
Punch-press operators, class A	481	3.32	-	-	-		- 1	22	3	6	15	12	8	35	118	57	52	20	12	26	15	19	10	8	3	3	3	3
Punch-press operators, class B	915	2.72	8	14	58	42	98	35	174	80	49	63	43	16	56	49	18	12	5	11	1	8	2	24	11	36	2	
Setup men, machine tools	371	3.71	-	1-1	-	- '	- 1	-	-	-	-	-	11	16	16	7	6	16	41	12	62	22	25	118	13	6	-	
Tool and die makers (jobbing)	2,420	4.58	-	-	-	-		-	-	-	-	-	-	-	-	-		21	3	9	20	20	45	67	262	563	855	4 5 5
Tool and die makers (other																												
than jobbing)	1,213	4.37	-	-	-	- 1	- (	-	-	-	-	-	-	-	-	- 1	6	-	-	12	26	20	65	123	408	315	98	5 14
Tool clerks	405	3.19	-	-	-	- 1	3	1.	1	-	8	27	47	61	38	21	30	19	61	17	55	3	13	-	-	-	-	
Welders, hand, class A	2, 227	3.75	-	-	-	- 1	-	-	-	-	-	-	2	6	75	28	175	104	157	257	132	623	203	95	279	47	23	2
Welders, hand, class B	652	3.81	-	-	-	-	- :	-	-	18	43	8	10	9	93	24	22	5	15	2	59	68	26	102	36	38	6	66
Welders, machine, class A	201	3.49	- 1	-	-		-51		.5	. 7		1	8	3	36	23	1	4	8	21	47	10	20	4	7	6	1	
Welders, machine, class B	232	2. 85		-	-	8	29	56	13	21	14	11	7	-	3	14	2	1	-	4	11	9	4	6	4	15	-	
Women																						1000						
Assemblers, class B	488	2.72	- 1	-	-	7	22	42	23	80	86	66	81	31	4	1	14	7	4	7	-	3	7	2	1	-	-	1
Assemblers, class C	2,113	2.32	92	140	299	323	550	95	123	83	132	74	50	29	26	16	23	16	19	4	6	4	9	-	-	-	-	1
Inspectors, class A	27	3.40	-	-	-	- 1	-	-	-	-	-	-	-	1	-	2	5	6	3	5	1	4	- 1	_	2	_	-	
Inspectors, class B	193	2.96	- 1	-	-		14	-	2	17	1	12	54	11	3	51	2	-	1	1	19	-	1	4	-	-	-	
Inspectors, class C	289	2.81	-	-	-	3	14	37	48	13	45	17	14	16	2	-	1	-	1	73	-	2	3	-	-	-	-	
Janitors, porters, and cleaners	103	2.52		-	6	8	19	2	11	28	9	3	4	- 1	-	4	9	-	-	-	-	-	-	-	-	-	-	1
Laborers, material handling	33	2.31	-	14	-	- 1	-	6	-	-	11	1	-	1	-	-		-	-	-	-	-	1-	-	-	-	-	1 0
Machine-tool operators,					- 1			1				1																
production, class A	40	3.63	- 1	-	-	- 1	-	-	-	-	-	- 1	-	6	1	1	-	2	9	7	-	1	2	5	4	-	-	
Machine-tool operators,			1																									1
production, class B	313	2.77	-	66	-	-	7	- 1	1	16	13	58	50	17	7	8	6	22	19	4	3	1	10	4	-	-	-	1
Machine-tool operators,			. 1																									1
production, class C	685	2.30	792	8	83	70	159	106	55	20	28	6	13	6	1	3	2	1	7	1	2	3	14	3	1	-	1	
Punch-press operators, class B	663	2, 24	64	81	73	104	109	76	41	12	32	26	15	8	15	2	1	-	-	-	-	-	1	3	-	-	-	1
Tool clerks	6	3.02	-	- 1	-	-	-	-	- 7	-	3	-	1	-	-	-	-	- 1	- 1	-	2	-	-	-	-	-	+	
Welders, machine, class B	201	2.43	8	8	8	-	31	40	36	39	9	6	6	1	-	- 1	1	2	-	1	-	2	3	-	72	1	1 12	1

The Chicago Standard Metropolitan Statistical Area consists of Cook, DuPage, Kane, Lake, McHenry, and Will Counties.

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

Workers were distributed as follows: 22 at \$4.80 to \$5; 7 at \$5 to \$5.20; and 43 at \$5.40 to \$5.60.

Workers were distributed as follows: 262 at \$4.80 to \$5; 204 at \$5.50 at \$5.20; to \$5.40; and 24 at \$5.40 to \$5.60.

Workers were distributed as follows: 133 at \$4.80 to \$5 and 7 at \$5 to \$5.20.

Workers were distributed as follows: 4 at \$5 to \$5.40; 4 at \$5.40 to \$5.60; 30 at \$5.80 to \$6; 15 at \$6 to \$6.20; and 15 at \$6.20 to \$6.40.

Workers were distributed as follows: 68 at \$1.70 to \$1.80 and 24 at \$1.80 to \$1.90.

S

Assemblers, class B	3. 32 3. 07 3. 61 3. 87 3. 65	arnings <sup>2</sup>	Under \$2.00	and under	\$2.10	\$2.20	\$2.30	\$2.40	\$2.50	\$2.60	\$2.70	\$2.80	\$2.90	\$ 3.00	\$3,10	\$3.20	\$3,30	\$3,40	\$3.50	\$3.60	\$3.70	\$3.80	\$4.00	\$4.20	\$4.40	\$4.60	\$4.80	45
Men	\$ 3. 75 3. 32 3. 07 3. 61 3. 87 3. 65	Arnings 2	\$2.00	under	-	_							+,-	40.00						+	Ψ 3. 10	Ψ 3.00	Ψ				+	100
Assemblers, class A	3. 32 3. 07 3. 61 3. 87 3. 65	3. 75			\$2.20	\$2.30	\$2.40	- \$2.50	\$2.60	- \$2.70	- \$2.80	- \$2.90	- \$3.00	- \$3.10	- \$ 3,20	- \$ 3, 30	- \$3.40	- \$ 3,50	- \$3.60	- \$3.70	\$3.80	- \$4.00	- \$4.20	- \$4.40	- \$4.60	\$4.80	- \$5.00	ar
Assemblers, class B	3. 32 3. 07 3. 61 3. 87 3. 65	3, 75		,	,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	7 - 1	72.00	<del>+ - 1</del> , -		7 51.10	7 51.2		,		,				,		,			
Assemblers, class B	3. 32 3. 07 3. 61 3. 87 3. 65									6			4	26	169	102	70	44	215	101	75	194	22	32	18	39	122	1
Assemblers, class C   256	3. 07 3. 61 3. 87 3. 65					12	12	10	15	4	10	47	31	245	45	71	55	48	22	16	17	17	17	18	23	29	14	
Arpenters, maintenance	3.61 3.87 3.65		-	6	1	25	-	4	-	25	12	46	35	12	8	17	7	8	8	5	6	5	8	9	4	í	5	
11   1   12   13   15   15   15   15   15   15   15	3.65		-	-	-		-		_	-		-	-		-	15	-	-	5	2	1	13	1		1	_	1	
			-	-	-	9-0	-	-	-	-	-	-	-	4	3	14	5	23	6	17	9	25	45	18	20	-	5	
1			-	-		-	-	-	-	-	-	1	1	-	8	34	12	92	48	50	37	81	36	5	1	-	5	
anitors, porters, and cleaners		3. 56	-	-	-	-		-	-	-	1	1	14	12	4	67	30	59	25	6	52	66	18	17	3	-	-	1
Cleaners	3. 38	3. 38	-	-	-	-	-	-	-	-	-	4	1	14	1	3	16	8	11	8	5	6	-	-	-	-	-	
Laborers, material handling	2.75	7.5	17	38	8	14	24	-	21	27	22	20	20	(2	12	2	16		2		24	2						
handling         461           Machine-tool operators, production, class A	2.15	2. 15	11	30	0	14	24	7	31	37	32	29	30	62	13	2	16	-	3	-	34	2	-	-	-	-	-	
Machine-tool operators, production, class A	2.99	2.99	121	25		_	12	2	19	5	42	36	97	104	52	3	4	6	1	_	41	1	7	3	1		_	
Production, class A	//	//	-		-	-	12	-	17	,	42	50	71	104	32	,	1	۰	1	- 1	4.		1	,		-	-	
Machine-tool operators, production, class B       2,030         Machine-tool operators, production, class C       1,152         Machine-tool operators, toolroom (operate 1 type of machine)       413         Machine-tool operators, toolroom (operate more than 1 type of machine)       86         Machinists, production       83         Machinists, production       83         Mechanics, maintenance       149         Polishers and buffers, metal       64         Polishing and buffing-machine operators       212         Punch-press operators, class A       82         Punch-press operators, class B       185         setup men, machine tools       173         Tool and die makers (other than jobbing)       1,266         Tool clerks       178         Welders, hand, class A       513         Welders, hand, class B       28         Women       28	3.73	3.73	-	- 1	_	_	-	2	-	1	7	32	41	169	185	207	434	209	653	402	400	717	220	157	167	195	138	1
Machine-tool operators, production, class C       1,152         Machine-tool operators, toolroom (operate 1 type of machine)       413         Machine-tool operators, toolroom (operate more than 1 type of machine)       186         Machinists, maintenance       86         Machinists, maintenance       149         Machinists, maintenance       64         Polishers and buffers, metal       212         Punch-press operators, class A       82         Punch-press operators, class B       185         Setup men, machine tools       173         Tool and die makers (jobbing)       1, 266         Tool and die makers (other than jobbing)       178         Welders, hand, class A       513         Welders, hand, class B       28         Women       28																									1	1	1000	
1,152	3.44	3.44		-	-	-	1	3	3	6	163	35	106	194	171	274	93	192	225	84	102	96	67	61	67	56	18	1
Machine-tool operators, toolroom (operate 1 type of machine)       413         Machine-tool operators, toolroom (operate more than 1 type of machine)       186         Machinists, maintenance       86         Machinists, maintenance       149         Polishers and buffers, metal       64         Polishing- and buffing-machine operators       212         Punch-press operators, class B       82         Punch-press operators, class B       185         Setup men, machine tools       173         Tool and die makers (jobbing)       1,266         Tool and die makers (other than jobbing)       367         Tool clerks       178         Welders, hand, class B       331         Welders, hand, class B       28         Women       Women				3.00		19.63																						
toolroom (operate 1 type of machine)	2.57	2.57	-	100	4	155	24	25	536	51	31	21	19	52	50	15	22	16	10	9	1	3	8	-	-	-	-	
type of machine)																										- 1		
Machine-tool operators, toolroom (operate more than 1 type of machine)       186         Machinists, maintenance       86         Machinists, production       83         Machinists, production       83         Mechanics, maintenance       149         Polishers and buffers, metal       64         Polishing- and buffing- machine operators       212         Punch-press operators, class A       82         Punch-press operators, class B       185         Setup men, machine tools       173         Tool and die makers       (jobbing)       1, 266         Fool and die makers (other than jobbing)       367         Fool clerks       178         Welders, hand, class A       513         Welders, hand, class B       28         Women       28	4 10																								1			
toolroom (operate more than 1 type of machine)	4.12	4.12	-	-	-	-	-	-	-	-	-	-	-	2	-	4	6	12	20	14	21	86	90	43	63	17	29	
than I type of machine)			- 1																									
Machinists, maintenance       86         Machinists, production       83         Mechanics, maintenance       149         Polishers and buffers, metal       64         Polishing- and buffing- machine operators       212         Punch-press operators, class A       82         Punch-press operators, class B       185         Setup men, machine tools       173         Tool and die makers       (jobbing)       1,266         Tool and die makers (other than jobbing)       367         Tool clerks       178         Welders, hand, class A       513         Welders, hand, class B       28         Women       28	3.64	3 64		-	1			2	_	_	_	_	7	12	1	13	29	10	39	6	14	27	11	4	1	4	3	
Machinists, production       83         Mechanics, maintenance       149         Polishers and buffers, metal       64         Polishing and buffing-machine operators       212         Punch-press operators, class A       82         Punch-press operators, class B       185         Setup men, machine tools       173         Fool and die makers (jobbing)       1,266         Tool and die makers (other than jobbing)       367         Fool clerks       178         Welders, hand, class A       513         Welders, hand, class B       28         Women       28								21	1 [ ]		- E			12	1	2	27	6	12	10	1.1	-	46	10	1	-	_	
Mechanics, maintenance       149         Polishers and buffers, metal       64         Polishing and buffingmachine operators       212         Punch-press operators, class A       82         Punch-press operators, class B       185         Setup men, machine tools       173         Tool and die makers (other than jobbing)       1,266         Tool and die makers (other than jobbing)       367         Tool clerks       178         Welders, hand, class A       513         Welders, hand, class B       28         Women       28			-		_	-	_						_	-	- 1	-	3	-	19	7	17	30	-	4	-	2	1	
Polishers and buffers, metal			-	-	_	- 1		-	-	_	_	_	-	-	1	5	-	17	26	14	-	22	32	19	8	5	_	
Polishing- and buffing- machine operators								1 99														100				100		
machine operators         212           Punch-press operators,         82           Punch-press operators,         185           class A         185           Setup men, machine         173           tools         173           Tool and die makers         (jobbing)           Tool and die makers (other than jobbing)         367           Tool clerks         178           Welders, hand, class A         513           Welders, hand, class B         331           Welders, machine, class B         28           Women         Women	3.40	3.40	-		-	-	-	-	8	-		-	-	1	-	35	-	1	1	2	1	3	3	5	4	-	-	
Punch-press operators, class A         82           Punch-press operators, class B         185           Setup men, machine tools         173           Tool and die makers (jobbing)         1,266           Tool and die makers (other than jobbing)         367           Tool clerks         178           Welders, hand, class A         513           Welders, hand, class B         331           Welders, machine, class B         28			- 1													- 3.7	-52											
Class A	3.28	3.28	-	-	-	-	- 1	-	-	-	26	4	48	28	21	21	12	2	18	-	14	-	-		-	9	3	
Punch-press operators, class B     185       Setup men, machine tools     173       Tool and die makers (jobbing)     1,266       Tool and die makers (other than jobbing)     367       Tool clerks     178       Welders, hand, class A     513       Welders, hand, class B     331       Welders, machine, class B     28       Women     28	2 12												4.1															
Setup men, machine	3.13	3. 13	-	-	-	-	-	-	-	11	-	-	11	17	11	3	1	23	3	-	2	-	-	-	-	-	-	
173   173   173   173   173   173   173   173   173   173   175	2.81	91			16	16	_	11	22	4	25	11	5	18	29	5	5	6	8	2			1	1	1			1
173   Tool and die makers   1,266     Tool and die makers (other than jobbing)	2.01		-		10	10		11	22	4	25	11	3	10	29	5	9	0	٥	2	-	-	1	1	-	-	-	
Tool and die makers (jobbing)	3.58	3.58	-	_	_	_	_	_	_	_	_	_	_		6	42	_	4	57	2	12	45	_	-	2	3	_	
Tool and die makers (other than jobbing)								1100											,			1.5						1
than jobbing)     367       Tool clerks     178       Welders, hand, class A     513       Welders, hand, class B     331       Welders, machine, class B     28       Women     28	4.11	4.11	-	-	-	-	-	-		-	-	-	-	-	9	10	4	26	13	39	57	357	229	227	186	79	30	
Tool clerks																								133				
Welders, hand, class A       513         Welders, hand, class B       331         Welders, machine, class B       28         Women	4.00		-	-	-	-	-	- 1	-	-	-	-	-	-	-	5	4	9	26	103	8	17	86	53	15	6	3	3
Welders, hand, class B 331 Welders, machine, class B 28  Women			-	-	-	2	-	-	1	1	5	5	7	18	16	49	15	15	13	6	6	17	2	-	-	-	-	1
Welders, machine, class B 28			-	-	-	-	-	-					26	63	96	103	68	35	21	19		33	18	5	8	10	4	
Women	3. 38		-	-	-	-	-	-	12	30	12	26	44	14	38	16	4	2	2	1	11	76	-	1	34	8	-	1
	3.40	5.40	-	-	-	-	-	-	-	-	1	-	8	4	-	-	-	1	3	-	-	11	-	-	-	-	-	
nspectors, class C 198																												
	2.88	, ,,	100			20	4	8			,	15		112		,	, ,		,		,	-	,					
anitors, porters, and	2.08	00	-	-	-	28	4	8	4	-	1	15	6	112	8	6	1	-	1	-	1	2	1	-	-	-	-	1
cleaners 55	2.45	2.45	5	8	3	4	6	7	_	_	2	19	_			1				100			1					
Machine-tool operators,	2. 43	15		0	,	7	U	,	- 1	- 1	2	17	-	-	-	1	-	-	-	-	-	-	-	-	-	-		1
production, class A 9	3.06	3.06	_	_	1	_	_	_	1	1	2	1	_	_	_	_	- 1	2	2	-			_	_	_	_	-	Ĺ
Machine-tool operators,											-		7	-	-	-	-	-	-	1			1					1
production, class C 281		2.59	-	1	9	18	40	24	108	8	22	4	12	28	-	7	_	-	-	-	-	-		-	-		-	1
	2.59																								100			

The Cleveland Standard Metropolitan Statistical Area consists of Cuyahoga, Geauga, Lake, and Medina Counties, Excludes premium pay for overtime and for work on weekends, holidays, and late shifts.

Table 9. Occupational Earnings: Dallas, Tex.1

											NUMI	BER OF	WORK	ERS RE	CEIVING	STRAI	GHT-TI	ME HOU	RLY EA	RNING	s of-							
	Number	Average	\$1.60	\$1.70	\$1.80	\$1.90	\$2.00	\$2.10	\$2.20	\$2.30	\$2.40	\$2.50	\$2.60	\$2.70	\$2.80	\$2.90	\$3.00	\$3.10	\$3.20	\$3.30	\$3.40	\$3.50	\$3.60	\$3.70	\$3.80	\$4.00	\$4.20	\$4.4
Occupation and sex	of workers	hourly earnings 2	and	_	_	_	_		_	_	_	_	_	_	_	_	_	_	_	_	-	_	-	-	-	_	-	and
			under \$1.70		\$1.90	\$2.00	\$2.10	\$2.20	\$2.30	\$2.40	\$2.50	\$2.60	\$2.70	\$2.80	\$2.90	\$3.00	\$3.10	\$3.20	\$3.30	\$3.40	\$3.50	\$3.60	\$3.70	\$3.80	\$4.00	\$4.20	\$4.40	ove:
Men																												
Assemblers, class A	286	\$2.92				4	2.3	2	12	10	4	32	11	25	13	17	94	10	4	22	6	10	6	2	2	_		
Assemblers, class B	203	2.41	-	4	2	6	30	21	33	17	7	9	13	15	46		74	10	-	-	0	10	_	-	-			
Assemblers, class b	274		7	43					11		,					-		-	-		-	-		-	1	-		
Assemblers, class C		1.93		4.5	42	83	73	12	11	-	1	-	2	-	-	-	-	-	-	-	-	2	-	2	1	2	-	
Electricians, maintenance	31	3.12	-	-		-	-	:	-	-	-	-	3	6	4	-	5	3	1	2			-			7	-	
Inspectors, class A	98	3.34	-	-	-	-	-		-	-	-	2	2	2	1	13	7	5	15	10	14	3	4	10	3		-	-
Inspectors, class B	86	2.72	-	-	-	-	1-	-	2	2	14	13	8	13	19	2	2	8	1	2	-	-	-	-	-	-	-	-
Inspectors, class C	68	2,00	-	-	21	22	9	6	2	1	2	2	-	2	-	1	-	-	-	-	-	-	-	-	-	-	-	-
Janitors, porters, and						1000																				1		
cleaners	166	2.00	3	32	37	13	26	18	18	5	8	3	2	1	-		-		-	-	-	-	-	-	-	-	-	-
Laborers, material		1000			7																							
handling	116	2.16	3	8	14	9	2	21	17	19	15	4	1		3	_	_	-	-	_	_	-	_	_	-	-	-	-
Machine-tool operators,		2. 10			**	1	_			- /			-		-			1 5/1										
production, class A	665	3.14		_	1000		_				- 2	2.3	37	72	35	57	139	98	31	23	36	75	48	7	-	7	_	
Machine-tool operators,	003	5, 14	-	-	-	-	-	-	-	-		-	31	12	33	31	139	70	31	23	50	13	40		-	,	-	-
	4/1	215					-	,	21	25	4.5	0.7	,,	4.5	2.2	2.1	0.2	1.4		1 22 1					1		1 200	
production, class B	461	2.65	-	-	-	-	7	6	36	25	45	87	66	45	23	21	82	14	4	-	-	-	-	-	-	-	-	-
Machine-tool operators,						0.00																			1			
production, class C	278	2.19	-	9	10	24	42	61	46	42	18	15	5	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Machine-tool operators,																												
toolroom (operate more										0																		
than 1 type of machine)	40	3.39	-	_	-	_	-	-	_	_	-	_	4	-	_	5	2	5	_	-	-	10	1	2	11	-	-	-
Machinists, production	152	3, 49	_	-	-	_	-	_	-	_	_	_	_	3	7	-	16	7	7	12	-	35	7	37	21	_	-	-
Mechanics, maintenance	40	3.12	_	-	_		- 2	-			_		4	8	1	_	7	2	1	5	4	7	-	1	-	-	_	-
Punch-press operators,	10	3, 12			-	_	_		- 50									_		-			1	1				
class A	72	2.79			1					3	10	25	3	2	7	8	3			_	2		-	9	-	-	_	
	12	2.19	-	-	-	-	-	-	-	3	10	25	3	2	,	0	3	-	-	-	4	150	-	7	-		_	-
Punch-press operators,	125	2 12		20		,		_		20	-			-														
class B	135	2.12	-	28	14	1	25	5	13	20	7	14	-	7	1	-	-	-	-	-		-	-	-	-	-	-	-
Tool and die makers																												
(jobbing)	212	3.97	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18	3	8	12	-	36	75	57	3
Tool and die makers																					1000							
(other than jobbing)	57	3, 58	-	-	-	-	-	-	-	-	_	20	-	-	2	1	-	3	3	9	11	1	8	-	8	11	-	-
Tool clerks	67	2.52	2	-	_	-	-	4	8	7	11	7	8	9	-	-	8	3	-	-	_	-	-	-	-	-	-	-
Welders, hand, class A	307	2.98	_	-	_	_	_	-	_	_	6	5	9	61	32	11	134	11	15	11	1	9	-	_	2	-	-	-
Welders, hand, class B	140	2.59	_	-	_	3	_	11	13	12	6	11	28	1	53	1	1	-	-	-	_	-	-	-	-	_	-	-
Welders, machine,		2.37			100								-		33													
	29	2.82								1	2	8	2	1	6	4			3	_	1.24	_	_	_	2	-	1 - 2	
Class A	29	2.02	-	-	-	-	-	-	-	1	4	0	2	1	0	4	-	-	3	-	-	-	-	-	-	-	_	1
	31	2 20			2	2	8			7	7			1	4		1								1			
class B	31	2.29	-	-	2	2	8	-	-	1	7	-	-	1	4	-	-	-	-	-	-	-	-	-	-	-	-	-
Women																												
Assemblers, class C	124	1.93	3	7	45	31	29	-	9	-	_	_	_		_	-	-	-	_	-	-	_	_	-	-		-	-

The Dallas Standard Metropolitan Statistical Area consists of Collin, Dallas, Denton, Ellis, Kaufman, and Rockwell Counties.
 Excludes premium pay for overtime and for work on weekends, holidays, and late shifts. Virtually all workers covered by the study were paid on a time basis.

											NUM	BER OF	WORK	ERS RE	CEIVING	STRAI	GHT-TI	ME HOU	RLY EA	RNING	or-							
	Number	Average	\$1.70	\$1.80	\$1.90	\$2.00	\$2.10	\$2.20	\$2.30	\$2.40	\$2.50	\$2.60	\$2.70	\$2.80	\$2.90	\$3.00	\$3.10	\$3.20	\$3.30	\$3.40	\$3.60	\$3.80	\$4.00	\$4.20	\$4.40	\$4.60	\$4.80	\$5.0
Occupation and sex	of workers	hourly earnings <sup>2</sup>	and											_		_						_						and
	workers	earnings-	under	-	-	-	-	- 1	-	-		-		100					. 500									
			\$1.80	\$1.90	\$2.00	\$2.10	\$2.20	\$2.30	\$2.40	\$2.50	\$2.60	\$2.70	\$2.80	\$2.90	\$3.00	\$3.10	\$3,20	\$3,30	\$3.40	\$3,60	\$3,80	\$4.00	\$4.20	\$4.40	\$4.60	\$4.80	\$5.00	over
Men																												
Assemblers, class A	240	\$3.20	-	-	-	-	-	-	-	-	1	_	10	16	27	30	41	13	54	47	-	_	1	-	_	-	_	_
Assemblers, class B	75	2.95	-	-	1-1	-	-	-	8	2	1	3	4	9	11	4	23	10	-	-	-	-	-	-	-	-	-	-
Electricians, maintenance	15	3.70	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8	2	5	-	-	-		-	-
Inspectors, class A	69	3.50	-	-	-	-	1 - 1	-	-	-	-	-	-	7	-	7	-	-	4	6	44	1	-	_	_	-	_	-
Inspectors, class B	41	2.97	-	-	1-1	-	-	7	-	-	3	1	3	1	-	3	2	17	4	-	-	-	-	_	-	-	_	-
Inspectors, class C	6	2.95	-	-	-	-	-	-	-	-27	-	1	-	1	1	3	-	-	-	-	-	-	-	-	-	_	_	-
Janitors, porters, and																											1	1
cleaners	80	2.46	315	-	-	-		1	1	11	14	8	24	-	4	-	1	1	-	-	-	_	-	_	-	2.0	_	
Laborers, material													10.00											1 100	/ 1999		1 19	
handling	50	2.56	-		2	-	120	-	-	35	2	3	1	1	-	8	-	_	_	-	_	-		-	_	_	_	-
Machine-tool operators,		303.0								1														1		15.0	1 7 7	_
production, class A	352	3.92	_	_	_	_	_	_	_	_	_	_	_	-	3	_	2	15	87	73	48	12	10	9	14	17	16	4 46
Machine-tool operators,	332	3. /2				1											_		٠,	, ,	10	1.0	10	,	14	11	10	40
production, class B	176	3, 18	l -		_	_	-	-	3		2	2	10	33	5	13	39	36	11	7	2	2	2	_	5	1	1	2
	110	3.10	-	- 1				-	,		-		10	33		13	3,	30	11	' '	-	-	-	-	3	1	1	1 2
Machine-tool operators,	18	2.77		100		1000	_	_		_	1	7	2	6			2							1000				
production, class C	18	2.11	-	-	-	-	-		-	-	1	'	2	0	-	-		-		-	-	-	-	-	-	-	-	-
Machine-tool operators,																												
toolroom (operate 1 type				100														-	10 20				12.0		100			
of machine)	9	3.92	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	2	-	-	1	2	2	-	-	-
Machine-tool operators,																												
toolroom (operate more		1 - 4 -																		10.20			100					1
than I type of machine)	45	3.56	-	-	-	-	-	-	-	-	-	-	-	-	6	-	-	-	9	7	11	10	1	1	-	-	-	-
Machinists, maintenance	22	3.81	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	6	1	1	12	-	-	-	-	-
Machinists, production	54	3.25	-	-	-	-	-	-	-	-	-	-	-	-	-	7	14	-	31	-	-	-	2	-	-	-	-	-
Mechanics, maintenance	22	3.53	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	17	2	1	-	-	-	-	-	-
Punch-press operators,														1														1
class B	70	2.35	-	27	-	-	11	-	2	1	-	5	2	12	-	-	2	8	-	-	-	-	-	-	-	-	-	-
Tool and die makers (other																												1
than jobbing)	96	4.45	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	-	5	17	5	8	32	11	8
Tool clerks	26	2.97	-	-	-	-	-	-	-	-	1	1	7	-	-	12	2	2	1	-	-	-	-	-	_	-	_	-
Welders, hand, class A	141	3, 43	-	-	-	-	-	-	-	-	-	-	-	1	-	4	2	14	72	42	1	-	_	-	-	1	3	1
Welders, hand, class B	55	3.11	-	-	-	-	-	3	-	-	5	-	-	-	8	-	6	33	-	-	-	-	-	-	-	-	-	-
Women																												
Assemblers, class A	111	2.95	-	-	-	-	-	-	-	-	7	-	34	4	15	13	15	12	9	1	1	-		_	-	-		-
Assemblers, class C	200	1.92	571	22	7	88	2	2	4	2	2	-	-	-	-	-	_			-	_	-	_	_		_	-	-

The Denver Standard Metropolitan Statistical Area consists of Adams, Arapahoe, Boulder, Denver, and Jefferson Counties.

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

Includes 12 workers at \$1.60 to \$1.70.

Workers were distributed as follows: 19 at \$5 to \$5, 20; 12 at \$5, 20 to \$5, 40; 10 at \$5, 40 to \$5, 60; and 5 at \$5, 60 and over.

<sup>&</sup>lt;sup>5</sup> Includes 40 workers at \$1.60 to \$1.70.

Table 11. Occupational Earnings: Detroit, Mich.1

															EIVING													
	Number	Average			\$2.30	\$2.40	\$2,50	\$2.60	\$2.70	\$2.80	\$2.90	\$3.00	\$3.10	\$3.20	\$3.30	\$3.40	\$3.50	\$3.60	\$3.70	\$3.80	\$3.90	\$4.00	\$4.20	\$4.40	\$4.60	\$4.80	\$5.00	\$5.
Occupation and sex	of workers	hourly earnings 2	Under \$2.20	and under	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	aı
			,	\$2.30	\$2.40	\$2.50	\$2.60	\$2.70	\$2.80	\$2.90	\$3.00	\$3.10	\$3,20	\$3.30	\$3.40	\$3.50	\$3.60	\$3.70	\$3.80	\$3.90	\$4.00	\$4.20	\$4.40	\$4.60	\$4.80	\$5.00	\$5.20	ov
Men																												
ssemblers, class Assemblers, class B	1,224	\$4.39 3.59	-	-	-	-	-	-	-	-	-	88	4	6 41	25 124	60 222	63	54 888	7 101	82 130	39	105	20 54	221	384	166	38	3
ssemblers, class C	1,298	3, 37							17	82	14	163	1		2	585	394	28	101	130			-		1	- 3	1 3	
arpenters, maintenance	30	4.19	100	1				_	-	-	* -					-	- / -	2	4	1	-	11	4	100	8	-	_	.
lectricians, mainte-	30													100					-	-								
nance	241	4.55	-	_	_	_	_	-	_	_	-	_	_		_	_	_	_	-	12	_	6	19	117	40	42	3	,
spectors, class A	514	4.09	-	-	_	-	-	-	_	-	-	_	-	-	34	13	47	21	36	91	48	18		35	47	40	23	
spectors, class B	720	3, 57	_	-	_	_	-	-	_	_	-	57	_	22	25	53	177	281	74	10	-	12		6	1	-	-	
spectors, class C	228	3, 35		_	_	_	6	-	_	_	10	90	4		23	3	7	58	1	3	3	10		1	-		-	
anitors, porters, and											13.0																	
cleaners	1,253	3.07	126	-	1	-	54	48	51	24	56	86	139	228	195	30	144	32	15	24	-	-	-	-	-	-	-	
aborers, material		777				1			-																			
handling	894	3.28	-	2	-	-	-	90	5	15	3	27	17	279	39	242	74	67	3	27	1	_	3	_	-	-	-	
lachine-tool operators,										100																		
production, class A	5,485	4.20	-	-	-	-	-	-	-	-	-	-	-	144	146	170	183	73	263	408	797	1000	329	452	524	616	336	,
fachine-tool operators,				1																1.4.2.								
production, class B	6,144	3,53	-	-	_	-	-	27	_	-	271	184	347	408	685	352	915	1514	739	392	16	51	113	103	27	_	_	
achine-tool operators,															1		1.0							7.7				
production, class C	2,353	3.07	-	56	96	4	121	149	177	129	427	390	62	30	80	166	79	69	60	132	27	70	29	-	-	-	-	
achine-tool operators,		13.5							100						1													
toolroom (operate 1 type																				İ								
of machine)	4,859	4.81	-	-	_	-	-	-	-	_	_	-	-	-	-	38	52	43	18	10	45	289	124	408	958	1044	1096	3
achine-tool operators,	-,,														1								1		,			
coolroom (operate more																				1								1
than 1 type of machine)	417	4.64	-	-	_	-	-	-	-	-	-	-	17	-	-1	-	-		4	2	-	11	32	59	179	66	9	
achinists, maintenance	102	4.65	_	_	_	-	-	_	_	_	-	_	_	-	-1	_	6	1	2	-	-	2			38	21	8	
echanics, maintenance	372	4.59	-	-	_	-	_	-	-	-	-	-	_	-	6	-	8	-	2	3	2	9		137	40	115	6	
olishers and buffers,											1																	1
metal	147	4.36	-	_		_	-	-1	_	1.2	1	1	-	1	-	16	-	-	2	-1	35	1	9	18	1	41	21	d
olishing- and buffing-											- 1							- 1	-			- 7	1				-	Ĩ
machine operators	37	3.34	_	-	_	_	-	_	-	-	-1	-	-	28	4	-	_	-	-	5	-	-	-	-	_	_	_	1
unch-press operators,																												
class B	485	3, 55	_	_	_	_	- 1	-	_	-	1	6	3	7	42	9	321	1	95	-	-	-	-	-	_	_	-	
etup men, machine tools	864	3,77	_	_	_	-	-	-	-	-	-	_	-	1	3	85	21	269	169	103	21	141	51	_	_	_	-	
ool and die makers												1													12.5			
(jobbing)	4,936	4.97	-	-	_	-	- 2	-	-	-	-	- 1	-	-	-	-	-	-	-	-	-	115	30	409	290	1494	1691	4
ool and die makers (other									- 1																			
than jobbing)	457	4.82	-	-	-	-	-	-	-	-	-	-	-	-	-1	-	-	-	16	-	2	-	14	21	143	100	158	
ool clerks	297	3.58	-	-	-	-	-	-	-	7	-	1	22	19	21	52	34	68	19	17	17	3	9	8	-	_	-	
elders, hand, class A	399	3.92	_	_	_	-	-	-	-	-	-	-	-	-	112	6	26	28	66	21	9	23	4	16	48	29	1	
elders, hand, class B	480	3.43	-	-	-	-	-	-	-	-	-	-	-	35	173	210	12	19	14	17	-	-	-	-	-	-	-	
elders, machine,						18											1											
class A	37	4.09	-	-	-	-	-	-	-	-1	-	-	-	2	-	11	-	-	2	1	-	-	-	21	-	-	-	4
Women																					- 1							
ssemblers, class B	32	3.26										18		1	2	3	2	6					1					1
ssemblers, class B	454	2.85	-	-	2	-	199	18	8	6	58	5		158	4	3	2	0	-	-	- 1	-	-	-	-	-	-	1
	72	3. 22	- 5	-	2	-	199	10	0	0	20	34		27	1	-	-	10		-	-	-	-	-	-	-	-	
spectors, class B	12	3.44	-	-	-	-	-	- 5	-	-	-	34		21	1	-	-	10	-		-	-	-	-	-	-	-	
nitors, porters, and	68	2.46	5 27	6						21	2	4	1	7														
	00	2.40	61	0	-	-	-	-	-	21	4	4	1	'	-	-	-	-		-	- 1	-	-	-	-	-	-	
achine-tool operators,	7	2 01																		4	2							
production, class A	7	3.91	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	3	-	- 7	-	-	-	-	
achine-tool operators,	1/0	2 55									12			2		27	27	43	4.7									
production, class B	168	3, 55	-	-	-	-	-	- 1	-	-	13	-	-	3	9	27	27	42	41	6	-	-	-	-	-	-	-	
achine-tool operators,	222	2 (0					000		2/			10	,		10	1.2	2	-										
production, class C	323	2.60	-	91	-	-	98	51	26	2	-	10	6	8	10	13	3	5	-	-	-	-	-	-	-	-	-	1

The Detroit Standard Metropolitan Statistical Area consists of Macomb, Oakland, and Wayne Counties.

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

Workers were distributed as follows: 572 at \$5.20 to \$5.40; 137 at \$5.40 to \$5.60; and 25 at \$5.60 and over.

Workers were distributed as follows: 692 at \$5.20 to \$5.40; 149 at \$5.40 to \$5.60; and 66 at \$5.60 and over.

All workers were at \$1.80 to \$1.90.

											NUMI	BER OF	WORKE	RS RECI	EIVING	STRAI	GHT-TIM	ME HOU	RLY EA	RNINGS	OF-							
	Number	Average	\$1.80	\$1.90	\$2.00	\$2.10	\$2.20	\$2.30	\$2.40	\$2.50	\$2.60	\$2.70	\$2.80	\$2.90	3.00	\$3.10	\$3.20	\$3.30	\$3.40	\$3.50	\$3.60	\$3.80	\$4.00	\$4.20	\$4.40	\$4.60	\$4.80	\$5.0
Occupation and sex	of workers	hourly earnings 2	and		_	_		_	_	_	_	_	_	_	_	-	-	-	_			-	-	_		-	_	and
			under \$1.90	\$2.00	\$2.10	\$2.20	\$2.30	\$2.40	\$2.50	\$2.60	\$2.70	\$2.80	\$2.90	\$3.00	3.10	\$3.20	\$3.30	\$3.40	\$3.50	\$3.60	\$3.80	\$4.00	\$4.20	\$4.40	\$4.60	\$4.80	\$5.00	
Men																												
Assemblers, class A	258	\$3.63							_			2	3	5	6	3	4	19	29	49	82	37	8	,	2			
Assemblers, class B	476	3.00	1 2	-	-	1 1		3	2	20	79	62	79	25	50	16	26	34	12	49	9	-	4	5	-	1	4	
Assemblers, class C	250	3.01	_	1	_	i	1	7	19	9	74	-	9	8	7	9	11	13	54	8	11	5	i	-	1	1	_	
Carpenters, maintenance	15	3.49	-	_	-	-	-	_	-	_	-	-	- 2	-	-	1	-	11	1	-	-	_	-	-	-	2	-	
Electricians, maintenance	93	4.06	-	-	-	-	-	-	-	-	-	2	-	-	6	2	3	1	7	2	8	20	3	-	-	39	-	
Inspectors, class A	204	3.40	-	-	-	-	-	-	-	-	-	1	2	2	44	8	24	28	8	29	32	17	9	-	-	-	-	
Inspectors, class B	206	3.26	-	-	-	-	-	-	-	1	-	4	4	53	30	6	2	-	33	65	8	-	-	-	-	-	-	
Janitors, porters, and	4100																											
cleaners	210	2.63	3 5	-	-	15	8	50	8	29	35	9	9	5	-	-	-	37	-	-	-	-	-	-	-	-	-	
Laborers, material	222	2 (2				.,	20	4.5				22							20									
handling	222	2, 67	-	-	-	16	20	45	10	31	18	22	3	12	10		1	-	33	1	-	-	-	-	-	-	-	
Machine-tool operators,	1,418	3, 53			,		2			1	8		21	60	98	72	81	73	141	218	339	131	53	27	33	10	12	
production, class A Machine-tool operators,	1,410	3.33	-	-	1	-	2	-	-	1	٥	8	21	60	90	12	0.1	13	161	210	339	131	53	21	33	19	12	
production, class B	1,591	3, 26			4	7	14	16	20	31	55	77	91	86	85	94	181	149	173	154	263	74	5	9	1	1		
Machine-tool operators,	1,371	3,20		-	-	'	14	10	20	51	33		71	80	65	74	101	147	113	134	203	14	1	7	1	-	-	1 - 3
production, class C	1,171	3, 30	-		5	9	8	20	33	49	28	70	17	52	56	43	46	39	197	313	95	61	17	10	3	_		
Machine-tool operators.	.,	0.00			-					-/	-				-			-/	-/-	0.0	,-							
toolroom (operate 1 type																												
of machine)	347	4.22	-	-	-	-	_	_	-	-	- 1	-	2	2	-	2	12	12	7	22	18	61	15	25	25	144	-	
Machine-tool operators,																	100				1000							
toolroom (operate more																												
than 1 type of machine)	166	3, 41	-	-	-	-	-	-	-	-	-	4	-	3	2	6	74	11	12	17	20	11	1	5	-	-	-	
Machinists, maintenance	115	3.57	-	-	-	-	-	-	-	-	-	-	-	-		11	8	12	20	16	22	16	10	-	-	-	-	
Machinists, production	75	3, 53	-	-	-	-	-	-	-	-	4	4	-	-	5	-	-	5	-	23	11	23	-	-	-	-	-	
Polishers and buffers,	20	2.1/																-		-			-					
metal	29	3.16	-	-	-	-	-	-	-	10	-	-	-	-	-	-	6	3	-	5	-	-	5	-	-	-	-	1 '
Polishing- and buffing- machine operators	90	3.14							8	3	7	7	16	4	1	8	1	2	13	3	7	7	3			1		
Punch-press operators,	90	3.14	-	-	-		-	-		3	,	,	16	4	1	٥	-	2	13	٥	'	- 1	3	-		1	-	1
class B	92	2.94	8	2	4	4	6	9	1	5	2	2	1	1	2	3	2	2	17	3	10	3	1	1	1	1		
Setup men, machine tools	693	3.48	_	_	-	-	_	,	1		-	4	8	2	17	48	14	194	41	126	199	23		1	-	1	1	
Tool and die makers	. 0,3	3. 10	(2)	-				_			100	•		-		10	1.	. / .		120	-//		10			_	-	
(jobbing)	436	3.71	-	_	_	_	11	_	_	_	22	_	2	12	14	22	2	47	4	29	43	63	82	40	13	30	_	
Tool and die makers (other											32		-		-		7			-/								1
than jobbing)	376	4.03	-	-	-	-	-	-	-	-	-	-	-	-	-	5	13	7	3	24	78	112	37	-	20	3	74	
Tool clerks	114	2.83	-	-	-	10	-	8	5	3	13	32	9	3	1	3	-	3	12	12	-	-	-	-	-	-	-	
Welders, hand, class A	91	3.74	-	-	-	-	-	-	-	-	-	-	-	-	3	-	19	1	12	1	34	7	-	-	-	10	-	
Welders, hand, class B	33	2.88	-	-	-	-	2	-	2	3	4	2	4	9	1	-	-	3	-	1	1	-	1	-	-	-	-	
Welders, machine,																												
class B	29	2.76	-	-	-	-	-	1	1	12	3	3	3	2	-	-	-	-	1	3	-	-	-	-		-	-	1.9
Women																												
Assemblers, class C	753	2.89		1	2	1	10	17	83	209	49	31	28	32	24	40	31	33	117	21	10	5	7	2	-	1.2	_	1
Inspectors, class C	428	2.48	-	15	50	9	23	49	35	193	3	1	1	12	-		5	-	32		-	-		-	-	1 2	_	
Janitors, porters, and				1				-/		- / -			-															i
cleaners	11	2.42	-	_	-	-	- 2	7	1	3	-	- 2	-	-	-	_	-	-	-	-	-	-	-	-	-		_	1
Machine-tool operators,																			-									
production, class B	39	2.93	-	-	-	-	-	-	5	5	4	1	3	3	5	1	5	3	1	-	3	-	-	-	-	-	-	
Machine-tool operators,									1																			1
production, class C	162	2.71	-	6	1	8	4	9	20	7	14	23	22	25	9	5	4	2	1	-	-	1	1	-	-	-	-	
Punch-press operators,		100																										
class B	316	3.15	410	2	-	-	2	11	5	8	15	14	18	14	17	11	9	4	149	10	12	3	-	-	1	1	-	

The area consists of Andover, Avon, Berlin, Bloomfield, Bolton, Bristol, Canton, Coventry, Cromwell, East Granby, East Hartford, East Windsor, Ellington, Enfield, Farmington, Glaston-bury, Granby, Hartford, Manchester, New Britain, Newington, Plainville, Rocky Hill, Simsbury, Southington, South Windsor, Suffield, Vernon, West Hartford, Wethersfield, Windsor, and Windsor Locks.

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

ASER

ASER

Federal Reserve Bank of St. Louis

Table 13. Occupational Earnings: Houston, Tex.1

											NUM	BER OF	WORKI	ERS REC	CEIVING	STRAI	GHT-TI	ME HOU	TRLY EA	ARNING	s of-						
3	Number	Average	\$1.80	\$1.90	\$2.00	\$2.10	\$2.20	\$2.30	\$2.40	\$2.50	\$2.60	\$2.70	\$2.80	\$2.90	\$3.00	\$3,10	\$3.20	\$3.30	\$3.40	\$3.50	\$3.60	\$3.70	\$3.80	\$4.00	\$4.20	\$4.40	\$4.6
Occupation	of workers	hourly earnings 2	and			1		1	1			_												_	_		and
			under \$1.90	\$2.00	\$2.10	\$2.20	\$2.30	\$2.40	\$2.50	\$2.60	\$2.70	\$2.80	\$2.90	\$3.00	\$3.10	\$3.20	\$3.30	\$3.40	\$3.50	\$3.60	\$3.70	\$3.80	\$4.00	\$4.20	\$4.40	\$4.60	
Assemblers, class A	482	\$3,39											5	7	35	10	19	147	120	100	1	10	28				
Assemblers, class B	286	2.89	-	-	12	12	-	-	12	39	1	28	31	19	17	74	6	141	12	11	8	10	20	- 5	1 -		-
Assemblers, class C	103	2.73	-	-	4	1 1	2	2	4	35	5	2	29	4	2	3	0	2	12	1	1	1 7	1	-	1	1 -	
	14		-	-	4	1			4	35	3	-	29			3	1	1	4	1	5	-	1	-	-	-	
Carpenters, maintenance	159	3.49	-	-	-	-	-	-	-	-	-	-	-	-	5	-	1	1	0	15		24	22	68	-	-	
Electricians, maintenance		3.85		-	-	-	-	-		-	-	-	-	-	5	-	18	60	28	40	14 50	34 26	23 74	12	2	2	
Inspectors, class A	328	3.59	-	-	-	-	-	-	-	-	-	-	-	5 7	11	6	18	60	28	69	50	1	0.00	12	2	2	-
Inspectors, class B Janitors, porters, and	151	3. 34	-	-	-	-	-	-	-	2	2	1	2		11	12	8	1	28	69	-	1	-	1	-	-	-
cleaners	291	2.31	4 35	24	34	19	14	23	23	67	27	2	9	14	-	-	-	1-1	-	-		-	-	-	-	-	-
Laborers, material																											
handling	223	2.46	10	10	34	25	-	10	28	13	8	10	7	68	-	-	-	-	-	-	-	-	- 1	-	-	-	-
Machine-tool operators,										1 1																	+
production, class A	1,646	3.45	-	-	-	-	-	-	-	1	2	1	12	29	55	86	130	385	201	292	302	68	51	26	4	1	-
Machine-tool operators,		1																		1177							
production, class B	781	3.08	-	-	-	3	-	-	1	16	31	42	106	51	115	159	140	63	33	6	8	-	3	4	-	-	-
Machine-tool operators,	2000	100																									
production, class C	284	2.63	-	6	6	12	20	16	10	44	79	23	20	20	9	5	6	1	1	2	-	1	-	3	-	-	-
Machine-tool operators, toolroom (operate more																											
than 1 type of machine)	180	3, 58	100		1 2	1 2	_	_	-	2.1				_	2	2	8	9	6	37	106	2	10	_	1	_	-
Machinists, maintenance	131	3.83	_				_	_	-	_	_		-	_	_	_	-	2	_	5	31	15	73	5	_		1 -
Machinists, production	879	3.71	_			_	_	_	_	_					5	2	6	8	22	238	93	136	369	_	_	_	
Mechanics, maintenance	205	3.76	-	- 70	2.5	1	-	_	_	_		-	-	_		-	1	1	4	30	8	91	69	1			
Punch-press operators,	203	3.70		-	_	-		_			7.7	-			-				-	30		/1	07		_		
	11	2.65	0.5				_	_	1	2	_	2	-	3	_	_	_	100								2.5	
class B	52	3.60	2.1	-	-	-	-	-	4	-		-	-	3	-			-	_	21	27	4	-	-	1 -	1 0	
Setup men, machine tools Tool and die makers (other				-	-	-	-	-	-	-	-	-	-		-	1.5	-	-		21	21	7	-			-	1
than jobbing)	106	3.91	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	30	71	4	-	-	-
Tool clerks	131	2.99		-	6	5	-	8	1	5	-	12	9	5	22	5	17	-	29	3	2	-	1	1	-	-	-
Welders, hand, class A	642	3, 54	1.0	-	-	-	-	-	-	-	-	-	13	17	31	10	22	102	130	99	49	27	119	2	-	6	15
Welders, hand, class B	371	3.04		-	-	-	-	-	24	10	15	60	51	7	8	77	16	69	16	2	1	1	4	2	2	1	5
Welders, machine, class A	14	3.51	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	2	8	3	-	-	-	-	-	-

The Houston Standard Metropolitan Statistical Area consists of Brazoria, Fort Bend, Harris, Liberty, and Montgomery Counties. Excludes premium pay for overtime and for work on weekends, holidays, and late shifts.

Data limited to men workers.

Includes 8 workers at \$1.60 to \$1.70, and 16 at \$1.70 to \$1.80.

			NUMBER OF WORKERS RECEIVING STRAIGHT-TIME HOURLY EARNINGS OF—  \$1.60   \$1.70   \$1.80   \$1.90   \$2.00   \$2.20   \$2.40   \$2.60   \$2.80   \$3.20   \$3.20   \$3.40   \$3.80   \$4.00   \$4.20   \$4.40   \$4.60   \$4.80   \$5.00																			
Occupation and sex	Number	Average hourly 2		\$1.70	\$1.80	\$1.90	\$2.00	\$2.20	\$2.40	\$2.60	\$2.80	\$3.00	\$3.20	\$3.40	\$3.60	\$3.80	\$4.00	\$4.20	\$4.40	\$4.60	\$4.80	\$5.00
	workers	earnings	and under	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	and
			\$1.70	\$1.80	\$1.90	\$2.00	\$2.20	\$2.40	\$2.60	\$2.80	\$3.00	\$3.20	\$3.40	\$3.60	\$3.80	\$4.00	\$4.20	\$4.40	\$4.60	\$4.80	\$5.00	over
Men	-1																					
Assemblers, class A	1,136	\$3.32	-	-	-	-	-	-	10	104	112	218	201	162	148	179	2	-	-	-	-	-
Assemblers, class B	1,184	2.76	-	-	-	2	10	151	158	321	251	150	113	28	-	-	-	-	-	-	-	-
Assemblers, class C	600	2.37	-	10	6	5	173	164	134	19	31	58	-	-	-	-	-	-	-	-	-	-
Carpenters, maintenance	34	3.72	-	-	-	-	-	-	-	-	-	1	-	10	10	11	2	-	-	-	-	-
Electricians, maintenance	83	3.95	-	-	-	-	-	-	-	-	-			7	8	33	21	7	7	-	-	-
Inspectors, class A	712 273	3.76	-	-	-	-	-	-			-	11	54	171	177	100	127	31	35	6	-	-
Inspectors, class B		3. 15	-	-	-	-	-	15	12	26	33	86	40	43	33	-	-	-	-	-	-	-
Inspectors, class C Janitors, porters, and	107	2.65	-	-	-	-	1	15	42	15	16	15	3	-	-	-	-	-	-	-	-	-
cleaners	644	2.37	10	61	2	12	107	126	142	116	32	24	12		_							
Laborers, material handling	228	2.55	10	- 01	-	12	9	76	74	43	9	6	3	8	1	-	-	-	1 :	-	-	-
Machine-tool operators,	220	2.33	-	-	-	-	7	10	1.4	43	7	0		0	-	-	-	-	-	-	-	-
production, class A	3 703	3.82			_	1	_	_	2.5	_	9	85	396	631	644	642	719	326	93	139	3	16
Machine-tool operators,	5, 105	3.02	-	-	-	_	_	-	-	-	,	0.5	370	031	011	UTL	117	320	7,5	137	,	10
production, class B	1.726	3, 25				_	-	4	67	123	78	512	353	254	188	146	_	_	_	1	_	_
Machine-tool operators,	1,.20	0.00								120			333	231	100		_			-	177	
production, class C	1.038	2.69	-	36	-	2	67	64	110	306	301	112	42	_	2	-	_	4	_	_	_	_
Machine-tool operators,	,												1									
toolroom (operate 1																						
type of machine)	678	4.29	-	-	-	-	-	-	-	-	-	3	2	23	45	46	119	139	140	147	_	14
Machine-tool operators,										1 50										10000		
toolroom (operate more			1																			
than I type of machine)	483	3.98	-	-	-	-	-	-	-	-	-	-	-	42	44	209	103	49	12	24	-	-
Machinists, maintenance	53	3.90	-	-	-	-	-	-	-	-	-	-	-	-	22	21	4	1	3	2	-	-
Machinists, production		4.04	-	-	-	-	-	-	-	-	-	-	9	112	108	209	250	163	229	33	2	2
Mechanics, maintenance	193	3.60	-	-	-	-	-	-	-	-	-	20	37	39	39	36	15	5	-	2	-	-
Polishers and buffers, metal	38	3. 37	-	-	-	-	-	-	-	12	1	9	1	-	-	-	15	-	-	-	-	-
Punch-press operators,	10	2.16						100														
class A	63	3. 16	-	-	-	-	-	-	1	-	8	31	20	-	3	-	-	-	-	-	-	-
Punch-press operators,	100	2 51				,	20	11	2	-	21	20										
Setup men, machine tools	48	2.51	1	-	-	1	38	11	2	7	21	20	1	-	4	-	31	-	-	6	-	-
Tool and die makers (jobbing)	988	4.52		-	-	-	1	1	-	-	2	-	1	4	29	4	205	140	156		26	3 1 20
Tool and die makers (jobbing)	900	4. 52	-	-	-	7	-	-	7		-		-	-	29	4	205	140	156	279	36	3 139
than jobbing)	339	4.34	1									-		3	5	30	102	23	73	70	18	15
Tool clerks	183	2.89	1 -		-	1 -	-	16	27	19	39	49	16	17	_	30	102	-	-	10	10	15
Welders, hand, class A	1.176	3.63	1 -			1 2	1 2	10	-	2	37	30	305	239	280	114	172	20	1 -	6	2	6
Welders, hand, class B	217	3.08	_		_		_	2	26	46	-	46	50	43	2		2	-		_	-	_
Welders, machine, class A	21	3.52	-	_	-	_	-	_	_	-	-	3	6	3	6	3	_			_		
Women																						
women			1				1					1										
Assemblers, class A	641	2.88	1 2	_	-	-	-	10	26	137	366	49	29	24	_	-	_	_	-	-	_	-
Assemblers, class B	1,328	2.44	16	68	40	49	46	199	422	414	74	-	-	-	_	-	-	-	-	-	_	-
Assemblers, class C	2,524	2.18	180	4	66	156	794	761	561	-	2	-	-	_	-	-	-	-	-	-	_	_
Inspectors, class A	81	3.39	-	_	-	-	-	-	-	-	4	19	23	18	6	-	11	-	-	_	-	-
Inspectors, class B	143	2.90	-	-	-	-	-	1	8	48	31	33	22	-	-	-	-	-	-	-	-	-
Inspectors, class C	319	2.57	-	-	1	1	7	19	190	47	54	-	-	-	-	-	-	-	-	-	-	-
Janitors, porters, and																						
cleaners	13	2.53	-	-	-	-	2	-	8	3	-	-	-	-	-	-	-	-	-	-	-	-
Machine-tool operators,																						
production, class B	30	2.78	-	-	-	-	1	-	1	17	4	6	1	-	-	-	-	-	1 =	-	-	-
Punch-press operators,			1																			
class B	39	2.39	-	-	-	-	4	11	21	-	3	-		-	-	-	-	-	-	-	-	-
Tool clerks	10	2.86	-	-	-	-	-	-	-	5	1	4	-	-	-	-	-	-	-	-	-	-

The Los Angeles-Long Beach and Anaheim-Santa Ana-Garden Grove Standard Metropolitan Statistical Areas consists of Los Angeles and Orange Counties.

Excludes premium pay for overtime and for work on weekends, holidays, and late shifts. Virtually all workers were paid on a time basis.

Workers were distributed as follows: 67 at \$5 to \$5.20; 36 at \$5.20 to \$5.40; and 36 at \$5.40 to \$5.60.

Table 15. Occupational Earnings: Milwaukee, Wis.1

			NUMBER OF WORKERS RECEIVING STRAIGHT-TIME HOURLY EARNINGS OF— \$1,70 \$1,80 \$1,90 \$2,00 \$2,10 \$2,20 \$2,30 \$2,40 \$2,50 \$2,60 \$2,70 \$2,80 \$2,90 \$3,00 \$3,10 \$3,20 \$3,40 \$3,60 \$3,80 \$4,													_											
Occupation and sex	Number	Average		\$1.80	\$1.90	\$2.00	\$2.10	\$2.20	\$2.30	\$2.40	\$2.50	\$2.60	\$2.70	\$2.80	\$2.90	\$3.00	\$3.10	\$3.20	\$3.40	\$3.60	\$3.80	\$4.00	\$4.20	\$4.40	\$4.60	\$4.80	\$5
	workers	earnings 2	and	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0 \$4.80 -0 \$5.00 25 12 4 45 1 1	aı
ssemblers, class B ssemblers, class C arpenters, maintenance lectricians, maintenance spectors, class A spectors, class B spectors, class B spectors, class B spectors, class C mittors, porters, and cleaners abovers, material handling achine-tool operators, production, class B achine-tool operators, production, class B achine-tool operators, production, class B achine-tool operators, production, class C achine-tool operators, production (operate I type of machine) achine-tool operators, coolroom (operate more chan I type of machine) achineits, maintenance achinists, maintenance achinists, maintenance achinists, maintenance colishers and buffers, metal colishing- and buffing-machine operators much-press operators, class A col and die makers (other chan jobbing) col clerks elders, hand, class A elders, machine, class A elders, machine,					\$2.00	\$2.10	\$2.20	\$2.30	\$2.40	\$2.50	\$2.60	\$2.70	\$2.80	\$2.90	\$3.00	\$3.10	\$3.20	\$3.40	\$3.60	\$3.80	\$4.00	\$4.20	\$4.40	\$4.60	\$4.80	\$5.00	) ov
Men																											
Assemblers, class A	1,096	\$3.88	-	-	-	-	-	-	-	-	-			-	-	25	28	216	166	88	191	124	92	43	37		1
	1,855	3.57	-	-	-	-	-		-	-	7	1	34	6	30	159	183	545	105	91	527	49	50	31	26		
	823	3. 24	-	-	-	-	-	15	12	18	6	24	39	28	124	172	57	56	76	50	99	15	18	6	2		
	26 237	4.01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14	17	55	43	28	11	24	-		1
	645	3.76	-	-	-	-	-	-	- [	-	-	- [	-	-	-	-	-	37	133	146	243	63	16	2	4		+
	474	3.44	-	- 5	-		-	-	-	-	- 1		1	2	17	22	31	85	184	109	23	-	-	-	4	1	
	129	3, 12	-	-		-		1	-		- 5	- [	16	-	22	33	22	14	18	4	23	-	1	- 5	-	-	
	129	3.12	-	-	-	-	-	-	-	-	-	-	10	-	22	33	22	14	10	4	-	-	-	-		-	+
	570	2.89			_	7	5	3	7	30	18	59	30	65	134	117	54	37	4								
	922	2.81	75		_	-	-	-		15	10	238	46	45	243	86	75	96	4				-	-	-	- 5	
	766	2.01	13	-	-	-	-	7	- 1	15	-	230	40	40	243	00	15	90	3	-		-	1	-		-	
	2 951	3.89	-		_	_	_	_	-	-	_	_	_	_		37	57	247	474	498	484	630	184	140	110	62	
Machine-tool operators	2, 751	3.07	_		-	-	-	-	-	_	-	-		-		3.	3.	2.11	1.1	1,0	101	000	101	110	2.0	02	1 '
	2,578	3, 53	_		_	_		-	- 1	2	2	9	80	38	79	187	187	485	520	315	316	149	104	64	24	10	1
	2,510	3.33						1 20		-	-	1	00	50	. ,	10.	20.	105	520	3.5	3.0	1.1/	101			10	í.
	588	2.93	_	_	_		_	32	12	32	46	49	29	110	34	110	34	22	27	16	19	10	4	1	1	_	1
	300	2.75	_	-	-	-	-	7.0		3.5	10		-,		3.1	110			-	10	.,	10		1			1
									1	i																	1
	323	3, 88		_	-	-		-	_	_		_	-	-21	1 2 1	-	6	60	43	41	23	53	54	16	14	6	
	323	5.00						-	-		-	-				-		00	15				3.	10			
																											1
	320	3.98	_		-	2.0		_	-	- 1	_	_	-	_	_	_		10	57	38	63	41	63	30	18	_	1
	139	3.81	_	-	_	_	-	_	_	-	_	_	-	_	-	2	-	7	26	43	23	13	17	8	_	_	
	26	3.80	_		_	_	-	-	-	_	_	_		_	-	_	-		_	15	7	-	4	_	_ !	_	
	151	4.17	_		-	-	-	_	_	-	_	_	- 1	_	_	-	-	12	17	19	23	-	4	20	37	19	
	78	3.61	-	_	_	_	_	_	-	-	- 2	-	- 1	_	-	_	2		38	34	3	-	1	-	_	_	1
				100				1 222											1								1
	48	3.20	_	_	-	_	_	- 1	_	-	_	-	- 1	2	8	3	_	30	3	2	_	-	-	-	- 1	_	
	173	3.45	-	-	_	-	_	_	-	-	-	1	1	-	-	15	36	23	66	3	12	6	3	3	1	_	1
	192	3.29	-	_	_	_	_	2	-	11	4	-	12	21	18	2	21	14	30	21	20	11	3	1	1	-	
Tool and die makers	100																										
(jobbing)	605	4.36	-	-	-	-	-	-	-	-	-	-	-	-	-	-	_	-	24	21	30	37	150	203	110	15	
										i																	1
than jobbing)	327	4.37	-	-	-	-	-	-	-	-	-	-	-	-	-	- 1	-	-	2	38	29	26	56	60	75	39	
Cool clerks	144	3.19	-	-	-	-	-	-	1	-	-	5	9	12	29	13	4	34	22	1	10	4	-	-	-		
Welders, hand, class A	820	3.70	-	-	-	-	-	-	-	-	-	-	-	-	-	14	-	191	210	138	96	61	52	34	10		
Welders, hand, class B	1,185	3.51	-	-	-	-	-	-	-	-	-	- 9	2 -	16	76	32	379	205	103	64	65	60	74	62	25	15	
Welders, machine,		177.63																									
class A	119	3.67	-	-	-	-	-	-	-	-	-	-		-	-	1	>=:	42	36	10	3	10	4	8	2	1	
Welders, machine,																								-			
class B	81	3.13	-	-	-	-	-	-	-	-	-	-	-	-	31	1	40	5	1	-	1	1	1	-	-	-	
Women																											
seemblers class B	29	3.22		_		_	_	_	_	_	_		_		_	1	18	10	_	_				_	_		1
	6.7	3.22	1		-		-	-	-	-	-		-	1.5	10-7		10	10	-	-	-	-		-	- 1		
	64	3.00	_	_	-	-	_	1	-	- 2	_	5	11	2	16	3	3	23	_	-	-	_		_	- 1		
	04	3.00	-	-	-	-	-		- 1	-	-	,	1.1	-	10	,	-	23	-	-	-	-	-	-	- 1	-	
	31	3.61		_		-	-	_	_ 1	-	N	_	1	_		1	3	13	_	1	1	3	5	3	_	_	
Cool clerks	37	3.15	1	- 5				- 2			- [	- 5	3	3	11	- 1	6	2	12	1	1	-	_	_	123	1	
	1 31	2.13	-	7	-	10.7	-			-	-	-	,	2	**	-	0	-			-	-	_	-	-	- 5	1

The Milwaukee Standard Metropolitan Statistical Area consists of Milwaukee, Ozaukee, Washington, and Waukesha Counties.
Excludes premium pay for overtime and for work on weekends, holidays, and late shifts.

											NUM	BER OF	WORK	ERS REC	CEIVING	STRAI	GHT-TIM	ME HOU	RLY EA	RNING	s or-						
	Number	Average	10.0	\$2.00	\$2.10	\$2.20	\$2.30	\$2.40	\$2.50	\$2.60	\$2.70	\$2.80	\$2.90	\$3.00	\$3.10	\$3.20	\$3.30	\$3.40	\$3.50	\$3.60	\$3.70	\$3.80	\$3.90	\$4.00	\$4.20	\$4.40	\$4.6
	of workers	hourly earnings 2	Under \$2.00	under		-	-	-	-	0 \$2.70	\$2.80	\$2.90	-	-	-	-	-	-	-	-	-	-	-	-	-	-	and
				\$2.10	\$2.20	\$2.30	\$2.40	\$2.50	\$2.60				\$3.00	\$3.10	\$3.20	\$3.30	\$3.40	\$3.50	\$3.60	\$3.70	\$3.80	\$3.90	\$4.00	\$4.20	\$4.40	\$4.60	0 over
Men																											
Assemblers, class A	1,229	\$3.31	-	-	-	-	-	-	1	4	5	69	24	80	129	260	367	56	71	18	121	-	24	-	-	-	-
Assemblers, class B	1,153	2.91	-	-	-	69	67	87	103	18	64	50	257	151	74	60	11	99	10	2	5	6	3	9	4	3	1
Assemblers, class C	498	2.81	-	-	-	55	29	14	41	38	17	16	146	90	-	4	48	-	-	-	-	-	-	-	-	-	-
Electricians, maintenance	58	4.16	-	-	-	-	-	-	-	-	-	-	-	-	-	8	-	2	12	1	1	2	2	9	4	-	17
Inspectors, class A	378	3.54	-	-	-	-	-	-	-	-	- 2	-	-	-	17	17	74	44	73	58	32	57	5	1	-	-	-
Inspectors, class B	307	3.20	-	-	-	-	-	-	-	8	-	7	7	11	53	202	18	-	1	-	-	-	-	-	-	-	-
Janitors, porters, and	1000	1																									
cleaners	431	2.56	27	16	_	15	37	11	181	17	75	23	a 1	13	13	2	-	-	-	-	-	-	-	-	-	-	-
Laborers, material handling	476	2.87	-	-	-	7	-	31	31	78	80	59	49	44	17	7	72	1	5-1	-	-	-	-	-	-	-	-
Machine-tool operators,	10.7							1																			1
production, class A	1.965	3.54	-	-	_	_		-	-	_	-	-	13	122	105	137	233	232	256	256	284	140	116	28	32	8	3
Machine-tool operators,	.,,,,,	0.01			100		100																2.5		3.20		
production, class B	1 351	3, 14		-	-	_	_	100	12	4	80	125	180	150	259	131	120	167	85	24	4	4	1	2	1	2	
Machine-tool operators,	1, 551	3,		1 1		-						1.00			/								11.5	_	1	-	
production, class C	572	2.88		_	_	23	10	31	38	78	63	44	68	46	9	162	_	_	-	_	1 121/	_					1
Machine-tool operators.	512	2.00	-	-	100	23	10	31	36	10	03	44	00	40	,	102	-	-		-		_	-	-	-		-
												1															
toolroom (operate 1	107	2.55									5		5	1	15	10	4	9	6	8	14	2	11	15	1	1	
type of machine)	107	3, 55	-	-	-	-	-	-	-	-	5	-	2	1	15	10	4	9	0	8	14	2	11	15	1	1	-
Machine-tool operators,																									1		
toolroom (operate		1																					1				
more than 1 type of																						3.2		1.00			1
machine)	210	3.63	-	-	-	-	-	-	-	-	-	-	-	-		1	10	51	14	29	62	37	2	4	-	-	-
Machinists, maintenance	42	3.58	-	-	-	-	-	-	-	-	-	-	-	-	6	-	10	-	4	10	1	2	4	5	-	-	-
Machinists, production	154	3, 57	-	-	-	-	-	-	-	-	-	-	-	1	4	-	46	2	38	14	2	29	18	-	-	-	-
Mechanics, maintenance	55	3.74	-	-	-	-	-	-	-	-	-	-	-	-	4	-	3	2	2	3	14	19	1	7	-	-	-
Punch-press operators,																					1						1
class A	126	3, 24	-	-	-	-	-	-	-	-	-	-	-	27	42	15	5	22	2	9	1	1	2	-	-	-	-
Punch-press operators.		1000																									1
class B	225	2.95	-	7-1	3	3	3	-	3	3	6	19	105	43	9	25	1	-	1	-	1	-	-	-	-	-	-
Setup men, machine tools	45	3.51	-	-	_	-	-	-	-	-	-	2	-	-	-	12	1	4	8	8	6	-	-	-	4	-	-
Tool and die makers	1,000																										
(jobbing)	382	4.27	-	-	_		_	-	-	_	-	-	_	-	-	-	-	3	9	1	24	7	7	38	96	173	24
Tool and die makers (other	002		1				1			1											100					1	1
than jobbing)	265	4.08	_		_	-		-	_	_	_	-	_	-	_	_	8	_	_	_	26	14	53	54	103	6	1
Tool clerks	76	3. 10			_	_	3	-	1	1	1	1	22	15	4	10	5	10	1	_	2				-	-	1 -
Welders, hand, class A	798	3.44	1 7	-	-	-	_	1	1	1	1	1		59	83	67	89	206	103	42	133	3	6	5	2	_	_
Welders, hand, class B	585	3.01		1		-	1	-	-		110	58	89	147	68	20	59	14	20		-	_	1 .	_	_	_	_
Welders, machine, class B	32	2.96	-		-	-	-	-	-	-	110	6	17	141	00	20	37	14	20	-	1	13	100	_		-	1 (5)
welders, machine, class B	32	2.96	-	-	-	-	-	-	-	-	-	0	17	-	7	-	-	-	-	-	-	-	-	-	-	-	-
Women																											
Assemblers, class C	1.116	2.43	16	20	24	250	136	145	430	78	1		-	16	-	-	-	-	-		- 4	-	-		-	-	-
Janitors, porters, and		1		1										32									1				
cleaners	16	2.64		_	-	1	-		4	1	10	-	2	- 2	-	_	-	-	-	-	-	-	-	-	-	-	-
Machine-tool operators,		2.01									10										1000				110		
production, class B	27	2.76				6					5	6	_	10	_	_	_			_		_	_	_	-	-	1
p. outcom, class D		2. 10	-	-	_	0	_	1 -	-	_		0	_	10	_	1 -	_	-	15/11								1

The Minneapolis-St. Paul Standard Metropolitan Statistical Area consists of Anoka, Dakota, Hennepin, Ramsey, and Washington Counties.
Excludes premium pay for overtime and for work on weekends, holidays, and late shifts.

Table 17. Occupational Earnings: Newark and Jersey City, N.J.

(Number and average straight-time hourly earnings 2 of workers in selected occupations in machinery manufacturing establishments, November 1968)

											NUM	BER OF	WORK	ERS REC	CEIVING	STRAI	GHT-TI	ME HOU	IRLY E	ARNING	s of-							
Occupation and sex	Number of	A verage hourly	Under		\$1.90	\$2.00	\$2.10	\$2.20	\$2.30	\$2.40	\$2.50	\$2.60	\$2.70	\$2.80	\$2.90	\$3.00	\$3.10	\$3.20	\$3.30	\$3.40	\$3.50	\$3.6	0 \$ 3.80	\$4.00	\$4.20	\$4.40	\$4.60	
	workers	earnings 2	\$1.80	under	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	and
				\$1.90	\$2.00	\$2.10	\$2.20	\$2.30	\$2.40	\$2.50	\$2.60	\$2.70	\$2.80	\$2.90	\$3.00	\$3.10	\$3.20	\$3.30	\$3.40	\$3.50	\$3.60	\$3.8	0 \$4.00	\$4.20	\$4.40	\$4.60	\$4.80	over
Men																												
Assemblers, class A	666	\$3.55	>=	-	-	-	-	-	-	-	-	-	-	1	13	22	15	39	46	167	97	144	97	-	23	-	-	2
Assemblers, class B	674	3.30	-	-	-	-	-	4	4	6	7	22	88	51	41	89	38	21	49	7	56	61	12	84	34	-	-	-
Assemblers, class C	440	2.77	-	20	25	5	34	8	9	21	60	20	26	29	33	21	-	31	66	4	9	9	7	-	-	3	-	-
Carpenters, maintenance	25	3.46	-	-	-	-	-	-	-	-	-	-	1	-	-	-	4	2	10	-	-	6	-	-	1	-	1	
Electricians, maintenance	132	4.16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3	6	20	16	16	2	4	-	62	-
Inspectors, class A	255	3.48	-	-	-	-	-	-	-	-	-	-	-	2	13	-	9	16	96	3	32	58	20	6	-	-	-	-
Inspectors, class B	270	3.37	-	-	-	-	-	-	-	5	5	5	1	9	25	3	12	23	8	4	152	18	-	-	-	-	-	-
Inspectors, class C	130	3.19	-	-	-	-	-	-	-	4	-	-	-	29	2	10	28	-	-	57	-	-	-	-	-	-	-	-
Janitors, porters, and	3.6																											
cleaners	231	250	-	-	32	18	5	15	8	7	34	37	7	51	6	-	11	-	-	-	-	-	-	-	-	-	-	-
Laborers, material						100																						
handling	307	2.77	-	-	-	-	-	-	24	36	12	10	14	175	9	9	13	5	-	-	-	-	-	-	-	-	-	-
Machine-tool operators,	1000							100		1			1000															
production, class A	1.397	3, 57	-	1.4	_	-	2	2	2	4	3	5	6	30	30	63	32	104	94	199	127	348	176	122	38	2	-	8
Machine-tool operators,	-,-,.								- 1							310												
production, class B	1.964	3, 55	_	- 1		-	-	26	4	19	19	61	50	60	57	110	64	94	97	52	83	118	720	328	2	-	-	-
Machine-tool operators,	1,701	3.33						20		- /	- /							/ -				1	10000		100			
production, class C	461	2.64	_	_	18	20	48	25	24	20	87	17	34	33	52	11	21	17	8	8	5	1	12	-	-	-	-	-
Machine-tool operators,	401	2.04	-	- 1	10	20	40	23	2.1	20	0.	1.	3.	33								1	1				1	
toolroom (operate 1 type of machine)	373	4.12	_	_	_			_		_	-		_	_		12	4	14	1	34	43	42	17	36	1	_	169	_
	313	4.12	-	- 1	-	-	-	-	-	_	-	1	-			12			1	3.		1.0	1		_		1.07	
Machine-tool operators,																												
toolroom (operate more	303	3, 52						_	_	- 1		_	-	-	32	6	15	14	29	6	47	98	43	6	6	1 2	1	1 -
than 1 type of machine)	130	3.32	-	-	-	-	-	1			-	1 5	_		32	1	16	24	3	6	20	6	21	-	1			_
Machinists, production	29	3.58	1	- 1	-	-	-		-	-	1		1	1	1	-	1	3	1	2	1	20	-	_	1			_
Mechanics, maintenance	29	3, 58	-	-	-	-	-		-	-	-	-	-	-	1		1	3	1	-		20	1	-	-			1
Polishers and buffers,	50	2 17		1				-	_	_	-	2	12	2	3	6	4	2	6	5	2	-	3	3				
metal	50	3.17	-	-	-	-	-	-	-	-	-	-	14	-	,	0	-	-	0		-	_		-		-	1	
Polishing- and buffing-	11/	2.0/		1			12	4	16	1			11	-	-		19	4	17	32	-				-		-	
machine operators	116	2.96	-	-	-	-	12	4	10	1	-	-	11	-	-	-	17	4	11	32	7	-	1 -	-	-	-	-	1
Punch-press operators,		2 25		,			20	77	62	65	10	2	20	12	17	14	8	10	6	13	4	23	15	17	10	3	_	
class B	433	2, 75	-	6	-	-	38	11	62	65	10	3	20	12	17	14	0	10	0	13	*	23	15	17	10	3	-	1 -
Tool and die makers		2 25														12	12	6	26	15	49	72	85	199	147	76	6	
(jobbing)	705	3.95	-	-	-	-	-	-	-	-	-	-	-	-	-	12	12	0	20	15	49	12	0.5	199	147	10	0	-
Tool and die makers (other	21/	4												2		1	11	11	1	11	1	61	74	44	13		6	3 80
than jobbing)	316	4.11	-	-	-	-	-	-	-	-	-	-	-	2	-	1 5	5			2	38		14			-		80
Tool clerks	121	3.03		-	-	-	-	24	-	7	-	4	5	-	4		54	3 14	24	25	47	75	17	68	2	-	30	-
Welders, hand, class A	336	3.72	1 - 1	-	-	-	-	-	-	-		1	-	-	-	-			3 15		47		17			-	6	6
Welders, hand, class B	128	3.34	-	-	-	-	-	-	-	-	10	3	-	4	36	13	8	8	15	1	-	3	3	6	3	3	6	0
Women																												
Assemblers, class A	9	2.86		-	_	-	-	-	-	2	-	-	4	1	-	-	-	-		2	-	-	-	-	-	-	-	-
Assemblers, class B	498	2,60	-	-	4	5	12	94	34	93	33	31	56	17	66	21	5	12	9	-	-	4	2	-	-	-	-	-
Assemblers, class C	455	2. 27	24	76	77	45	52	75	7	6	6	-	12	2	2	-	-	-	1	70	-	-	-	-	-	-	-	-
Machine-tool operators,								100						1					1									
production, class B	12	3.19	-	_	-	_	-	-	4	4	-	-	-	-	1	-	1	-	-	-	-	3	3	-	-	-	-	-
production, class D	1.0	3																				1	1				1	

The Newark and Jersey City Standard Metropolitan Statistical Areas consist of Essex, Hudson, Morris, and Union Counties.

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

All workers were at \$4.80 to \$5.

(Number and average straight-time hourly earnings 2 of workers in selected occupations in machinery manufacturing establishments, September 1968)

																STRAI	-		-									
	Number	Average		\$1.70	\$1.80	\$1.90	\$2.00	\$2.10	\$2.20	\$2.30	\$2.40	\$2.50	\$2.60	\$2.70	\$2.80	\$2.90	\$3.00	\$3.10	\$3.20	\$3.40	\$3.60	\$3.80	\$4.00	\$4.20	\$4.40	\$4.60	\$4.80	\$5.00
Occupation and sex	of workers	hourly earnings 2	and	-	-	-	-	-	-	- 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	and
					\$1.90	\$2.00	\$2.10	\$2.20	\$2,30	\$2.40	\$2.50	\$2,60	\$2.70	\$2.80	\$2.90	\$3.00	\$3.10	\$3.20	\$3.40	\$3.60	\$3.80	\$4.00	\$4.20	\$4.40	\$4.60	\$4.80	\$5.00	over
Men																												
Assemblers, class A	851	\$3.51	-	_	_	_		_	_	_	1	25	_	1	7	6	30	20	126	307	201	101	6	14	2	4	_	-
Assemblers, class B	758	2.79	-	_	-	-	28	56	36	35	60	43	60	33	24	146	46	31	118	37	-	2	2	-	-	1	-	-
Assemblers, class C	994	2, 32	6	14	19	39	248	128	124	91	90	33	20	54	43	19	17	11	29	4	4	1	-	-	-	-	-	-
Electricians, maintenance	48	3, 61	-	-	-	_	-	-	-	_	-	_	-		-	-	1	-	11	17	4	13	2	-	-	-	-	-
nspectors, class A	174	3, 52	-	_	-	-	-	-	-	_	_	2	2	1	6	2	20	9	23	26	39	26	11	5	-	-	-	2
nspectors, class B	178	3.10	-	_	_	-	-	_	2	6	-	25	9	23	1	8	4	24	23	16	28	9	-	-	-	-	-	-
Inspectors, class C	138	2.16	-	6	47	5	1	_	34	22	2	4	5	7	3	-	2	_	_	_	-	-	-		-	-	_	-
Janitors, porters, and				-						550				7														
cleaners	291	2.22	16	40	8	12	53	19	23	6	30	21	37	7	_	19	_	_	_		-	_	_	_	_	_	_	-
Laborers, material	2/1	0.00	10	10		1.5	- 55	-/			30		٠,			-/											1	-
handling	474	2.38	30	19	37	15	20	50	38	15	51	21	53	6	57	41	15	2	4		-	-	_	1	-			
Machine-tool operators,		2.30	30	1,	,			30	30	10	٠.				-		1.0	-										
production, class A	1,869	3, 55	-		_	-	2.0	_	-		1027	8	4	12	22	32	13	70	276	676	414	168	144	11	16	2		1
Machine-tool operators,	1,009	3.33		-	-	-		-	-	1.5	-			1.5		35	1.5	10	5.0	0.0		100			10	-	-	1
production, class B	1.513	2.92	-	_			2	28	71	39	79	140	113	123	83	109	154	220	156	131	55	10	-		1	-	1000	
Machine-tool operators,	1,515	2.92	-	-	-	-	-	20	11	39	17	140	113	123	65	109	134	220	130	131	33	10	-	-	-	-	-	-
production, class C	1,286	2, 28	44	42	115	104	121	171	206	39	62	149	70	36	9	27	32	10	41	6	_		2					
Machine-tool operators,	1,200	2.20	44	44	113	104	121	111	200	37	02	147	10	30	7		32	10	41			-	-	-	-	-	-	-
toolroom (operate more																												
	136	3, 57					100			10.00					3	8	3	5	28	18	31	3	34	3	11 000			
than I type of machine)	46	3.73	-	-	-	-	-	-	-	-	-	-	-	- 1			3	3	20	13	2	18	8	1	-	-	-	-
Machinists, maintenance		3.61	-	-	-	-	-	-	-		-	-	-	-	-	-	27				3			10	7		-	-
Machinists, production	196	3. 26	-	-	-	- 3	-	-	-	-	-	2	-	3	2	2 8	3	5	16 14	59	16	48	18	10	1 '	4	-	-
Mechanics, maintenance	60	3.20	-	-	-	-	-	-	-	-	-	2	1	3	1	0	3	3	14	0	10	1	-	-	-	-	-	-
Polishing- and buffing-	27	2 20			-		2			5	,	6							٠,									1
machine operators	27	2.29	-	-	7	-	2	-	-	5	6	6	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-
Punch-press operators,												112			-	-												1
class B	124	2.24	-	-	-	40	3	27	15	8	10	1	4	-	5	5	4	-			1	1	-7	-		-	-	-
Setup men, machine tools	107	3.74	-	-	-	-	-	-	-	-	-	2	1	1	2	-	2	6	12	12	19	10	26	2	12	-	-	-
Tool and die makers																								100		100		1
(jobbing)	243	3.99	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	31	2	29	74	40	29	-	14	-	24
Tool and die makers (other							/												100			100		1.00				
than jobbing)	251	4.03	-	-	-	-	-	-	-	-	-	-	-	-	4	-	-	-	15	22	29	33	87	35	-	-	7	19
Tool clerks	82	2.80	-	-	-	-	-	-	17	-	4	-	-	15	3	5	30	4	2	2	-	-	-	-	-	-	-	-
Welders, hand, class A	223	3.69	-	-	-	-	-	-	-	1-1	-	-	-	-	11	-	6	-	47	33	37	28	37	10	6	4	4	-
Welders, hand, class B	332	2.74	-	-	-	-	2	12	14	17	16	29	49	47	30	52	27	6	29	2	-	-	-	-	-	-	-	-
Welders, machine,												1000		1														1
class B	30	2.93	-		-	-	-	-	-	-	-	3	12	-	-	-	5	-	10	-	-	-	-	-	-	-	-	-
										100																		1
Women	100																											
Assemblers, class A	35	2.94		_		_		_	-		4	6	5	-	_	1	1	2	13	3	_	_	_	-	_			-
Assemblers, class B	92	2. 34	1 2		1	4	13	23	10	19	2	2	2	1	1	5	5	5	-	-		_	-	1	-	-	-	1 -
Assemblers, class C	307	2.11	28	31	34	8	27	106	11	9	6	5	7	9	8	6	10	2	-				-					1 -
Inspectors, class B	19	2. 87	20	31	-	-	-	100	- 11	1	6	2	2	2	-	-	1.5	2	1	2	2	-	_		_		_	1 -
inspectors, class B	80	2.26	1		1	8	6	7	32	19	2	1	-	-	2	-	1	-	1	2	-	1 -			-		[	1 -
	00	2.20	-	-	-	0	0	,	32	17	4	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	
Punch-press operators,	12	2.11			-	1	7	. 3	-	4		-						1		_		100		12.2				1
Class D	12	2.11	-	-	-	1	,	-	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	_	-

The New York Standard Metropolitan Statistical Area consists of New York City (5 boroughs), and Nassau, Rockland, Suffolk, and Westchester Counties.
 Excludes premium pay for overtime and for work on weekends, holidays, and late shifts.

Table 19. Occupational Earnings: Philadelphia, Pa.-N.J.

(Number and average straight-time hourly earnings 2 of workers in selected occupations in machinery manufacturing establishments, October 1968)

											NUM	BER OF	WORKI	ERS REC	CEIVING	STRAI	GHT-TI	ME HOU	JRLY E.	ARNING	s or-							
Park and September 1	Number	Average		\$1.80	\$1.90	\$2.00	\$2.10	\$2.20	\$2.30	\$2.40	\$2.50	\$2.60	\$2.70	\$2.80	\$2.90	\$3.00	\$3.10	\$3.20	\$3.30	\$3.40	\$3.50	\$3.60	\$3.70	\$3.80	\$4.00	\$4.20	\$4.40	\$4.6
Occupation and sex	of workers	hourly earnings 2	Under							1				-	_				-			_			-		_	and
			\$1.80			\$2.10	\$2.20	\$2.30	\$2.40	\$2.50	\$2.60	\$2.70	\$2.80	\$2.90	\$3.00	\$3.10	\$3,20	\$3.30	\$3.40	\$3.50	\$3.60	\$3.70	\$3.80	\$4.00	\$4.20	\$4.40	\$4.60	1
Men																												
Assemblers, class A		\$3.24	2	-	-	2	4	2	2	50	35	31	123	29	102	133	99	73	125	331	73	17	48	22	41	16	20	
Assemblers, class B	868	2.76	-		4	41	18	107	38	77	50	81	44	55	74	47	54	106	16	34	5	-	1	6	1	2	-	
Assemblers, class C	535	2.28	21	19	43	27	48	60	211	29	25	2	25	9	2	3	1	3	-	1	-	1	-	1	2	1	-	
Carpenters, maintenance	28	3.67	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9		-	1	12	4	7	2	-	
Electricians, maintenance	102	3.63	-	-	-	-	-	-	-	-	-	6	-	5	2	-	8		-	11	34	7	8	11	6	10	20	
Inspectors, class A	427	3.42	-	-	1 -	-	-	-	-	1.2	2		4	6	6	79	51	76	37	19	46	3	14	35	10	3	30	
Inspectors, class B	380	3. 27	-	-	-	-	-	2	2	12	2	6	8 7	27	8	152	13	24	13	-	31	1	0	93	-	-	-	
Inspectors, class C	55	2.88	-	-	-	-	2	2	2	-	4	-	1	21	4	1	1	-	1	-	-	-	-	2	1	1	-	
Janitors, porters, and	2//	2.50		,		21	30	,	1.4	1.4	23	90	130	9	35													
cleaners	366	2.59	4	6	4	26	20	1	14	14	23	80	130	9	33	-	-	-	-	-	-	-	-	-	-	-		
Laborers, material	367	2,53	8	12	9	16	22	25	27	18	37	64	37	59	17	4	_	12	-	_	-	_		-	_			
handling	301	2.55	0	12	9	10	44	23	21	10	31	04	31	37	11	4	_	12	-	-	-	_	-	_	_		-	
Machine-tool operators,	2,658	3, 51			1				21	9	1	1	52	154	67	103	246	239	272	199	302	158	111	392	147	80	46	5
production, class A Machine-tool operators,	2,000	3. 31	-	-	-	-	-	-	21	7	1	1	32	134	07	103	240	237	212	177	302	150	111	376	141	00	40	
production, class B	2,012	3, 28		_	-	10	2	16	10	47	97	146	55	142	74	217	62	254	181	154	104	47	69	83	58	69	66	4
Machine-tool operators,	2,012	3.20	_	1		10	-	10	10	- 1	/ '	1.10	33	1.12			0.5	221	101	101	101		0,	0.5	30	0,	- 00	1
production, class C	902	2.40	4	44	41	34	133	118	158	60	92	34	38	24	44	32	14	10	4	8	3	2	_	4	1	-	-	
Machine-tool operators,	702	2. 10					100	110	100		/-										-			-	-			
toolroom (operate 1																												
type of machine)	121	3.72	-	-	_	-	-	-	-	_	-	-	-	_	-	21	-	1	5	-	3	7	23	43	9	3	3	
Machine-tool operators,								1000					-										199					
toolroom (operate more																												
than I type of machine)	136	3.55	-	-	-		-	-	-	-	-		-	-	9	-	22	18	14	~	27	9	5	12	5	7	5	1
Machinists, maintenance	181	3.73	-	-	1-1	-	-	-	-	-	-	-	-	-	-	2	2	5	-	29	16	59	2	31	34	-	1	
Machinists, production	494	3.76	-	-	-	-	-	-	-	-	-	-	-	-	-	36	9	-	12	18	17	35	182	22	147	13	-	
Mechanics, maintenance	125	3.58	-	-	-	-	-	-	-	-	3		-	-	-	10	8	3	12	9	39	1	6	7	27	-	-	1 3
Polishers and buffers,							100																					
metal	81	3. 27	-	-	-	-	8	-	7	-	-	-	-	-	11	2	8	-	2	36	-	-	-	-	-	-	-	
Polishing- and buffing-																				1000								2
machine operators	71	3,70	-	-	-	-	-	8	-	-	3	-	13		4	2	1	1	2	-	1	-	-	1	7	8	2	3 1
Punch-press operators,																												
class A	116	2.80	-	-	-	-	-	-	-	-	34	2	21	26	4	4	16	4	-	3	2	-	-	-	-	-	-	
Punch-press operators,	1000				100																			١	_			
class B	239	2.58	-	-	8	16	26	59	9	2	6	40	2	10	9	31	7	4	1	1	1		1	5	2	3	1	
Setup men, machine tools	141	3.29	-	-	-	-	-	-	-	-	-	-	-	8	24	2	(	23	21	29	2	13	10	2	-	-		
Tool and die makers	505	2.04												_	_	22	_	15	10	12	49	7	63	182	82	92	28	3
(jobbing)	595	3.94	-	-	-	-	-	-	-	-	-	-	-	-	-	22	-	15	10	12	49	,	63	102	84	92	28	3
Tool and die makers (other	339	4.00				_						6.5	1000		100	4	2	10	8	13	11	9	48	64	43	87	16	2
than jobbing)			-	-	-		3	9	6	7	7	3	35	18	25	3	1	59	11	4	3	9	40	04	43	01	10	-
Tool clerks	194	2.93	-	-	-	-	-	9	-	-	-	-	8	4	6	35	9	32	32	30	206	17	110	21	11	6	6	1
Welders, hand, class A	544	3.55	-	-	-		-	3		20	6	31	9	-	9	25	5	25	-	-	108	-	110	- 21	-	-	-	1
Welders, hand, class B	241	3.15	-	-	-	-	-	3	-	20	0	31	7	-	7	23	3	25	-	-	100	-	-	-	-	-	-	
Welders, machine, class B	119	2.73	_	_	_	16	-	-	8	16	14	10	10	13	9	6	24	-	-	1	6	-	-	-	-	-	-	1 3
Women																												
Assemblers, class B	125	2.42	2	2	8	20	6	18	44		2	5	4			_		1	1	1			5	2	2	2		
Assemblers, class C	446	2.25	20	26	78	16	14	8	233	9	8	-	10	2	1	2	1	8	i	2	1	2	1	1	1	1	-	
Inspectors, class A	15	3.03	20	20	10	10	14	-	233	7	4	-	1	-	-	-	2	4	4	-	-	-	1	1	-	1		
Inspectors, class C	87	2.43	[	1	2	12	23	4	8		-	12	13	3	6	1	-	-	î	-	-	_	2	-	-	_	1	
Janitors, porters, and	01	5, 15	_		-	1.5	23	-												1								
cleaners	28	2.20		1	14	4	-	-	-	-	2	2	-	5	-	-	-	-	-	-	-	-	-	-	-	-	-	
Tool clerks	24	2.50	-	4	1.	4	3	-	-	3	-	-	-	-	6	-	-	4	-	-	-	-	-	-	-	-	-	
		1		1													1		1									1

<sup>1</sup> The Philadelphia Standard Metropolitan Statistical Area consists of Bucks, Chester, Delaware, Montgomery, and Philadelphia Counties, Pa.; and Burlington, Camden, and Gloucester Counties, N.J.

<sup>2</sup> Excludes premium pay for overtime and for work on weekends, holidays, and late shifts.

<sup>3</sup> Workers were distributed as follows: 4 at \$4.60 to \$4.80; 8 at \$4.80 to \$5; and 6 at \$5 and over.

# ω Table 20. Occupational Earnings: Pittsburgh, Pa. 1

(Number and average straight-time hourly earnings 2 of workers in selected occupations in machinery manufacturing establishments, November 1968)

											NUM	BER OF	WORKE	RS REC	EIVING	STRAI	GHT-TI	ME HOU	RLY EA	RNING	s of—							
2000	Number	Average	\$2.00	\$2.10	\$2,20	\$2.30	\$2,40	\$2,50	\$2,60	\$2.70	\$2.80	\$2,90	\$3, 00	\$3,10	\$3,20	\$3.30	\$3.40	\$3.50	\$3.60	\$3.70	\$3.80	\$3.90	\$4.00	\$4,20	\$4,40	\$4.60	\$4.80	\$5.0
Occupation 3	of workers	hourly earnings 2	and	,	,	1	1-1-1		1	****		,,				,		,	,			1	,	,	7	1	+1.00	
			under \$2.10	\$2.20	\$2.30	\$2.40	\$2.50	\$2,60	\$2.70	\$2.80	\$2.90	\$3.00	\$3.10	\$3.20	\$3,30	\$3.40	\$3.50	\$3.60	\$3.70	\$3.80	\$3.90	\$4.00	\$4.20	\$4.40	\$4.60	\$4.80	\$5.00	and ove
				-		1		, , ,		,		, , ,	1	, , ,	,	1		1	-	,	1				,	1 -1 -1	7-7-0	0.0
Assemblers, class A	442	\$3.67	-	-	-	6		-	-	-	-	1	2	50	18	33	76	44	82	6	1	6	53	8	-	38	18	-
Assemblers, class B	189	3. 27	-	-	-	-	-	1	3	9	9	12	67	8	23	15	11	3	-	-	-	8	-	12	6	2	-	-
Assemblers, class C	69	2.92	-	-	-	-	3	3	-	1	39	4	1	6	12	-	-	-	-	-	-	-	-	-	-	-	-	-
Carpenters, maintenance	32	3, 88	-	-	-	-	-	-	-	-	-	-	-	-	-	4	-	1	-	11	4	-	-	12	-	-	-	-
Electricians, maintenance	133	3, 83	-	-	-	-	-	-	-	-	3	-	-	-	2	2	6	5	33	22	19	27	2	4	-	-	-	8
Inspectors, class A	191	3. 78	-	-	-	-	-	-	-	-	-	-	12	10	41	13	3	8	10	10	12	1	6	45	8	-	12	-
Inspectors, class B	82	3, 18	-	-	-	-	-	3	10	2	6	9	6	9	-	1	21	-	13	-	1	-	1	-	-	-	-	-
Inspectors, class C	43	2.85	-	-	-	-	-	-	1	22	3		18			-	-	-	-	-	_	-	_	_	_	_	_	_
Janitors, porters, and														11.54					1				1100				6.	
cleaners	165	2.65	9	3	_	10		23	56	47	- 2		4	12	13	-	-	-	-	_	-	_	-	_	_	_	-	_
Laborers, material	8.55		_ ′										-					1									1,0,0	
handling	163	2.73	-	-	_	3	12	12	64	25	20	18	4	-	5			_	-	_				-			7.00	
Machine-tool operators,	103	2. 13		-	-	-	12	12	04	23	20	10	-	-	,	-	1 2	-	-	-		-		-	170	-		-
production, class A	1,764	3.61								2	11	4.5	124	202	247	102	155	190	07	22	75	127	109	30	00	7.4	20	1 , ,
	1, 704	3. 61	-	-	-	-	-	-	-	2	11	45	124	203	247	103	155	190	97	23	15	137	109	29	90	74	38	12
Machine-tool operators,	505	2 21																							_			
production, class B	585	3. 21	-	-	-	6	12	-	12	58	28	26	110	89	83	40	-	20	15	50	-	13	8	7	5	2	1	-
Machine-tool operators,	2.78			5.4																								
production, class C	148	2.71	-	9	27	-	9	-	35	21	7	3	-	21	-	-	16	-	-	-	-	-	-	-	-	-	-	-
Machine-tool operators,																												
toolroom (operate 1																										1		
type of machine)	23	3.65	-	-	-	-	-	-	-	-	-	-	-	-	-	3	1	2	8	9	-	-	-	-	-	_	_	-
Machine-tool operators,																1												
toolroom (operate more																1												
than I type of machine)	80	3.63	1.2	-	-	-	_	-	_	_	_	-	_	13	11	14	3	1	2	5	-	2	14	15	_	-	1 2	
Mechanics, maintenance	98	3, 60	_	_	_	_	_	-	_	-	_	_	6	-		14	10	1	44	11	13	-	11	-		1	_	1 0
Polishing- and buffing-	70	3.00		-	_	-	_	1.5	-	-	-	-		-	-	14	10	-	44	11	13	-	-	-	-	-	-	-
machine operators	22	2, 83	_							9	10	3																
Tool and die makers	22	2.03	-	-		-	-	-	-	9	10	3	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-
	210	2 75														0.0		-	.,		,							
(jobbing)	319	3. 75	-	-	-	-	-	-	-	-	-	-	-	-	-	80	-	5	66	-	6	3	156	3	-	-	-	-
Tool and die makers (other									1																			
than jobbing)	48	3.83	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	5	4	23	- 1	3	2	9	-	-	-	-
Tool clerks	66	2.93	-	-	-	-	-	2	2	10	13	29	3	2	34	-	-	5	-	-	-	-		-	-	-	-	-
Welders, hand, class A	346	3. 57	-	-	-	-	-	-	-	-	-	-	22	64	27	57	44	35	24	3	2	-	7	9	-	52	-	-
Welders, hand, class B	100	2.97	-	-	-	-	-	-	-	30	-	42	15	1	5	-	-	-	-	-	7	-	-	-	-	-	-	-
Welders, machine, class A	46	3.41	-	-	-	-	-	-	-	-	-		-	18	7	-	-	-	21	-	-	-	-	-	-	-	-	-
Welders, machine, class B	17	2.93	-	-	-	-	-	2	-	-	-	12	3	-	-	-	-	-	-	_	-	_	-	_	_	-	-	-
cract,acmine, crass B								-					,		_	-	-	1	-		-	-	-		_	-	-	

The Pittsburgh Standard Metropolitan Statistical Area consists of Allegheny, Beaver, Washington, and Westmoreland Counties.
 Excludes premium pay for overtime and for work on weekends, holidays, and late shifts.
 Data limited to men workers.

Table 21. Occupational Earnings: Portland, Oreg.-Wash.1

(Number and average straight-time hourly earnings2 of workers in selected occupations in machinery manufacturing establishments, November 1968)

							1	NUMBER	OF WORK	ERS REC	EIVING S	TRAIGHT-	TIME HO	URLY EA	RNINGS (	OF—				
Occupation 3	Number	Average			\$3.00	\$3.10	\$3.20	\$3,30	\$3.40	\$3.50	\$3.60	\$3.70	\$3.80	\$3.90	\$4.00	\$4.10	\$4.20	\$4.30	\$4.40	\$4.5
· · · · · ·	workers	earnings 2	Under \$2.90	and	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				\$3.00	\$3.10	\$3.20	\$3.30	\$3.40	\$3.50	\$3.60	\$3.70	\$3.80	\$3.90	\$4.00	\$4.10	\$4.20	\$4.30	\$4.40	\$4.50	\$4.6
Assemblers, class A	360	\$3.97	-	_	-	-	-		-	-	8	2	84	30	223	10	3	-	-	
Assemblers, class B	165	3.49	-	-	-	1	1	13	50	73	25	2	-	-	-	-	-	1.0	-	1
Inspectors, class A	59	4.03	-	-	-	-	-	-	-	-	-	-	_	13	38	6	2	-	-	1
Janitors, porters, and cleaners	76	2.88	416	43	-	5	9	-	3	-	-	-	-	-	-	-	-	-	-	1
Laborers, material handling	61	3.30	-	3	13	4	12	8	-	21	-	-	-	-	-	-	-	-	-	(
Machine-tool operators, production,																				(
class A	582	4.02	-	-	E-	-	-	-	-	8	9	20	14	43	397	88	3	-	-	1
Machine-tool operators, production,																				1
class B	270	3.46	-	-	2	2	56	22	24	122	22	-	20	-	-	-	-	-	-	(
Machine-tool operators, toolroom (operate																7.0				(
more than 1 type of machine)	26	4.10	-	-	1.3		1 = 1	1 -	-	-	-	-	-	-	13	10	3	-	-	1
Machinists, maintenance	17	4.07	-	-	-	-	-	-	-	-	-	-	-	-	13	4	-	-	-	1
Punch-press operators, class A	14	3.78	-	-	-	-		140	1-	-	6	-	5	1	2	0-1	-		-	1
Tool and die makers (other than jobbing)	12	4.50	-	-	1-1	-	- "	(-)	-	-	-	-	-	-	-	-	1	-	3	(
Tool clerks	13	3.50	-	-	-	3	1	1	-	6	-	-	-	-	2	-	-	-	-	1
Welders, hand, class A	566	3.99	-	-	-	-	-	-	-	-	-	46	5	95	404	16	-	-	-	1
Welders, hand, class B	41	3.50	-	-	1	-	1	-	10	21	5	3	-	-	-	-	-	-	-	1

The Portland Standard Metropolitan Statistical area consists of Clackamas, Multnomah, and Washington Counties, Oreg.; and Clark County, Wash. Excludes premium pay for overtime and for work on weekends, holidays, and late shifts. All workers were paid on a time basis.

Data limited to men workers.

Workers were distributed as follows: 5 at \$2 to \$2.10; 2 at \$2.30 to \$2.40; 3 at \$2.50 to \$2.60; 1 at \$2.60 to \$2.70; and 5 at \$2.70 to \$2.80.

(Number and average straight-time hourly earnings 2 of workers in selected occupations in machinery manufacturing establishments, November 1968)

										N	UMBER	OF WO	ORKERS	RECEIV	ING ST	RAIGH	r-time	HOURL	Y EARN	INGS O	F—							
	Number	Average	\$2.10	\$2.20	\$2.30	\$2,40	\$2.50	\$2.601	\$2.70	\$2.80	\$2.90	\$3.00	1\$3.10	\$3.20	\$3.30	\$3.40	\$3.50	\$3.60	\$3.70	\$3.80	1\$3.90	\$4.00	\$4.20	\$4.40	\$4.60	\$4.80	\$5.00	\$5.20
Occupation and sex	of workers	hourly earnings 2	and				_				_	_		_												*		and
			under \$2.20	\$2.30	\$2.40	\$2.50		\$2.70	\$2.80	\$2.90	\$3.00	\$3.10	\$3.20	\$3.30	\$3.40	\$3.50	\$3.60		\$3.80	\$3.90	\$4.00	\$4.20	\$4.40	\$4.60	\$4.80	\$5.00	\$5.20	1,000
Men																												
Assemblers, class A	434	\$3.85		_	3	6	_	_	3	_	_	4	3	6	3	7	3	23	163	_	84	89	14	1	15	_	4	3
Assemblers, class B	563	3, 52	-	-	6	1	19	10	14	90	41	6	5	91	60	13	24	1	12	32		34	11	16	19		21	14
Assemblers, class C	467	2.82	-	-	-	-	7	80	71	268	-	32	-	6	_	_	-	_	1	_	_	1	-	_	_	1		-
Electricians, maintenance	92	4.29	-	-	-	-	-	-	-	-	-		-	_	_	6	-	1	7	-	_	16	33	8	20	1 2	1	
Inspectors, class A	88	4.28	-	_	_	-	-	-	_	2	1	7	5	5	5	1	1	_	1	_	_	1	10		10		6	1
Inspectors, class B	188	3.46	-	_	-	-	_	3	10	9	-	_	11	21	12	6	95	5	1	_	_		9	1	2	2	-	1 1
Janitors, porters, and	100	3. 10			1			-		'							,,,				100		_ ′	1	_ ~	_ ~	7.7	1 '
cleaners	209	2.74	3 29	7	11	12	26	26	15	3	12	8	4	44	12	_	_	_		_		_		1 2			_	1 -
Laborers, material	207		-/					-	.,	,								- 5				-	_	-	_	-		1
handling	420	2.82	5	8	15	15	7	30	195	11	20	42	22	20	28	2	_	_	_	_	_	_	_	_	_	_	_	1 -
Machine-tool operators.	120	2.02					100	30	1,5													100		75		_	- 5	1
production, class A	1,056	4.33	1	-	-	-	-	-	-	-	1	-	2	15	6	10	97	12	19	44	62	217	108	173	62	105	45	77
production, class B	734	3.68	-	-	-	3	15	12	19	29	12	20	125	41	54	31	27	27	31	16	28	25	105	49	26	5	9	25
Machine-tool operators, production, class C	129	2.98	_	-	_	5	4	3	27	25	39	5	-	2	-	-	12	_	3	-	-	1	-	_	-	1	2	
Machine-tool operators, toolroom (operate 1 type																												
of machine) Machine-tool operators, toolroom (operate more	57	4.08		-	-	-	-	-	-			-	-	11	•	-	1	4	6	-	2	1	8	17	6	-	1	
than 1 type of machine)	218	4.56								100						100	7				2	14	9	131	25	29		1 ,
Machinists, maintenance	57	4.17	-	-	- 5	1	-	-	-	-	-	-	1 -	-	-		6	6	11		4	2	5	12	14		-	1
Machinists, maintenance	402	4. 52	7	-	-	-	-		-		- 1	_	-	-	-	-	0	0	11	-	-	72	130		68		-	
	67	4. 24	-	-	-	1	-	-	-	-	-	-	-	2	-	-	-	2	-	-	17	4	130		1 00	111	-	1 .
Mechanics, maintenance Punch-press operators,			-	-	-	1	-	-	-	-		-	-	. 7		-	-							36	1	-	-	
Class A	226	3.75	-	-	-	-	-	-	-	-	4	30	10	10	18	18	3	23	2	46	14	5	17	-	9	7	-	10
class B	125	3.19	-	-	-	-	-	1	22	6	12	3	20	_	-	58	3	-	-	-	-	-	-	-	-	-	-	
Setup men, machine tools Tool and die makers	91	4.03	-	-	-	-	-	-	-	-	-	-	-	-	-	13	3	-	3	-	1	46	9	16	-	-	-	
(jobbing) Tool and die makers (other	352	5.18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	-	249	49
than jobbing)	240	4.72		_	_											100		_	1	2	1	5	12	24	128	35	26	1 .
Tool clerks	45	3.10		_	1	1 -	3	1	2	5	4	10	1	4	2	11	1	-	1	-	1	-	12	24	120	33	20	1 :
Welders, hand, class A	395	3.98		_	1		6	3	-		-	-	9		3	1	3	49	10	11		154	48	14	1	12		1 7
Welders, hand, class B	61	3. 24		_	1	1 3	"	3		3	4	18			3	1	3	47	9	11	' '	134	40	14	1	12	-	( '
Welders, machine, class B.	41	2.86	-	-	-	-	-	-	15	-	25	1	-	-	-	-	-	-	-		-	-	-	-	-	-	-	
Women																												
Assemblers, class B	17	3.21	-	-		-	-	-	-	3	4	2	2	1	1	-	-	2	1	-	-	1	-	-		-	-	
Assemblers, class C	680	3.27	9	-	126	-	10	150	73	-	-	5	4	14	5	10		14	15	42	20	37	25	62	32	4	-	1 9
Inspectors, class B	23	3.23	-	7	-	-	1	-	-	-	1	1	6	4	5	3	2	-	-	-	-	-	-	-	-	-	-	-
Inspectors, class C	283	2.86	-	34	2	3	42	89	11	1 1	-	-	1	69	7	4	3	-	-	3	-	6	-	-	1	1 5	-	1 7

<sup>1</sup> The St. Louis Standard Metropolitan Statistical Area consists of the city of St. Louis; the counties of Franklin, Jefferson, St. Charles, and St. Louis, Mo; and the counties of Madison and St. Clair, Ill.

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

3 Includes 6 workers at \$1.80 to \$1.90.

4 Workers were distributed as follows: 71 at \$5.20 to \$5.40 and 26 at \$5.60 to \$5.80.

Table 23. Occupational Earnings: San Francisco-Oakland, Calif. 1

(Number and average straight-time hourly earnings 2 of workers in selected occupations in machinery manufacturing establishments, September 1968)

			1							NUMB	ER OF	WORKE	RS REC	EIVING	SIRAI	GH1-111	ME HOU	RLY EA	RNING	s or—							
	Number	Average	-	\$2.70	\$2.80	\$2.90	\$3.00	\$3.10	\$3.20	\$3.30	\$3.40	1\$3.50	\$3.60	1\$3.70	1\$3.80	1\$3.90	\$4.00	\$4.10	1\$4.20	\$4.30	1\$4.40	1\$4.50	\$4.60	1\$4.70	1\$4.80	\$4.90	\$5.
Occupation and sex	of workers	hourly earnings 2	Under	and						_	_		_									1					1
			\$2.70	under	-	-	-		-			-		-	-	-	-	-	-	-	-	-	-	-	-	-	-
				\$2.80	\$2.90	\$3.00	\$3.10	\$3.20	\$3.30	\$3.40	\$3.50	\$3.60	\$3.70	\$3.80	\$3.90	\$4.00	\$4.10	\$4.20	\$4.30	\$4.40	\$4.50	\$4.60	\$4.70	\$4.80	\$4.90	\$5.00	ove
Men																											
Assemblers, class A	165	\$4.21	-	-	-	-	-	-	-	-	-	-	-	-	4	28	-	9	96	16	6	3	3	-	-	-	
Assemblers, class B	309	3.39	-	-	-	-	78	-	-	36	7	169	15	4	-	-	-	-	-	-	-	-	-	-	-	-	
Assemblers, class C	392	3.01	-	-	226	-	20	-	146	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Carpenters, maintenance	8	4.41	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	2	-	-	-	-	-	-	-	3
Electricians, maintenance	24	4.62	-	-	-	-	-	-	-	-	-	-	-	-	-	5	-	5	6	-	-	-	2	-	-	-	4
Inspectors, class A	138	4.54	-	-	-	-	-	-	-	-	-	-	-	4	-	14	1	1	48	28	-	6	2	-	-	11	5 2
Janitors, porters, and cleaners	85	3.06	1	1	30	-	30	11	4	-	-	-	4	4	-	-	-		-	-	-	-	-	-	-	-	
Laborers, material handling	128	3.21	-	-	4	1	27	10	52	22	-	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Machine-tool operators, pro-																							100				1
duction, class A	848	4.40	-	-	-	-	-	-	-	-	-	-	1	2	6	42	24	34	403	121	-	19	18	75	11	12	8
Machine-tool operators, pro-																											
duction, class B	473	3.52	4	1	2	-	41	3	-	23	107	190	24	38	-	-	-	-	40	-	-	-	-	-	-	-	1
Machinists, maintenance	48	4.39	-	-	-	-	-	-	-	-	-	-	-	-	-	2	1	17	-	-	-	-	26		-	-	1
Machinists, production	581	4.36	-	-	-	-	-	-	-	-	-	-	-	-	-	74	1	3	266	41	19	40	40	29	32	26	1
Punch-press operators, class B	113	3.21	-	-	-	-	20	-	87	3	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Tool and die makers (jobbing)	147	5.29	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	_	6 14
Tool and die makers (other than																											
jobbing)	200	5.12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	-	40	7 15
Tool clerks	56	3.55	-	140	-	-	5	-	1	19	2	7	11	-	-	-	-	11	-	-	-	-	-	-	-	-	
Welders, hand, class A	332	4.17	-	-	-	-	-	-	-	-	-	-	-	-	67	20	12	4	196	5	10	-	13	-	5	-	
Women																											
Assemblers, class B	147	2.89	7	51	8	5	76	_	_	_	_	_	_	_	_	_		_	_	_	_	_					
Machine-tool operators, pro-	.11	2.07	1	3.	0																						
duction, class C	54	3.06			25	-	10	_	4	15	_	_	_	-		-	_		_		-			1		1	

The San Francisco—Oakland Standard Metropolitan Statistical Area consists of Alameda, Contra Costa, Marin, San Francisco, and San Mateo Counties.
Excludes premium pay for overtime and for work on weekends, holidays, and late shifts. Virtually all workers covered by the study were paid on a time basis.

All workers were at \$5.20 to \$5.30. All workers were at \$6 to \$6.10.

All workers were at \$0 to \$0.10.

Workers were distributed as follows: 12 at \$5.10 to \$5.20 and 11 at \$6.50 to \$6.60.

Workers were distributed as follows: 24 at \$5.10 to \$5.20; 88 at \$5.20 to \$5.30; 11 at \$5.40 to \$5.50; 12 at \$5.50 to \$5.60; and 12 at \$5.60 to \$5.70.

Workers were distributed as follows: 23 at \$5 to \$5.10; 97 at \$5.10 to \$5.20; 4 at \$5.20 to \$5.30; 4 at \$5.30 to \$5.40; 8 at \$5.40 to \$5.50; 2 at \$5.50 to \$5.60; 10 at \$5.60 to \$5.70; 4 at \$5.70 to \$5.80; and 2 at \$5.90 to \$6.

## Table 24. Occupational Earnings: Worcester, Mass. 1

(Number and average straight-time hourly earnings 2 of workers in selected occupations in machinery manufacturing establishments, October 1968)

																		ME HOU										
	Number	Average	\$2.00	\$2.10	\$2.20	\$2.30	\$2.40	\$2.50	\$2.60	\$2.70	\$2.80	\$2.90	\$3.00	\$3.10	\$3.20	\$3,30	\$3.40	\$3.50	\$3.60	\$3.70	\$3.80	\$3.90	\$4.00	\$4.20	\$4.40	\$4.60	\$4.80	\$5.0
Occupation 3	of workers	hourly	and				-	_		_		_	_	_	-	-	-	-	-	_	-	-	-	-	-	-	-	and
	worzers	carumge	under \$2.10	\$2.20	\$2.30	\$2.40		\$2.60		\$2.80	\$2.90	\$3.00	\$3.10	\$3.20	\$3.30	\$3.40	\$3.50	\$3.60	\$3.70	\$3.80	\$3.90	\$4.00	\$4.20	\$4.40	\$4.60	\$4.80	\$5.00	
-																				-								_
Assemblers, class A	304	\$3.47		-		-	_	_	_	1	5	9	34	13	27	38	43	41	23	33	13	11	4	1	2	2	1	
Assemblers, class B	196	3.06	-	1	-	-	-	17	9	29	5	26	25	22	19	15	3	7	9	2	1	2	2	_	2		1 1	1
Assemblers, class C	46	2.92	-	-	_	-	_	5	2	3	17	7	4	1	4	1	1		í		2	-	-	_	-			
Carpenters, maintenance	7	3, 43	-	-	-	-	-		-	-	1 92	_		1	2	1	-	2		1	-	-	_	_	_	_		
Electricians, maintenance	36	3.45	-	-	-	-	-	_	_	_	-	_	_	- 1	3	13	11	2	2	3	1	_	1	-	-		20	
nspectors, class A	109	3, 27	-	-	-	-	1	3	4	16	-	7	3	11	8	12	19	7	5	5	i	_	4	2	_	1	_	
nspectors, class B	59	3.07	-	-	-	-	1	3	_	2	10	23	9	-	2		-		_	-	-	8	1	-	-	1		
anitors, porters, and							-			-					-												-	
cleaners	91	2.46	4	6	3	19	11	23	25	-	-	-	4	-	-	-	_			-	_	_	_	_	_	_	_	
aborers, material							1																1 1					
handling	75	2,53	-	4	2	25	5	14	10	2	_	9	_	3	_	1	_		_	_	-		_	_	_	_	-	
Machine-tool operators,												-		-	1 - 5													
production, class A	1.003	3, 35	-	-	-	-	4	5	13	24	52	96	56	86	152	97	140	75	37	62	15	33	20	15	9	5	2	
Machine-tool operators,														100	7.7					1 7 7				.5	1		_	
production, class B	462	3.01	_	-	_	7	15	27	27	88	42	74	62	18	18	22	12	11	8	5	7	7	3	4	1	_	2	
Machine-tool operators,							1 3		-	1 3 5		1	19.7					7.7						-	1		_	
production, class C	115	2.59	-	4	14	10	14	12	14	23	16	6	1	1	-	_	_	_	-		_	-	_	20				
Machine-tool operators,	7.7							- 77					-	- 1		100	1 101							100			_	
toolroom (operate more																												
than 1 type of machine)	11	3, 52	_	_	_	_		_	_	_	_		2	_		_	1	5	1	1	1		_	-	_		1 2	
Machinists, production	84	3. 35	-	-	_	_	_	_	_	-		_	2	6	26	30	3	14	i	î	1		1	_	_	1 1 2	-	
Mechanics, maintenance	30	3. 38	-	_	-	-	_		- 2	-	2	_	-	6	2	11	6	3	- 1	i	1	720	1					
Punch-press operators,	50	5,50													-				-	•	1		-	-	1	_	-	
class A	14	3.26		_	_	_	_	2	2	_	3	1	_	_		_			-	2	2	1	_	_	1	1 2		
etup men, machine tools	33	3.49		_	-	_	-	_	1	-	1			2	3	6	3	6	4	2	ī	3			î	[ E		
Tool and die makers	-	,	-	1					•		•			-	-					-				100		-	-	
(jobbing)	111	3.39				_	_		-		7	4	13	_	13	9	12	29	10	4		5	5	_	-	_		
Tool and die makers (other		,	1													,		/		•		_		_			-	
than jobbing)	68	3, 53	-	-	-	_	-	_	-		_	-	-	-	4	40	3	6	1		1	1	5	7	-		_	
Tool clerks	39	2.62	-	-	5	4	6	2	3	12	2	3	1		1	-	_	_	- 1	- 1	1	1	_	-		1 .	1 2	
Welders, hand, class A	43	3, 55				_	-	-	_		-	_	3	3	3	6	6	7	1	4	1	1 5	0		1 -		1 7	

<sup>1</sup> The Worcester Standard Metropolitan Statistical Area consists of the city of Worcester, and the towns of Auburn, Berlin, Boylston, Brookfield, East Brookfield, Grafton, Holden, Leicester, Millbury, Northborough, Northbridge, North Brookfield, Oxford, Paxton, Shrewsbury, Spencer, Sterling, Sutton, Upton, Westborough, and West Boylston in Worcester County.

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

3 Data limited to men workers.

Table 25. Method of Wage Payment in 21 Areas: Plant Workers

(Percent of production workers in machinery manufacturing by method of wage payment, September-November 1968)

				Northe	ast					South				North	Central				West		
Method of wage payment <sup>1</sup>	Boston	Buf- falo		and		Phila- delphia		Worces- ter	Balti- more	Dallas	Hous- ton	Chi- cago	Cleve- land	Detroit	Mil- waukee	Minne- apolis- St. Paul	St. Louis	Den- ver	Los Angeles— Long Beach and Anaheim— Santa Ana— Garden Grove	Port- land	San Fran- cisco- Oaklan
All workers	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Time-rated workers	91	78	73	83	90	87	79	81	83	96	95	85	81	97	70	97	82	93	98	100	99
Formal plan	67	63	56	56	42	65	62	74	68	74	80	62	61	78	66	86	81	82	62	94	86
Single rate	16	23	13	17	8	15	36	18	5	6	8	10	10	36	12	25	28	25	6	78	79
Range of rates	51	40		39	33	50	26	55	63	68	71	52	51	42	54	61	53	56	56	16	6
Individual rates	25	16	18	28	48	22	17	8	15	22	15	23	20	19	4	12	1	11	35	6	14
Incentive workers	9	22	27	17	10	13	21	19	17	4	5	15	19	3	30	3	18	7	2	-	(2
Individual piecework	-	5	12	(2)	5	1	3	4	1	4	-	8	7	( <sup>2</sup> )	9	3	(2)	7	-	-	-
Group piecework	1-1	-	( <sup>2</sup> )	-	-	2	-	-	-	-	-	1	2	(2)	4	-	1	-	( <sup>2</sup> )	-	1 5
Individual bonus	8	16	11	13	3	9	7	12	14	-	5	5	8	2	11	-	12	-	1	-	(2
Group bonus	1	1	3	3	3	( <sup>2</sup> )	11	3	3	-	( <sup>2</sup> )	2	3	1	6	-	5	-	1	-	-

 $<sup>^{1}\,</sup>$  For definitions of methods of wage payment, see appendix A.  $^{2}\,$  Less than 0.5 percent.

## Table 26. Scheduled Weekly Hours in 21 Areas: Plant Workers

(Percent of production workers in machinery manufacturing establishments by scheduled weekly hours, <sup>1</sup> September-November 1968)

				Northe	ast					South				North	Central				West		
Weekly hours	Boston	Buf-	Hartford- New Britain- Bristol	and	New	Phila- delphia		Worces- ter	Balti- more	Dallas	Hous- ton	Chi- cago	Cleve- land	Detroit	Mil- waukee	Minne- apolis- St. Paul	St. Louis	ver	Los Angeles— Long Beach and Anaheim— Santa Ana— Garden Grove	Port- land	San Fran- cisco- Oakland
All workers	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Under 37½ hours 37½ and under 40 hours	-	-	-	-	1	- 18	-	- 9	37	-	-	:	-	-	- 4	-		-	:	4	2
40 hours	66	70	65	76	77	52	84	54	51	52	77	59	52	66	61	81	92	91	75	96	98
Over 40 and under 45 hours	-	-	3	2	-	4	-	-	3	6	-	4	4	-	9	1	-	-	1	-	-
45 hours	19	13	8	7	7	14	2	25	1	-	8	6	12	4	10	13	-	9	10	-	-
Over 45 and under 48 hours	1	2	4	2	2	( <sup>2</sup> )	3	2	2	-	-	2	3	2	(2)	-	-	-	-	-	-
48 hours and over	14	15	19	13	12	12	12	12	7	42	3 15	29	29	28	16	5	8	1	14	-	-

Data relate to the predominant work schedule for full-time day-shift workers in each establishment.
 Less than 0.5 percent.
 About one-third were in plants which had a 50-hour schedule.

NOTE: Because of rounding, sums of individual items may not equal 100.

### Table 27. Scheduled Weekly Hours in 21 Areas: Office Workers

(Percent of office workers in machinery manufacturing establishments by scheduled weekly hours, 1 September-November 1968)

				Northe	ast					South				North	Centra	1			West		
Weekly hours	Boston	Buf-	Hartford- New Britain- Bristol	and	New		Pitts- burgh	Worces- ter	Balti- more	Dallas	Hous- ton	Chi- cago	Cleve- land	Detroit	Mil- waukee	Minne- apolis- St. Paul	St. Louis	ver	Los Angeles— Long Beach and Anaheim— Santa Ana— Garden Grove	Port- land	San Fran- cisco- Oaklan
All workers	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Under 37½ hours	10 15 75 ( <sup>2</sup> ) ( <sup>2</sup> )	99 - - -	( <sup>2</sup> ) 1 91 7 ( <sup>2</sup> ) -	10 13 77 (²)	28 47 25 -	2 7 87 3 ( <sup>2</sup> )	3 5 91 - - -	- 6 94 - - -	- 4 96 - - -	6 86 - 8 -	2 - 97 2 - -	2 16 81 (²) -	( <sup>2</sup> ) 5 94 1 - ( <sup>2</sup> )	3 92 2 1	( <sup>2</sup> ) 8 91 ( <sup>2</sup> )	98 1 (²)	20 80 - - -	99	( <sup>2</sup> ) 1 98 ( <sup>2</sup> )	99 - - -	4 1 95 - -

<sup>1</sup> Data relate to the predominant work schedule for full-time day-shift workers in each establishment.

Less than 0.5 percent.

Table 28. Shift Differential Provisions in 21 Areas: Plant Workers

(Percent of production workers in machinery manufacturing establishments by shift differential provisions, 1 September-November 1968)

				North	east					South				North	Centra	1			West		
Shift differential	Boston	Buf- falo	Hartford— New Britain— Bristol	Newark and Jersey City	New York	Phila - delphia	Pitts- burgh		Balti- more	Dallas	Hous- ton	Chi- cago	Cleve- land	Detroit	Mil- waukee	Minne- apolis- St. Paul	St. Louis	Den- ver	Los Angeles— Long Beach and Anaheim— Santa Ana— Garden Grove	Port- land	San Fran- cisco- Oakland
Second shift											i										
Workers in establishments having second-shift provisions  With shift differential	77. 4 76. 7 23. 4 	87. 6 82. 5 62. 1 13. 4 2. 6 2. 5 35. 9 4. 5 3. 2 20. 3	82.5 34.2 2.8 1.7 14.2 3.0 1.4 5.7 5.5 45.9 15.9 28.1	77. 7 76. 2 20. 7 - - 7. 5 - 7. 1 . 4 - - 1. 9 53. 8	57. 9 57. 9 10. 6 3. 3 - 4. 2 - . 8 - . 9 - . 1. 4 - . 46. 2	84. 1 84. 1 24. 8 4 8. 4 	92. 1 88. 8 79. 1 44. 6 25. 8 4. 0 3. 8	91. 7 91. 7 91. 7 50. 5 	88. 9 85. 2 6. 8 - - 6. 8 - - 78. 5	77. 0 77. 0 75. 4 9. 5 42. 6 2. 2 4. 1 11. 3 5. 8	88. 4 88. 4 80. 1 17. 2 1. 4 16. 1 6. 1 33. 7 3. 7 1. 9	82. 5 82. 5 40. 1 - - 8. 2 - 2. 5 6. 4 6. 9 1. 8 2. 6 32. 1 - 9 3. 0	86. 4 86. 4 65. 6 1. 0 1. 5 14. 4 1. 0 15. 6 12. 0 15. 6 12. 0 1. 4 . 6 2. 2 13. 5	89. 2 87. 8 52. 4 . 9 1. 8 . 3 1. 4 . 8. 2 . 9. 4 . 22. 3 . 35. 4	94. 9 94. 6 82. 9 . 5 32. 8 2. 5 9. 7 20. 0 15. 1 2. 4 	92. 4 92. 4 78. 8 	86. 1 86. 1 27. 1 4. 0 - 10. 4 - 1. 2 6. 9 - 2. 7 1. 9 - 59. 0 - 20. 4 3. 4	89. 2 88. 5 49. 0 1. 0 	78. 9 75. 7 61. 23 17. 3 14. 4 1. 1 15. 7 5. 7 3. 1 3. 6 6. 4 1. 4 1. 7 6	94.8 94.8 4.9	90. 3 90. 3 11. 8
Over 10  Other formal pay differential 2  With no shift differential	37. 0 5. 5	5.4	2.4	39. 2 - 1. 8 1. 5	27. 3 17. 9	54.2	7. 7	33.4	36.5	1.6	-	25. 7 2. 5	9. 7 - 7. 2 ( <sup>3</sup> )	1.7	. 2	2.0	30.8	2. 9	2. 6 - 8. 1 3. 1	14. 9 5. 0 70. 0	71.7
Third or other late shift Workers in establishments having third- or other late- shift provisions With shift differential	18. 9 4. 7 13. 4	62. 6 62. 6 637. 7	74. 3 27. 6 1. 0 12. 2 3. 2 1. 0 2. 0 1. 4 1. 4 5. 5 44. 3 - 6. 3 37. 9	19.5 1.0 14.5 .7 1.0 .4 1.9 46.3 -	47. 1 47. 1 7. 3 - 2. 5 .8 1. 6 - - - - 9 1. 4 39. 8 - - 19. 1 4. 8 15. 9	63. 1 63. 1 15. 5 1. 8 	82. 7 82. 7 71. 7 - - 46. 4 18. 1 - - - - - - - - - - - - - - - - - - -	82. 5 82. 5 48. 0 	81. 3 81. 3 8. 5 	31. 6 31. 6 31. 6 31. 6 2. 1 12. 9 4. 1 2. 2 - 4. 4 5. 8	70. 4 70. 4 63. 7 	69. 1 69. 1 33. 9 2. 0 6. 1 3. 7 4. 5 5. 9 4. 3 1. 8 2. 7 . 8 2. 3 5 . 9	74. 3 74. 3 51. 6 6. 3 1. 5 16. 3 2. 7 3. 0 6. 9 4. 4 1. 7 7 12. 2	74. 8 74. 8 41. 3 . 6 3. 9 2. 6 8. 0 - 4 - 3. 7 21. 7 4 32. 9 . 6 4. 6 27. 1	84. 4 84. 4 61. 2 1. 5 19. 6 9. 2 3. 7 2. 5 17. 7 8 6. 4 10. 6 . 2	72. 6 72. 6 62. 0 4. 4 4. 2 39. 6 2. 0 4. 4 1. 5 - - - 10. 6	81. 7 81. 7 13. 9 	79. 8 79. 8 21. 3 -4. 3 -4. 9 36. 6	46. 3 45. 2 14. 5 . 3 8. 4 6 	72. 7 72. 7 72. 7 	83. 9 83. 9 
differential 2 With no shift differential	10.7	9.9	2.4	1.2	-	1.5	1. 3	1	:	1	4.4	11.7	10.6	. 6	12. 6	:	13.2	21.9	30.7 1.1	67.7	77. 2

Refers to policies of establishments either currently operating late shifts or having provisions covering late shifts.
 Includes combination plans such as full day's pay for reduced hours, plus cents or percent differential.
 Less than 0.05 percent.

				Northe	ast					South				Nort	h Centr	al			West		
Shift differential	Boston	Buf- falo	Hartford— New Britain— Bristol	Newark and Jersey City		Phila- delphia	Pitts- burgh	Worces- ter	Balti- more	Dallas	Hous- ton	Chi- cago	Cleve- land	Detroit	Mil- waukee	Minne- apolis- St. Paul	St. Louis	Den- ver	Los Angeles- Long Beach and Anaheim- Santa Ana- Garden Grove	Port- land	San Fran cisco Oaklan
Second shift																					
orkers employed on second												., .			100		100 1 1	2.5			
shift	8.5 8.4 2.5	17.6 17.4 13.0	13. 4 13. 4 5. 7	9.9 9.5 2.2	5. 5 5. 5 1. 3 . 2	14.8 14.8 3.5	20.7 19.8 17.4	14.7 14.7 6.8	19.6 18.9 .4	12. 5 12. 5 12. 4	25.3 25.3 23.6	16.4 16.4 8.4	18.8 18.8 14.8	18.0 17.6 10.7	20.9 20.8 18.3	18.8 18.8 15.9	15.3 15.3 6.3 1.2	24.9 24.8 10.8	13.4 12.9 10.4	19.1 19.1 .9	12.
8 Over 8 and under 10 10	6	2.8	- - .5	5	- - .5	- - . 3	7.9	1.4	. 4	1.9	5.1 .5 4.2	1.4	.4	. 4 - 1. 4	6.5	7.3	1.5	4.1	2.9	-	
11	-	. 2	-	-	-	-	-	-	-	-	1.7	-	-	-	-	. 4	-	-	-	-	
12 or 12 ½ Over 12½ and under 15	-		. 4	. 2	. 1	:	1.1	1.1	-	. 4	10.7	1.8	.2	. 2	1.7	3.7	. 4	. 6	2.5	-	
15	. 3	7.8	1.8	1.2	. 2	. 9	1.2	-	-	-	. 8	1.0	3.5	1.8	4.9	2.3	2.5	5.4	. 2	-	
Over 15 and under 20 20	8	1.3	. 4	. 1	-	1.2	-	1.3	-	1.2	.6	2.4	3.4	2.0	4.2	1.8	. 3	.7	. 9	1	
Over 20 and under 25	. 4	-	. 3	-	. 3	-	-	1.2	-	-	-	. 3	. 5	-	-	-	-	-	-	. 9	
25 Over 25	. 5	. 8	1.4	.1	-	. 2	-	1.8	1	. 6	-	. 5	.1	4.9		-	. 4	-	. 9	-	
Uniform percentage	4.8	4.4	7.5	6.9	4.2	11.3	2.4	7.8	18.5	-	1.7	5.7	2.8	6.9	2.6	2.4	8.9	13.9	1.2	5.1	
Under 5	-	- 2	- 1	2.9	(1)	-	.6	.9	12.3	-	-	. 1	. 4	4.5	1.5	1	5.4	-	. 3	_	
Over 5 and under 10	-	2.8	7.4	-	-	. 1	-	. 3	. 2	-	1.7	. 4	. 8	1.9	1.1	1.2	-	-	. 2		
10 Over 10	3.8	1.4	. 1	3.9	2.0	10.9	1.8	6.7	6.0	-	-	4.9	1.6	. 4	(1)	1.2	3.5	13.9	. 2	4.1	
Other formal pay																					
differential <sup>2</sup> Receiving no pay	1.0	-	. 2	. 4	(1)	-	-	-	-	. 1		2.3	1.2	-	-	. 5	-	-	1.3	13.1	10
differential	. 1	. 3	-	. 4	-	-	. 8	-	. 7	-	:-:	-	(1)	. 3	. 1		-	. 2	. 6	(-)	
Third or other late shift																					
Vorkers employed on third or							100.5			100		7.0									
other late shift Receiving shift differential	. 4	2.2	2.0 2.0	1.1	.1	5.3 5.3	8.1	. 8	13.1 13.1	1.1	7.3	5. 2 5. 2	2.4	1.8	6.1	2.9	2.6	3.1	1.1	5.5	
Uniform cents per hour	. 2	. 9	. 4	. 1	(1)	. 4	7.2	. 8	-	1.1	7.2	2.6	1.6	. 6	4.2	2.6	. 3	1.1	. 2	-	
Under 10	- 1	1		2	-	1	-	1	-	1		. 1	(1)	(1)	1	(1)	-	1	-	-	
Over 10 and under 15	- ,	-	-,	(1)	-	-	3.0	-	-	1.1	-	-	. 1	. 1	1.0	-	. 1		-,	-	
15 Over 15 and under 18	. 2	-	(i)	(1)	-	-	3. 2	. 2	-	-	3.1	. 1	. 7	. 1	. 7	1.4	-	. 3	. 1	-	
18	-	-	-	. 1	-	.1	1.1	-	-	-	3.8	. 8	. 2	(1)	-,	.1	-	-	. 1	-	
Over 18 and under 20 20	-	. 9		-	-	. 2	-	1	-	-	.1	1.3	(i)	.1	1.1	(i).	-	. 8		1	
Over 20 and under 25	-	-	-	(1)	(1)	-	-	-	-	-	-	.3	. 5	-	( <sup>2</sup> )	-	- ,	-	-	-	
25 Over 25	-	-	-	(1)	(-)	. 2	-	.5	-	1	1.5	(i)	1	(i)	1.0	.8	. 2		(1)	1	
Uniform percentage	. 1	1.1	1.5	. 6	(1)	4.8	. 8	-	13.1	-	-	1.0	. 1	1.1	. 8	. 2	1.4	1.1	-	. 2	:
Under 77 percent	1	-	. 2	_	-	-	. 2	-	-	-	1.	-	0	. 1	- 5		-	1	1		
Over 7 and under 10	-	-	-	-,	-	-	-,	-	-	-	-	-		(1)	. 7		,-,	-	-	-	
10 Over 10 and under 15	. 1	1.1	1.3	. 6	(1)	4.5	. 6	:	13.1	-	-	. 9	. 1	1.0	. 2	. 2	1.4	1.1	-	-	
15	(1)	-	-		-	. 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Over 15 Other formal pay	-	-	-	6-0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	. 2	
differential 2	. 2	. 2	-	. 1	-	-	-	-	-	-	. 2	1.5	. 8	-	1.1	-	. 9	1.0	. 8	5.3	3
Receiving no shift differential				. 2				-		1			1					-	. 1	_	1

 $<sup>^1</sup>$  Less than 0.05 percent.  $^2$  Includes combination plans such as full-day's pay for reduced hours, plus cents or percent differential.

Table 30. Paid Holidays in 21 Areas: Plant Workers

(Percent of production workers in machinery manufacturing establishments with formal provisions for paid holidays, September-November 1968)

				Northe	east					South				North	Central	1			West		
Number of paid holidays	Boston	Buf- falo	Hartford- New Britain- Bristol	Newark and Jersey City	New York	Phila- delphia	Pitts- burgh	Worces- ter	Balti- more	Dallas	Hous- ton	Chi- cago	Cleve- land			Minne- apolis- St. Paul	St. Louis	Den- ver	Los Angeles— Long Beach and Anaheim— Santa Ana— Garden Grove	Port- land	San Fran- cisco- Oakland
All workers	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Workers in establishments providing paid holidays 5 days 6 days plus 1, 2, or 3 half days 7 days 7 days plus 1, 2, or 3 half days 8 days 8 days plus 1, 2, or 3 half days	(1) - 2 2 6 1	100 - 5 - 7 4 2	100 - 1 - 10 2 6 18	100 - 1 1 5 6 3 6	100 - 1 1 4 3 15 2	100 -3 5 12 3 15 5	100 3 3 - 37 5 19 3	100 - 2 - - 26 33	100 - 7 - 7 - 55 2	100 28 13 8 12 - 33	100 6 13 - 11 3 44	100 - 20 6 7 3 18 5	97 - 13 4 3 6 18	96 1 7 5 3 3 11	100 - 3 5 2 2 25 5	100 10 10 7 9 7	100 (1) 4 2 3 27 4	100 -4 -21 9 17	100 1 26 4 12 7 27	95 -4 -7 5 79	100
9 days	26 24 15 6 1	49 - 33 - -	36 2 25 -	34 6 23 3 9	24 10 12 5 14 3	27 9 20 - 2	31	29 10 - - -	30	7 - - -	23	31 2 7 -	36 - 7 - -	29 - 32 - 2	39 - 19 - -	46 - - - -	32 - 27 - -	37	18 - 4 1 -	-	73
12 days or more	-	-		3	5	-	-	-		-	-	-	3	1 4	-	-	-			5	-

<sup>1</sup> Less than 0.5 percent.

NOTE: Because of rounding, sums of individual items may not equal 100.

Table 31. Paid Holidays in 21 Areas: Office Workers

(Percent of office workers in machinery manufacturing establishments with formal provisions for paid holidays, September-November 1968)

				Northea	ast					South				North	Central				West		
Number of paid holidays	Boston	Buf- falo	Hartford— New Britain— Bristol	Newark and Jersey City	New York	Phila- delphia	Pitts- burgh	Worces- ter	Balti- more	Dallas	Hous- ton	Chi- cago	Cleve- land	Detroit	Mil- waukee	Minne- apolis- St. Paul	St. Louis	Den- ver	Los Angeles— Long Beach and Anaheim— Santa Ana— Garden Grove	Port- land	San Fran- cisco- Oaklan
All workers	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Workers in establishments										1											
providing paid holidays	100	100	100	100	100	100	100	100	100	100	100	99	99	98	100	100	100	100	100	99	100
5 days	-	-	-	-	-	-	1	-	-	22	3	-	-	(1)	-	-	-	-	1	-	-
6 days	(1)	3	(1)	(1)	(1)	2	2	1	5	6	6	12	11	5	5	5	(1)	4	19	10	2
6 days plus 1, 2, or 3 half days	-	2	`-'	(1)	`-'	5	1	_	-	7	2.	7	4	3	2	6	3	-	3	-	-
7 days	1	_	7	2	2	6	21	_	6	10	9	7	2	2	(1)	3	1	13	9	2	1
7 days plus 1, 2, or 3 half days	2	4	1	3	2	5	5	-	-	-	2	5	8	2	3	15	2	5	7	6	-
8 days	2	2	2	7	13	16	11	14	46	48	59	16	14	14	11	12	46	13	39	81	12
8 days plus 1, 2, or 3 half days	2	1	31	4	2	1	1	55	1	-	-	6	4	(1)	5	25	5	-	2	-	2
9 days	15	66	36	33	30	36	57	22	42	8	20	35	37	23	46	34	22	10	17	-	78
9 days plus 1 or 2 half days	27	-	7	10	11	7	-	8	-	2	-	4	4	-	-	-	-	-	_	-	-
10 days	23	22	16	24	9	17	-	-	-	_	-	7	14	45	29	140	21	57	3	-	6
10 days plus 1 or 2 half days	20	-	_	1	8	-	-	-	-	- 1	-	-	-	-		-	-	-	1	-	-
11 days	8	-	-	12	15	5	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-
11 days plus 1 or 2 half days	1	-	-	2	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12 days or more	-	-	-	2	4	-	-	-	-	2.1	-	-	-	2	-	-	-	-		-	-
Workers in establishments																					
providing no paid holidays	-	-	-	-	-	-	-	-	-	-	-	(1)	1	2	-	-	-	-	-	1	-

<sup>1</sup> Less than 0.5 percent.

(Percent of production workers in machinery manufacturing establishments with formal provisions for paid vacations, September-November 1968)

				North	east					South				North	Centra	1				West		
Vacation policy	Boston	Buf- falo	Hartford- New Britain- Bristol	Newark and Jersey City			Pitts- burgh	Worces- ter	Balti- more	Dallas	Hous- ton	Chi- cago	Cleve- land	Detroit	Mil- waukee	Minne- apolis- St. Paul	St. Louis		en- er	Los Angeles— Long Beach and Anaheim— Santa Ana— Garden Grove	Port- land	San Fran cisco Oaklan
All workers	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	1	00	100	100	100
Method of payment								10-01														
Workers in establishments providing paid vacations Length-of-time payment	100	100	100 91	100 86	100 96	100 93	98 69	100 81	100 100	100 94	100 89	100 85	100 96	99 64	100 87	100 96	100 92	1	93	100 99	100 95	100
Percentage payment	1	25	9	8 7	3	7	29	19	-	6	11	15	1 2	35 1	13	4	8		7	1	5	32
Amount of vacation pay 1	-		-	,	1	-	-				-		2	1	-	-	-				1	-
After 1 year of service																						
Under 1 week	-	-	-	1	-	-	-	-	-	-	-	1	-	1	-	-	-		-	2	-	-
l week	75	90	62	87	84	82	89	84	96	84	92	82	76	70	88	82	91		54	66	95	21
Over 1 and under 2 weeks	23	10	29	8 3	10	15	7	16	4	16	- 8	10	13	6	8	3 15	7 2		46	5 28	5	19
Over 2 and under 3 weeks	-	-		_	-	-		-	-	-	-	6	4	2	3	-	-		-	2	_	-
weeks	-	-	1 2	-	-	-	-	-	-	-	-	-	-	-	1	-	-		-	2	-	-
Over 3 and under 4 weeks		-	-	-	-	-	-	-	-	-	-	-	-	5	-	-	-		-	-	-	-
After 2 years of service																						
Under 1 week	-	-	-	- 1	-	-	-	-	-	-		( <sup>2</sup> )	-	-	-	-	-		-		-	-
l week	40	71	35	39	25	31	70	73	22	35	17	53	42	36	49	36	73		31	24	77	1
Over 1 and under 2 weeks	15	10	54	32	9	26	5	2	30	-	-	7	30	7	31	12	2		13	6	4	8
2 weeks	45	19	11	29	64	43	22	25	47	65	83	34	23	44	17	52	25		56	66 4	20	91
Over 2 and under 3 weeks		1 [	-	1	1		1					-	-	2	1	2			-	-	1	1
Over 3 and under 4 weeks	-	-	2	-	-	-	-	-	-	-	-	-	-	5	1	-	-		-	3	-	-
After 3 years of service																						
l week	13	8	15	6	6	14	12	7	17	7	( <sup>2</sup> )	6	10	5	25	2	9		-	9	4	_
Over 1 and under 2 weeks	10	6	46	34	2	29	13	2	7	-	-	16	40	23	29	4	-		13	4	-	-
2 weeks	75	86	38	60	87	56	73	90	75	93	99	72	46	52	42	90	91		87	82	96	98
Over 2 and under 3 weeks	1	-		-	4 2	2		-	1		1	7	4	11	3	4	-		-	5	-	2
3 weeks or more	-	-	-	-	2	-			-	-	-		-		1	-	-		-	-	-	2
After 5 years of service																						
week	-	-	2	1	1	4	-	-	1	( <sup>2</sup> )	( <sup>2</sup> )	. 2	3	-		-	-		- 1	4	-	-
Over 1 and under 2 weeks2 weeks	98	81	72	89	78	3 87	87	98	99	94	99	88	7 81	49	82	91	74		62	4 81	98	90
Over 2 and under 3 weeks	( <sup>2</sup> )	10	27	8	11	2	4	90	99	6	99	8	9	28	17	5	26		-	7	90	90
weeks	l 'ı'	10	-	1	8	4	7	-		_		1		13	1	4	-		37	4	2	6
Over 3 and under 4 weeks	-	-	-	-	1	-	-	-	-	-	-	-	-	10	-	-	-		-	-	-	-
After 10 years of service																						
Under 2 weeks	-	-		1	-	1	-	-	1	( <sup>2</sup> )	( <sup>2</sup> )	-	4	-	-	-	-		-	4	-	-
2 weeks	35	9	38	30	27	22	15	51	18	60	47	22	18	6	4	8	28		28	38	40	3
Over 2 and under 3 weeks	6	7	26	23	9	6	11	4	4	6	5.3	14	16	47	10	5	( <sup>2</sup> )		1	3	-	4
3 weeks Over 3 and under 4 weeks	57	74	36	45	62	72	64	45	76	34	52	63	58	32 13	85 1	83	71		71	50 5	60	92
4 weeks	1	10	- E	1	2	-	9					1	-	2	1	4				( <sup>2</sup> )	-	_
	1	10	-	1	2	_	7	1 -		-	-	1	1	-	-	-	-	1	- 1	\ /	_	

See footnotes at end of table.

Table 32. Paid Vacations in 21 Areas: Plant Workers-Continued

(Percent of production workers in machinery manufacturing establishments with formal provisions for paid vacations, September-November 1968)

				North	east					South				North	Central				Wes	t	
Vacation policy	Boston	Buf- falo	Hartford- New Britain- Bristol	Newark and Jersey City	New	Phila- delphia		Worces- ter	Balti- more	Dallas	Hous- ton	Chi- cago	Cleve- land	Detroit	Mil- waukee	Minne- apolis- St. Paul	St. Louis	Den- ver	Los Angeles— Long Beach and Anaheim— Santa Ana— Garden Grove	Port- land	San Fran- cisco- Oaklar
Amount of vacation pay T—Continued																					
After 15 years of service																					
Under 2 weeks2 2 weeks Over 2 and under 3 weeks	8	4	6	1 11	13	1 12 1	3	- 1 3	1 16	(²) 32	(²) 15	13	3 7 2	3 24	2	7	-	6	4 30 1	5	3 4
3 weeks Over 3 and under 4 weeks 4 weeks	78 14 (²)	30 51 15	66 27 (²)	70 16 2	81 2 5	77 8 2	72 12 2	96 - -	76 - 7	68	84	70 3 13	50 24 14	54 7 10	67 10 22	85 3 4	69 19 12	35 15 44	53 9 3	93 - 3	75 - 17
After 20 years of service	-		-	•	-	-	9		-	-	-	-	-	2	(²)	-	-		(2)	-	-
Jnder 2 weeks		- 4		1 11	12	10	3	1	1 16	(²) 32	(²) 12	13	3 6	3	2	7	-	- 6	4 28	5	3
Over 2 and under 3 weeks weeks Over 3 and under 4 weeks		15	57 4	48	63	1 30 5	34	41 2	12	55	22	24	22	23 39 8	8 4	23	30	31	1 48 5	68	56
weeks Over 4 and under 5 weeks	51	64	33	32	23	52 1	44	56	72	12	66	48	56	25 2	69 10	70	70	64	13 (²) (²)	27	25 12
After 25 years of service	1	10	-	1	-	-	9	-	-	-	-	5	2	-	7	-	-		(2)	-	-
Under 2 weeks		- 4	- 6	1 11	12	1 9	3	1	1 16	(²) 32	(²) 12	13	3 6	- 3	- 2	7	:	- 6	4 28	- 5	3
Over 2 and under 3 weeks weeks Over 3 and under 4 weeks	17	11 3	34	34	59 1	1 31 1	8	5	12	53	22	15 2	(2) 18 4	23 36 6	6	21	18	31	1 33 5	68	56 -
weeks Over 4 and under 5 weeks weeks	74	62 5 15	38 22	46 8	28 1	48	74	90	72	15	66 - -	52 8 6	55 5 8	29 1 1	31 11 51	67	82	11 12 41	29 (²)	14 13	25 12
weeks or more	-	-	-	-	-	-	7	-	-	-	-	4	-	-	-		-	-	( <sup>2</sup> )	-	-

<sup>&</sup>lt;sup>1</sup> Vacation payments such as percent of annual earnings were converted to an equivalent time basis. Periods of service were chosen arbitrarily and do not necessarily reflect individual establishment provisions for progression. For example, the changes in proportions indicated at 5 years may include changes which occurred after 4 years.

<sup>2</sup> Less than 0.5 percent.

# Table 33. Paid Vacations in 21 Areas: Office Workers

(Percent of office workers in machinery manufacturing establishments with formal provisions for paid vacations, September-November, 1968)

				Northe	east					South				North	Centra	1			We	est	
Vacation policy	Boston	Buf- falo	Hartford- New Britain- Bristol	Newark and Jersey City		Phila - delphia	Pitts- burgh	Worces- ter	Balti- more	Dallas	Hous- ton	Chi- cago	Cleve- land	Detroit	Mil- waukee	Minne- apolis- St. Paul	St. Louis	Den- ver	Los Angeles— Long Beach and Anaheim— Santa Ana— Garden Grove	Port- land	San Fran- cisco Oaklar
All workers	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Method of payment																					
Workers in establishments				bet of		18.3 H															
providing paid vacations	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Length-of-time payment	100	100	100	100	100	100	100	74	100	100	100	97	100	97	98	98	100	98	100	100	92
Percentage payment	-	-	-	-	-	-	-	26	-	-	-	3	-	2	2	2	-	2	-	-	8
Other	-	-	-	-	-	-	-	-	-	-		-	-	( <sup>2</sup> )	-	-	-	-	-		-
Amount of vacation pay 1																					
After 1 year of service																					
Under 1 week	-	-	-	(2)	-	-	-	-	-	-	-	1	-	-	-	1.54	-			-	
l week	8	60	11	9	23	24	13	5	42	45	54	24	9	19	53	18	38	11	37	76	16
Over 1 and under 2 weeks	-		-		3	1	-	-	-		-		5	4	(2)	1.7			3		2
2 weeks	92	40	72	87	74	74	87	95	58	55	46	72	78	72	47	82	62	89	57	24	82
Over 2 and under 3 weeks	-	-	17	-	(2)	-	-	-	-	-	(-)	3	7	3	-	-	-	-	2	-	-
3 weeks or more	-	-	-	-	(²)	-	-	-	-	-	1-	-	-	1	-		-	-	-	-	-
After 2 years of service																					
Under 1 week	-	-	-	-	-	-	-	-		-	-	(2)	-	-	-	-	-	-	.7	-	-
l week	4	51	3	5	5	12	7	5	15	10	2	9	4	8	4	4 ( <sup>2</sup> )	26	4	16	46	1
Over 1 and under 2 weeks	2	2	-	1	1	7	(2)		1		-	1	1	1	7	95	(2)	2	4	1	
2 weeks	94	47	80	94	87	81	92	95	84	90	98	87	88	87	88	95	74	94	75	53	99
Over 2 and under 3 weeks	-	-	17	-	2	-	-	-	-	-	-	3	7	3	-	-	-	-	5	-	-
3 weeks or more	-	-	-	-	5	-	-	-	-	-		-	-	1	-	7.	-	-	-	-	-
After 3 years of service																					
l week	2	1	3	2	2	10	(2)	1	11	1	(2)	2	2	2	4	(2)	3	-	4	1	-
Over 1 and under 2 weeks	2	1	-	1	-	6	-	-	1	-	-	1	1	1	2	-	-	2	3	-	
2 weeks	96	98	73	91	90	78	99	99	87	99	99	85	84	73	95	98	97	98	88	99	100
Over 2 and under 3 weeks	-	-	24	5	3 5	5	:	-		-	-	13	12	17 6	-	2	(2)	:	6 -	-	
After 5 years of service																					
Under 2 weeks	_	_	(2)	2	1	7	_		1	(2)	(2)	(2)	1	2				,	4		
2 weeks	99	64	76	86	77	85	71	100	99	90	99	84	84	59	94	98	90	43	79	99	98
Over 2 and under 3 weeks	1 '-	18	14	5	9	5	7	-	-	6	-	5	8	5	6	-	10	-	8	-	2
3 weeks	1	17	10	8	11	3	22	-	-	4	-	11	6	31	_	2	_	57	9	1	(2
Over 3 and under 4 weeks	-	-	-	-	2	-	-	-	-	-	-	-	1	3	-	-	-	-	·	-	-
After 10 years of service																					
Under 2 weeks	-	_	(2)	2		1	-	-	1	(2)	(2)	(2)	1	_		_		-	1	_	
2 weeks	33	7	38	18	27	24	9	49	27	35	39	17	20	15	8	4	26	12	34	46	7
Over 2 and under 3 weeks	2	3	8	( <sup>2</sup> )	7	4	68	2	-	6	-	2	5	8	7	-	(2)	1	2	-	-
3 weeks	65	73	44	73	59	71	-	49	72	59	60	70	60	54	85	94	74	87	55	54	90
Over 3 and under 4 weeks	-	-	10	5	-	-	-	-	-	-	-	10	13	16	(2)	2	-	-	6	-	-
4 weeks or more	_	17	-	2	7	-	23	-	-		-	1	1	8				1 2	1	-	3

See footnotes at end of table.

Table 33. Paid Vacations in 21 Areas: Office Workers-Continued

(Percent of office workers in machinery manufacturing establishments with formal provisions for paid vacations, September-November, 1968)

				North	east					South				North	Centra	1			West		
Vacation policy	Boston	Buf- falo	Hartford- New Britain- Bristol	Newark and Jersey City		Phila- delphia		Worces- ter	Balti- more	Dallas	Hous- ton	Chi- cago	Cleve- land	Detroit	Mil- waukee	Minne- apolis- St. Paul	St. Louis	Den- ver	Los Angeles— Long Beach and Anaheim— Santa Ana— Garden Grove	Port- land	San Fran- cisco Oaklan
Amount of vacation pay1—Continued																					
After 15 years of service																					
Under 2 weeks	6	2	(²) 3	2 3	12	1 8	9	1	24	(²) 14	(²) 9	10	1 5	9	1	2		2	1 24	1	7
Over 2 and under 3 weeks	-	10	7.2		-	(2)	-	-	7.	-	-	-		2	7.5	-	(²)	20	2	-	-
3 weeks Over 3 and under 4 weeks	81	18 52	72 18	72 15	78	75 10	51 16	99	76	82	90	68	57	57 3	75 7	70 26	77 10	30	60	90	81
4 weeks	(2)	28	7	9	9	7	10		-	4		20	18	28	16	20	13	63	5	9	12
Over 4 weeks	-	-	-	-	-	-	23		-	-	-	-	-	2	(2)	-	-	-	( <sup>2</sup> )	-	-
After 20 years of service																					
Under 2 weeks		-	(2)	2	_	1	-	-		(2)	(2)	-	1	-	-	-	-	-	1	_	-
2 weeks	6	2	3	3	11	7	9	1	24	14	7	10	5	9	1	2	-	2	23	1	7
Over 2 and under 3 weeks	-	-	-	-	-	(2)	-	-	-	-	-	-	-	2	-	-	(2)	-	(2)	-	-
3 weeks	42	.9	53	21	55	19	13	34	6	52	29	20	21	34	8	17	26	13	55	57	37
Over 3 and under 4 weeks	-	-	8	-	-	9	-	2	-	-	-	2	(2)	(2)	5	26	-	-	5	-	-
4 weeks	52	64	36	72	34	63	55	63	70	33	64	61	62	51	72	55	74	84	17	42	56
Over 4 and under 5 weeks	-	8	-	-	-	1	-	-	-	-	-	3	9	1	5	-	-	-	(2)	-	-
5 weeks or more	-	17	-	2	-	-	23	-	-	-	-	5	1	2	8	-	-	-	(2)	-	-
After 25 years of service																					
Under 2 weeks	-	-	(2)	2	-	1	-	-		(2)	-		1	-	-	-	-	-	1	-	-
2 weeks	6	2	3	3	11	6	7	1	24	14	-	10	5	9	1	2	(2)	2	23	1	-
Over 2 and under 3 weeks	-	-	1.0	,,	1.7	(²)	-	-	-	-	-	1.2	1.5	2	-	,-	(2)	1.0	( )	-	-
3 weeks	19	7	10	14	44	20	3	-	6	52	-	13	17	33	5	17	14	13	40	57	-
Over 3 and under 4 weeks	7.	61	72	79	46	3 55	66	98	69	33	-	56	55	52	43	26 53	86	24	4 31	2.	-
4 weeks	76	8	14	19	46				69	33	-	3	7	52	6	5.5	86	24	31	21	-
Over 4 and under 5 weeks	-	22	14	-	1 -	15	2	2	1	-	-	16	16	1	45	2	-	60	1	21	-
5 weeks Over 5 weeks	1 :		-	2	-	15	22	-	1	-	-	3	10	2	45	2		60	(2)	-	-
Over 5 weeks	-	-	-	-	-	-	22	-	-	-	-	1 3	-	1 4	-	-	-	-	(-)	-	-

<sup>&</sup>lt;sup>1</sup> Vacation payments such as percent of annual earnings were converted to an equivalent time basis. Periods of service were chosen arbitrarily and do not necessarily reflect individual establishment provisions for progression. For example, the changes in proportions indicated at 5 years may include changes which occurred after 4 years.

<sup>2</sup> Less than 0.5 percent.

## Table 34. Health, Insurance, and Retirement Plans in 21 Areas: Plant Workers

(Percent of production workers in machinery manufacturing establishments with specified health, insurance, and retirement plans, 1 September-November 1968)

				Northe	east					South				North	Centra	1			West		
Type of plan	Boston	Buf- falo	Hartford— New Britain— Bristol	Newark and Jersey City		Phila- delphia		Worces- ter	Balti- more	Dallas	Hous- ton	Chi- cago	Cleve- land	Detroit	Mil- waukee	Minne- apolis- St. Paul	St. Louis	Den- ver	Los Angeles— Long Beach and Anaheim— Santa Ana— Garden Grove	Port- land	
All workers	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Workers in establishments providing: Life insurance	99	98	99	94	86	93	98	99	94	98	98	94	0.3	98	98	99	94	95	0.1	0.0	100
													92						91	98	
Employer financed	66	88	73	87	75	88	78	69	27	60	32	68	80	96	90	89	83	85	76	96	
Jointly financed Accidental death and dis-	32	10	27	5	11	5	17	30	67	39	66	27	13	2	8	10	12	10	15	3	6
memberment insurance	87	57	84	68	55	74	54	99	70	78	74	72	73	92	79	67	94	42	83	95	97
Employer financed	59	57	62	67	53	70	46	55	25	39	20	56	66	90	73	55	83	33	71	92	90
Jointly financed	26	-	22	2	2	5	6	44	44	39	54	16	7	2	6	11	11	9	12	3	
Sickness and accident in-					_					- /				_				1 ′		-	1
surance or sick leave																					
or both 2	95	82	93	61	74	87	92	99	95	75	84	90	87	93	96	95	97	93	54	95	86
Sickness and accident																					
insurance	89	82	90	53	42	87	92	99	95	64	78	86	87	93	96	61	90	49	20	88	4
Employer financed	69	73	68	51	40	82	75	68	84	22	19	60	70	91	84	49	80	40	20	85	4
Jointly financed	20	10	22	2	2	5	14	31	11	42	59	25	17	2	12	12	10	9	1	3	
Sick leave (full pay, no		1	100				0.0		1		2.7	100					2.5	1			1
waiting period)	13	-	1	5	56	4	- 1	13	-	11	2	3	3	11	15	38	4	48	40	8	1
Sick leave (partial pay	1 2				1 2						100		(4)	145							1
or waiting period)	7	3	1	4	5	1	-	-	-	-	32	4	(4)	(4)	-	4	7	4	10	7	8
Hospitalization insurance	99	100	99	99	98	98	99	100	90	90	99	99	96	99	100	100	100	95	98	100	100
Employer financed	51	99	69	97	92	89	80	45	83	37	29	70	81	96	86	81	90	77	79	92	98
Jointly financed	47	1	30	2	6	9	19	55	7	54	71	30	15	3	14	19	10	18	19	8	1 1
Surgical insurance	99	100	99	99	97	98	99	100	87	90	99	99	94	99	100	100	98	95	98	100	100
Employer financed	51	99	71	95	88	89	80	45	80	37	29	70	80	96	86	82	87	77	79	92	98
Jointly financed	48	1	28	3	9	9	19	55	7	54	71	30	14	3	14	18	10	18	19	8	
Medical insurance	95	62	94	71	65	86	71	100	77	80	92	97	79	99	99	98	98	95	97	100	100
Employer financed	47	61	66	71	59	79	59	45	70	34	29	68	68	96	84	81	87	77	78	92	98
Jointly financed	48	1	28	2	6	8	12	55	7	46	64	28	12	3	14	18	10	18	19	8	
Catastrophe insurance	93	39	47	41	29	68	26	100	52	70	83	70	33	44	68	47	32	84	87	95	74
Employer financed	40	25	24	37	24	59	22	45	46	22	24	41	26	47	55	32	20	70	71	92	7
Jointly financed	53	14	23	4	5	8	4	55	6	48	60	29	8	2	12	16	12	15	16	3	
Retirement plans 3	82	88	91	69	73	81	91	98	95	70	78	79	80	86	96	64	87	77	55	88	94
Pension plans	80	88	91	64	69	78	91	98	93	70	76	78	76		86						
	71	78	80	61	65	74	91	98	53	59				83		58	87	77	54	78	94
Employer financed			11			74	91				70	74	72	81	81	58	87	77	42	78	88
Jointly financed	9	10	11	4	4		25	3	39	11	6	4	5	2	5		-		12	-	1
Lump-sum payments	11	6	-	5	6	10	25	13	25	11	11	7	14	7	11	15	- 1 -	40	1	28	
No plans	-	-	-	1	2	2	-	-	1	2	(4)	-	-	(4)	_	-	_	1 (4)	2	-	1

Includes only those plans for which the employer pays at least part of the cost and excludes legally required plans such as workmen's compensation and social security. However, plans required by State temporary disability insurance laws are included if the employer contributes more than is required or the employees receive benefits over the legal requirements.

4 Less than 0.5 percent.

Unduplicated total of workers in plants having sick leave or sickness and accident insurance shown separately.
 Unduplicated total of workers in plants having pension plans or lump-sum payments shown separately.

Table 35. Health, Insurance, and Retirement Plans in 21 Areas: Office Workers

(Percent of office workers in machinery manufacturing establishments with specified health, insurance, and retirement plans, 1 September-November 1968)

				Northe	east					South				North	Central				West		
Type of plan	Boston	Buf- falo	Hartford- New Britain- Bristol	Newark and Jersey City	New York	Phila- delphia	Pitts- burgh	Worces- ter	Balti- more	Dallas	Hous- ton	Chi- cago	Cleve- land	Detroit	Mil- waukee	Minne- apolis- St. Paul	St. Louis	Den- ver	Los Angeles— Long Beach and Anaheim— Santa Ana— Garden Grove	Port-	San Fran- cisco- Oaklan
All workers	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Workers in establishments providing:																					
Life insurance	99	99	99	95	91	93	97	100	96	99	98	96	97	97	99	99	92	98	96	99	
Employer financed	62	73	57	79	65	79	75	78	26	37	28	71	80	93	93	69	59	80	69	91	
Jointly financed	37	26	42	16	26	14	22	22	70	62	69	25	17	5	6	31	33	18	27	6	5
Accidental death and dis-		1773																1 7			
memberment insurance	91	41	77	78	51	77	73	100	64	77	74	78	77	90	83	71	82	39	87	91	96
Employer financed	57	32	47	68	41	70	65	55	26	21	12	61	69	85	79	62	58	21	63	90	91
Jointly financed	33	9	31	7	10		8	45	38	56	62	17	7	5	4	9	24	18	24	1	5
Sickness and accident in-	-	1								100								1			
surance or sick leave																					
or both 2	89	91	89	80	75	83	93	100	96	89	95	89	93	95	98	96	73	98	74	92	78
Sickness and accident in-	0,7	7.1	0,	00	13	05	/ / /	100	,0	0,	15	0,	/5	,,,	,,,	,,,	1 ' '	10	, ,	/-	
surance	76	87	50	61	43	80	89	96	64	71	60	72	74	95	90	44	56	33	26	87	3
Employer financed	64	65	35	58	39	73	72	59	53	15	7	51	50	90	83	35	35	15	21	81	3
	12	22	15	2	4	8	17	37	11	55	53	21	24	5	6	9	21	18	5	6	(3)
Jointly financed	12	22	15	2	4	0	11	31	1.1	33	33	21	24	,	0	7	21	10	,	0	( )
Sick leave (full pay, no	57	59	70	46	57	60	57	71	52	41	62	47	55	62	74	72	47	87	66	8	69
waiting period)		59	70			00	51		52	41				1000	14	1.7	47		75	0	
or waiting period)	4	-	-	3	(3	) -	-	-	-	-	23	4	(3)	11	1	(3)	1	3	6	1	6
Hospitalization insurance	98	98	99	98	96		97	100	87	91	99	99	99	99	100	100	96	99	99	100	
Employer fianced	49	94	58	92	89		78	41	76	27	24	73		85	84	59	72	87	70	91	95
Jointly financed	50	5	42	7	7	16	19	59	11	63	75	26	13	14	16	41	24	13	28	9	
Surgical insurance	99	98	99	98	95		97	100	86	91	99	99	98	99	100	100	92	99	99	100	
Employer financed	49	94	61	91	86	81	78	41	75	27	24	73	85	85	84	59	68	87	70	91	95
Jointly financed	50	5	38	7	9		19	59	11	63	75	26	13	14	16	41	24	13	28	9	
Medical insurance	95	53	88	71	74		84	100	78	81	99	97	85	99	99	99	92	99	99	100	
Employer financed	45	48	53	64	65	68	68	41	68	22	24	73	73	84	83	59	68	87	70	91	95
Jointly financed	50	5	35	6	9		16	59	10	59	75	24	12	14	16	41	24	13	28	9	
Catastrophe insurance	97	49	89	67	60	72	59	100	89	81	96	78	36	85	65	70	62	93	93	94	
Employer financed	45	25	35	41	47	55	54	41	45	22	23	48	26	55	38	56	35	82	65	88	
Jointly financed	52	24	53	26	13	17	4	59	44	60	73	30	10	30	27	14	28	11	27	6	
Retirement plans 4	91	92	94	89	75	87	90	99	90	72	87	82	84	83	98	77	93	84	65	85	81
Pension plans	90	92	94	86	73	86	90	99	88	72	86	81	80	82	86	66	93	83	65	65	79
Employer financed	74	71	74	82	65		65	97	30	37	60	77	73	68	78	39	76	83	37	53	
Jointly financed	16	22	21	4	8	5	25	2	58	35	26	4	7	14	9	27	18	-	28	12	
Lump-sum payments	12	-		4	3	12	17	23	(3)	8	8	12	13	(3)	19	28	2	62	(3)	45	
No plans	-		_	2	2	2	2	_	1	1	(3)	1	-	1	1.5		2	_	1	-	_
no pians	1	_	_	-	-	1	_				1 /	1				-	2	1 7		1 -	1

Includes only those plans for which the employer pay at least part of the cost and excludes legally required plans such as workmen's compensation and social security. However, plans required by State temporary disability insurance laws are included if the employer contributes more than is required or the employees receive benefits over the legal requirements.

2 Unduplicated total of workers in plants having sick leave or sickness and accident insurance shown separately.

Less than 0.5 percent.

<sup>4</sup> Unduplicated total of workers in plants having pension plans for lump-sum payments shown separately.

# Appendix A. Scope and Method of Survey

### Scope of Survey

The survey included establishments engaged primarily in manufacturing machinery, except electrical (major group 35 as defined in the 1967 edition of the Standard Industrial Classification Manual, prepared by the U.S. Bureau of the Budget). This major group includes establishments engaged in manufacturing machinery and equipment, other than electrical equipment (major group 36) and transportation equipment (major group 37). Machines powered by built-in or detachable motors ordinarily are included in major group 35, with the exception of electrical household appliances (major group 36). Portable tools, both electric and pneumatic powered, are included in major group 35, but handtools are classified in major group 34. Separate auxiliary units such as central offices of the firms studied were excluded.

The study covered establishments with 20 workers or more at the time of reference of the data used in compiling the universe lists. Also included were establishments which employed 8 to 19 workers and primarily manufactured special dies and tools, die sets, jigs and fixtures, or machine-tool accessories and measuring devices (industries 3544 and 3545).

The number of establishments and workers actually studied by the Bureau, as well as the number estimated to be in the industries during the payroll period studied, is shown in the table on the next page.

### Method of Study

Data were obtained by personal visits of the Bureau's field staff. The survey was conducted on a sample basis. To obtain appropriate accuracy at minimum cost, a greater proportion of large rather than small establishments was studied. In combining the data, however, all establishments were given their appropriate weight. All estimates are presented, therefore, as relating to all establishments in the industry in the selected areas, excluding only those below the minimum size at the time of reference of the universe data.

#### Establishment Definition

An establishment, for purposes of this study, is defined as a single physical location where industrial operations are performed. An establishment is not necessarily identical with the company, which may consist of one or more establishments.

#### Employment

Estimates of the number of workers within scope of the study are intended as a general guide to the size and composition of the labor force included in the survey. The advance planning necessary to make a wage survey requires the use of the lists of establishments assembled considerably in advance of the payroll period studied.

## Production and Office Workers

The term "production workers," as used in this bulletin, includes working foremen and all nonsupervisory workers engaged in nonoffice functions. Administrative, executive, professional, and technical personnel and force-account construction employees, who were utilized as a separate work force on the firm's own properties, were excluded.

The term "office workers," includes all nonsupervisory office workers and excludes administrative, executive, professional, and technical employees.

		establis	ber of hments 2		Workers in est	tablishment	s
Area <sup>1</sup>	Payroll period	Within scope	Charlin I	Wit	hin scope of st	tudy	Studied
		of study	Studied	Total <sup>3</sup>	Production workers	Office workers	Total
Total, 21 areas		6,227	1,044	723,171	505,902	95 <b>,</b> 147	437,745
Northeast:							
Boston	October	209	48	24,354	15,650	3,110	15,002
Buffalo	October	101	23	13,798	8,811	2,618	8,629
Hartford-New Britain-Bristol	November	192	46	27,832	21,124	3,148	21,626
Newark and Jersey City	November	296	53	31,240	22,297	4,371	17,895
New York	September	485	81	31,637	23,013	3,673	15,428
Philadelphia	October	360	60	49,595	34, 268	6,096	31,206
Pittsburgh	November	121	31	16,714	11,741	2,068	12,023
Worcester	October	51	20	9,474	6,500	1,135	8,071
South:					, , , ,	,	,
Baltimore	October	59	21	11,086	8,775	1,140	9,023
Dallas	September	88	27	10,821	8,018	1,306	6,244
Houston	October	128	28	21,201	15,577	2,262	14,324
North Central:					'	-,	,
Chicago	October	939	123	117,626	84,912	16,681	62,471
Cleveland	October	417	76	48, 153	33,665	6,389	30,130
Detroit	October	1,674	104	84,277	62,336	9,810	43,066
Milwaukee	October	245	51	63, 264	42,385	10,629	46,343
Minneapolis-St. Paul	November	222	43	45,527	27, 162	6,462	32,166
St. Louis	November	158	39	19,595	14,118	2,440	13,572
West:					,		1
Denver	October	47	19	9,524	5,938	1,367	7,845
Los Angeles-Long Beach and Anaheim-						•	, , ,
Santa Ana-Garden Grove	October	832	101	68,691	46,465	7,762	30,774
Portland	November	51	18	4,996	3,836	493	3,420
San Francisco-Oakland	September	152	32	13,766	9,311	2,187	8,487

<sup>1</sup> For definition of areas, see footnote 1 in tables 4-24.

## Occupations Selected for Study

Occupational classification was based on a uniform set of job descriptions designed to take account of interestablishment and interarea variations in duties within the same job. (See appendix B for these descriptions.) The occupations were chosen for their numerical importance, their usefulness in collective bargaining, or their representativeness of the entire job scale in the industry. Working supervisors, apprentices, learners, beginners, trainees, and handicapped, part-time, temporary, and probationary workers were not reported in the data for selected occupations.

## Wage Data

Information on wages relates to straight-time hourly earnings, excluding premium pay for overtime and for work on weekends, holidays, and late shifts. Incentive payments, such as those resulting from piecework or production bonus systems and cost-of-living bonuses, were included as part of the worker's regular pay; but nonproduction bonus payments, such as Christmas or yearend bonuses, were excluded.

Average (mean) hourly rates (or earnings) for each occupation were calculated by weighting each rate by the number of workers receiving the rate, totaling, and dividing by the number of individuals. The hourly earnings of salaried workers were obtained by dividing their straight-time salary by normal rather than actual hours.

<sup>&</sup>lt;sup>2</sup> Includes only establishments manufacturing dies and tools, die sets, jigs and fixtures, or machine-tool accessories and measuring devices which employed 8 workers or more, and other machinery establishments with 20 workers or more at the time of reference of the universe data.

<sup>3</sup> Includes executive, professional, and other workers excluded from the separate production and office workers categories.

### Wage Trends

The machinery index series has been developed from data obtained in the Bureau's program of occupational wage surveys in the 21 selected areas studied separately and is based on straight-time hourly earnings of men production workers in the following occupations: Assemblers (classes A, B, and C); electricians, maintenance; inspectors (classes A, B, and C); janitors, porters, and cleaners; laborers, material handling; machine-tool operators, production (classes A, B, and C); machinists, production; tool and die makers (other than jobbing); and welders, hand, class A.

Area indexes reflect changes in average hourly earnings but not changes in the proportion of workers in the separate occupations. For each area, an aggregate of earnings was obtained by weighting the average straight-time hourly earnings for the respective occupations by a set of weights, based on average employments in the occupations in that area for 1964 and 1965. The percent of change was determined by comparing this aggregate with the aggregate for the previous year; the current index was computed by applying this percent of change to the previous index (in this case, 1966) for the area.

The index for all areas combined is constructed so as to minimize the effect of employment changes among the areas studied. The composite index was obtained by following techniques similar to those used to determine area indexes. An aggregate of earnings was obtained by weighting the average straight-time hourly earnings for the selected occupations in the areas by a set of weights, based on average employments in the machinery industries in these areas for the years 1964 and 1965. The percent of change was determined by comparing this aggregate with the aggregate for the previous year, and the current index was computed by applying this percent of change to the previous index (1966) for all areas combined.

From time to time, the index procedure is revised to bring the weighting pattern up to date by changing the set of occupational weights and the area weights. The new indexes are linked to the existing ones to form a continuous series.

## Method of Wage Payment

Tabulations by method of wage payment relate to the number of workers paid under the various time and incentive wage systems. Formal rate structures for timerated workers provide single rates or a range of rates for individual job categories. In the absence of a formal rate structure, pay rates are determined primarily by the qualifications of the individual worker. A single rate structure is one in which the same rate is paid to all experienced workers in the same job classification. apprentices, or probationary workers may be paid according to rate schedules which start below the single rate and permit the workers to achieve the full job rate over a period of time. Individual experienced workers occasionally may be paid above or below the single rate for special reasons, but such payments are exceptions. Range of rate plans are those in which the minimum and/or maximum rates paid experienced workers for the same job are specified. Specific rates of individual workers within the range may be determined by merit, length of service, or a combination of various concepts of merit and length of service. Incentive workers are classified under piecework or bonus plans. Piecework is work for which a predetermined rate is paid for each unit of output. Production bonuses are based on production over a quota or for completion of a task in less than standard time.

#### Scheduled Weekly Hours

Data on weekly hours refer to the predominant work schedule for full-time production (or office) workers employed on the day shift, regardless of sex.

## Shift Provisions and Practices

Shift provisions relate to the policies of establishments either currently operating late shifts or having formal provisions covering late shift work. Practices relate to workers employed on late shifts at the time of the survey.

Supplementary benefits were treated statistically on the basis that if formal provisions were applicable to half or more of the production workers (or office workers) in an establishment, the benefits were considered applicable to all such workers. Similarly, if fewer than half of the workers were covered, the benefit was considered nonexistent in the establishment. Because of length-of-service and other eligibility requirements, the proportion of workers receiving the benefits may be smaller than estimated.

Paid Holidays. Paid holiday provisions relate to full-day and half-day holidays provided annually.

Paid Vacations. The summaries of vacation plans are limited to formal arrangements, excluding informal plans, whereby time off with pay is granted at the discretion of the employer or supervisor. Payments not on a time basis were converted; for example, a payment of 2 percent of annual earnings was considered the equivalent of 1 week's pay. The periods of service for which data are presented represent the most common practices, but they do not necessarily reflect individual establishment provisions for progression. For example, the changes in proportions indicated at 10 years of service may include changes which occurred between 5 and 10 years.

Health, Insurance, and Retirement Plans. Data are presented for health, insurance, pension, and lump-sum retirement plans for which all or part of the cost is borne by the employer, excluding programs required by law, such as workmen's compensation and social security. Among the plans included are those underwritten by a commercial insurance company, and those paid directly by the employer from his current operating funds or from a fund set aside for this purpose.

Death benefits are included as a form of life insurance. Sickness and accident insurance is limited to that type of insurance under which predetermined cash payments are made directly to the insured on a weekly or monthly basis during illness or accident disability. Information is presented for all such plans to which the employer contributes at least a part of the cost. However, in New York and New Jersey, where temporary disability insurance laws require employer contributions, <sup>1</sup> plans are included only if the employer (1) contributes more than is legally required or (2) provides the employees with benefits which exceed the requirements of the law.

Tabulations of paid sick leave plans are limited to formal plans which provide full pay or a proportion of the worker's pay during absence from work because of illness; informal arrangements have been omitted. Separate tabulations are provided according to (1) plans which provide full pay and no waiting period, and (2) plans providing either partial pay or a waiting period.

Medical insurance refers to plans providing for complete or partial payment of doctors' fees. These plans may be underwritten by a commercial insurance company or a nonprofit organization, or they may be a form of self-insurance.

Catastrophe insurance, sometimes referred to as extended medical insurance, includes the plans designed to cover employees for sickness or injury involving an expense which exceeds the normal coverage of hospitalization, medical, and surgical plans.

Tabulations of retirement pensions are limited to plans which provide regular payments for the remainder of the retiree's life. Data are presented separately for lump-sum retirement pay (one payment or several over a specified period of time) made to employees on retirement. Establishments providing both lump-sum retirement pay and retirement pensions to employees were considered as having both retirement pension and lump-sum retirement plans. Establishments having optional plans providing employees a choice of either lump-sum retirement pay or pensions were considered as having only retirement pension benefits.

<sup>&</sup>lt;sup>1</sup> The temporary disability insurance laws in California and Rhode Island do not require employer contributions.

## Appendix B. Occupational Descriptions

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

#### ASSEMBLER

(Bench assembler; floor assembler; jig assembler; line assembler; subassembler)

Assembles and/or fits together parts to form complete units or subassemblies at a bench, conveyor line, or on the floor, depending on the size of the units and the organization of the production process. Work may include processing operations requiring the use of handtools in scraping, chipping, and filing of parts to obtain a desired fit as well as power tools and special equipment when punching, riveting, soldering, or welding of parts is necessary. Workers who perform any of these processing operations exclusively as part of specialized assembling operations are excluded.

Class A. Assembles parts into complete units or subassemblies that require fitting of parts and decisions regarding proper performance of any component part or the assembled unit. Work involves any combination of the following: Assembling from drawings, blueprints, or other written specifications; assembling units composed of a variety of parts and/or subassemblies; assembling large units requiring careful fitting and adjusting of parts to obtain specified clearances; and using a variety of hand and powered tools, and precision measuring instruments.

Class B. Assembles parts into units or subassemblies in accordance with standard and prescribed procedures. Work involves any combination of the following: Assembling a limited range of standard and familiar products composed of a number of small- or medium-size parts requiring some fitting or adjusting; assembling large units that require little or no fitting of component parts; working under conditions where accurate performance and completion of work within set time limits are essential for subsequent assembling operations; and using a limited variety of hand or powered tools.

<u>Class C.</u> Performs short-cycle repetitive assembling operations. Work does not involve any fitting or making decisions regarding proper performance of the component parts or assembling procedures.

### AUTOMATIC-LATHE OPERATOR

(Automatic-between-centers-lathe operator; automatic-chucking-machine operator; automatic-turret-lathe operator)

Operates one or more lathes equipped with automatic feed mechanisms for actuating the cutting tools over the complete work cycle. Automatic lathes may differ as to type of construction (horizontal or vertical); number of spindles (single or multiple); method of feed (hand-feed, automatic-chucking, or hopper-feed); method of holding the work (in chucks or between centers); and method of presenting the tools to the stock in sequence (turrets, slides, revolving work stations). (For description of class of work see machine-tool operator, production.)

#### CARPENTER, MAINTENANCE

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

#### DRILL-PRESS OPERATOR, RADIAL

Operates one or more types of radial-drilling machines designed primarily for the purpose of drilling, reaming, countersinking, counterboring, spot-facing, or tapping holes in large heavy metal parts. Several types of radial drills are in use, the most common type being designed so that the tool head and saddle are movable along a projecting arm which can be rotated about a vertical column and adjusted vertically on that column. (For description of class of work see machine-tool operator, production.)

#### DRILL-PRESS OPERATOR, SINGLE- OR MULTIPLE-SPINDLE

Operates one or more types of single- or multiple-spindle drill-presses, to perform such operations as drilling, reaming, countersinking, counterboring, spot-facing, and tapping. Drill-press operators, radial, and operators of portable drilling equipment are excluded. (For description of class of work see machine-tool operator, production.)

#### ELECTRICIAN, MAINTENANCE

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, layout, 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.

#### ENGINE-LATHE OPERATOR

Operates an engine lathe for shaping external and internal cylindrical surfaces of metal objects. The engine lathe, basically characterized by a headstock, tailstock, and power-fed tool carriage, is a general-purpose machine tool used primarily for turning. It is also commonly used in performing such operations as facing, boring, drilling and threading, and equipped with appropriate attachments, may be used for a very wide variety of special machining operations. The stock may be held in position by the lathe "centers" or by various types of chucks and fixtures. Bench-lathe operators, automatic-lathe operators, screwmachine operators, automatic, and turret-lathe operators, hand (including hand screw machine) are excluded. (For description of class of work see machine-tool operator, production.)

#### GRINDING-MACHINE OPERATOR

(Centerless-grinder operator; cylindrical-grinder operator; external-grinder operator; internal-grinder operator; surface-grinder operator; Universal-grinder operator)

Operates one of several types of precision grinding machines to grind internal and external surfaces of metal parts to a smooth and even finish and to required dimensions. Precision grinding is used primarily as a finishing operation on previously machined parts, and consists of applying abrasive wheels rotating at high speed to the surfaces to be ground.

## GRINDING-MACHINE OPERATOR—Continued

In addition to the types of grinding machines indicated above, this classification includes operators of other production grinding machines, such as single-purpose grinders (drill-grinders, broach grinders, saw grinders, gearcutter grinders, thread grinders, etc.) and automatic and semiautomatic general purpose grinding machines. Operators of portable grinders are excluded. (For description of class of work see machine-tool operator, production.)

#### INSPECTOR

Inspects parts, products, and/or processes of the establishment. Performs such operations as examining parts of products for flaws and defects, checking their dimensions and appearance to determine whether they meet the required standards and specifications. Does not include inspectors in toolrooms or inspectors of purchased parts.

<u>Class A.</u> Responsible for decisions regarding the quality of the product and/or operations. Work involves <u>any combination of the following</u>: Thorough knowledge of the processing operations in the branch of work to which he is assigned, including the use of a variety of precision measuring instruments; interpreting drawings and specifications in inspection work on units composed of a large number of component parts; examining a variety of products or processing operations; determining causes of flaws in products and/or processes and suggesting necessary changes to correct work methods; and devising inspection procedures for new products.

Class B. Work involves any combination of the following: Knowledge of processing operations in the branch of work to which he is assigned, limited to familiar products and processes or where performance is dependent on past experience; performing inspection operations on products and/or processes having rigid specifications, but where the inspection procedures involve a sequence of inspection operations, including decisions regarding proper fit or performance of some parts; and using precision measuring instruments.

<u>Class C.</u> Work involves <u>any combination of the following:</u> Short-cycle repetitive inspection operations; using a standardized, special-purpose measuring instrument repetitively; and visual examination of parts or products, rejecting units having obvious deformities or flaws.

#### JANITOR, PORTER, OR CLEANER

(Sweeper; charwoman; janitress)

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.

#### LABORER, MATERIAL HANDLING

(Loader and unloader; handler and stacker; shelver; trucker; stockman or stock helper; warehouseman or warehouse helper)

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. Longshoremen, who load and unload ships are excluded.

#### MACHINE-TOOL OPERATOR (MISCELLANEOUS)

Includes certain specialists operators, as well as all operators who are required alternately to operate more than one type of machine tool (for definition of machine tool see machine-tool operator, production). For wage study purposes, specialists operators are limited to those on boring machines, gear cutter, gear finisher, planer, shaper, or metal-cutting type machine tools not specially listed in the general definition of machine-tool operator, production. (For description of class of work see machine-tool operator, production.)

#### MACHINE-TOOL OPERATOR, PRODUCTION

Operates or tends one or more nonportable, power-driven machine tools (including numerically controlled machine tools) in order to shape metal by progressively removing portions of the stock in the form of chips or shavings, or by abrasion, such as:

Automatic lathes
Boring machines
Drill presses, radial
Drill presses, single- or multiple-spindle
Engine lathes
Gear-cutting machines
Gear-finishing machines
Grinding machines

Machine tools, miscellaneous <sup>2</sup> Milling machine
Planers
Screw machines, automatic
Screw machines, hand
Shapers
Turret lathes, automatic
Turret lathes, hand

- <u>Class A.</u> Sets up machines, by determining proper feeds, speeds, tooling and operation sequence or by selecting those prescribed in drawings, blueprints, or layouts; and makes necessary adjustments during operations where changes in work and setup are relatively frequent, and where care is essential to achieve requisite dimensions of very close tolerances.
- <u>Class B.</u> Sets up machines on standard or roughing operations where feeds, speeds, tooling and operation sequence are prescribed or maintains operation setup made by others; and makes all necessary adjustments during operation where care is essential to acheive very close tolerances or where changes in product are relatively frequent.
- <u>Class C.</u> Operates machine on routine and repetitive operations; makes only minor adjustments during operations; and when trouble occurs stops machine and calls foreman, leadman, or setup man to correct the operation.

#### MACHINE-TOOL OPERATOR, TOOLROOM

Specializes in the operation of one or more types of machine tools such as jig borers, cylindrical or surface grinders, engine lathes, or milling machines in the construction of machine-shop tools, gages, jigs, fixtures, or dies. Work involves most of the following: Planning and performing difficult machining operations; processing items requiring complicated setups or a high degree of accuracy; using a variety of precision measuring instruments; selecting feeds, speeds, tooling and operation sequence; and making necessary adjustments during operation to achieve requisite tolerances or dimensions. May be required to recognize when tools need dressing, to dress tools, and to select proper coolants and cutting and lubricating oils.

For wage survey purposes, workers are classified according to the number of types of machine tools they normally are required to operate, as follows:

Operates only one type of machine tool. Operates more than one type of machine tool.

<sup>&</sup>lt;sup>2</sup> Includes operators of machine tools not specifically listed above but within the general definition of operators of machine tools of the metal-cutting type, as well as operators required alternately to operate more than one type of machine tool.

#### MACHINIST, MAINTENANCE

Produces replacement parts and new parts in making repairs of metal parts in 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 his work; 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.

#### MACHINIST, PRODUCTION

Fabricates metal parts involving a series of progressive operations. Work involves most of the following: Interpreting written instructions and specifications; planning and laying out work; using a variety of machinist's handtools and precision measuring instruments; setting up and operating standard machine tools; shaping 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 needed for his work; fitting and assembling parts. 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.

## MECHANIC, MAINTENANCE

Repairs machinery or mechanical equipment of an establishment. Work involves most of the following: Examining machines and mechanical equipment to diagnose source of trouble; dismantling or partly dismantling machines and performing repairs that mainly involve the use of handtools in scraping and fitting parts; replacing broken or defective parts with items obtained from stock; ordering the production of a replacement part by a machine shop or sending of the machine to a machine shop for major repairs; preparing written specifications for major repairs or for the production of parts ordered from machine shop; reassembling machines; and making all necessary adjustments for operation. In general, the work of a 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.

#### MILLING-MACHINE OPERATOR

(Milling-machine operator, automatic; milling-machine operator, hand)

Performs a variety of work such as grooving, planning, and shaping metal objects on a milling machine, which removes material from metal surfaces by the cutting action of multitoothed rotating cutters of various sizes and shapes. Milling-machine types vary from the manually controlled machines employed in unit production to fully automatic (conveyor-fed) machines found in plants engaged in mass production. For wage study purposes, operators of single-purpose millers such as thread millers, duplicators, diesinkers, pantograph millers and engraving millers are excluded. (For description of class of work see machine-tool operator, production.)

#### POLISHER AND BUFFER, METAL

Polishes various metal objects in order to produce a smooth surface or a high luster by holding against rapidly rotating wheels made of materials such as muslin, paper, leather, sheepskin, felt, and/or block-wheels made of wood, and/or straps and belts made of canvas, leather, rubber, etc., and/or reflexible shafts and disc wheels. Work involves any combination of the following: The attainment of a smooth surface and the removal of flaws and machine marks on a variety of objects involving the maintenance of contours, radii, and uniformity of shape; polishing to close tolerances; selection of proper wheels, shafts, belts, abrasives, and polishing compounds; setting up the equipment and maintaining of wheels. In general, polishers and buffers included in this classification are required to perform operations which involve a rounded knowledge of the trade such as is usually acquired through a formal apprenticeship or equivalent training and experience.

#### POLISHING- AND BUFFING-MACHINE OPERATOR

Polishes metal objects to produce a smooth surface and/or high luster by holding against rapidly rotating wheels, belts or straps on a machine set up to achieve a specialized phase of polishing on a repetitive basis. Work involves one of the following: Setting up and operating machine where wheels and abrasives and polishing compounds are prescribed; polishing involving the maintenance of contours, radii, and uniformity of shape on machines set up by others; selection of polishing compounds and abrasives on machines set up by others.

#### PUNCH-PRESS OPERATOR

Feeds and operates a power press equipped with special production dies that perform one or a combination of cutting and shaping operations on the stock. Individual pieces of stock or partly fabricated units may be positioned in the machine by the operator, or the machine may be equipped with a feeding device that automatically positions single pieces of stock or repetitively positions strip or sheet stock for successive operations.

Punch presses are commonly designated by functional names derived from the operation they perform, such as blanking press or forming press; by names descriptive of the frame, such as arch press; or by names that indicate how the power is transmitted, such as crank press or toggle press.

Class A. Work involves any combination of the following: Difficult positioning of work units because of size or shape, or type of operation to be performed; processing unusually large work that is positioned in the press with the aid of other workers; processing work units that must be steadied while operations are being performed; deep drawing or forming operations requiring careful positioning of work and prompt recognition of faulty operation; short-run work requiring ability to perform a variety of punch-press operations or to operate several types of presses; examining output and making adjustments as necessary to maintain production within standards; setting, alining and adjusting dies and fixtures in the press.

Class B. Required mainly to feed, control, and examine operation of the press, and when trouble occurs to call on foreman, leadman, or die maker to correct the situation. Work involves one or more of the following: Performing single operations, such as punching, blanking, or piercing on small or medium size stock easily positioned by hand; feeding small units into the press from a feed race or chute; loading and tending a press equipped with a feeding device for handling a strip or sheet stock, or a dial drum, magazine, or hopper feed for handling individual stock blanks.

#### SCREW-MACHINE OPERATOR, AUTOMATIC

Operates one or more multiple- or single-spindle automatic screw machines. Automatic screw machines are production turning machines with automatic-feed cycle designed to produce parts from bar or tube stock fed automatically through spindles or the head stock. These machines, equipped with from 1 to 8 spindles or a turret, automatically perform and repeat a cycle of operations on each length of stock fed into the machine. (For description of class of work, see machine-tool operator, production.)

#### SETUP MAN, MACHINE TOOLS

Sets up machine tools so that metal-fabricating operations can be maintained by operators of these machines. Work involves most of the following: Working from drawings, blueprints, job lay-outs, or other written specifications; determining feeds, speeds, tooling and operation sequence; installing cutting tools and adjusting guides, stops, working tables, and other controls to handle the size of stock to be machined; operating and adjusting machines until parts produced conform with specifications; and, after turning over machines to regular operators, making necessary adjustments to setups during course of operation to maintain accurate production.

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#### TOOL AND DIE MAKER

(Die maker; mold maker; jig maker; tool maker; fixture maker; gage maker)

Constructs and repairs machine-shop tools, gages, jigs, fixtures or dies for forgings, punching and other metal or plastics-forming work. Work involves most of the following: Planning and laying out of work from models, blueprints, drawings, or other oral and written specifications; using a variety of tool and die maker's handtools and precision measuring instruments; understanding of the working properties of common metals and alloys; setting up and operating of machine tools and related equipment; making necessary shop computations relating to dimensions of work, speeds, feeds, and tooling of machines; heattreating of metal parts during fabrication as well as of finished tools and dies to achieve required qualities; working to close tolerances; fitting and assembling of parts to prescribed tolerances and allowances; selecting appropriate materials, tools, and processes. In general, the tool and die maker's work requires a rounded training in machine shop and toolroom practice usually acquired through a formal apprenticeship or equivalent training and experience. Excludes die sinkers.

For wage study purposes, tool and die makers are classified as follows:

Tool and die makers (jobbing). Workers making dies and tools, die sets, jigs and fixtures, etc., as the end product of the establishment.

Tool and die makers (other than jobbing). Workers making and/or maintaining dies and tools, die sets, jigs and fixtures, etc., for use within the establishment.

#### TOOL CLERK

(Stores clerk; tool checker; tool crib attendant; tool handler; tool keeper; toolman)

Receives, stores, and issues handtools, machine tools, dies, and equipment, such as measuring devices and materials, in industrial establishments. Work consists of most of the following: Keeps records of loaned tools; searches for lost or misplaced tools; prepares periodic inventory and requisitions stock as needed; unpacks and stores new equipment; and reports damaged and worn-out equipment to superiors. May carry tools or move them on trucks to workers, and may make minor tool repairs.

## TURRET-LATHE OPERATOR, HAND (INCLUDING HAND SCREW MACHINE)

Operates a lathe equipped with a turret used to present a number of cutting tools, required for a cycle of machining operations, to the work in sequence. Operations commonly performed on a turret lathe include turning, facing, boring, drilling, and threading. The 'perator rotates or indexes the turret to bring the tools toward the work for each operation. Individual workpieces, such as forgings and castings, are held in a chuck or the lathe may be equipped with a bar stock feeding device to present the correct length of stock to the tools at the beginning of each cycle of operations. (For description of class of work, see machine-tool operator, production.)

#### WELDER, HAND

Fuses (welds) metal objects by means of an oxyacetylene torch or arc welding apparatus in the fabrication of metal shapes and in repairing broken or cracked metal objects. In addition to performing hand welding or brazing operation, the welder may also lay out guide lines or marks on metal parts and may cut metal with cutting torch.

<u>Class A.</u> Performs welding operations requiring <u>most of the following</u>: Planning and <u>laying</u> out of work from drawings, blueprints, or other written specifications; knowledge of welding properties of a variety of metals and alloys, setting up work and determining operation sequence; welding high pressure vessels or other objects involving critical safety and load requirements; and working from a variety of positions.

<u>Class B.</u> Performs welding operations on repetitive work, where no critical safety and load requirements are involved; where the work calls mainly for one-position welding; and where the layout and planning of the work are performed by others.

#### WELDER, MACHINE

(Butt welder; flash welder; seam welder; spot welder)

Operates one or more types of resistance welding apparatus to weld (bond) together metal objects such as bars, pipes, and plates. Resistance welding is a process wherein an electric current is passed through the parts to be welded at the point of contact, and mechanical pressure is applied forcing the contact surfaces together at the points to be joined. Welding machines are generally designed according to type of weld performed and arrangement of welding surfaces of parts to be joined. Welds may be made on overlapping units in the form of one spot or more (spot welding) or lineally by using a rolling electrode (seam welding). Machine welding of units where the edges are brought together without lapping is referred to as butt welding.

<u>Class A.</u> Work involves <u>most of the following</u>: Working from layout or other specifications; knowledge of welding properties of a variety of metals and alloys; selecting and setting up work-holding fixtures and electrodes; determination of proper pressures, temperatures, timing, and flow of current; determination of number and spacing of welds; positioning and welding units with or without fixtures; and using such handtools as hammers, pliers, files, and wrenches.

<u>Class B.</u> Work involves: Performing repetitive welding operations on standard units where current settings and electrodes are prescribed or set by others; and using fixtures for positioning work or positioning by hand small parts requiring simple welding operations.

## Industry Wage Studies

The most recent reports for industries included in the Bureau's program of industry wage surveys since January 1950 are listed below. Those for which a price is shown are available from the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C., 20402, or any of its regional sales offices. Those for which a price is not shown may be obtained free as long as a supply is available, from the Bureau of Labor Statistics, Washington, D.C., 20212, or from any of the regional offices shown on the inside back cover.

#### I. Occupational Wage Studies

### Manufacturing

Basic Iron and Steel, 1967. BLS Bulletin 1602 (55 cents).
Candy and Other Confectionery Products, 1965. BLS Bulletin 1520 (30 cents).
\*Canning and Freezing, 1957. BLS Report 136.
Cigar Manufacturing, 1967. BLS Bulletin 1581 (25 cents).
Cigarette Manufacturing, 1965. BLS Bulletin 1472 (20 cents).
Cotton and Man-Made Fiber Textiles, 1968. BLS Bulletin 1637 (\$1).
Distilled Liquors, 1952. Series 2, No. 88.

Fabricated Structural Steel, 1964. BLS Bulletin 1463 (30 cents). Fertilizer Manufacturing, 1966. BLS Bulletin 1531 (30 cents). Flour and Other Grain Mill Products, 1967. BLS Bulletin 1576 (25 cents). Fluid Milk Industry, 1964. BLS Bulletin 1464 (30 cents). Footwear, 1968. BLS Bulletin 1634 (75 cents). Hosiery, 1967. BLS Bulletin 1562 (70 cents).

Industrial Chemicals, 1965. BLS Bulletin 1529 (40 cents).
Iron and Steel Foundries, 1967. BLS Bulletin 1626 (\$1).
Leather Tanning and Finishing, 1968. BLS Bulletin 1618 (55 cents).
Machinery Manufacturing, 1966. BLS Bulletin 1563 (70 cents).
Meat Products, 1963. BLS Bulletin 1415 (75 cents).
Men's and Boys' Shirts (Except Work Shirts) and Nightwear, 1968. BLS Bulletin 1659 (65 cents).
Men's and Boys' Suits and Coats, 1967. BLS Bulletin 1594 (75 cents).
Miscellaneous Plastics Products, 1964. BLS Bulletin 1439 (35 cents).
Miscellaneous Textiles, 1953. BLS Report 56.
Motor Vehicles and Motor Vehicle Parts, 1963. BLS Bulletin 1393 (45 cents).

Nonferrous Foundries, 1965. BLS Bulletin 1498 (40 cents).
Paints and Varnishes, 1965. BLS Bulletin 1524 (40 cents).
Paperboard Containers and Boxes, 1964. BLS Bulletin 1478 (70 cents).
Petroleum Refining, 1965. BLS Bulletin 1526 (30 cents).
Pressed or Blown Glass and Glassware, 1964. BLS Bulletin 1424 (30 cents).
\*Processed Waste, 1957. BLS Report 124.
Pulp, Paper, and Paperboard Mills, 1967. BLS Bulletin 1608 (60 cents).
Radio, Television, and Related Products, 1951. Series 2, No. 84.
Railroad Cars, 1952. Series 2, No. 86.
\*Raw Sugar, 1957. BLS Report 136.

Southern Sawmills and Planing Mills, 1965. BLS Bulletin 1519 (30 cents). Structural Clay Products, 1964. BLS Bulletin 1459 (45 cents). Synthetic Fibers, 1966. BLS Bulletin 1540 (30 cents). Textile Dyeing and Finishing, 1965—66. BLS Bulletin 1527 (45 cents). \*Tobacco Stemming and Redrying, 1957. BLS Report 136.

<sup>\*</sup> Studies of the effects of the \$1 minimum wage.

#### I. Occupational Wage Studies-Continued

### Manufacturing-Continued

West Coast Sawmilling, 1964. BLS Bulletin 1455 (30 cents).
Women's and Misses' Coats and Suits, 1965. BLS Bulletin 1508 (25 cents).
Women's and Misses' Dresses, 1968. BLS Bulletin 1649 (45 cents).
Wood Household Furniture, Except Upholstered, 1965. BLS Bulletin 1496 (40 cents).
\*Wooden Containers, 1957. BLS Report 126.
Wool Textiles, 1966. BLS Bulletin 1551 (45 cents).
Work Clothing, 1968. BLS Bulletin 1624 (50 cents).

#### Nonmanufacturing

Auto Dealer Repair Shops, 1964. BLS Bulletin 1452 (30 cents).
Banking, 1964. BLS Bulletin 1466 (30 cents).
Bituminous Coal Mining, 1967. BLS Bulletin 1583 (50 cents).
Communications, 1967. BLS Bulletin 1615 (30 cents).
Contract Cleaning Services, 1968. BLS Bulletin 1644 (55 cents).
Crude Petroleum and Natural Gas Production, 1967. BLS Bulletin 1566 (30 cents).
Department and Women's Ready-to-Wear Stores, 1950. Series 2, No. 78.
Eating and Drinking Places, 1966-67. BLS Bulletin 1588 (40 cents).
Electric and Gas Utilities, 1967. BLS Bulletin 1614 (70 cents).
Hospitals, 1966. BLS Bulletin 1553 (70 cents).
Hotels and Motels, 1966-67. BLS Bulletin 1587 (40 cents).
Laundry and Cleaning Services, 1968. BLS Bulletin 1645 (75 cents).
Life Insurance, 1966. BLS Bulletin 1569 (30 cents).
Motion Picture Theaters, 1966. BLS Bulletin 1542 (35 cents).
Nursing Homes and Related Facilities, 1967-68. BLS Bulletin 1638 (75 cents).

#### II. Other Industry Wage Studies

Factory Workers' Earnings—Distribution by Straight-Time Hourly Earnings, 1958. BLS Bulletin 1252 (40 cents).
Factory Workers' Earnings—Selected Manufacturing Industries, 1959.
BLS Bulletin 1275 (35 cents).

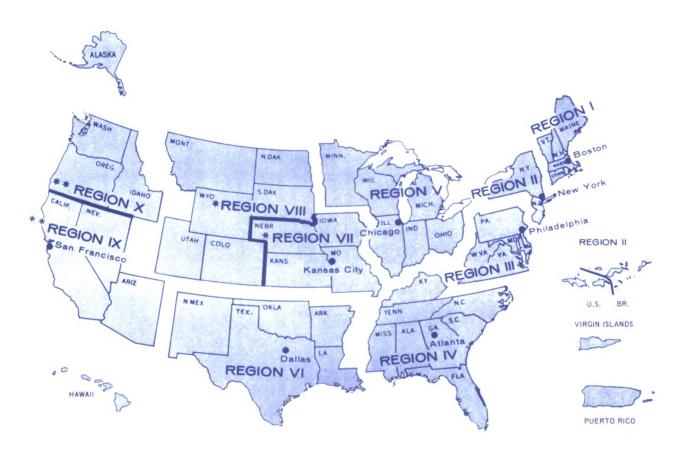
Employee Earnings and Hours in Nonmetropolitan Areas of the South and North Central Regions, 1965. BLS Bulletin 1552 (50 cents). Employee Earnings and Hours in Eight Metropolitan Areas of the South, 1965. BLS Bulletin 1533 (40 cents).

Employee Earnings and Hours in Retail Trade, June 1966—
Retail Trade (Overall Summary). BLS Bulletin 1584 (\$1).
Building Materials, Hardware, and Farm Equipment Dealers. BLS Bulletin 1584-1 (30 cents).
General Merchandise Stores. BLS Bulletin 1584-2 (55 cents).
Food Stores. BLS Bulletin 1584-3 (60 cents)
Automotive Dealers and Gasoline Service Stations. BLS Bulletin 1584-4 (50 cents).
Apparel and Accessory Stores. BLS Bulletin 1584-5 (55 cents).
Furniture, Home Furnishings, and Household Appliance Stores. BLS Bulletin 1584-6 (50 cents).
Miscellaneous Retail Stores. BLS Bulletin 1584-7 (65 cents).

\* Studies of the effects of the \$1 minimum wage.

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<sup>\*</sup> Regions VII and VIII will be serviced by Kansas City.

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