

L 2.3:
1929

Industry Wage Survey: Machinery Manufacturing, Winter 1974-75



U.S. Department of Labor
Bureau of Labor Statistics
1977

Bulletin 1929

DOCUMENT COLLECTION

FEB 15 1977

Dayton & Montgomery Co.
Public Library

FEB 7 '77



Industry Wage Survey: Machinery Manufacturing, Winter 1974-75

U.S. Department of Labor
W. J. Usery, Jr., Secretary
Bureau of Labor Statistics
Julius Shiskin, Commissioner
1977

Bulletin 1929



For sale by the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402, GPO Bookstores, or

BLS Regional Offices listed on inside back cover. Price \$1.65

Make checks payable to Superintendent of Documents.

Stock Number 029-001-01974-2

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 the winter of 1974-75.

Separate releases were issued earlier for the 23 metropolitan areas covered by the survey. Copies are available from the Bureau of Labor Statistics, Washington, D.C. 20212, or any of its regional offices.

Data on occupational earnings and establishment practices and supplementary wage provisions are presented for the machinery industries as a whole by area. Separate information on occupational pay—including averages and distributions—also is presented for selected industries (e.g., special dies and tools, die sets, jigs and fixtures, machine-tool accessories; oil-field machinery) in 11 areas.

This study was conducted in the Bureau's Office of Wages and Industrial Relations. Sandra King of the Division of Occupational Wage Structures prepared the analysis. Field work for the survey was directed by the Bureau's Assistant Regional Commissioners for Labor Statistics.

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

Material in this publication is in the public domain and may be reproduced without permission of the Federal Government. Please credit the Bureau of Labor Statistics and cite the name and number of the publication.

Contents

	Page
Summary	1
Industry characteristics	1
Products	1
Employment	1
Processes	2
Unionization	2
Method of wage payment	3
Women workers	3
Trends in earnings	3
Occupational earnings	4
Establishment practices and supplementary wage provisions	6
Shift differential provisions and practices	6
Scheduled weekly hours	6
Paid holidays	6
Paid vacations	6
Health, insurance, and retirement plans	6
Apprenticeship and training programs	6
Text tables:	
1. Percent of production workers in machinery plants by primary product, winter 1974-75	1
2. Workers in machinery plants with collective bargaining agreements covering a majority of their production workers, winter 1974-75	2
3. Percent increases in average hourly earnings of production workers in machinery plants in selected areas and occupations, and indexes of average hourly earnings	3
4. Averages for material handling laborers and for tool and die makers (other than jobbing) in machinery plants as a percent of all manufacturing averages in the BLS area wage surveys, 18 areas	4
5. Relative pay levels, machinery plants, 23 areas, winter 1974-75	5
6. Occupational averages by method of wage payment, selected occupations and areas, winter 1974-75	5
7. Earnings distribution of class A inspectors and class C assemblers, Cleveland, winter 1974-75	6
8. Percent of production workers in establishments with formal apprenticeship or training programs, winter 1974-75.	7
Reference tables:	
Occupational earnings:	
1. Atlanta, Ga	8
2. Baltimore, Md.	9
3. Boston, Mass	11
4. Buffalo, N.Y.	14
5. Chicago, Ill.	16
6. Cleveland, Ohio.	19
7. Dallas-Ft. Worth, Tex.	22
8. Denver-Boulder, Colo.	24
9. Detroit, Mich	25
10. Hartford-New Britain-Bristol, Conn.	27
11. Houston, Tex	30
12. Los Angeles-Long Beach and Anaheim-Santa Ana-Garden Grove, Calif.	32
13. Milwaukee, Wis.	34
14. Minneapolis-St. Paul, Minn.-Wis	37

Contents—Continued

	<i>Page</i>
15. Newark-Jersey City, N.J.	39
16. New York, N.Y.-N.J.	41
17. Philadelphia, Pa.-N.J.	43
18. Pittsburgh, Pa.	46
19. Portland, Oreg.-Wash.	48
20. St. Louis, Mo.-Ill.	49
21. San Francisco-Oakland, Calif.	51
22. Tulsa, Okla.	53
23. Worcester, Mass.	54
Occupational averages:	
24. In 11 areas: By selected industries	56
Establishment practices and supplementary wage provisions:	
25. Method of wage payment: Production workers	58
26. Shift differential provisions: Production workers	59
27. Shift differential practices: Production workers.	62
28. Scheduled weekly hours: Production workers	64
29. Scheduled weekly hours: Office workers	65
30. Paid holidays: Production workers	66
31. Paid holidays: Office workers	67
32. Paid vacations: Production workers.	68
33. Paid vacations: Office workers	72
34. Health, insurance, and retirement plans: Production workers	76
35. Health, insurance, and retirement plans: Office workers	79
Appendixes:	
A. Scope and method of survey	80
B. Occupational descriptions	84

Machinery Manufacturing, Winter 1974-75

Summary

Occupational hourly pay levels in the nonelectrical machinery manufacturing industries increased 17 percent between February 1973 and the winter of 1974-75 in the 21 machinery centers surveyed regularly by the Bureau for two decades.¹ Average annual rates of increase ranged from about 6.4 percent in Boston to 11.5 percent in San Francisco-Oakland. Between the winter of 1970-71 and February 1973, industry pay levels rose 13 percent in the 21 geographical areas.

Among the occupations studied separately in 1974-75,² tool and diemakers were among the highest paid, typically averaging between \$5 and \$7 per hour. Those producing tools and dies for sale (jobbing) held a wage advantage over their counterparts producing or maintaining tools and dies for use within the establishment (other than jobbing) in a majority of areas compared. Janitors, one of the lowest paid occupations studied, averaged from \$3.09 to \$4.66.

Paid holidays and paid vacations were provided for most of the production and office workers in nearly all areas. At least part of the cost of life, hospitalization, surgical, and basic medical insurance was provided to about nine-tenths of the production workers or more in most areas. Retirement pension plans covered at least two-thirds of the workers in each area studied.

Industry characteristics

Products. The nonelectrical machinery industries manufacture a variety of products, ranging from staple removers and pencil sharpeners to large complex engines, turbines, and oil drilling rigs. The establishments studied³ were classified

¹See appendix A for scope and method of 1974-75 survey, which covered 23 geographical areas. Surveys conducted from 1955 through the fall of 1968 covered 21 areas; as a result, earnings trend data in this report are limited to these areas. Tulsa, Okla., was added to the winter 1970-71 survey and Atlanta, Ga., to the 1973 survey, resulting in the current total of 23 areas. Earnings data presented in this bulletin exclude premium pay for overtime and for work on weekends, holidays, and late shifts.

²See appendix B for job descriptions.

³The 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 50 workers.

Text table 1. Percent of production workers in machinery plants by primary product, winter 1974-75

Primary product	Percent
Total	100
Engines and turbines	7
Farm machinery.	4
Construction and related machinery	20
Metalworking machinery.	22
Special industry machinery	8
General industrial machinery	16
Office and computing machinery	9
Service industry machinery	6
Miscellaneous machinery, except electrical	7

NOTE Because of rounding, detail does not add to total.

according to their primary product. These categories, along with the percent of production workers employed in each, are presented in text table 1.

Among the 23 areas in the study, the types of products manufactured varied considerably. In Houston, nearly four-fifths of the workers were in plants primarily producing oil-field machinery (part of the construction and related machinery category). In Tulsa, three-fifths of the workers were in plants making construction and related machinery. Establishments manufacturing primarily general industrial machinery employed nearly three-fifths of the workers in Hartford and almost half in Buffalo, while those making metalworking machinery employed slightly less than half of the work force in Detroit. No single product category furnished employment to a majority of workers in the other areas.

Employment. The 23-area survey covered three-tenths of the estimated 1,487,900 production and related workers employed in the nonelectrical machinery industries at the time of the study.⁴ Production employment, according to the survey, ranged from 3,000 to 8,000 workers in Atlanta, Baltimore, Buffalo, Denver, Portland, San Francisco, Tulsa, and Worcester, and rose to a high of 71,400 in Chicago. After Chicago, the next largest machinery centers studied were Detroit (45,300), Milwaukee (41,000), Los Angeles-Anaheim (37,900), and Cleveland (27,400). (See appendix table A-1.)

Largely because of changes in metropolitan area definitions, only 10 areas were fully comparable for the 1973 and

⁴Nationwide employment as reported in the Bureau's monthly periodical, *Employment and Earnings*.

1974-75 surveys. Aggregate employment of production workers for these 10 areas decreased about 2 percent—from 243,300 to 238,800. Employment declined about 16 percent in Buffalo, and between 6 and 8 percent in each of the following: Cleveland, Los Angeles, Philadelphia, and San Francisco. The number of production workers remained virtually unchanged in Baltimore, Chicago, and Portland; employment increased in Pittsburgh (4 percent) and Milwaukee (8 percent).

In the 23 areas combined, 45 percent of the workers were in plants with 100 to 999 employees, compared with 18 percent in establishments with fewer than 100 workers and 37 percent in those with 1,000 workers or more. Plants with fewer than 100 employees accounted for about one-third of the work force in Atlanta, Detroit, and New York; they accounted for one-fourth or less in each of the other areas studied. Only in Baltimore and Milwaukee were a majority of workers in establishments employing at least 1,000 workers.

Processes. Production methods used in the manufacture of nonelectrical machinery have many similarities and generally include machining, assembling (floor, bench, or conveyor line), and inspecting. Depending on a firm's organization and the product it manufactures, casting, forging, stamping, heat-treating, polishing, plating, and painting also may be part of the production process. Tools, dies, and fixtures are items frequently manufactured to meet customers' specifications, but products having a large demand usually are mass-produced.

One of the newest technological developments in the mass production process is the use of numerically controlled (N/C) machine tools. This technique permits the automatic operation of the machine using electronic devices (control units) and programmed changeable tapes. The control unit interprets coded tape instructions, prepared in advance by a programmer, and directs the machine tool through the programmed sequence of machining operations to control functions such as machine speeds and feeds, movement of the tool, flow of coolant, and even selection of the proper preset cutting tool for each operation.

Numerically controlled machines are used to make a variety of machinery products including oil-field and construction machinery, machine tools, metalworking and woodworking machinery, pumps and compressors, and printing equipment.

The Bureau developed information on the number of operators on N/C machines for the first time in the 1970-71 survey. At that time, approximately 3,100 N/C operators were employed in the industry, compared with 4,300 in 1973 and 4,500 in the current survey. (See tables 1 to 23 for earnings of these N/C operators.)

In winter 1974-75, 45 percent of the workers in the 23 areas were employed in establishments with no numerically controlled machines and no plans for purchasing them. In those plants that had N/C machines, however, policies re-

garding wage setting for operators of these machine tools varied. Nearly one-third of the 237,216 employees in plants with N/C machines worked under wage policies which did not establish a formal rate relationship between operators of N/C equipment and conventional machine tools; one-half worked in plants which set the same wage rates for both types of operators; and one-sixth worked in plants which set higher rates for N/C operators than for conventional operators. A few establishments set N/C rates lower than conventional rates. These proportions generally held in most areas studied.

Another production arrangement frequently used by machinery manufacturers is the multiple operation of machine tools. In the 23 areas, 44 percent of the workers were employed in establishments that used this multiple operation system. Commonly referred to as "bank operations," this system permits one employee to operate two or more production machine tools of the same type simultaneously. Nearly one-fourth of the workers assigned to multiple operations received separate wage differentials for such work.

Nearly seven-eighths of the production workers in the survey were employed in establishments having assembly work. About two-fifths were employed in plants primarily using floor assembly systems, one-third in plants using bench assembling, and one-tenth in plants using conveyor lines. Types of assembly systems varied somewhat among the areas. The proportion of workers in bench assembly plants, for example, ranged from less than one-fifth each in Detroit, Pittsburgh, and Portland to three-fourths in Denver-Boulder.

Unionization. Establishments with collective bargaining agreements covering a majority of their production workers employed two-thirds of the work force recorded in the survey. As shown in text table 2, the proportion of workers in such establishments varied widely among the areas. Most workers covered by bargaining agreements were represented by the Machinists (IAM), Auto Workers (UAW), or Steelworkers (USA).

Text table 2. Workers in machinery plants with collective bargaining agreements covering a majority of their production workers, winter 1974-75

Area	Percent
Tulsa	90-99
Buffalo, Cleveland, Milwaukee, Pittsburgh, Portland, St. Louis, San Francisco	80-89
Hartford, New York, Philadelphia	70-79
Chicago, Detroit, Houston, Minneapolis-St. Paul, Newark, Worcester	60-69
Atlanta	50-59
Baltimore, Boston	40-49
Dallas, Denver, Los Angeles	30-39

Text table 3. Percent increases in average hourly earnings¹ of production workers in machinery plants in selected areas and occupations, and indexes of average hourly earnings

Area and occupation	Percent increases in average earnings prorated on an annual basis ²								Indexes ³ (1966-68 = 100)	
	1962 to 1963	1963 to 1964	1964 to 1965	1965 to 1966	1966 to 1968	1968 to 1970	1970 to 1973	1973 to 1974	February 1973	Winter 1974- 1975
All areas combined	2.7	2.7	2.3	3.6	5.7	5.8	6.0	8.9	136.1	159.0
AREA										
Baltimore	4.9	3.0	2.4	3.5	5.0	4.6	6.4	8.9	133.7	156.3
Boston	2.8	1.4	1.8	4.1	5.9	7.1	5.5	6.4	138.7	155.3
Buffalo	3.5	3.2	2.9	2.2	5.9	6.3	6.5	8.3	138.9	160.8
Chicago	3.4	3.7	2.0	2.5	6.5	7.2	5.7	7.9	140.3	161.1
Cleveland	2.7	2.7	2.4	3.3	4.9	5.2	6.3	8.8	134.2	156.5
Dallas	2.6	4.0	2.8	3.5	6.6	7.2	4.7	8.8	137.2	160.0
Denver	2.7	2.6	2.7	2.8	7.0	8.3	4.5	7.5	141.1	161.0
Detroit	2.6	2.1	2.4	3.1	7.0	5.9	6.0	9.2	138.2	162.3
Hartford	3.2	3.9	2.1	3.5	5.9	5.7	4.5	8.8	131.7	153.6
Houston	1.9	1.4	2.0	4.7	5.3	5.8	6.8	10.2	136.9	163.4
Los Angeles-Long Beach and										
Anaheim-Santa Ana-Garden Grove	3.4	1.0	3.8	4.3	5.1	4.6	5.2	9.0	129.9	152.0
Milwaukee	2.7	2.6	1.3	4.6	5.2	6.5	7.0	8.1	140.5	162.0
Minneapolis-St. Paul	2.5	4.1	2.4	4.5	5.6	7.1	6.1	8.3	140.7	162.7
Newark and Jersey City	2.7	4.7	1.6	3.1	5.9	6.3	6.2	7.4	134.8	153.6
New York	3.0	3.1	1.4	4.1	3.9	5.8	5.0	8.6	134.5	156.5
Philadelphia	1.2	2.3	2.4	2.4	5.2	6.4	7.5	8.6	140.5	163.3
Pittsburgh . . . . .	.6	1.2	1.6	4.4	3.3	4.5	8.2	10.5	135.1	162.1
Portland (Oreg.-Wash.)	2.9	3.1	3.7	2.4	6.8	5.7	6.1	11.0	137.0	165.9
St. Louis	3.1	2.3	2.9	3.2	7.5	5.7	5.4	8.1	136.2	157.0
San Francisco-Oakland	3.0	2.7	5.3	3.9	6.5	6.7	7.5	11.5	143.6	175.3
Worcester	3.7	2.1	3.0	4.6	4.9	6.4	5.4	6.9	135.2	152.8
OCCUPATION										
Laborers, material handling	2.9	3.3	1.8	3.0	5.6	7.3	7.1	7.9	143.7	165.1
Tool and diemakers (other than jobbing)	2.4	3.3	2.5	4.1	7.2	5.5	5.9	9.1	137.0	160.6

¹ Excludes premium pay for overtime and for work on weekends, holidays, and late shifts.

² Because the intervals between the 5 surveys conducted since 1965 were over 1 year, all percentage changes have been adjusted to an annual basis. The compound effect of wage changes was considered in computing the annual percentages for periods covering more than 12 months.

Method of wage payment. At least four-fifths of the production workers in all areas except Milwaukee were paid on a time-rate basis, usually under formal plans that provided for ranges of rates for specific occupations (table 25). Informal systems, which base rates primarily on the qualifications of individual workers, applied to 23 percent of the workers in New York; about 18-19 percent in Atlanta, Detroit, and Newark-Jersey City; 12-15 percent in Boston, Cleveland, and Dallas; and 9 percent or less in the other areas. Incentive wage systems applied to two-fifths of the workers in Milwaukee and to nearly one-fifth in Chicago, Cleveland, Hartford, Newark, and Pittsburgh. Such systems applied to one-tenth or less of the workers in most of the other areas.

Women workers. Thirteen percent of the production work force in the 23 areas surveyed were women. Their share of the work force ranged downward from between 20 and 25 percent in Denver, Los Angeles, and Minneapolis to less than

³ For methods used to construct indexes, see appendix A.

NOTE: To determine the percent change for all areas combined, for material handling laborers, and for tool and diemakers (other than jobbing), the payroll reference periods used for the 1968, 1970-71, and 1974-75 surveys, which covered more than a single month, were October, December, and December, respectively.

5 percent in each of five areas. Among occupations selected for separate study, women were employed most frequently as assemblers, inspectors, and machine-tool operators in routine and less difficult tasks.

Trends in earnings

Between February 1973 and the winter of 1974-75, average straight-time hourly earnings of machinery workers increased 17 percent, or at a record average annual rate of 8.9 percent overall for these surveys. During this period, the average annual rate of increase found in comparing the 21 areas ranged from 6.4 percent in Boston to 11.5 percent in San Francisco-Oakland. (See text table 3.)

Increases in average hourly earnings in nonelectrical machinery manufacturing resulted primarily from wage rate changes granted through collective bargaining or individually by employers. However, the machinery industries' principal

method of wage payment (three-fifths of the production workers paid under ranges of rates for specified jobs), coupled with relatively stable employment, may also have contributed to the advancing averages.

For all areas combined, tool and diemakers (other than jobbing) had a 9.1-percent increase between the two survey periods, and material handling laborers a 7.9-percent rise. The percentage increase, higher for the more skilled job than for laborers, is a return to the relationship found in machinery studies conducted between 1964 and 1968.

The Bureau's wage-rate index for all production workers in the nonelectrical machinery industries stood at 159.0 (1966-68 = 100) at the time of the winter 1974-75 survey. The corresponding indexes were 165.1 for material handling laborers and 160.6 for tool and diemakers (other than jobbing).

Occupational earnings

The occupations for which wage data are presented in tables 1 to 23 were selected to represent the full spectrum of activities performed by production workers in the industry. These jobs accounted for about half of the 432,776 production and related workers within scope of the winter 1974-75 survey. Tool and diemakers usually had the highest average earnings—typically, \$5 to \$7 an hour. In 10 of the 17 areas where comparisons could be made, workers producing tools and dies for sale (jobbing) had higher average hourly earnings than their counterparts producing or manufacturing tools and dies for use within the establishment (other than jobbing). The differential was most pronounced in Chicago where the jobbing shop advantage averaged 14 percent (\$7.58 compared with \$6.65).

Machine-tool operators were the largest occupational group studied. Conventional operators were classified into three groups for wage study purposes: Operators who set up their own machines and perform a variety of machining operations to close tolerances (class A) averaged from \$7.01 in San Francisco-Oakland to \$4.56 in Atlanta and \$4.58 in Tulsa; the corresponding range for the intermediate group of operators (class B) was \$6.03 in San Francisco to \$3.76 in Dallas-Fort Worth; and for operators who perform routine repetitive operations but do not set up the machines (class C) a high of \$5.68 in San Francisco and a low of \$2.95 in Dallas.

Operators on numerically controlled (N/C) machines typically averaged between \$5 and \$6 an hour, ranging from \$4.33 in Hartford-New Britain-Bristol to \$6.33 in St. Louis. In slightly more than half of the 22 areas permitting comparison, average earnings of operators working on N/C machines fell between the pay levels for class A and class B conventional operators.

Janitors were among the lowest paid of the occupations studied. Typically, they averaged between \$3.50 and \$4.50 an hour, ranging from \$3.09 in Dallas-Fort Worth to \$4.66 in Portland.

Text table 4. Averages¹ for material handling laborers and for tool and diemakers (other than jobbing) in machinery plants as a percent of all manufacturing averages in the BLS area wage surveys, 18 areas²

(Average in area wage surveys=100)

Area	Material handling laborers	Tool and die makers (other than jobbing)
Northeast:		
Boston	103	95
Buffalo	96	79
Philadelphia	101	99
Pittsburgh	90	94
Worcester	99	109
South:		
Atlanta	94	84
Baltimore	87	89
Dallas-Fort Worth	86	82
Houston	106	107
North Central:		
Chicago	100	95
Cleveland	92	93
Detroit	92	93
Milwaukee	-	99
Minneapolis-St. Paul.	98	99
St. Louis	93	103
West:		
Denver-Boulder	87	105
Portland	99	105
San Francisco-Oakland	105	105

¹Straight-time hourly earnings, excluding premium pay for overtime and for work on weekends, holidays, and late shifts.

²Area definitions were not comparable for the Hartford, Los Angeles, Newark-Jersey City and New York areas. Tulsa is not included in the area wage survey program.

Average hourly earnings of material handling laborers and of tool and diemakers (other than jobbing) in machinery plants were compared with corresponding averages recorded in the Bureau's area wage surveys in 18 areas.⁵ Text table 4 presents hourly average pay relatives for the two jobs using the more broadly based area wage survey average in each area as 100. It shows a mixed picture for laborers and for tool and diemakers in machinery manufacturing, who earned less than their counterparts in all manufacturing industries in about half the areas compared.

Based on nine occupational classifications common to all areas, San Francisco-Oakland had by far the highest average earnings and Dallas the lowest. The relative pay levels using Chicago as base=100 are presented in text table 5.

⁵The Bureau's area wage survey program covers establishments in the following broad industry divisions: Manufacturing; transportation, communication, and other public utilities; wholesale trade; retail trade; finance, insurance, and real estate; and selected services. Area wage surveys were conducted throughout the country in 1974 and 1975. Data from these surveys were adjusted to reflect the payroll reference periods used in the machinery survey. Employment minimums of 50 workers in manufacturing were in effect for the surveys in Atlanta, Baltimore, Denver-Boulder, Houston, Milwaukee, Minneapolis-St. Paul, and Portland. In the other areas, the minimum was 100 workers.

Text table 5. Relative pay levels, machinery plants, 23 areas, winter 1974-75

(Chicago=100)

Area	Pay level ¹
San Francisco-Oakland	118
Detroit	109
Portland	107
St. Louis	107
Milwaukee	105
Pittsburgh	101
Chicago	100
Cleveland	100
Houston	97
Newark-Jersey City	95
Philadelphia	95
Buffalo	94
Minneapolis-St. Paul	94
Hartford-New Britain-Bristol	92
Denver-Boulder	91
Los Angeles-Long Beach and Anaheim-Santa Ana-Garden Grove	90
New York	89
Baltimore	88
Boston	87
Worcester	86
Atlanta	82
Tulsa	81
Dallas-Fort Worth	80

¹ Average hourly earnings for workers in 9 occupational classifications were used in computing the relative pay levels. The jobs are: Assemblers, classes A and B; inspectors, class A; janitors, porters, and cleaners; machine-tool operators, production, classes A and B; tool and diemakers (other than jobbing); tool clerks; and welders, hand, class A. To minimize interarea differences in occupational composition, weights expressing constant employment relationships based on total (winter 1974-75) employment in the respective jobs in the 23 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.

The interarea spread in average straight-time hourly earnings varied by occupation. Class B machine welders in Houston, for example, averaged 43 percent more than their counterparts in Atlanta. The corresponding spread for maintenance electricians was 32 percent, and for class A assemblers, 13 percent. Class A inspectors in Atlanta, however, averaged 2 percent more per hour than their counterparts in Houston.

Where comparisons were possible, workers paid under incentive wage systems usually were found to have higher average earnings than time-rated workers in the same occupation and area. (See tables 1 through 23 for selected examples and text table 6 for illustrations in 4 areas.) Differences in averages between time and incentive workers, however, varied somewhat by occupation and area. For example, classes A and B machine tool operators (production) paid under incentive wage systems in Chicago averaged 11 and 16 percent more, respectively, than their time-rated counterparts. The corresponding differences in Cleveland were 25 and 36 percent.

Earnings of individuals, determined largely under systems providing ranges of rates for specified occupations, varied considerably within the same job and area (tables 1 to 23). Earnings of the highest paid workers frequently exceeded those of the lowest paid in the same job and area by \$2 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, text table 7 indicates a considerable overlapping of earnings for class A inspectors and class C assemblers in Cleveland, despite a \$1.51 difference in the hourly averages of the two jobs.

Text table 6. Occupational averages by method of wage payment, selected occupations and areas, winter 1974-75

Occupation and method of pay	Chicago		Cleveland		Milwaukee		Newark-Jersey City	
	Workers	Earnings	Workers	Earnings	Workers	Earnings	Workers	Earnings
Assemblers, class A:								
Time workers	2,855	\$5.19	1,234	\$5.35	610	\$5.42	671	\$5.42
Incentive workers	544	6.14	364	6.34	768	5.89	84	4.69
Assemblers, class B:								
Time workers	1,948	4.27	515	4.74	1,009	4.75	558	4.15
Incentive workers	952	5.21	146	5.67	758	5.89	189	4.37
Assemblers, class C:								
Time workers	2,206	3.38	-	-	-	-	190	4.31
Incentive workers	685	3.83	-	-	-	-	665	4.47
Machine-tool operators, production, class A:								
Time workers	3,741	5.50	2,246	5.26	1,310	5.59	917	5.41
Incentive workers	1,929	6.10	1,101	6.55	1,567	5.89	214	4.89
Machine-tool operators, production, class B:								
Time workers	2,355	4.79	1,133	4.51	1,092	4.98	-	-
Incentive workers	1,024	5.56	197	6.12	1,056	6.00	-	-
Machine-tool operators, production, class C:								
Time workers	1,689	4.46	358	3.78	-	-	207	3.81
Incentive workers	523	4.60	11	5.57	-	-	50	4.10

Text table 7. Earnings distribution of class A inspectors and class C assemblers, Cleveland, winter 1974-75

Hourly earnings	Inspectors, class A	Assemblers, class C
Under \$4.00	15	164
\$4.00 and under \$4.20	-	38
\$4.20 and under \$4.40	1	37
\$4.40 and under \$4.60	5	5
\$4.60 and under \$4.80	13	16
\$4.80 and under \$5.00	48	3
\$5.00 and under \$5.20	45	28
\$5.20 and under \$5.40	9	15
\$5.40 and under \$5.60	92	3
\$5.60 and under \$5.80	49	2
\$5.80 and under \$6.00	119	4
\$6.00 and under \$6.20	49	1
\$6.20 and over	64	4
Number of workers	509	320
Average hourly earnings	\$5.60	\$4.09

Establishment practices and supplementary wage provisions

Information was obtained on shift differential provisions and practices for production workers. Data on work schedules and selected supplementary benefits, including paid holidays and vacations, and health, insurance, and retirement plans, were obtained for both plant and office workers.

Shift differential provisions and practices. In nearly all areas surveyed, plants employing at least four-fifths of the production workers had provisions for late-shift operations, with extra pay above day-shift rates (table 26). The proportion of workers actually employed on second shifts, however, ranged from 5 percent in Atlanta and 8 percent in New York to about 27 percent in Baltimore and Houston (table 27). Third-shift employment made up 11-12 percent of the total in Baltimore and Houston, 9 percent in Philadelphia and Pittsburgh, 7 percent in Milwaukee and Portland, and 6 percent or less in the other areas. Shift differentials, usually paid on a cents-per-hour basis or as a percentage of day-shift rates, varied widely among and within areas.

Scheduled weekly hours. Work schedules of 40 hours a week were in effect in establishments employing seven-tenths or more of the plant workers in a majority of the areas (table 28). Most of the remaining production workers had weekly schedules exceeding 40 hours except in Philadelphia and Baltimore where 25 and 35 percent of the workers, respectively, were scheduled for 37 hours.

Office workers also were typically scheduled for 40 hours a week, except in New York where schedules of fewer than 40 hours applied to a majority of the workers (table 29).

Paid holidays. Virtually all plant and office workers were provided holidays (tables 30 and 31). In most Northeast

and North Central areas studied, plant workers usually received at least 10 days annually. In the South and West, workers typically received 9 or 10 days annually. Exceptions to this general pattern were in Atlanta and Denver where workers typically received 7 and 11 days per year, respectively. Also, in Worcester, a majority of the plant workers received 9 days or less annually. With some exceptions, paid holiday provisions for office workers were generally similar to those for plant workers within the same area.

Paid vacations. Paid vacations were provided to plant and office workers by virtually all the establishments in the survey (tables 32 and 33). Typically, provisions for plant workers in most areas were 1 week of vacation pay after 1 year of service, 2 weeks after 2 or 3 years, 3 weeks after 10 years, and at least 4 weeks after 20 years. Five weeks or more of vacation pay after 30 years of service were available to a majority of the plant workers in Baltimore, Milwaukee, and Newark-Jersey City. Provisions for office workers generally were similar to those for plant workers within the same area except that they typically received 2 weeks of vacation pay after 1 year of service.

Health, insurance, and retirement plans. Establishments providing life, hospitalization, surgical, and basic medical insurance employed at least nine-tenths of the plant and office workers in all areas (tables 34 and 35). Two-thirds

Text table 8. Percent of production workers in establishments with formal apprenticeship or training programs

Area	Formal apprenticeship program only	Formal training program only	Both types of programs
Atlanta	23	(¹)	(¹)
Baltimore	48	(¹)	35
Boston	5	(¹)	7
Buffalo	25	(¹)	5
Chicago	20	14	7
Cleveland	19	21	(¹)
Dallas	(¹)	29	(¹)
Denver	7	36	11
Détroit	35	(¹)	15
Hartford	21	(¹)	47
Houston	20	10	17
Los Angeles-Long Beach and Anaheim-Santa Ana-Garden Grove	7	9	(¹)
Milwaukee	17	12	28
Minneapolis-St. Paul	(¹)	12	9
Newark and Jersey City	20	(¹)	20
New York	12	(¹)	(¹)
Philadelphia	26	9	(¹)
Pittsburgh	29	23	10
Portland (Oregon-Washington)	51	19	(¹)
St. Louis	35	(¹)	23
San Francisco-Oakland	24	(¹)	33

¹ Estimates from 0 to 4 percent.

or more of the workers in most areas were covered by accidental death and dismemberment insurance (in addition to basic life insurance), major medical insurance, and sickness and accident insurance, or sick leave plans, or both. Plans providing routine dental services applied to nine-tenths of the plant workers in San Francisco-Oakland, to four-fifths in Portland and three-tenths or less in the other areas. Employers typically paid the entire cost of these health and insurance plans.

Retirement pension plans (other than social security) were available to three-fourths or more of the plant and office workers in nearly all the areas and typically were financed entirely by the employers. Retirement severance pay plans were not common, applying to less than one-tenth of the workers in each area.

Apprenticeship and training programs. Slightly more than two-fifths of the workers in the 23 areas combined were in

plants having some formal apprenticeship or training program. The proportion of workers in plants having such programs in 21 areas ranged from one-seventh in Boston and New York, to seven-tenths in Hartford and slightly more than four-fifths in Baltimore (text table 8). No plants visited in Tulsa or Worcester had such programs.

For survey purposes, apprenticeship programs were limited to those registered with either the Federal or a State Government. These programs are primarily designed to train young workers, under the supervision of skilled journeymen, to become proficient in skilled crafts or trades. Most apprenticeship programs outline a 4-year curriculum of on-the-job experience and related instruction. Training programs, on the other hand, refer to company operated plansthat involve both classroom instruction and workplace experience and may require at least 1 year for the trainee to complete.

Table 1. Occupational earnings: Atlanta, Ga.¹

(Number and average straight-time hourly earnings² of workers in selected occupations in machinery manufacturing establishments, January 1975)

Occupation	Number of workers	Average hourly earnings ³	Number of workers receiving straight-time hourly earnings of—																											
			\$ 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	\$ 5.20	\$ 5.40	\$ 5.60	\$ 5.80	\$ 6.00	\$ 6.20	\$ 6.40	\$ 6.60	\$ 6.80			
			Under \$ 2.60	under \$ 2.70	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	5.20	5.40	5.60	5.80	6.00	6.20	6.40	6.60	6.80		
ASSEMBLERS, CLASS A -----	104	\$ 4.68	-	-	-	-	-	-	-	-	4	13	-	9	7	1	33	3	16	2	5	2	3	3	1	1	-	1		
ASSEMBLERS, CLASS B -----	256	3.75	-	-	-	-	-	-	-	-	2	18	100	113	8	3	2	-	-	-	-	-	-	-	-	-	-	-		
ASSEMBLERS, CLASS C -----	217	3.23	-	16	2	4	34	41	15	24	66	5	-	16	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
ELECTRICIANS, MAINTENANCE -----	7	4.57	-	-	-	-	-	-	-	-	-	-	-	2	-	2	2	-	-	-	-	-	1	-	-	-	-	-	-	
INSPECTORS, CLASS A -----	11	5.56	-	-	-	-	-	-	-	-	-	-	-	12	-	7	-	12	-	6	-	2	-	-	-	-	-	-	3	
INSPECTORS, CLASS B -----	31	4.29	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
JANITORS, PORTERS, AND CLEANERS -----	30	3.13	2	-	-	-	-	4	5	5	9	4	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
LABORERS, MATERIAL HANDLING -----	51	3.26	-	-	-	-	8	-	16	1	10	5	-	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MACHINE-TOOL OPERATORS, PRODUCTION CLASS A ⁴ -----	109	4.56	-	-	-	-	-	-	-	-	-	6	-	13	13	22	35	9	3	6	-	-	-	1	1	-	-	-		
ENGINE-LATHE OPERATORS -----	21	4.91	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12	-	3	6	-	-	-	-	-	-	-	-	-	
GRINDING-MACHINE OPERATORS -----	13	4.27	-	-	-	-	-	-	-	-	-	6	-	1	-	-	6	-	-	-	-	-	-	-	-	-	-	-	-	
MACHINE-TOOL OPERATORS, PRODUCTION CLASS B ⁴ -----	97	3.89	-	-	-	-	-	10	4	6	2	3	49	-	5	5	7	6	-	-	-	-	-	-	-	-	-	-	-	
DRILL-PRESS OPERATORS, SINGLE- OR MULTIPLE-SPINDLE -----	28	4.11	-	-	-	-	-	-	-	4	-	1	10	-	3	4	4	2	-	-	-	-	-	-	-	-	-	-	-	
GRINDING-MACHINE OPERATORS -----	30	3.63	-	-	-	-	-	10	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MACHINE-TOOL OPERATORS, PRODUCTION CLASS C -----	39	3.23	-	-	4	-	8	2	-	15	7	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
PUNCH-PRESS OPERATORS, CLASS B -----	45	3.35	-	-	6	8	-	12	-	3	-	8	2	3	1	1	-	-	1	-	-	-	-	-	-	-	-	-	-	
SET-UP MEN, MACHINE TOOLS -----	21	4.64	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	12	-	-	-	-	-	-	-	-	-	-	-	
TOOL AND DIEMAKERS (JOBMING) -----	90	5.53	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16	-	26	1	8	8	26	-	-	8	1	2	
TOOL AND DIEMAKERS (OTHER THAN JOBMING) -----	30	5.24	-	-	-	-	-	-	-	-	-	-	-	2	-	2	4	-	2	9	3	4	2	-	2	-	-	-	-	
TOOL CLERKS -----	17	3.70	-	-	-	-	-	-	4	-	4	-	-	-	6	1	2	-	-	-	-	-	-	-	-	-	-	-	-	-
WELDERS, HAND, CLASS A -----	36	4.73	-	-	-	-	-	-	-	-	-	2	-	4	-	-	22	-	4	-	4	-	-	-	-	-	-	-	-	-
WELDERS, HAND, CLASS B -----	74	4.13	-	-	-	-	-	-	-	-	-	8	17	-	49	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
WELDERS, MACHINE, CLASS A -----	49	4.85	-	-	-	-	-	-	-	-	-	-	2	20	-	6	-	-	21	-	-	-	-	-	-	-	-	-	-	-
WELDERS, MACHINE, CLASS B -----	34	3.70	-	-	-	-	-	-	6	-	2	12	14	-	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-

¹ The Atlanta Standard Metropolitan Statistical Area consists of Butts, Cherokee, Clayton, Cobb, DeKalb, Douglas, Fayette, Forsyth, Fulton, Gwinnett, Henry, Newton, Paulding, Rockdale, and Walton Counties.

² Excludes premium pay for overtime and for work on weekends, holidays, and late shifts. These surveys, based on a representative sample of establishments, are designed to measure the level of occupational earnings at a particular time. Thus, comparisons made with previous studies may not

reflect expected wage movements because of change in the sample composition, and shifts in employment among establishments with different pay levels. Such shifts, for example, could decrease an occupational average, even though most establishments increased wages between periods being compared.

³ Includes data for operations of other machine tools in addition to those shown separately. All workers were paid on a time basis.

Table 2. Occupational earnings: Baltimore, Md.¹

(Number and average straight-time hourly earnings² of workers in selected occupations in machinery manufacturing establishments, December 1974)

Occupation	Number of workers ²	Average hourly earnings ⁴ and under	Number of workers receiving straight-time hourly earnings of—																										
			\$ 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	\$ 5.20	\$ 5.40	\$ 5.60	\$ 5.80	\$ 6.00	\$ 6.20	\$ 6.40			
			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	5.20	5.40	5.60	5.80	6.00	6.20	6.40	6.60			
ASSEMBLERS, CLASS A	261	\$ 4.86	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
TIME	245	4.81	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
ASSEMBLERS, CLASS B	231	4.39	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
TIME	206	4.36	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
ELECTRICIANS, MAINTENANCE ³	51	5.53	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
INSPECTORS, CLASS A ³	74	5.46	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
INSPECTORS, CLASS C:			TIME	29	4.38	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
JANITORS, PORTERS, AND CLEANERS ³	55	3.51	8	6	4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
LABORERS, MATERIAL HANDLING ³	130	3.67	—	—	—	—	—	7	12	7	7	5	26	44	22	—	—	—	—	—	—	—	—	—	—	—	—		
MACHINE-TOOL OPERATORS, PRODUCTION CLASS A ⁴	698	5.17	—	—	—	—	—	—	—	—	—	—	—	—	—	7	4	20	22	26	53	253	222	13	43	10	16	5	
TIME	647	5.12	—	—	—	—	—	—	—	—	—	—	—	—	—	7	4	20	22	23	53	252	219	10	17	10	16	5	
AUTOMATIC-LATHE OPERATORS	26	4.88	—	—	—	—	—	—	—	—	—	—	—	—	—	4	—	6	—	—	6	4	—	6	—	—	—	—	
TIME	20	4.64	—	—	—	—	—	—	—	—	—	—	—	—	—	4	—	6	—	—	6	4	—	6	—	—	—	—	
DRILL-PRESS OPERATORS, RADIAL ³	43	4.92	—	—	—	—	—	—	—	—	—	—	—	—	—	3	—	4	6	—	2	10	14	—	4	—	—	—	
ENGINE-LATHE OPERATORS	82	5.46	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2	31	29	—	—	—	15	—	
TIME	66	5.30	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2	30	29	—	—	—	2	1	
GRINDING-MACHINE OPERATORS ³	81	5.20	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5	5	28	38	1	2	1	—	
MILLING-MACHINE OPERATORS ³	106	5.26	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2	66	22	—	12	2	—	1	—	
TURRET-LATHE OPERATORS, HAND (INCLUDING HAND SCREW MACH)	87	5.28	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	11	2	30	20	2	15	6	—	1	
TIME	70	5.18	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	11	2	30	20	20	—	—	—	1	
MACHINE-TOOL OPERATORS, PRODUCTION CLASS B ⁴	384	4.60	—	—	3	—	—	—	5	2	8	39	5	20	39	51	43	61	66	8	32	1	—	1	—	1	—		
TIME	275	4.37	—	—	3	—	—	—	5	2	8	39	5	20	39	51	39	53	9	—	1	—	1	—	1	—	—		
DRILL-PRESS OPERATORS, RADIAL	17	4.20	—	—	—	—	—	—	2	—	2	3	2	—	—	—	—	1	4	3	—	—	—	—	—	—	—		
TIME	12	3.86	—	—	—	—	—	—	2	—	2	3	2	—	—	—	—	1	2	—	—	—	—	—	—	—	—		
DRILL-PRESS OPERATORS, SINGLE- OR MULTIPLE-SPINDLE ³	27	4.10	—	—	3	—	—	—	3	—	—	—	—	—	—	4	9	2	3	—	—	—	—	—	—	—	—		
ENGINE-LATHE OPERATORS	51	4.36	—	—	—	—	—	—	—	—	—	—	—	—	—	21	3	2	5	3	3	5	10	—	1	1	—	—	
TIME	40	4.16	—	—	—	—	—	—	—	—	—	—	—	—	—	21	3	2	5	3	3	3	1	—	1	1	—	—	
GRINDING-MACHINE OPERATORS ⁵	86	4.93	—	—	—	—	—	—	—	2	—	3	—	—	—	1	1	12	35	14	3	15	—	—	—	—	—		
MILLING-MACHINE OPERATORS	49	4.63	—	—	—	—	—	—	—	—	6	—	—	—	—	7	15	6	1	6	2	6	—	—	—	—	—		
TIME	35	4.37	—	—	—	—	—	—	—	—	6	—	—	—	—	7	15	6	1	6	2	6	—	—	—	—	—		
MACHINE-TOOL OPERATORS, PRODUCTION CLASS C:			TIME ⁴	99	3.97	—	—	—	—	5	—	4	24	33	5	10	9	9	—	—	—	—	—	—	—	—	—	—	
DRILL-PRESS OPERATORS, SINGLE- OR MULTIPLE-SPINDLE ³	6	3.74	—	—	—	—	—	—	3	—	—	2	—	—	—	1	—	—	—	—	—	—	—	—	—	—	—	—	
MACHINE-TOOL OPERATORS, PRODUCTION NUMERICALLY CONTROLLED ⁴	68	5.06	—	—	—	—	—	—	3	—	3	—	—	—	—	3	—	1	9	19	23	1	2	1	—	2	1	—	
MILLING-MACHINE OPERATORS	21	4.58	—	—	—	—	—	—	3	—	3	—	—	—	—	3	—	—	6	5	—	1	—	—	—	—	—	—	
MACHINE-TOOL OPERATORS, TOOLROOM (MORE THAN ONE TYPE OF MACHINE) — TIME	47	5.21	—	—	—	—	—	—	—	—	—	—	—	—	—	5	—	1	—	4	4	11	13	3	—	—	—	1	5
MACHINISTS, MAINTENANCE ³	41	4.94	—	—	—	—	—	—	—	—	—	—	—	—	—	5	—	1	—	4	4	11	13	3	—	—	—	—	—
MACHINISTS, PRODUCTION ³	45	5.63	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	6	5	21	12	—	—	—	—	—	
MECHANICS, MAINTENANCE ³	149	5.48	—	—	—	—	—	—	—	—	—	—	—	—	—	2	—	6	2	3	4	14	28	14	25	43	5	—	—
MECHANICS, MAINTENANCE ³	41	5.00	—	—	—	—	—	—	—	—	—	—	—	—	—	6	2	3	4	1	6	5	—	7	2	2	—	1	—

See footnotes at end of table.

Table 2. Occupational earnings: Baltimore, Md.¹—Continued

(Number and average straight-time hourly earnings² of workers in selected occupations in machinery manufacturing establishments, December 1974)

Occupation	Number of workers ³	Average hourly earnings ⁴	Number of workers receiving straight-time hourly earnings of—																										
			\$ 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	\$ 5.20	\$ 5.40	\$ 5.60	\$ 5.80	\$ 6.00	\$ 6.20	\$ 6.40	\$ 6.60	\$ 7.00	
			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	5.20	5.40	5.60	5.80	6.00	6.20	6.40	6.60	7.00		
SET-UP MEN, MACHINE TOOLS ⁵ -----	133	\$ 5.66	-	-	-	-	-	-	-	-	-	-	-	3	8	.4	3	1	1	3	19	15	42	20	1	8	5	-	
TOOL AND DIESMAKERS (OTHER THAN JOBING) ³ -----	65	5.84	-	-	-	-	-	-	-	-	-	-	-	-	2	3	-	-	2	10	5	4	5	12	7	14	-	1	
TOOL CLERKS -----	29	4.07	-	-	-	-	-	-	-	-	2	5	4	1	3	8	2	2	2	-	-	-	-	-	-	-	-	-	
WELDERS, HAND, CLASS A -----	90	5.10	-	-	-	-	-	-	-	-	-	-	-	-	6	-	-	-	40	10	23	7	-	-	3	1	-	-	
TIME -----	86	5.07	-	-	-	-	-	-	-	-	-	-	-	-	6	-	-	-	40	10	23	5	-	-	1	1	-	-	
WELDERS, HAND, CLASS B -----	70	4.83	-	-	-	-	-	-	-	-	-	-	-	-	2	3	25	11	7	9	-	12	-	1	-	-	-	-	-
TIME -----	68	4.85	-	-	-	-	-	-	-	-	-	-	-	-	2	3	23	11	7	9	-	12	-	1	-	-	-	-	-

¹ The Baltimore Standard Metropolitan Statistical Area consists of Baltimore City, and Anne Arundel, Baltimore, Carroll, Harford, and Howard Counties.

² Excludes premium pay for overtime and for work on weekends, holidays, and late shifts. These surveys, based on a representative sample of establishments, are designed to measure the level of occupational earnings at a particular time. Thus, comparisons made with previous studies may not reflect expect wage movements because of change in the sample composition, and shifts in employment

among establishments with different pay levels. Such shifts, for example, could decrease an occupational average even though most establishments increase wages between periods being compared.

³ All timeworkers.

⁴ Includes data for operators of other machine tools in addition to those shown separately.

⁵ Insufficient data to warrant publication of separate earnings data by method of wage payment; workers are paid predominantly on a time basis.

Table 3. Occupational earnings: Boston, Mass.¹

(Number and average straight-time hourly earnings² of workers in selected occupations in machinery manufacturing establishments, December 1974)

Occupation	Number of workers	Average hourly earnings ²	Number of workers receiving straight-time hourly earnings of—																														
			\$ 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	\$ 4.40	\$ 4.60	\$ 4.80	\$ 5.00	\$ 5.20	\$ 5.40	\$ 5.60	\$ 5.80	\$ 6.00	\$ 6.20	\$ 6.40						
			Under \$ 2.90	and under	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	4.40	4.60	4.80	5.00	5.20	5.40	5.60	5.80	6.00	6.20	6.40					
<u>Machinery³</u>																																	
ASSEMBLERS, CLASS A -----	455	\$ 4.86	-	-	-	8	4	4	8	9	20	-	-	4	1	2	50	78	107	20	39	16	3	4	16	2	10	445					
TIME -----	358	4.53	-	-	-	8	4	4	8	9	20	-	-	3	-	2	49	74	104	19	30	7	-	-	15	6	6	6					
INCENTIVE -----	97	6.08	-	-	-	-	-	-	-	-	-	-	-	1	1	-	1	4	3	5	9	9	3	4	1	3	4	45					
ASSEMBLERS, CLASS B -----	454	3.97	-	10	17	17	40	12	14	47	16	21	37	31	17	34	28	22	46	27	4	1	4	6	1	-	-	2					
TIME -----	425	3.91	-	10	17	17	40	12	14	47	16	21	37	31	17	33	27	17	35	22	3	-	3	6	-	-	-	-					
ASSEMBLERS, CLASS C -----	313	3.37	55	45	25	9	65	20	4	-	7	8	-	5	6	35	5	5	15	3	-	1	-	-	-	-	-	-	-				
TIME -----	308	3.36	55	45	25	9	65	20	4	-	7	8	-	5	6	33	5	3	15	3	-	1	-	-	-	-	-	-	-				
ELECTRICIANS, MAINTENANCE ⁶ -----	50	5.28	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	-	9	2	9	3	7	4	3	3					
INSPECTORS, CLASS A -----	161	4.97	-	-	-	-	-	4	-	-	-	-	-	4	4	2	-	8	11	29	12	41	11	10	12	8	4	1	-				
TIME -----	149	4.94	-	-	-	-	-	4	-	-	-	-	-	4	4	2	-	8	11	29	12	41	11	3	9	8	4	1	-				
INSPECTORS, CLASS B ⁵ -----	133	4.32	-	-	-	1	-	5	12	4	1	-	3	-	4	19	6	19	19	15	2	5	9	-	6	3	-	-	-				
INSPECTORS, CLASS C ⁵ -----	138	3.41	8	-	18	9	19	3	16	13	21	3	13	10	4	-	-	-	1	-	3	-	-	-	-	-	-	-	-				
JANITORS, PORTERS, AND CLEANERS ⁶ -----	142	3.63	-	-	11	4	3	25	16	23	12	4	15	7	3	4	1	10	4	-	-	-	-	-	-	-	-	-					
LABORERS, MATERIAL HANDLING ⁵ -----	75	3.66	-	-	14	-	-	3	3	-	21	5	11	8	-	-	5	3	2	-	-	-	-	-	-	-	-	-					
MACHINE-TOOL OPERATORS, PRODUCTION, CLASS A ⁷ -----	961	5.04	-	-	-	-	-	-	-	-	-	1	-	2	3	15	30	40	140	181	111	107	144	43	34	45	19	12	34				
TIME -----	819	4.93	-	-	-	-	-	-	-	-	-	-	-	1	3	7	21	36	134	170	102	102	138	28	27	35	12	2	1				
AUTOMATIC-LATHE OPERATORS -----	45	4.84	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12	3	-	10	6	2	7	-	3	-	-	-	-				
TIME -----	42	4.70	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12	3	-	10	6	2	7	-	2	-	-	-	-				
DRILL-PRESS OPERATORS, RADIAL -----	54	4.82	-	-	-	-	-	-	-	-	-	-	-	-	-	1	2	5	23	8	3	3	-	3	3	-	-	-					
TIME -----	47	4.69	-	-	-	-	-	-	-	-	-	-	-	-	-	2	4	22	7	3	3	-	-	3	3	-	-	-	-				
DRILL-PRESS OPERATORS, SINGLE-OR MULTIPLE-SPINDLE -----	74	4.84	-	-	-	-	-	-	-	-	-	-	-	-	1	3	6	2	4	15	9	5	8	7	3	4	1	1	1				
TIME -----	54	4.74	-	-	-	-	-	-	-	-	-	-	-	-	1	3	6	1	2	12	6	3	8	6	-	3	3	-	-				
ENGINE-LATHE OPERATORS -----	110	5.14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3	4	22	16	10	31	8	1	7	1	-	4				
TIME -----	97	5.04	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3	3	21	16	9	9	29	7	-	6	-	-	-				
GRINDING-MACHINE OPERATORS -----	186	5.02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12	34	34	30	29	17	27	7	5	2	1	1	1	1			
TIME -----	165	4.86	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12	34	34	29	17	27	7	5	2	1	1	1	1	1			
MILLING-MACHINE OPERATORS -----	104	5.01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	12	19	21	14	5	7	2	-	4	2	2	6	3			
TIME -----	79	4.83	-	-	-	-	-	-	-	-	-	-	-	-	-	12	18	19	10	5	6	-	-	6	3	-	-	-	-	-			
SCREW-MACHINE OPERATORS, AUTOMATIC -----	48	5.44	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1	-	3	7	12	4	14	2	-	3	1	1	1		
TIME -----	47	5.42	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1	-	3	7	12	4	14	2	-	3	2	1	1		
TURRET-LATHE OPERATORS, HAND (INCLUDING HAND SCREW MACH) -----	136	5.10	-	-	-	-	-	-	-	-	-	1	-	1	-	1	3	-	24	26	17	21	7	4	1	16	3	4	7				
TIME -----	108	4.98	-	-	-	-	-	-	-	-	-	-	-	-	-	3	-	24	23	15	19	6	-	-	15	3	-	-	-	-	-		
MACHINE-TOOL OPERATORS, PRODUCTION, CLASS B ⁷ -----	689	4.15	-	-	-	4	14	42	22	33	21	51	31	19	67	50	116	129	46	6	16	4	6	7	-	1	-	4	-	4			
TIME -----	659	4.14	-	-	-	4	14	40	20	31	18	50	27	19	65	50	115	129	45	6	15	3	6	6	-	1	-	4	-	4			
INCENTIVE -----	30	4.38	-	-	-	4	-	2	2	2	3	1	4	-	2	-	1	-	1	-	1	1	-	1	-	1	-	1	-	-			
AUTOMATIC-LATHE OPERATORS ⁶ -----	18	3.98	-	-	-	-	-	-	3	3	3	-	-	-	-	3	18	-	1	3	-	-	1	-	-	-	-	-	-	-	-		
DRILL-PRESS OPERATORS, RADIAL -----	26	4.14	-	-	-	-	-	-	-	-	-	-	-	-	-	3	18	-	1	3	-	-	1	-	-	-	-	-	-	-	-		
TIME -----	25	4.10	-	-	-	-	-	-	-	-	-	-	-	-	-	3	18	-	1	3	-	-	1	-	-	-	-	-	-	-	-		
DRILL-PRESS OPERATORS, SINGLE-OR MULTIPLE-SPINDLE -----	85	4.03	-	-	-	-	6	6	4	6	1	25	3	1	4	8	4	3	3	-	2	6	3	-	1	-	-	-	-	-			
TIME -----	80	3.93	-	-	-	-	6	6	4	6	1	25	3	1	3	8	3	3	3	-	2	6	3	-	1	-	-	-	-	-			
ENGINE-LATHE OPERATORS ⁶ -----	52	4.30	-	-	-	-	-	-	-	2	-	2	-	-	-	9	7	15	10	2	2	-	-	3	-	-	-	-	-	-	-	-	
GRINDING-MACHINE OPERATORS -----	145	4.08	-	-	-	4	-	2	2	-	6	16	17	13	15	13	30	19	-	-	6	-	-	-	-	-	-	-	-	-			
TIME -----	132	4.14	-	-	-	4	-	2	2	-	3	16	15	13	15	13	30	19	2	-	6	-	-	-	-	-	-	-	-	-			
MILLING-MACHINE OPERATORS -----	38	4.40	-	-	-	-	-	-	-	2	-	1	-	-	5	-	15	4	7	-	-	3	-	-	3	-	-	-	-	-	-	-	
TIME -----	33	4.50	-	-	-	-	-	-	-	2	-	1	-	-	4	-	15	4	7	-	-	3	-	-	3	-	-	-	-	-	-	-	-
TURRET-LATHE OPERATORS, HAND (INCLUDING HAND SCREW MACH) -----	105	4.41	-	-	-	-	-	-	3	2	7	3	3	-	2	10	14	30	25	-	-	1	-	3	-	1	-	1	-	-	-	-	
TIME -----	100	4.36	-	-	-	-	-	-	3	2	7	3	2	-	2	10	14	30	24	-	-	1	-	3	-	1	-	1	-	-	-	-	

See footnotes at end of table.

Table 3. Occupational earnings: Boston, Mass.¹ —Continued

(Number and average straight-time hourly earnings² of workers in selected occupations in machinery manufacturing establishments, December 1974)

Occupation	Number of workers	Average hourly earnings ²	Number of workers receiving straight-time hourly earnings of—																													
			\$ 2.90 and under	\$ 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	\$ 4.60	\$ 4.80	\$ 5.00	\$ 5.20	\$ 5.40	\$ 5.60	\$ 5.80	\$ 6.00	\$ 6.20	\$ 6.40				
		\$ 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	4.60	4.80	5.00	5.20	5.40	5.60	5.80	6.00	6.20	6.40					
<u>Machinery³—Continued</u>																																
MACHINE-TOOL OPERATORS, PRODUCTION, CLASS C ⁷	457	\$ 3.58	1	-	54	31	55	42	6	37	59	67	32	12	6	20	9	7	14	3	-	2	-	-	-	-	-	-	-			
TIME	441	3.57	1	-	54	30	54	39	4	36	58	66	31	10	6	20	8	7	14	3	-	2	-	-	-	-	-	-	-			
AUTOMATIC-LATHE OPERATORS ⁶	16	3.44	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
ENGINE-LATHE OPERATORS ⁶	13	3.61	-	-	-	3	-	-	-	-	-	-	7	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
MILLING-MACHINE OPERATORS ⁹	55	3.66	-	-	-	4	1	8	1	19	1	4	4	2	2	3	3	3	-	-	-	-	-	-	-	-	-	-				
TURRET-LATHE OPERATORS, HAND (INCLUDING HAND SCREW MACH) ⁶	31	3.72	-	-	3	-	-	-	-	2	5	7	9	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
MACHINE-TOOL OPERATORS, PRODUCTION, NUMERICALLY CONTROLLED ⁷	147	4.66	-	-	-	-	-	-	-	-	-	-	24	-	2	4	1	23	24	13	11	10	10	8	3	9	8	2	1	1		
TIME	134	4.58	-	-	-	-	-	-	-	-	-	-	24	-	2	4	1	22	24	13	9	10	8	3	8	6	-	-	-	-		
DRILL-PRESS OPERATORS, SINGLE-OR MULTIPLE-SPINDLE	52	4.21	-	-	-	-	-	-	-	-	-	-	21	-	2	1	1	16	1	3	4	-	-	-	-	3	-	-	-	-		
ENGINE-LATHE OPERATORS	49	4.17	-	-	-	-	-	-	-	-	-	-	21	-	2	1	1	15	1	3	2	-	-	-	-	3	-	-	-	-		
TIME	19	4.89	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	-	1	-	4	3	3	-	3	-	1	-	1		
TURRET-LATHE OPERATORS, HAND (INCLUDING HAND SCREW MACH) ⁶	17	4.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	-	1	-	4	3	-	3	-	-	-	-			
9	4.66	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	4	-	2	-	-	-	-	-	-	-	-	-		
MACHINE-TOOL OPERATORS, TOOLROOM (ONE TYPE OF MACHINE) ⁷	155	5.76	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15	1	6	26	28	24	13	7	22	-	13				
TIME	146	5.38	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15	1	6	26	28	24	13	7	22	-	4				
ENGINE-LATHE OPERATORS	28	5.34	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15	-	3	2	2	-	2	2	-	-	2	-	-		
TIME	26	4.84	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15	-	3	2	2	-	2	-	-	-	2	-	-		
GRINDING-MACHINE OPERATORS	71	5.56	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
TIME	69	5.38	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
MILLING-MACHINE OPERATORS	25	5.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10		
TIME	24	5.49	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3		
MACHINISTS, MAINTENANCE ⁶	44	5.45	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	2	17	4	8	6	1	-	-	-		
MACHINISTS, PRODUCTION	111	5.21	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8	22	12	11	24	8	8	2	2	1	-	8			
TIME	100	4.95	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8	22	-	11	11	24	8	8	2	1	-	-			
MECHANICS, MAINTENANCE ⁶	48	4.91	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	3	14	13	3	5	1	8	-	-	-	-			
POLISHERS AND BUFFERS, METAL	48	4.61	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3	12	7	2	3	1	-	1	3	1	-	2			
TIME	32	4.14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3	11	6	6	-	-	-	-	-	-	-	-	-		
POLISHING- AND BUFFING-MACHINE OPERATORS ⁶	109	4.01	-	-	6	9	6	-	-	3	18	8	9	-	22	6	-	-	-	-	-	12	10	-	-	-	-	-	-	-		
PUNCH-PRESS OPERATORS, CLASS A ⁶	29	4.40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	-	12	6	8	-	-	-	-	-	-	-	-	-		
PUNCH-PRESS OPERATORS, CLASS B	103	3.60	5	15	-	-	7	3	4	20	-	14	7	-	14	1	8	4	-	1	-	-	-	-	-	-	-	-	-	-		
TIME	101	3.58	5	15	-	-	7	3	4	20	-	14	7	-	14	1	7	4	-	1	-	-	-	-	-	-	-	-	-	-		
SET-UP MEN, MACHINE TOOLS ⁶	62	5.35	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7	5	28	10	7	1	-	1	2		
TOOL AND DIEMAKERS (JOB-BIDDING) ⁶	101	5.66	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16	9	20	18	-	-	24	8	6			
TOOL AND DIEMAKERS (OTHER THAN JOB-BIDDING)	101	5.65	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9	3	10	19	12	6	31	1	7	3		
TIME	99	5.53	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9	3	10	19	12	6	31	1	7	1					
TOOL CLERKS ⁶	49	4.52	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	2	-	2	34	54	15	26	20	-	1	-	2	4		
WELDERS, HAND, CLASS A	165	4.93	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	33	53	14	26	18	-	1	-	-	3	-		
TIME	150	4.83	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	-	1	-	2	-	19	19	54	11	-	1	-	-	-	-
WELDERS, HAND, CLASS B	118	4.51	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	-	1	-	2	-	19	18	54	9	-	7	-	-	-	-
TIME	113	4.49	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	-	6	4	30	-	-	7	-	-	-	-	-	-	-	-
WELDERS, MACHINE, CLASS B ⁶	69	4.14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

See footnotes on following page.

Table 3. Footnotes—

¹ The Boston Standard Metropolitan Statistical Area consists of Suffolk County, 16 communities in Essex County, 34 in Middlesex County, 26 in Norfolk County, and 12 in Plymouth County.

² Excludes premium pay for overtime and for work on weekends, holidays, and late shifts. These surveys, based on a representative sample of establishments are designed to measure the levels of occupational earnings at a particular time. Thus, comparison made with previous studies may not reflect expected wage movements because of change in the sample composition, and shifts in employment among establishments with different pay levels. Such shifts, for example could decrease an occupational average, even though most establishments increased wages between periods being compared.

³ Includes data for machine tool accessories and special dies, tools, jigs, and fixtures also shown separately.

⁴ Workers were distributed as follows: 4 at \$6.40 to \$6.60; 14 at \$6.60 to \$6.80; 12 at \$6.80 to \$7; 11 at \$7 to \$7.20; 7 at \$7.20 to \$7.40; and 1 at \$7.40 to \$7.60.

⁵ Workers were distributed as follows: 8 at \$2.50 to \$2.60; 14 at \$2.60 to \$2.70; 12 at \$2.70 to \$2.80; and 21 at \$2.80 to \$2.90.

⁶ All timeworkers.

⁷ Includes data for operators of other machine tools in addition to those shown separately.

⁸ Workers were distributed as follows: 2 at \$6.80 to \$7; 1 at \$7.20 to \$7.40; and 1 at \$7.40 to \$7.60.

⁹ Insufficient data to warrant publication of separate earnings data by method of wage payment; workers are paid predominantly on a time basis.

¹⁰ Workers were distributed as follows: 3 at \$6.40 to \$6.60; and 1 at \$11.80 to \$12.

Table 4. Occupational earnings: Buffalo, N.Y.¹

(Number and average straight-time hourly earnings² of workers in selected occupations in machinery manufacturing establishments, January 1975)

Occupation	Number of workers	Average hourly earnings ² Under \$ 3.50	Number of workers receiving straight-time hourly earnings of—																										
			\$ 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	\$ 5.10	\$ 5.20	\$ 5.30	\$ 5.40	\$ 5.50	\$ 5.60	\$ 5.80	\$ 6.00	\$ 6.20	\$ 6.40	
			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	5.10	5.20	5.30	5.40	5.60	5.80	6.00	6.20	6.40	and over		
ASSEMBLERS, CLASS A TIME	322	\$ 5.29	-	-	-	-	-	-	10	-	-	4	-	-	26	10	24	6	18	21	58	24	43	19	46	2	11	-	
ASSEMBLERS, CLASS B TIME	283	5.22	-	-	-	-	-	-	10	-	-	4	-	-	26	10	24	6	18	21	58	24	42	-	27	2	11	-	
ASSEMBLERS, CLASS C ³	151	4.73	-	-	-	3	-	1	-	6	26	25	5	11	7	4	-	2	12	28	2	3	5	6	4	1	-	-	
ELECTRICIANS, MAINTENANCE ³	97	4.80	-	-	-	-	-	2	-	-	14	-	-	5	7	2	2	1	1	4	-	-	-	-	-	-	-	-	
INSPECTORS, CLASS A ³	36	4.58	-	-	-	-	-	-	-	-	-	-	-	-	5	2	1	1	1	1	11	-	36	-	-	-	-	-	
INSPECTORS, CLASS B ³	105	5.04	1	-	-	-	-	-	2	-	-	-	-	-	2	1	3	2	5	1	47	30	12	-	-	-	-	1	
JANITORS, PORTERS, AND CLEANERS ³	45	5.04	-	-	-	1	-	1	-	1	-	8	-	-	1	-	3	3	6	10	8	-	1	2	-	-	-		
LABORERS, MATERIAL HANDLING ³	121	3.94	12	2	2	1	3	56	27	7	-	4	-	6	-	1	1	1	1	-	-	-	-	-	-	-	-		
	22	4.36	-	-	-	-	-	-	6	6	-	7	1	1	1	-	-	-	-	-	-	-	-	-	-	-	-		
MACHINE-TOOL OPERATORS, PRODUCTION CLASS A ⁴ TIME	643	5.16	-	-	-	-	-	-	1	-	56	5	8	40	35	90	51	33	40	79	55	35	12	32	37	23	11		
DRILL-PRESS OPERATORS, RADIAL TIME	454	5.05	-	-	-	-	-	-	1	-	56	5	8	40	29	76	34	5	20	57	41	15	5	25	21	16	-		
ENGINE-LATHE OPERATORS TIME	49	4.94	-	-	-	-	-	-	-	-	14	-	-	2	7	1	5	7	2	-	1	4	-	2	4	-	-		
GRINDING-MACHINE OPERATORS TIME	29	4.71	-	-	-	-	-	-	-	-	14	-	-	2	6	-	4	-	-	-	-	-	-	3	-	-			
MILLING-MACHINE OPERATORS TIME	81	5.15	-	-	-	-	-	-	-	-	-	-	-	7	6	19	11	5	8	5	2	6	-	-	5	6	1		
TURRET-LATHE OPERATORS, HAND (INCLUDING HAND SCREW MACH) TIME	59	5.08	-	-	-	-	-	-	-	-	32	-	-	7	6	18	10	6	2	-	-	-	-	4	6	-			
GRINDING-MACHINE OPERATORS TIME	95	5.02	-	-	-	-	-	-	-	-	32	-	-	-	-	1	4	2	3	-	37	3	4	3	3	-			
MILLING-MACHINE OPERATORS TIME	83	5.00	-	-	-	-	-	-	-	-	2	-	-	6	3	1	11	4	4	37	3	10	1	4	10	1	6		
TURRET-LATHE OPERATORS, HAND (INCLUDING HAND SCREW MACH) TIME	103	5.36	-	-	-	-	-	-	-	-	2	-	-	6	3	-	8	3	3	34	-	-	-	-	-	-			
	69	5.18	-	-	-	-	-	-	-	-	2	-	-	6	3	-	-	3	3	34	-	-	-	-	-	-			
MACHINE-TOOL OPERATORS, PRODUCTION CLASS B ⁴ TIME	124	5.07	-	-	-	-	-	-	-	-	1	-	7	6	37	20	5	7	22	8	-	1	-	8	2	-			
	78	5.00	-	-	-	-	-	-	-	-	1	-	7	2	31	10	2	2	15	3	-	-	4	1	-	-			
MACHINE-TOOL OPERATORS, PRODUCTION CLASS C ⁴ TIME	281	4.78	2	-	-	-	3	12	2	20	-	10	32	16	2	16	60	14	24	37	11	8	1	2	3	4	1	1	
DRILL-PRESS OPERATORS, RADIAL ⁵ TIME	265	4.73	2	-	-	-	3	12	2	20	-	10	32	15	2	13	60	12	24	37	11	8	1	1	2	3	-	-	
ENGINE-LATHE OPERATORS ⁵ TIME	10	4.47	-	-	-	-	-	-	2	-	-	4	2	-	2	-	-	-	-	-	-	-	-	-	-	-	-		
	17	4.61	-	-	-	-	-	-	4	-	-	8	2	-	-	-	-	-	-	-	1	-	-	1	1	-	-		
MACHINE-TOOL OPERATORS, PRODUCTION CLASS C ⁴ TIME	83	4.19	7	4	3	2	6	1	1	3	2	35	2	12	-	2	1	-	-	-	1	-	1	-	-	-	-	-	
GRINDING-MACHINE OPERATORS ³ TIME	51	4.17	1	4	3	2	6	1	1	2	17	-	12	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	
MACHINE-TOOL OPERATORS, PRODUCTION NUMERICALLY CONTROLLED ⁴ TIME	81	5.56	-	-	-	-	-	-	-	-	2	-	-	-	1	8	4	3	4	5	26	2	6	12	6	2	-		
ENGINE-LATHE OPERATORS ⁵ TIME	38	5.40	-	-	-	-	-	-	-	-	2	-	-	-	7	1	-	1	23	-	-	3	1	-	-	-	-		
	7	5.16	-	-	-	-	-	-	-	-	-	-	-	-	4	1	-	1	-	-	-	-	-	-	-	-	-	-	
MACHINE-TOOL OPERATORS, TOOLROOM (ONE TYPE OF MACHINE) ³ TIME	82	5.43	-	-	-	-	-	-	-	-	1	-	-	4	2	-	-	2	14	7	1	21	6	2	6	-	4		
ENGINE-LATHE OPERATORS ³ TIME	9	5.66	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	2	-	-	-	-	-	-		
	9	5.66	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	2	-	-	2	-	-	-		
GRINDING-MACHINE OPERATORS ³ TIME	48	5.24	-	-	-	-	-	-	-	-	1	-	-	4	2	-	-	2	14	5	-	16	-	-	4	-	-		

See footnotes at end of table.

Table 4. Occupational earnings: Buffalo, N.Y.¹—Continued

(Number and average straight-time hourly earnings² of workers in selected occupations in machinery manufacturing establishments, January 1975)

Occupation	Number of workers ³	Average hourly earnings ⁴	Number of workers receiving straight-time hourly earnings of—																									
			\$ 3.50 Under \$ 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	\$ 5.10	\$ 5.20	\$ 5.30	\$ 5.40	\$ 5.60	\$ 5.80	\$ 6.00	\$ 6.20	\$ 6.40	
1 MACHINISTS, EXCEPT TOOLMAKERS ⁵ —																												
MACHINISTS, MAINTENANCE ⁵ —	42	5.55	-	-	-	-	-	-	-	-	-	-	-	1	-	-	4	2	-	4	1	3	1	14	4	-	4	
POLISHERS AND BUFFERS, METAL ⁵ —	52	5.58	-	-	-	-	-	-	-	-	-	-	-	6	-	-	2	2	-	-	30	6	-	2	4	4		
TOOL AND DIEMAKERS (JOBTING) ⁵ —	42	5.34	-	-	-	-	-	-	8	6	-	-	-	-	3	-	-	1	-	-	-	8	6	4	6	6		
TOOL AND DIEMAKERS (OTHER THAN JOBTING) ⁵ —	146	6.17	-	-	-	-	-	-	-	-	-	-	1	-	1	-	1	-	4	11	18	22	18	6	14	7.50		
TOOL CLERKS ⁵ —	31	5.47	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	-	2	-	14	7	-	2	-	-		
WELDERS, HAND, CLASS A —	28	4.43	-	-	1	-	-	-	2	6	4	8	-	-	-	-	1	3	2	-	1	-	-	-	-	-		
TIME —	414	5.23	-	-	-	-	-	-	-	6	22	1	11	3	32	45	12	12	19	57	7	165	7	3	1	1	10	
	405	5.22	-	-	-	-	-	-	-	6	22	1	11	3	32	45	12	12	19	57	6	163	4	-	1	1	10	

¹ The Buffalo Standard Metropolitan Statistical Area consists of Erie and Niagara Counties.

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

These surveys, based on a representative sample of establishments, are designed to measure the level of occupational earnings at a particular time. Thus, comparisons made with previous studies may not reflect expected wage movements because of change in the sample composition, and shifts in employment among establishments with different pay levels. Such shifts, for example, could decrease an occupational average, even though most establishments increased wages between periods being compared.

³ All timeworkers.

⁴ Includes data for operators of other machine tools in addition to those shown separately.

⁵ Insufficient data to warrant publication of separate earnings data by method of wage payment; workers are paid predominantly on a time basis.

⁶ Workers were distributed as follows: 4 at \$6.40 to \$6.60; and 2 at \$6.60 to \$6.80.

⁷ Workers were distributed as follows: 2 at \$6.40 to \$6.60; 20 at \$6.80 to \$7; 16 at \$7 to \$7.20; 8 at \$7.60 to \$7.80; and 4 at \$7.80 to \$8.

Table 5. Occupational earnings: Chicago, Ill.¹

(Number and average straight-time hourly earnings² of workers in selected occupations in machinery manufacturing establishments, November 1974)

Occupation	Number of workers	Average hourly earnings, ² \$ 2.80 and under 3.00	Number of workers receiving straight-time hourly earnings of—																												
			\$ 2.80 and under 3.00	\$ 3.00	\$ 3.20	\$ 3.40	\$ 3.60	\$ 3.80	\$ 4.00	\$ 4.20	\$ 4.40	\$ 4.60	\$ 4.80	\$ 5.00	\$ 5.20	\$ 5.40	\$ 5.60	\$ 5.80	\$ 6.00	\$ 6.20	\$ 6.40	\$ 6.60	\$ 6.80	\$ 7.20	\$ 7.60	\$ 8.00	\$ 8.40				
			3.00	3.20	3.40	3.60	3.80	4.00	4.20	4.40	4.60	4.80	5.00	5.20	5.40	5.60	5.80	6.00	6.20	6.40	6.60	6.80	7.20	7.60	8.00	8.40					
ASSEMBLERS, CLASS A —	3,409	\$ 3.35	-	-	-	-	22	21	204	111	158	133	212	171	181	521	226	535	286	239	37	258	23	31	21	1	5	13			
TIME —	2,855	5.19	-	-	-	-	22	21	174	109	158	118	194	149	152	502	226	527	261	213	29	258	23	31	21	1	5	13			
INCENTIVE —	554	6.14	-	-	-	-	-	30	2	-	15	18	22	29	19	-	8	25	26	8	258	23	31	21	-	1	5	13			
ASSEMBLERS, CLASS B —	2,900	4.58	-	-	25	132	191	315	329	189	310	238	137	134	141	267	88	34	33	76	54	65	134	7	-	1	-	1	-		
TIME —	1,948	4.27	-	-	21	101	171	284	296	130	223	167	64	101	62	222	60	-	1	45	-	-	-	-	-	-	-	-	-		
INCENTIVE —	952	5.21	-	-	4	31	20	31	33	59	87	71	73	33	79	45	28	34	32	31	54	65	134	7	-	1	-	-	-		
ASSEMBLERS, CLASS C —	2,891	3.48	127	389	732	735	99	125	170	168	112	87	14	24	3	-	10	4	1	5	29	16	24	7	1	-	-	-	-		
TIME —	2,206	3.38	63	381	462	705	79	65	116	127	88	78	12	20	-	-	6	-	4	6	5	29	16	24	7	1	-	-	-	-	
INCENTIVE —	685	3.83	64	8	270	30	20	60	54	41	24	9	9	4	3	-	4	4	6	5	29	16	24	7	1	-	-	-	-		
CARPENTERS, MAINTENANCE ³ —	74	5.71	-	-	-	-	-	-	-	-	-	11	10	3	6	10	-	6	-	10	4	1	7	-	-	-	-	-	-		
ELECTRICIANS, MAINTENANCE —	468	6.27	-	-	-	-	-	-	-	-	21	-	-	22	21	51	31	23	16	22	7	43	64	88	4	14	14	14	14	14	
TIME —	463	6.27	-	-	-	-	-	-	-	-	21	-	-	29	22	31	51	31	23	14	19	7	43	64	88	4	14	14	14	14	14
INSPECTORS, CLASS A —	1,012	5.51	-	-	-	-	-	-	-	4	28	26	90	30	82	85	100	45	71	70	21	338	14	-	-	1	-	-	-	-	
TIME —	991	5.51	-	-	-	-	-	-	-	4	28	26	90	36	82	86	88	40	68	69	21	338	14	-	-	1	-	-	-	-	
INSPECTORS, CLASS B —	897	5.15	-	-	-	-	4	-	13	11	20	75	113	95	91	95	64	23	138	6	177	-	-	-	1	-	1	-	-		
TIME —	800	5.22	-	-	-	-	4	-	12	-	10	75	73	85	31	94	54	23	138	4	177	-	-	-	1	-	-	-	-		
INSPECTORS, CLASS C —	641	4.63	-	-	-	16	111	91	46	34	34	26	35	7	30	20	6	1	138	5	9	12	19	1	-	-	-	-			
TIME —	494	4.66	-	-	-	16	21	91	46	34	34	25	35	6	27	19	6	-	134	-	-	-	-	-	-	-	-	-			
JANITORS, PORTERS, AND CLEANERS —	858	4.17	-	27	64	13	101	93	115	74	40	97	39	73	5	77	-	37	-	-	3	-	-	-	-	-	-	-			
TIME —	844	4.17	-	27	64	13	101	93	115	64	38	95	39	73	5	77	-	37	-	-	3	-	-	-	-	-	-	-			
LABORERS, MATERIAL HANDLING —	1,162	4.30	-	9	115	27	71	137	116	97	79	105	70	117	6	14	83	116	-	-	-	-	-	-	-	-	-	-			
TIME —	1,065	4.32	-	9	115	27	71	107	96	87	70	102	59	106	4	13	83	116	-	-	-	-	-	-	-	-	-	-			
MACHINE-TOOL OPERATORS, PRODUCTION, CLASS A ⁴ —	5,670	5.71	-	-	-	-	6	11	23	97	103	123	169	511	338	616	517	708	523	511	336	223	255	545	33	8	10	4	-	-	
TIME —	3,741	5.50	-	-	-	-	1	5	7	56	76	90	142	421	246	519	437	607	403	351	175	68	24	109	7	2	1	-	-	-	
INCENTIVE —	1,929	6.10	-	-	-	5	6	16	41	27	33	27	90	98	97	80	101	120	160	161	155	231	436	26	6	10	-	-	-		
AUTOMATIC-LATHE OPERATORS —	434	5.97	-	-	-	-	-	-	-	4	14	9	19	19	24	17	26	28	118	75	14	15	53	3	-	-	-	-	-		
TIME —	296	5.78	-	-	-	-	-	-	-	4	14	9	18	18	18	17	25	26	113	52	-	-	-	-	-	-	-	-	-		
INCENTIVE —	138	5.37	-	-	-	-	-	-	-	4	14	9	18	18	18	17	25	26	113	52	-	-	-	-	-	-	-	-	-		
DRILL-PRESS OPERATORS, RADIAL —	569	5.77	-	-	-	-	-	-	-	6	2	14	15	41	29	91	39	37	89	77	7	16	37	57	-	-	-	-	-		
TIME —	290	5.53	-	-	-	-	-	-	-	2	2	12	14	19	3	77	26	22	5	5	26	-	-	-	-	-	-	-	-	-	
INCENTIVE —	279	6.02	-	-	-	-	-	-	-	4	2	2	1	22	26	14	13	15	39	22	7	16	37	57	2	-	-	-	-	-	
DRILL-PRESS OPERATORS, SINGLE OR MULTIPLE-SPINDLE —	234	5.35	-	-	-	5	7	5	18	6	9	12	26	27	15	20	4	13	16	6	9	23	13	-	-	-	-	-	-		
TIME —	107	5.08	-	-	-	1	3	5	6	2	5	4	19	25	6	18	2	10	-	-	-	-	-	-	-	-	-	-	-		
INCENTIVE —	127	5.57	-	-	-	4	4	-	12	4	4	19	7	7	2	2	5	6	6	9	23	13	-	-	-	-	-	-	-	-	
ENGINE-LATHE OPERATORS —	631	5.35	-	-	-	-	-	-	1	24	27	39	104	21	80	83	179	22	10	27	1	3	19	-	-	-	-	-	-		
TIME —	572	5.30	-	-	-	-	-	-	-	23	27	39	102	13	72	77	174	14	7	24	-	-	-	-	-	-	-	-	-		
INCENTIVE —	59	5.83	-	-	-	-	-	-	-	1	1	-	2	8	8	6	5	6	3	3	1	3	19	-	-	-	-	-	-		
GRINDING-MACHINE OPERATORS —	1,142	5.64	-	-	-	2	12	55	28	20	40	21	53	39	83	68	138	74	39	41	40	27	53	5	109	-	-	-	-	-	
TIME —	725	5.43	-	-	-	2	-	31	12	12	35	188	36	24	79	48	129	42	40	10	19	13	7	2	1	1	1	1	1		
INCENTIVE —	417	6.01	-	-	-	-	12	24	16	8	10	13	23	15	4	20	9	32	49	40	31	67	62	11	4	6	1	1	1		
MILLING-MACHINE OPERATORS —	427	5.76	-	-	-	1	-	4	10	2	10	12	27	30	31	35	70	39	38	17	15	9	53	2	-	-	-	-	-		
TIME —	245	5.55	-	-	-	-	-	-	10	1	6	11	9	22	19	27	61	29	38	5	7	-	-	-	-	-	-	-	-		
INCENTIVE —	182	6.05	-	-	-	1	-	4	-	1	4	1	18	8	13	8	9	13	20	12	8	9	52	2	-	-	-	-	-		
SCREW-MACHINE OPERATORS, AUTOMATIC —	410	6.22	-	-	-	-	-	-	2	-	4	-	-	14	10	2	30	17	72	5	27	53	5	109	-	-	-	-	-	-	
TIME —	319	6.24	-	-	-	-	-	-	2	-	2	-	-	14	-	1	26	13	62	56	14	49	-	84	-	-	-	-	-	-	
INCENTIVE —	91	6.13	-	-	-	-	-	-	-	2	-	2	-	-	14	-	1	4	4	10	9	13	4	5	25	-	-	-	-	-	-
TURRET-LATHE OPERATORS, HAND (INCLUDING HAND SCREW MACH) —	416	5.70	-	-	-	-	-	-	-	8	2	23	9	39	69	57	77	40	37	10	12	9	23	4	2	2	2	2	2		
TIME —	241	5.45	-	-	-	-	-	-	-	7	1	21	3	21	52	35	69	26	17	2	-	-	-	-	-	-	-	-	-	-	
INCENTIVE —	175	6.05	-	-	-	-	-	-	-	1	1	2	6	18	8	22	17	18	20	12	9	23	4	2	2	2	2	2			

See footnotes at end of table.

Table 5. Occupational earnings: Chicago, Ill.¹—Continued

(Number and average straight-time hourly earnings² of workers in selected occupations in machinery manufacturing establishments, November 1974)

Occupation	Number of workers	Average hourly earnings ²	Number of workers receiving straight-time hourly earnings of—																															
			\$ 2.80 and under	\$ 3.00	\$ 3.20	\$ 3.40	\$ 3.60	\$ 3.80	\$ 4.00	\$ 4.20	\$ 4.40	\$ 4.60	\$ 4.80	\$ 5.00	\$ 5.20	\$ 5.40	\$ 5.60	\$ 5.80	\$ 6.00	\$ 6.20	\$ 6.40	\$ 6.60	\$ 6.80	\$ 7.00	\$ 7.20	\$ 7.40	\$ 7.60	\$ 7.80	\$ 8.00	\$ 8.40 and over				
			3.00	3.20	3.40	3.60	3.80	4.00	4.20	4.40	4.60	4.80	5.00	5.20	5.40	5.60	5.80	6.00	6.20	6.40	6.60	6.80	7.00	7.20	7.40	7.60	7.80	8.00	8.40					
MACHINE-TOOL OPERATORS, PRODUCTION, CLASS H ⁴	3,379	\$ 5.02	3	6	9	41	65	84	200	273	221	315	256	167	28d	172	329	321	185	83	84	124	115	35	2	2	2	2	2					
TIME	2,355	4.79	3	6	9	40	63	76	170	219	196	194	219	112	197	130	296	285	127	6	4	-	2	1	-	-	-	-	-					
INCENTIVE	1,024	5.56	-	-	-	1	2	8	30	54	25	121	31	55	91	42	33	36	58	77	80	124	116	34	2	2	2	2	2					
AUTOMATIC-LATHE OPERATORS	108	5.48	-	-	-	-	-	-	-	4	-	2	3	28	5	-	13	16	21	3	3	4	6	-	-	-	-	-	-					
TIME	85	5.34	-	-	-	-	-	-	-	4	-	2	28	2	-	12	16	21	-	-	-	-	-	-	-	-	-	-	-					
INCENTIVE	23	6.00	-	-	-	-	-	-	-	2	1	-	3	-	1	-	3	3	4	6	-	-	-	-	-	-	-	-	-					
DRILL-PRESS OPERATORS, SINGLE-OR MULTIPLE-SPINDLE	434	5.24	-	-	-	3	14	8	31	29	24	16	31	9	14	48	40	32	26	15	25	33	30	8	1	-	-	-	-					
TIME	235	4.66	-	-	-	3	14	8	31	21	23	12	31	-	2	34	22	25	9	-	-	-	-	-	-	-	-	-	-	-				
INCENTIVE	199	5.92	-	-	-	-	-	-	-	8	1	4	-	9	12	14	18	7	17	15	25	33	30	9	1	-	-	-	-	-				
ENGINE-LATHE OPERATORS	142	4.75	-	-	-	-	-	-	-	10	-	3	2	18	4	12	6	8	13	-	-	2	2	-	-	-	-	-	-	-				
TIME	87	4.99	-	-	-	-	-	-	-	8	12	12	12	-	4	12	6	5	13	-	-	-	-	-	-	-	-	-	-	-				
INCENTIVE	55	4.36	-	-	-	-	-	-	-	6	20	1	10	7	21	9	17	29	17	13	17	26	21	5	-	-	-	-	-	-				
GRINDING-MACHINE OPERATORS	912	4.68	-	-	3	37	35	65	40	38	88	170	92	52	63	11	69	34	47	17	6	10	22	2	1	-	-	-	-	-				
TIME	770	4.55	-	-	3	37	34	65	40	36	86	123	84	56	59	5	69	27	37	6	2	-	1	-	-	-	-	-	-	-				
INCENTIVE	142	5.39	-	-	-	-	1	-	-	2	2	47	6	4	6	-	7	10	11	4	10	21	2	1	-	-	-	-	-	-	-			
MILLING-MACHINE OPERATORS	421	4.89	3	6	6	1	3	1	81	70	21	14	16	22	29	9	17	29	17	13	17	26	21	5	-	-	-	-	-	-				
TIME	201	4.18	3	6	6	-	3	1	75	50	20	4	3	1	4	-	6	17	-	1	-	1	-	-	-	-	-	-	-	-				
INCENTIVE	220	5.53	-	-	-	1	-	-	6	20	1	10	7	21	9	11	12	17	13	16	26	20	5	-	-	-	-	-	-	-	-			
SCREW-MACHINE OPERATORS, AUTOMATIC	105	5.14	-	-	-	-	-	-	-	4	4	4	4	7	45	31	2	3	-	-	1	2	-	1	-	-	-	-	-	-	-			
TIME	61	5.07	-	-	-	-	-	-	-	4	4	4	4	7	16	21	2	3	-	-	-	-	-	-	-	-	-	-	-	-	-			
TURRET-LATHE OPERATORS, HAND (INCLUDING HAND SCREW MACH.)	237	4.91	-	-	-	-	-	13	-	12	31	11	53	17	9	16	5	3	19	18	17	6	12	1	1	-	-	2	-	-				
TIME	74	4.62	-	-	-	-	-	12	-	-	23	2	3	7	5	4	3	6	8	-	1	-	-	-	-	-	-	-	-	-	-			
INCENTIVE	163	5.04	-	-	-	-	-	1	-	12	8	9	50	16	9	11	1	-	4	14	19	22	22	5	6	-	-	2	-	-				
MACHINE-TOOL OPERATORS, PRODUCTION, CLASS C ⁴	2,212	4.49	30	18	76	87	116	237	84	188	121	231	108	611	25	114	4	17	25	22	5	6	-	2	-	-	-	-	-	-	-			
TIME	1,689	4.46	30	18	48	64	91	163	61	134	87	202	70	24	582	3	92	-	3	3	3	-	-	-	-	-	-	-	-	-	-			
INCENTIVE	523	4.60	-	-	28	23	25	74	23	54	34	29	30	36	29	22	4	14	19	22	22	5	6	-	-	-	-	-	-	-	-			
AUTOMATIC-LATHE OPERATORS	52	3.71	-	-	-	-	7	38	-	4	-	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
DRILL-PRESS OPERATORS, SINGLE-OR MULTIPLE-SPINDLE	449	4.34	-	-	58	30	34	11	38	37	26	95	24	15	6	8	5	-	8	10	17	20	4	3	-	-	-	-	-	-	-			
TIME	183	4.01	-	-	30	7	14	3	20	10	13	82	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
INCENTIVE	266	4.57	-	-	28	23	20	8	18	27	13	13	22	13	6	8	5	-	8	10	17	20	4	3	-	-	-	-	-	-	-			
ENGINE-LATHE OPERATORS	57	3.95	3	3	4	-	10	10	-	3	1	3	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
TIME	57	3.95	3	3	4	-	10	10	-	3	1	3	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
GRINDING-MACHINE OPERATORS	510	4.30	21	15	1	33	35	65	26	31	33	63	19	18	123	4	5	3	-	5	5	-	1	-	-	-	-	-	-	-	-			
TIME	453	4.18	21	15	1	33	34	65	26	23	30	55	10	13	123	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
INCENTIVE	57	5.23	-	-	-	-	1	-	8	3	8	3	8	3	5	3	3	5	3	-	5	5	-	1	2	-	2	-	-	-	-	-		
MILLING-MACHINE OPERATORS	320	4.66	6	-	12	3	17	56	8	12	9	5	4	1	8	8	89	3	83	-	6	-	-	-	-	-	-	-	-	-	-			
TIME	265	4.61	6	-	12	3	17	56	3	3	5	9	4	1	8	9	3	9	3	-	6	-	-	-	-	-	-	-	-	-	-			
INCENTIVE	55	4.89	-	-	-	-	-	-	-	5	9	4	1	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
MACHINE-TOOL OPERATORS, PRODUCTION NUMERICALLY CONTROLLED ⁴	468	5.59	-	-	-	-	-	-	-	5	8	5	2	22	68	7	89	35	37	51	15	102	4	1	14	4	1	-	-	-	-	-		
TIME	391	5.55	-	-	-	-	-	-	-	5	4	2	2	12	64	5	85	28	34	50	8	93	-	-	1	1	4	1	-	-	-	-	-	
INCENTIVE	77	5.83	-	-	-	-	-	-	-	-	4	3	1	10	4	2	4	7	3	1	7	9	4	1	13	4	1	1	2	-	-	-	-	-
AUTOMATIC-LATHE OPERATORS ⁵	33	6.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
DRILL-PRESS OPERATORS, RADIAL	29	5.48	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 5. Occupational earnings: Chicago, Ill.¹—Continued

(Number and average straight-time hourly earnings² of workers in selected occupations in machinery manufacturing establishments, November 1974)

Occupation	Number of workers	Average hourly earnings ²	Number of workers receiving straight-time hourly earnings of—																															
			\$ 2.80 and under	\$ 2.80 under \$ 3.00	\$ 3.00	\$ 3.20	\$ 3.40	\$ 3.60	\$ 3.80	\$ 4.00	\$ 4.20	\$ 4.40	\$ 4.60	\$ 4.80	\$ 5.00	\$ 5.20	\$ 5.40	\$ 5.60	\$ 5.80	\$ 6.00	\$ 6.20	\$ 6.40	\$ 6.60	\$ 6.80	\$ 7.00	\$ 7.20	\$ 7.40	\$ 7.60	\$ 7.80	\$ 8.00	\$ 8.40 and over			
MACHINE-TOOL OPERATORS, TOOLROOM (ONE TYPE OF MACHINE) ³	1,276	\$ 7.06	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	100	133	117			
DRILL-PRESS OPERATORS, RADIAL	42	\$ 5.81	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
ENGINE-LATHE OPERATORS	178	\$ 6.81	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
GRINDING-MACHINE OPERATORS	622	\$ 7.11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	85	64	94			
MILLING-MACHINE OPERATORS	98	\$ 6.71	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
MACHINE-TOOL OPERATORS, TOOLROOM (MORE THAN ONE TYPE OF MACHINE)	674	\$ 6.20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
TIME	641	\$ 6.24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
MACHINISTS, MAINTENANCE ³	215	\$ 5.82	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
MACHINISTS, PRODUCTION	341	\$ 5.65	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
TIME	303	\$ 5.66	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
INCENTIVE	38	\$ 5.59	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
MECHANICS, MAINTENANCE	404	\$ 6.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
TIME	397	\$ 6.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
POLISHERS AND BUFFERS, METAL	186	\$ 5.15	-	-	-	-	-	70	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
TIME	50	\$ 6.09	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
INCENTIVE	136	\$ 4.81	-	-	-	-	70	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
POLISHING- AND BUFFING-MACHINE OPERATORS	352	\$ 4.72	-	-	21	-	-	6	1	5	4	40	217	-	11	-	17	-	-	9	8	11	-	2	-	-	-	-	-	-				
INCENTIVE	65	\$ 5.19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
PUNCH-PRESS OPERATORS, CLASS A	237	\$ 5.12	-	-	-	-	-	5	3	3	6	30	35	35	4	12	26	8	12	16	19	7	2	5	5	4	-	-	-	-	-			
TIME	209	\$ 4.96	-	-	-	-	-	5	3	3	6	29	34	33	3	11	25	7	12	16	19	3	-	-	-	-	-	-	-	-	-			
INCENTIVE	28	\$ 6.27	-	-	-	-	-	-	-	-	-	-	1	1	1	1	1	1	1	1	4	2	5	5	4	-	-	-	-	-				
PUNCH-PRESS OPERATORS, CLASS B	973	\$ 4.54	-	11	21	42	108	168	66	41	45	107	60	79	21	19	27	38	1	6	6	17	11	22	-	21	-	21	-	-				
TIME	508	\$ 3.86	-	11	21	37	108	147	30	31	31	39	22	4	3	7	5	7	6	6	6	6	17	11	22	-	21	-	21	-	-			
INCENTIVE	465	\$ 5.27	-	-	-	5	-	21	36	10	14	68	44	10	18	12	22	31	5	6	6	6	17	11	22	-	21	-	21	-	-			
SET-UP MEN, MACHINE TOOLS	698	\$ 5.60	-	-	-	-	-	1	-	-	6	25	18	65	121	60	74	82	55	62	6	26	13	73	14	2	1	-	-	-	-			
TIME	403	\$ 5.67	-	-	-	-	-	-	-	-	2	1	7	51	28	35	7	56	24	60	8	61	-	-	-	-	-	-	-	-	-			
TOOL AND DIEMAKERS (JOBMING) ³	2,091	\$ 7.58	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15	27	39	73	257	495	555	499	81	-				
TOOL AND DIEMAKERS (OTHER THAN JOBMING)	549	\$ 6.65	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	16	29	36	14	8	147	26	43	75	124	14	15			
TIME	522	\$ 6.67	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	16	28	34	13	6	126	26	43	75	124	14	15			
TOOL CLERKS	426	\$ 4.08	-	2	-	4	23	33	1	59	52	42	41	34	12	20	62	1	3	37	-	-	-	-	-	-	-	-	-	-	-			
WELDERS, HAND, CLASS A	2,128	\$ 5.89	-	-	-	-	-	-	-	-	-	21	42	19	63	113	67	189	275	131	652	33	10	32	95	274	102	5	4	-	-			
TIME	405	\$ 4.68	-	2	-	4	23	33	1	59	52	32	35	29	12	20	62	1	3	37	-	-	-	-	-	-	-	-	-	-	-			
INCENTIVE	1,780	\$ 5.77	-	-	-	-	-	-	-	-	-	21	42	11	33	90	51	175	274	128	646	12	-	18	78	199	-	-	-	-	-			
WELDERS, HAND, CLASS B	348	\$ 6.46	-	-	-	33	24	28	40	33	51	71	56	59	61	33	27	40	-	12	26	5	32	66	73	42	21	-	-	-				
TIME	515	\$ 5.44	-	-	-	33	24	28	40	33	51	71	56	59	61	23	7	-	9	23	-	3	3	5	29	86	73	42	21	-	-			
INCENTIVE	332	\$ 6.90	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	20	40	-	3	3	5	29	86	73	42	21	-	-			
WELDEKS, MACHINE, CLASS A	172	\$ 5.31	-	-	-	-	-	-	-	-	-	1	4	13	13	43	4	-	15	14	61	-	1	-	3	-	-	-	-	-	-	-		
TIME	163	\$ 5.28	-	-	-	-	-	-	-	-	-	1	4	13	14	43	-	-	15	14	61	-	-	-	-	-	-	-	-	-	-	-		
INCENTIVE	9	\$ 5.82	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
WELDEKS, MACHINE, CLASS B	345	\$ 4.86	-	1	2	-	3	18	52	26	50	30	14	10	5	1	20	-	10	3	4	13	2	36	-	-	-	-	-	-	-	-	-	
TIME	203	\$ 4.26	-	1	2	-	3	18	52	26	30	30	-	-	-	-	40	1	-	20	-	10	3	4	13	2	36	-	-	-	-	-	-	
INCENTIVE	142	\$ 5.71	-	-	-	-	-	-	-	-	-	20	-	14	10	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

¹ The Chicago Standard Metropolitan Statistical Area consists of Cook, DuPage, Kane, Lake, McHenry, and Will Counties.

² Excludes premium pay for overtime and for work on weekends, holidays, and late shifts. These surveys, based on a representative sample of establishments are designed to measure the level of occupational earnings at a particular time. Thus, comparisons made with previous studies may not reflect wage movements because of change in the sample composition, and shifts in employment among establishments with different pay levels. Such shifts, for example, could decrease an occupa-

tional average, even though most establishments increased wages between periods being compared.

³ All timeworkers.

⁴ Includes data for operators of other machine tools in addition to those shown separately. ⁵ Insufficient data to warrant publication of separate earnings data by method of wage payment; workers are paid predominantly on an incentive basis.

⁶ Workers were at \$ 8.40 to \$ 8.80.

Table 6. Occupational earnings: Cleveland, Ohio¹

(Number and average straight-time hourly earnings² of workers in selected occupations in machinery manufacturing establishments, February 1975)

Occupation	Number of workers	Average hourly earnings ² \$ 3.00 3.20 3.40 3.60 3.80 4.00 4.20 4.40 4.60 4.80 5.00 5.20 5.40 5.60 5.80 6.00 6.20 6.40 6.60 6.80 7.00 7.20 7.40 7.60 8.00 and over	Number of workers receiving straight-time hourly earnings of—																									
			\$ 3.00 3.20 3.40 3.60 3.80 4.00 4.20 4.40 4.60 4.80 5.00 5.20 5.40 5.60 5.80 6.00 6.20 6.40 6.60 6.80 7.00 7.20 7.40 7.60 8.00																									
ASSEMBLERS, CLASS A -----	1,598	\$ 5.57	-	-	-	-	-	-	39	26	26	264	214	100	276	121	215	26	110	8	25	20	45	6	66	11	-	
TIME -----	1,234	5.35	-	-	-	-	-	-	39	26	25	246	190	59	248	97	198	6	100	-	-	-	-	-	-	-	-	
INCENTIVE -----	364	6.34	-	-	-	-	-	-	-	-	1	18	24	41	28	24	17	20	10	8	25	20	45	6	66	11	-	
ASSEMBLERS, CLASS B -----	661	4.95	-	-	-	2	-	16	38	57	147	95	15	17	127	90	9	5	11	1	2	9	10	2	8	-	-	
TIME -----	515	4.74	-	-	-	2	-	16	38	57	145	89	7	10	67	83	1	-	-	-	-	-	-	-	-	-	-	
INCENTIVE -----	146	5.67	-	-	-	-	-	-	-	2	6	8	7	60	7	8	5	11	1	2	9	10	2	8	-	-	-	
ASSEMBLERS, CLASS C -----	320	4.09	16	12	24	24	78	10	38	37	5	16	3	28	15	3	2	4	1	1	2	-	-	1	-	-	-	
TIME -----	292	3.97	16	12	24	24	78	10	34	37	4	15	-	25	13	-	-	-	-	-	-	-	-	-	-	-	-	
CARPENTERS, MAINTENANCE -----	43	5.37	-	-	-	-	-	-	-	16	-	1	-	2	-	2	14	4	3	-	-	-	-	-	-	-	-	
TIME -----	42	5.32	-	-	-	-	-	-	-	-	16	-	1	-	2	-	2	14	4	3	-	-	-	-	-	-	-	
ELECTRICIANS, MAINTENANCE -----	201	6.03	-	-	-	-	-	-	-	-	-	34	7	9	9	4	15	27	26	36	10	-	-	-	24	-	-	
TIME -----	189	5.96	-	-	-	-	-	-	-	-	34	7	9	9	4	15	27	26	35	9	-	-	14	-	-	-	-	
INSPECTORS, CLASS A -----	509	5.60	-	-	15	-	-	-	-	1	5	13	48	45	9	92	49	119	49	44	5	9	2	4	-	-	-	
TIME -----	493	5.56	-	-	15	-	-	-	-	1	5	13	46	45	9	92	49	119	49	44	4	-	-	-	-	-	-	
INSPECTORS, CLASS B -----	223	5.26	-	-	-	-	-	-	2	6	44	5	25	9	35	52	28	1	1	2	4	5	-	-	-	1	3	-
TIME -----	202	5.13	-	-	-	-	-	-	2	6	43	5	25	6	35	52	28	-	-	-	-	-	-	-	-	-	-	
INSPECTORS, CLASS C -----	185	4.84	2	19	4	12	4	-	-	9	6	2	90	5	9	5	2	1	4	4	5	2	-	-	-	-	-	
TIME -----	155	4.61	2	19	4	12	4	-	-	9	6	-	89	3	7	-	-	-	-	-	-	-	-	-	-	-	-	
JANITORS, PORTERS, AND CLEANERS -----	373	4.33	24	3	24	34	26	16	32	24	29	33	51	21	34	-	5	13	3	1	-	-	-	-	-	-	-	
TIME -----	351	4.23	24	3	24	34	26	16	22	24	29	33	51	21	34	-	-	-	-	-	-	-	-	-	-	-		
LABORERS, MATERIAL HANDLING -----	552	4.49	-	30	47	38	68	7	17	35	42	37	20	119	35	2	-	24	28	1	1	-	-	-	-	-		
TIME -----	500	4.38	-	30	47	38	68	7	17	30	34	30	20	118	35	2	-	24	-	-	-	-	-	-	-	-		
MACHINE-TOOL OPERATORS, PRODUCTION, CLASS A ³ -----	3,347	5.68	-	-	-	15	2	2	39	134	147	236	264	327	220	141	472	395	185	73	74	86	96	187	122	41	46	43
TIME -----	2,246	5.26	-	-	-	15	2	2	38	109	142	223	234	287	178	109	431	326	134	16	-	-	-	-	-	-	-	-
INCENTIVE -----	1,181	6.55	-	-	-	-	-	-	1	25	5	13	30	40	42	32	41	69	51	57	74	86	96	187	122	41	46	43
AUTOMATIC-LATHE OPERATORS -----	142	5.75	-	-	-	-	-	-	-	-	16	2	-	12	7	2	6	36	52	-	-	-	-	3	-	2	4	
TIME -----	133	5.62	-	-	-	-	-	-	-	-	16	2	-	12	7	2	6	36	52	-	-	-	-	-	-	-	-	
DRILL-PRESS OPERATORS, RADIAL -----	298	5.78	-	-	-	-	-	-	-	9	29	27	14	20	5	5	88	19	7	1	7	7	5	25	8	2	12	8
TIME -----	199	5.26	-	-	-	-	-	-	8	28	26	13	14	3	3	88	16	-	-	-	-	-	-	-	-	-	-	
INCENTIVE -----	99	6.84	-	-	-	-	-	-	1	1	1	1	1	2	2	-	3	7	1	7	7	5	25	8	2	12	8	
DRILL-PRESS OPERATORS, SINGLE- OR MULTIPLE-SPINDLE -----	93	6.26	-	-	-	-	-	-	-	7	2	-	4	2	3	6	8	5	12	7	7	5	16	8	1	-	-	
TIME -----	15	4.93	-	-	-	-	-	-	-	6	2	-	4	-	3	3	8	5	12	7	7	5	16	8	1	-	-	
INCENTIVE -----	78	6.51	-	-	-	-	-	-	-	1	-	-	-	-	2	3	3	8	5	12	7	7	5	16	8	1	-	-
ENGINE-LATHE OPERATORS -----	253	5.65	-	-	-	-	-	-	2	-	9	-	8	39	52	16	5	15	44	7	3	4	8	10	10	18	3	-
TIME -----	182	5.23	-	-	-	-	-	-	2	-	8	-	8	38	52	14	4	14	40	2	-	-	-	-	-	-	-	-
INCENTIVE -----	71	6.74	-	-	-	-	-	-	-	1	-	-	1	1	1	2	1	1	4	5	3	4	8	10	10	18	3	-
GRINDING-MACHINE OPERATORS -----	705	5.69	-	-	15	-	-	-	2	40	18	53	50	75	45	35	98	70	17	18	14	30	20	35	33	19	10	
TIME -----	438	5.12	-	-	15	-	-	-	2	40	18	50	46	69	38	26	82	48	4	-	-	-	-	-	-	-	-	
INCENTIVE -----	267	6.63	-	-	-	-	-	-	-	-	3	4	6	7	9	16	22	13	18	14	30	20	35	33	19	10		
MILLING-MACHINE OPERATORS -----	430	5.54	-	-	-	-	-	-	2	-	27	15	23	54	30	32	34	39	36	14	10	7	15	18	22	19	4	5
TIME -----	237	5.05	-	-	-	-	-	-	2	-	14	12	18	44	20	20	31	33	19	-	-	-	-	-	-	-	-	-
INCENTIVE -----	193	6.15	-	-	-	-	-	-	-	13	3	5	10	10	12	3	6	17	14	10	7	15	18	22	19	4	5	
SCREW-MACHINE OPERATORS, AUTOMATIC -----	184	5.80	-	-	-	-	-	-	-	6	12	6	2	-	1	90	45	-	-	-	-	2	18	-	-	1	1	
TIME -----	162	5.62	-	-	-	-	-	-	-	6	12	6	2	-	1	90	45	-	-	-	-	-	-	-	-	-	-	
TURRET-LATHE OPERATORS, HAND (INCLUDING HAND SCREW MACH) -----	539	5.66	-	-	-	-	-	-	6	23	24	81	52	27	21	21	77	70	3	10	14	12	18	45	9	4	8	14
TIME -----	362	5.15	-	-	-	-	-	-	6	20	24	81	49	22	14	18	69	59	-	-	-	-	-	-	-	-	-	
INCENTIVE -----	177	6.70	-	-	-	-	-	-	3	-	-	3	5	7	3	8	11	3	10	14	12	18	45	9	4	8	14	

See footnotes at end of table.

Table 6. Occupational earnings: Cleveland, Ohio¹—Continued

(Number and average straight-time hourly earnings² of workers in selected occupations in machinery manufacturing establishments, February 1975)

Occupation	Number of workers	Average hourly earnings ²	Number of workers receiving straight-time hourly earnings of—																											
			\$ 3.00 Under \$ 3.00	\$ 3.20	\$ 3.40	\$ 3.60	\$ 3.80	\$ 4.00	\$ 4.20	\$ 4.40	\$ 4.60	\$ 4.80	\$ 5.00	\$ 5.20	\$ 5.40	\$ 5.60	\$ 5.80	\$ 6.00	\$ 6.20	\$ 6.40	\$ 6.60	\$ 6.80	\$ 7.00	\$ 7.20	\$ 7.40	\$ 7.60	\$ 8.00	and over		
SELECTED OCCUPATIONS—CONTINUED																														
MACHINE-TOOL OPERATORS, PRODUCTION, CLASS B ³	1,330	\$ 4.75	8	60	32	54	81	47	138	91	88	105	33	151	106	190	18	18	21	12	17	13	12	9	13	3	6	4		
TIME	1,133	4.51	8	60	32	54	81	47	138	81	83	96	30	143	102	172	3	3	-	-	-	-	-	-	-	-	-	-		
INCENTIVE	1,197	6.12	-	-	-	-	-	-	-	10	5	9	3	8	4	18	15	15	21	12	17	13	12	9	13	3	6	4		
AUTOMATIC-LATHE OPERATORS ⁴	12	4.66	-	-	-	2	-	-	-	-	6	-	-	-	-	-	2	1	-	-	-	-	-	-	-	-	-	-		
DRILL-PRESS OPERATORS, RADIAL	100	5.15	-	-	-	-	-	-	4	6	8	8	-	33	21	9	3	-	2	1	1	1	-	-	-	-	-	1		
TIME	89	4.99	-	-	-	-	-	-	4	6	8	8	-	33	21	9	-	-	-	-	-	-	-	-	-	-	-	-		
DRILL-PRESS OPERATORS, SINGLE-OR MULTIPLE-SPINDLE	180	5.31	-	-	-	2	6	3	3	12	1	4	2	58	31	10	11	5	7	8	5	2	2	1	3	1	2	1		
TIME	109	4.92	-	-	-	2	6	3	3	10	-	-	-	53	28	2	2	-	-	-	-	-	-	-	-	-	-	-		
ENGINE-LATHE OPERATORS	80	5.22	-	-	-	-	-	-	4	8	4	4	4	4	11	14	11	1	1	1	2	1	-	6	-	-	-	-		
TIME	57	4.79	-	-	-	-	-	-	4	8	4	4	4	4	11	13	5	-	-	-	-	-	-	-	-	-	-	-		
GRINDING-MACHINE OPERATORS	302	4.81	8	-	15	12	14	14	35	44	11	5	7	6	4	89	1	7	6	2	5	3	4	2	2	2	2			
TIME	264	4.55	8	-	15	12	14	14	35	44	11	5	7	6	4	89	-	-	-	-	-	-	-	-	-	-	-			
MILLING-MACHINE OPERATORS	137	4.94	-	-	-	4	10	10	11	5	21	15	3	16	14	9	-	-	-	1	4	4	2	3	1	-	1	3		
TIME	118	4.58	-	-	-	4	10	10	11	5	21	15	3	16	14	9	-	-	-	-	-	-	-	-	-	-	-	-		
TURRET-LATHE OPERATORS, HAND (INCLUDING HAND SCREW MACH)	214	4.48	-	-	2	34	21	12	29	5	25	12	5	11	8	44	1	-	5	7	-	-	-	-	-	-	-	-		
TIME	192	4.40	-	-	2	34	21	12	29	-	24	8	4	10	8	40	-	-	-	-	-	-	-	-	-	-	-	-		
MACHINE-TOOL OPERATORS, PRODUCTION, CLASS C	369	3.84	544	4	40	20	52	96	56	8	-	-	6	-	34	5	1	-	2	-	1	-	-	-	-	-	-	-	-	
TIME	358	3.78	44	4	40	20	52	96	56	8	-	-	4	-	34	-	1	-	-	-	-	-	-	-	-	-	-	-	-	
INCENTIVE	11	5.57	-	-	-	-	-	-	-	-	-	-	2	-	-	5	1	-	2	-	1	-	-	-	-	-	-	-	-	
DRILL-PRESS OPERATORS, SINGLE-OR MULTIPLE-SPINDLE	20	3.66	2	2	2	-	2	8	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
MILLING-MACHINE OPERATORS	31	4.16	22	-	-	4	8	10	-	-	-	-	-	-	-	3	1	-	2	-	1	-	-	-	-	-	-	-	-	
TIME	24	3.67	2	-	-	4	8	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MACHINE-TOOL OPERATORS, PRODUCTION NUMERICALLY CONTROLLED ³	254	5.68	-	-	-	-	-	-	5	2	9	20	11	19	16	20	125	7	1	3	3	1	8	-	4	-	4	-	-	
TIME	219	5.64	-	-	-	-	-	-	5	1	9	13	8	18	16	18	121	4	2	3	3	1	2	6	-	4	-	4	-	-
INCENTIVE	35	5.94	-	-	-	-	-	-	-	1	7	3	1	-	2	4	3	1	3	3	1	1	1	-	-	-	-	-	-	
AUTOMATIC-LATHE OPERATORS ³	45	5.46	-	-	-	-	-	-	-	2	-	14	4	-	4	4	12	1	1	-	-	-	-	-	-	-	-	-	-	
TIME	33	5.40	-	-	-	-	-	-	-	1	-	9	4	-	4	4	11	-	-	-	-	-	-	-	-	-	-	-	-	
DRILL-PRESS OPERATORS, SINGLE-OR MULTIPLE-SPINDLE	81	5.59	-	-	-	-	-	-	-	6	1	1	15	9	10	33	6	-	-	-	-	-	-	-	-	-	-	-	-	
TIME	75	5.59	-	-	-	-	-	-	-	6	1	14	9	10	32	4	-	-	-	-	-	-	-	-	-	-	-	-	-	
MACHINE-TOOL OPERATORS, TOOLROOM (ONE TYPE OF MACHINE) ³	475	5.80	-	-	-	-	-	-	-	15	14	12	25	57	17	36	39	63	64	37	45	-	7	5	18	15	6	-		
TIME	425	5.62	-	-	-	-	-	-	-	15	14	12	25	57	17	36	39	63	64	35	44	-	4	5	-	-	1	-	-	
DRILL-PRESS OPERATORS, RADIAL ³	30	5.39	-	-	-	-	-	-	-	2	2	2	2	-	2	-	6	2	1	-	-	-	-	-	-	-	-	-	-	
TIME	28	5.30	-	-	-	-	-	-	-	2	2	2	2	-	2	-	6	2	1	-	-	-	-	-	-	-	-	-	-	
ENGINE-LATHE OPERATORS	47	6.17	-	-	-	-	-	-	-	-	1	-	2	5	6	12	9	-	-	-	-	-	3	2	-	2	6	1	-	
TIME	37	5.84	-	-	-	-	-	-	-	-	1	-	2	5	6	12	9	-	-	-	-	-	-	-	-	-	-	-	-	
GRINDING-MACHINE OPERATORS	189	5.62	-	-	-	-	-	-	-	15	12	4	7	29	-	25	14	16	23	21	4	-	3	2	6	4	4	-		
TIME	172	5.44	-	-	-	-	-	-	-	15	12	4	7	29	-	25	14	16	23	21	4	-	2	-	-	-	-	-		
MILLING-MACHINE OPERATORS	72	5.99	-	-	-	-	-	-	-	-	-	4	2	6	4	12	19	7	5	-	-	-	1	8	3	-	-	-	-	
TIME	58	5.69	-	-	-	-	-	-	-	-	-	4	2	6	4	12	19	7	4	-	-	-	-	-	-	-	-	-	-	

See footnotes at end of table.

Table 6. Occupational earnings: Cleveland, Ohio¹—Continued

(Number and average straight-time hourly earnings² of workers in selected occupations in machinery manufacturing establishments, February 1975)

Occupation	Number of workers	Average hourly earnings ²	Number of workers receiving straight-time hourly earnings of—																													
			\$ 3.00 and under	\$ 3.20	\$ 3.40	\$ 3.60	\$ 3.80	\$ 4.00	\$ 4.20	\$ 4.40	\$ 4.60	\$ 4.80	\$ 5.00	\$ 5.20	\$ 5.40	\$ 5.60	\$ 5.80	\$ 6.00	\$ 6.20	\$ 6.40	\$ 6.60	\$ 6.80	\$ 7.00	\$ 7.20	\$ 7.40	\$ 7.60	\$ 8.00					
			3.20	3.40	3.60	3.80	4.00	4.20	4.40	4.60	4.80	5.00	5.20	5.40	5.60	5.80	6.00	6.20	6.40	6.60	6.80	7.00	7.20	7.40	7.60	8.00						
MACHINE-TOOL OPERATORS, TOOLROOM (MORE THAN ONE TYPE OF MACHINE) —	118	\$ 5.97	-	-	-	-	-	-	-	-	-	6	2	8	12	12	6	15	22	5	11	6	-	3	3	5	2	-				
TIME -----	93	5.78	-	-	-	-	-	-	-	-	-	6	2	8	10	10	6	13	20	5	11	-	-	2	4	1	-	-				
MACHINISTS, PRODUCTION ⁴ -----	180	5.73	-	-	-	-	-	-	-	-	-	2	18	2	46	32	22	11	44	35	2	2	-	5	4	1	-	-				
MECHANICS, MAINTENANCE -----	234	5.89	-	-	-	-	-	-	-	-	-	2	2	37	7	-	45	12	11	44	6	29	14	1	1	19	-	2				
TIME -----	212	5.82	-	-	-	-	-	-	-	-	-	2	2	36	6	-	42	9	11	42	6	29	13	-	2	8	7	1	1			
POLISHERS AND BUFFERS, METAL -----	62	6.11	-	-	-	-	-	-	-	-	-	-	-	-	2	13	13	3	5	-	-	-	2	4	4	-	2	5	-			
TIME -----	42	5.71	-	-	-	-	-	-	-	-	-	-	-	-	2	13	12	2	5	-	-	-	2	4	3	1	1	2	5			
INCENTIVE -----	20	6.97	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-	2	4	3	1	1	2	5			
POLISHING- AND BUFFING-MACHINE OPERATORS -----	94	5.17	-	-	-	4	-	-	4	-	4	-	2	18	-	56	-	-	-	-	-	-	-	-	5	-	-	1	-			
TIME -----	88	5.02	-	-	-	4	-	-	4	-	4	-	2	18	-	56	-	-	-	-	-	-	-	-	-	-	-	-	-	1		
PUNCH-PRESS OPERATORS, CLASS A -----	139	4.72	-	-	-	-	20	-	-	33	4	24	2	5	-	2	4	12	23	11	-	-	-	-	-	-	-	-	-			
TIME -----	137	4.70	-	-	-	-	20	-	-	33	4	24	5	-	2	3	12	23	11	-	-	-	-	-	1	-	-	-	-			
PUNCH-PRESS OPERATORS, CLASS B -----	181	4.07	5	15	56	-	6	-	28	8	5	10	14	5	15	10	4	-	-	-	-	-	-	-	-	-	-	-	-			
TIME -----	134	3.79	5	15	56	-	6	-	28	-	-	4	-	2	11	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
SET-UP MEN, MACHINE TOOLS ⁴ -----	69	5.27	-	-	-	-	-	-	-	-	-	30	-	-	-	-	-	19	20	-	-	-	-	-	-	-	-	-	-	-		
TOOL AND DIESMAKERS (JOBPING) ⁴ -----	962	6.12	-	-	-	-	-	-	-	-	-	9	5	5	31	20	95	115	83	148	103	129	167	6	20	10	16	-	-			
TOOL AND DIESMAKERS (OTHER THAN JOBPING) -----	143	6.01	-	-	-	-	-	-	-	-	-	15	-	-	7	-	11	12	14	29	24	-	18	3	3	2	3	2	-	-		
TIME -----	132	5.90	-	-	-	-	-	-	-	-	-	15	-	-	7	-	11	12	14	29	24	-	18	3	3	2	3	2	-	-		
TOOL CLERKS -----	198	4.96	-	-	-	-	4	-	-	20	22	12	17	5	16	68	21	6	1	-	4	2	-	-	-	-	-	-	-	-	-	
TIME -----	158	4.91	-	-	-	-	4	-	-	20	17	9	10	2	12	62	19	3	-	-	-	-	-	-	-	-	-	-	-	-	-	
WELDERS, HAND, CLASS A -----	853	5.52	-	-	-	-	-	-	-	16	12	42	154	126	3	56	58	136	36	58	28	25	12	11	8	13	13	34	12			
TIME -----	587	5.05	-	-	-	-	-	-	-	16	12	42	154	126	3	56	8	136	24	-	4	6	-	-	-	-	-	-	-	-		
WELDERS, HAND, CLASS B -----	237	4.04	-	-	16	28	52	12	52	8	39	27	2	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
TIME -----	232	4.03	-	-	16	28	52	12	52	4	39	27	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
WELDERS, MACHINE, CLASS A -----	142	5.16	-	-	-	-	-	-	-	4	4	42	22	3	3	-	6	52	-	2	-	-	-	-	-	-	-	-	4	-		
TIME -----	135	5.05	-	-	-	-	-	-	-	4	4	42	22	3	3	-	5	52	-	-	-	-	-	-	-	-	-	-	-	-	-	
WELDERS, MACHINE, CLASS B -----	116	4.09	-	-	-	2	16	14	10	74	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TIME -----	112	4.09	-	-	-	2	16	14	6	74	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

¹ The Cleveland Standard Metropolitan Statistical Area consists of Cuyahoga, Geauga, Lake, and Medina Counties.

² Excludes premium pay for overtime and for work on weekends, holidays, and late shifts. These surveys, based on a representative sample of establishments, are designed to measure the level of occupational earnings at a particular time. Thus, comparisons made with previous studies may not reflect expected wage movements because of change in the sample composition, and shifts in employment among establishments with different pay levels. Such shifts, for example, could decrease an oc-

cupational average, even though most establishments increased wages between periods being compared.

³ Includes data for operators of other machine tools in addition to those shown separately.

⁴ All timeworkers.

⁵ Workers were distributed as follows: 26 at \$2.40 to \$2.60; 12 at \$2.60 to \$2.80; and 6 at \$2.80 to \$3.

⁶ Insufficient data to warrant publication of separate earnings data by method of wage payment; workers are paid predominantly on a time basis.

Table 7. Occupational earnings: Dallas—Fort Worth, Tex.¹

(Number and average straight-time hourly earnings² of workers in selected occupations in machinery manufacturing establishments, January 1975)

Occupation	Number of workers	Average hourly earnings ²	Number of workers receiving straight-time hourly earnings of—																											
			\$ 2.10	\$ 2.20	\$ 2.30	\$ 2.40	\$ 2.50	\$ 2.60	\$ 2.70	\$ 2.80	\$ 2.90	\$ 3.00	\$ 3.20	\$ 3.40	\$ 3.60	\$ 3.80	\$ 4.00	\$ 4.20	\$ 4.40	\$ 4.60	\$ 4.80	\$ 5.00	\$ 5.20	\$ 5.40	\$ 5.60	\$ 5.80	\$ 6.00	\$ 6.20		
			2.20	2.30	2.40	2.50	2.60	2.70	2.80	2.90	3.00	3.20	3.40	3.60	3.80	4.00	4.20	4.40	4.60	4.80	5.00	5.20	5.40	5.60	5.80	6.00	6.20			
ASSEMBLERS, CLASS A -----	478	\$ 4.77	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
ASSEMBLERS, CLASS B -----	514	3.61	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
ASSEMBLERS, CLASS C -----	763	2.85	14	3	66	45	73	96	93	34	36	184	36	11	72	-	-	-	-	-	-	-	-	-	-	-	-			
CARPENTERS, MAINTENANCE -----	7	5.04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
ELECTRICIANS, MAINTENANCE -----	60	4.85	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
INSPECTORS, CLASS A -----	186	4.79	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
INSPECTORS, CLASS B -----	154	3.82	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
INSPECTORS, CLASS C -----	95	3.29	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
JANITORS, PORTERS, AND CLEANERS -----	234	3.09	6	-	6	12	16	12	19	10	11	62	18	21	26	5	3	2	5	-	-	-	-	-	-	-	-			
LABORERS, MATERIAL HANDLING -----	202	2.98	3	-	9	21	20	15	11	15	7	57	3	4	13	9	7	6	2	-	-	-	-	-	-	-	-			
 MACHINE-TOOL OPERATORS, PRODUCTION, CLASS A ³ -----	808	4.64	-	-	-	-	-	-	-	-	-	-	-	-	-	12	9	21	33	41	121	147	134	84	37	121	40	4	-	
AUTOMATIC-LATHE OPERATORS -----	94	4.27	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	2	28	8	-	6	7	12	-	-	-	-	-	
DRILL-PRESS OPERATORS, RADIAL -----	56	4.61	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8	21	5	14	2	-	-	-	-		
ENGINE-LATHE OPERATORS -----	170	4.81	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	27	18	39	17	12	42	9	-		
GRINDING-MACHINE OPERATORS -----	70	4.29	-	-	-	-	-	-	-	-	-	-	-	-	-	6	6	3	-	24	20	-	6	-	5	2	19	12	-	
MILLING-MACHINE OPERATORS -----	119	4.64	-	-	-	-	-	-	-	-	-	-	-	-	-	6	6	3	6	29	21	16	5	2	-	-	-	-	-	
SCREW-MACHINE OPERATORS, AUTOMATIC -----	45	4.42	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	5	3	31	5	-	-	-	-	-		
TURRET-LATHE OPERATORS, HAND (INCLUDING HAND SCREW MACH) -----	153	4.62	-	-	-	-	-	-	-	-	-	-	-	-	-	5	3	10	-	14	8	16	44	10	13	27	3	-	-	
 MACHINE-TOOL OPERATORS, PRODUCTION, CLASS B ³ -----	646	3.76	-	-	-	-	-	-	16	8	11	18	69	56	62	119	40	81	59	63	26	18	-	-	-	-	-	-	-	-
AUTOMATIC-LATHE OPERATORS -----	80	3.51	-	-	-	-	-	-	6	1	-	7	10	10	34	9	3	-	-	-	-	-	-	-	-	-	-	-	-	-
DRILL-PRESS OPERATORS, SINGLE- OR MULTIPL-F-SPINDLE -----	54	3.36	-	-	-	-	-	-	4	-	1	6	8	18	6	3	-	4	2	2	-	-	-	-	-	-	-	-	-	
ENGINE-LATHE OPERATORS -----	87	3.70	-	-	-	-	-	-	-	-	3	-	3	15	6	12	17	6	7	6	16	5	-	-	-	-	-	-	-	
GRINDING-MACHINE OPERATORS -----	47	3.58	-	-	-	-	-	-	-	-	-	3	15	2	3	9	-	8	-	5	-	2	-	-	-	-	-	-	-	
MILLING-MACHINE OPERATORS -----	80	3.73	-	-	-	-	-	-	8	2	4	-	5	4	3	13	5	21	1	7	1	6	-	-	-	-	-	-	-	
SCREW-MACHINE OPERATORS, AUTOMATIC -----	39	3.75	-	-	-	-	-	-	4	-	2	-	4	-	-	5	3	9	9	3	-	-	-	-	-	-	-	-	-	-
TURRET-LATHE OPERATORS, HAND (INCLUDING HAND SCREW MACH) -----	123	3.85	-	-	-	-	-	-	-	-	6	12	8	15	21	8	13	16	19	3	2	-	-	-	-	-	-	-	-	
 MACHINE-TOOL OPERATORS, PRODUCTION, CLASS C -----	77	2.95	9	9	20	26	76	81	54	44	42	158	100	42	32	7	1	6	-	-	-	-	-	-	-	-	-	-	-	
AUTOMATIC-LATHE OPERATORS -----	147	2.97	-	-	6	6	11	25	6	10	6	11	64	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
ENGINE-LATHE OPERATORS -----	51	3.00	-	-	3	3	9	6	3	3	1	-	-	20	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GRINDING-MACHINE OPERATORS -----	38	2.65	-	-	2	-	6	5	7	4	4	2	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MILLING-MACHINE OPERATORS -----	17	2.74	-	-	6	3	-	-	-	-	-	5	2	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TURRET-LATHE OPERATORS, HAND (INCLUDING HAND SCREW MACH) -----	45	3.10	-	-	-	8	3	-	-	10	6	-	5	1	9	-	-	3	9	37	62	18	20	85	-	4	-	-	-	
 MACHINE-TOOL OPERATORS, PRODUCTION NUMERICALLY CONTROLLED ³ -----	250	4.83	-	-	-	-	-	-	-	-	-	5	-	1	6	-	3	9	37	62	18	20	85	-	4	-	-	-	-	

See footnotes at end of table.

Table 7. Occupational earnings: Dallas—Fort Worth, Tex.¹—Continued

(Number and average straight-time hourly earnings² of workers in selected occupations in machinery manufacturing establishments, January 1975)

Occupation	Number of workers	Average hourly earnings ²	Number of workers receiving straight-time hourly earnings of—																									
			\$ 2.10	\$ 2.20	\$ 2.30	\$ 2.40	\$ 2.50	\$ 2.60	\$ 2.70	\$ 2.80	\$ 2.90	\$ 3.00	\$ 3.20	\$ 3.40	\$ 3.60	\$ 3.80	\$ 4.00	\$ 4.20	\$ 4.40	\$ 4.60	\$ 4.80	\$ 5.00	\$ 5.20	\$ 5.40	\$ 5.60	\$ 5.80	\$ 6.00	\$ 6.20
			\$ 2.20	\$ 2.30	\$ 2.40	\$ 2.50	\$ 2.60	\$ 2.70	\$ 2.80	\$ 2.90	\$ 3.00	\$ 3.20	\$ 3.40	\$ 3.60	\$ 3.80	\$ 4.00	\$ 4.20	\$ 4.40	\$ 4.60	\$ 4.80	\$ 5.00	\$ 5.20	\$ 5.40	\$ 5.60	\$ 5.80	\$ 6.00	\$ 6.20	
MACHINE-TOOL OPERATORS, PRODUCTION, NUMERICALLY CONTROLLED ³ —																												
CONTINUED																												
DRILL-PRESS OPERATORS, SINGLE- OR MULTIPLE-SPINDLE -----	25	\$ 4.68	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MILLING-MACHINE OPERATORS -----	54	4.66	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MACHINE-TOOL OPERATORS, TOOLROOM (ONE TYPE OF MACHINE) -----	66	4.96	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
GRINDING-MACHINE OPERATORS -----	26	4.62	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MACHINE-TOOL OPERATORS, TOOLROOM (MORE THAN ONE TYPE OF MACHINE) —	166	5.08	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MACHINISTS, MAINTENANCE -----	19	4.62	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MACHINISTS, PRODUCTION -----	51	4.48	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MECHANICS, MAINTENANCE -----	116	4.61	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
PUNCH-PRESS OPERATORS, CLASS B -----	77	3.16	3	-	9	-	-	-	-	-	6	5	23	6	6	7	9	3	-	-	-	-	-	-	-	-	-	
SET-UP MEN, MACHINE TOOLS -----	44	4.48	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TOOL AND DIEMAKER'S (JOBMING) -----	94	5.55	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TOOL AND DIEMAKERS (OTHER THAN JOBMING) -----	110	5.31	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TOOL CLERKS -----	75	3.02	-	-	-	-	-	-	-	6	-	3	11	12	1	7	8	13	12	2	-	-	-	-	-	-	-	
WELDERS, HAND, CLASS A -----	606	4.54	-	-	-	-	-	-	-	-	-	-	6	-	71	9	11	58	53	44	66	169	94	16	5	1	1	2
WELDERS, HAND, CLASS B -----	225	3.81	-	-	-	-	-	-	3	5	3	18	27	8	14	22	45	11	14	34	-	21	-	-	-	-	-	-
WELDERS, MACHINE, CLASS A -----	88	4.96	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
WELDERS, MACHINE, CLASS B -----	91	3.65	-	-	-	3	3	9	5	9	6	7	14	1	-	5	-	2	1	2	3	3	18	-	-	-	-	

¹ The Dallas—Fort Worth Standard Metropolitan Statistical Area consists of Collin, Dallas, Denton, Ellis, Hood, Johnson, Kaufman, Parker, Rockwall, Tarrant, and Wise Counties.

² Excludes premium pay for overtime and for work on weekends, holidays, and late shifts. These surveys, based on a representative sample of establishments, are designed to measure the level of occupational earnings at a particular time. Thus, comparisons made with previous studies may not

reflect expected wage movements because of change in the sample composition, and shifts in employment among establishments with different pay levels. Such shifts, for example, could decrease an occupational average, even though most establishments increased wages between periods being compared. All workers were paid on a time basis.

³ Includes data for operators of other machine tools in addition to those shown separately.

Table 8. Occupational earnings: Denver—Boulder, Colo.¹

(Number and average straight-time hourly earnings² of workers in selected occupations in machinery manufacturing establishments, December 1974)

Occupation	Number of workers	Average hourly earnings ³ and under	Number of workers receiving straight-time hourly earnings of—																														
			\$ 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	\$ 5.20	\$ 5.40	\$ 5.60	\$ 5.80	\$ 6.00	\$ 6.20	\$ 6.40	\$ 6.60	\$ 6.80	\$ 7.00	\$ 7.20	\$ 7.60					
			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	5.20	5.40	5.60	5.80	6.00	6.20	6.40	6.60	6.80	7.00	7.20	7.60						
ASSEMBLERS, CLASS A -----	198	\$ 4.90	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
ASSEMBLERS, CLASS B -----	427	3.81	-	-	4	85	46	30	47	70	21	40	36	21	18	7	1	1	-	-	-	-	-	-	-	-	-	-					
ASSEMBLERS, CLASS C -----	602	2.82	165	207	128	30	19	34	12	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
ELECTRICIANS, MAINTENANCE -----	19	5.38	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
INSPECTORS, CLASS A -----	83	5.14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
INSPECTORS, CLASS B -----	74	4.03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
JANITORS, PORTERS, AND CLEANERS -----	59	3.47	-	1	8	2	18	8	7	4	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
LABORERS, MATERIAL HANDLING -----	51	3.58	-	-	2	5	25	1	-	1	7	7	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
MACHINE-TOOL OPERATORS, PRODUCTION CLASS A -----	311	5.53	-	-	-	-	-	-	-	-	1	6	8	12	22	33	52	21	61	28	6	6	7	8	2	7	4	8	19				
AUTOMATIC-LATHE OPERATORS -----	8	5.19	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
DRILL-PRESS OPERATORS, RADIAL -----	19	6.16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	1	1	2					
ENGINE-LATHE OPERATORS -----	34	5.51	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
GRINDING-MACHINE OPERATORS -----	36	6.57	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	9				
MILLING-MACHINE OPERATORS -----	44	5.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	-				
TURRET-LATHE OPERATORS, HAND (INCLUDING HAND SCREW MACH) -----	53	5.61	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	3	4				
MACHINE-TOOL OPERATORS, PRODUCTION CLASS B -----	222	4.43	-	-	-	-	-	-	1	8	25	72	38	31	19	12	2	4	-	-	-	-	-	-	-	1	-	-	1	2	6		
DRILL-PRESS OPERATORS, RADIAL -----	17	4.92	-	-	-	-	-	-	-	-	-	6	5	-	-	3	-	1	-	-	-	-	-	-	-	-	-	1	-	1	2		
GRINDING-MACHINE OPERATORS -----	29	4.97	-	-	-	-	-	-	1	1	-	6	8	6	1	1	1	-	-	-	-	-	-	-	-	-	-	1	-	1	63		
MILLING-MACHINE OPERATORS -----	21	4.69	-	-	-	-	-	-	-	3	5	5	-	3	1	1	1	-	-	-	-	-	-	-	-	-	-	-	1	-	1		
TURRET-LATHE OPERATORS, HAND (INCLUDING HAND SCREW MACH) -----	45	4.22	-	-	-	-	-	-	-	6	22	9	5	1	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
MACHINE-TOOL OPERATORS, PRODUCTION CLASS C -----	141	3.78	-	-	-	-	-	5	41	39	32	9	9	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
DRILL-PRESS OPERATORS, SINGLE- OR MULTIPLE-SPINDLE -----	104	3.72	-	-	-	-	-	3	36	32	25	2	4	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
MACHINE-TOOL OPERATORS, PRODUCTION NUMERICALLY CONTROLLED -----	45	5.34	-	-	-	-	-	-	-	-	1	6	3	1	2	3	7	5	6	-	-	2	-	-	1	3	2	3	-	-			
MILLING-MACHINE OPERATORS -----	14	5.39	-	-	-	-	-	-	-	-	1	1	1	2	1	2	-	-	-	-	-	1	-	-	2	1	1	-	-	-	-		
MACHINE-TOOL OPERATORS, TOOLROOM (ONE TYPE OF MACHINE) ³ -----	19	5.84	-	-	-	-	-	-	-	-	-	3	-	-	-	-	-	2	-	-	5	-	3	3	3	-	-	-	-	-	-		
GRINDING-MACHINE OPERATORS -----	9	5.21	-	-	-	-	-	-	-	-	-	3	-	-	-	-	-	2	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-
MACHINE-TOOL OPERATORS, TOOLROOM (MORE THAN ONE TYPE OF MACHINE) -----	57	4.73	-	-	-	-	-	-	6	3	4	6	5	2	1	-	7	9	11	-	-	1	2	-	-	-	-	-	-	-	-	-	
MACHINISTS, MAINTENANCE -----	15	5.72	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	2	-	3	9	-	-	-	-	-	-	-	-	-	-	-	
MECHANICS, MAINTENANCE -----	72	4.96	-	-	-	-	-	-	-	-	6	-	9	4	11	10	5	5	16	-	-	2	4	-	-	-	-	-	-	-	-	-	
SET-UP MEN, MACHINE TOOLS -----	10	4.50	-	-	-	-	-	-	-	4	-	-	-	-	3	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOOL AND DIEMAKERS (JOBMING) -----	9	5.58	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	1	-	-	2	3	-	-	-	-	-	-	-	-	-	-	
TOOL AND DIEMAKERS (OTHER THAN JOBMING) -----	108	6.60	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7	4	2	2	17	15	3	12	14	8	18	6	-	-	-	
TOOL CLERKS -----	23	4.38	-	-	-	1	-	-	1	2	3	4	1	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
WELDERS, HAND, CLASS A -----	144	5.18	-	-	-	-	-	-	-	-	-	5	-	14	46	29	17	17	9	-	-	-	3	-	-	-	2	2	-	-	-	-	

¹ The Denver-Boulder Standard Metropolitan Statistical Area consists of Adams, Arapahoe, Boulder, Douglas, Gilpin, and Jefferson Counties.

² Excludes premium pay for overtime and for work on weekends, holidays, and late shifts. These surveys, based on a representative sample of establishments, are designed to measure the level of occupational earnings at a particular time. Thus, comparisons made with previous studies may not reflect expected wage movements because of change in the sample composition and shifts in employment among establishments with different pay levels. Such shifts, for example, could decrease an

occupational average, even though most establishments increased wages between periods being compared. Virtually all workers were paid on a time basis.

³ Includes data for operators of other machine tools in addition to those shown separately.

⁴ Workers were distributed as follows: 4 at \$7.60 to \$8; 4 at \$8 to \$8.40; and 1 at \$8.40 to \$8.80.

⁵ Workers were distributed as follows: 1 at \$7.60 to \$8; and 1 at \$8.40 to \$8.80.

⁶ Workers were distributed as follows: 2 at \$7.60 to \$8; and 1 at \$8.40 to \$8.80.

Table 9. Occupational earnings: Detroit, Mich.¹

(Number and average straight-time hourly earnings² of workers in selected occupations in machinery manufacturing establishments, November 1974)

Occupation	Number of workers	Average hourly ² earnings	Number of workers receiving straight-time hourly earnings of—																											
			\$ Under \$ 2.60 2.80 3.00 3.20 3.40 3.60 3.80 4.00 4.20 4.40 4.60 4.80 5.00 5.20 5.40 5.60 5.80 6.00 6.20 6.40 6.60 6.80 7.00 7.20 7.40 7.60	and over																										
			2.80 3.00 3.20 3.40 3.60 3.80 4.00 4.20 4.40 4.60 4.80 5.00 5.20 5.40 5.60 5.80 6.00 6.20 6.40 6.60 6.80 7.00 7.20 7.40 7.60																											
ASSEMBLERS, CLASS A ³ -----	753	\$ 6.15	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	48	-	33	5	2	58	165	81	-	21	31	138	-	54	19	159	-				
ASSEMBLERS, CLASS B ³ -----	2,568	5.60	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	1	1	9	111	4	20	7	84	148	5	19	263	7.9	2	5	-	-				
ASSEMBLERS, CLASS C ³ -----	1,292	5.13	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	20	40	18	42	-	-	411	148	5	-	524	-	-	-	-	-	-				
CARPENTERS, MAINTENANCE ³ -----	19	6.41	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	-	-	-	-	-	-	-	-	-	1	6	-	-	1	1	10	-				
ELECTRICIANS, MAINTENANCE ³ -----	134	6.91	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	-	-	-	-	-	-	-	-	-	3	-	1	1	22	9	34	18				
INSPECTORS, CLASS A ³ -----	467	5.74	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	-	-	61	-	14	34	23	15	12	44	117	15	21	21	16	14	21	9			
INSPECTORS, CLASS B ³ -----	558	5.65	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	-	-	5	9	7	-	26	24	52	-	215	21	16	-	-	-	-	-			
INSPECTORS, CLASS C ³ -----	247	5.41	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	-	-	10	18	10	10	-	141	-	2	31	12	2	2	5	4	1	-			
JANITORS, PORTERS, AND CLEANERS ³ -----	739	4.65	-	-	-	-	-	-	-	6	68	38	21	35	48	63	99	32	39	14	278	1	28	-	-	7	-			
LABORERS, MATERIAL HANDLING -----	455	4.81	-	-	-	-	-	-	-	30	11	16	22	23	21	51	54	13	32	5	9	131	7	-	-	-	-	-		
TIME -----	447	4.79	-	-	-	-	-	-	-	30	11	16	22	23	21	51	64	13	32	5	9	123	7	-	-	-	-	-		
MACHINE-TOOL OPERATORS, PRODUCTION, CLASS A ⁴ -----	4,306	6.07	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	-	1	8	23	130	140	42	95	371	319	202	537	443	179	188	325	153	164	143	465	358
TIME -----	4,225	6.09	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	-	4	14	120	134	81	91	360	307	194	532	440	175	189	324	153	163	143	465	357	
AUTOMATIC-LATHE OPERATORS ³ -----	31	5.04	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	-	-	4	-	-	-	-	-	-	2	-	4	15	-	-	-	-	-	-		
DRILL-PRESS OPERATORS, RADIAL -----	100	5.20	-	-	-	-	-	-	-	-	-	4	-	32	-	16	-	5	17	5	3	8	-	-	-	-	-	11	-	
TIME -----	100	5.20	-	-	-	-	-	-	-	-	-	4	-	32	-	10	-	5	17	5	3	8	-	-	-	-	-	11	-	
DRILL-PRESS OPERATORS, SINGLE- OR MULTIPLE-SPINDLE -----	72	5.25	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	-	-	4	4	-	-	3	2	33	12	1	4	-	-	-	-	-	-	-		
ENGINE-LATHE OPERATORS -----	492	5.83	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	-	-	85	4	-	-	131	26	4	24	18	19	23	22	13	9	10	107	-		
TIME -----	490	5.84	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	-	-	84	4	-	-	131	25	4	24	18	19	23	22	13	9	10	107	-		
GRINDING-MACHINE OPERATORS -----	1,835	6.25	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	-	1	3	5	22	15	39	47	91	143	103	308	189	61	81	126	72	42	50	150	214
TIME -----	1,763	6.23	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	-	-	18	12	39	44	86	141	96	304	156	57	61	126	72	42	50	150	214		
MILLING-MACHINE OPERATORS -----	634	6.09	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	-	-	3	8	3	-	7	48	54	7	145	21	59	5	57	35	10	22	73	27	
TIME -----	624	6.14	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	-	-	2	4	43	47	6	144	21	59	5	56	35	9	22	73	26	-			
TURRET-LATHE OPERATORS, HAND (INCLUDING HAND SCREW MACH) -----	408	5.77	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	-	1	64	18	6	22	37	2	26	9	45	15	9	53	24	41	9	25	2		
TIME -----	407	5.77	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	-	64	16	6	22	37	2	26	9	45	15	9	53	24	41	9	25	-			
MACHINE-TOOL OPERATORS, PRODUCTION, CLASS B ⁴ -----	2,890	5.46	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	14	16	10	54	34	231	101	216	136	131	72	1062	752	49	-	2	-	-	-	-	-
TIME -----	2,803	5.45	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	14	16	10	54	34	231	101	216	136	131	72	975	752	49	-	2	-	-	-	-	-
ENGINE-LATHE OPERATORS ³ -----	145	5.17	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	-	-	-	-	32	8	29	20	9	10	46	-	-	-	-	-	-	-	-	-	
GRINDING-MACHINE OPERATORS -----	857	5.18	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	-	12	10	4	30	18	123	46	106	82	39	10	167	28	2	-	-	-	-	-	-
TIME -----	834	5.16	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	-	12	10	4	30	18	123	46	105	82	39	10	144	28	2	-	-	-	-	-	-
HILLING-MACHINE OPERATORS -----	230	5.36	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	-	2	4	2	-	-	4	24	43	13	8	-	40	40	-	-	-	-	-	-	
TIME -----	215	5.34	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	-	2	4	2	-	-	4	24	43	13	8	-	25	90	-	-	-	-	-	-	-
SCREW-MACHINE OPERATORS, AUTOMATIC ³ -----	84	5.89	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	-	-	-	-	-	-	6	-	-	-	-	27	4	47	-	-	-	-	-	-	-
TURRET-LATHE OPERATORS, HAND (INCLUDING HAND SCREW MACH) -----	123	5.43	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	-	2	4	2	-	15	-	-	3	12	-	-	23	59	-	-	-	-	-	-	-
TIME -----	100	5.36	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	-	2	4	2	-	15	-	-	3	12	-	-	23	59	-	-	-	-	-	-	-
MACHINE-TOOL OPERATORS, PRODUCTION, CLASS C ⁴ -----	1,575	4.42	20	-	-	134	102	86	72	4	386	89	120	36	27	-	50	1	448	-	-	-	-	-	-	-	-	-	-	
TIME -----	1,523	4.39	20	-	-	134	102	86	72	4	386	88	120	36	27	-	-	50	1	448	-	-	-	-	-	-	-	-	-	
DRILL-PRESS OPERATORS, SINGLE- OR MULTIPLE-SPINDLE -----	112	4.68	-	-	-	-	6	12	12	-	-	24	-	-	-	-	-	33	-	25	-	-	-	-	-	-	-	-		
TIME -----	79	4.44	-	-	-	-	6	12	12	-	-	24	-	-	-	-	-	25	-	-	-	-	-	-	-	-	-	-		
GRINDING-MACHINE OPERATORS -----	609	4.64	20	-	-	72	76	18	42	4	12	4	20	10	7	-	-	-	-	324	-	-	-	-	-	-	-	-	-	
MILLING-MACHINE OPERATORS -----	88	4.67	-	-	-	-	-	24	-	-	-	1	20	4	-	-	-	17	1	21	-	-	-	-	-	-	-	-		
TIME -----	69	4.52	-	-	-	-	-	24	-	-	-	-	2	4	-	-	-	-	21	-	-	-	-	-	-	-	-	-		
MACHINE-TOOL OPERATORS, PRODUCTION, NUMERICALLY CONTROLLED ³ -----	214	6.29	-	-	-	-	-	-	-	-	-	-	-	-	0	24	-	-	7	-	30	17	4	1	14	9	56	-	24	20

See footnotes at end of table.

Table 9. Occupational earnings: Detroit, Mich.¹—Continued

(Number and average straight-time hourly earnings² of workers in selected occupations in machinery manufacturing establishments, November 1974)

Occupation	Number of workers	Average hourly earnings ²	Number of workers receiving straight-time hourly earnings of—																								
			\$ 2.60 Under \$.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	\$ 5.20	\$ 5.40	\$ 5.60	\$ 5.80	\$ 6.00	\$ 6.20	\$ 6.40	\$ 6.60	\$ 6.80	\$ 7.00	\$ 7.20	
			2.80	3.00	3.20	3.40	3.60	3.80	4.00	4.20	4.40	4.60	4.80	5.00	5.20	5.40	5.60	5.80	6.00	6.20	6.40	6.60	6.80	7.00	7.20	7.60	
MACHINE-TOOL OPERATORS, ³ TOOLROOM (ONE TYPE OF MACHINE) ³	2,927	\$ 6.68	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	345 ⁶ 403
DRILL-PRESS OPERATORS, RADIAL	112	6.20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5
ENGINE-LATHE OPERATORS	260	6.60	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	30 ¹⁰
GRINDING-MACHINE OPERATORS	1,060	6.59	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	88 ⁵⁹
MILLING-MACHINE OPERATORS	567	6.54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	53 ⁵⁶
MACHINE-TOOL OPERATORS, TOOLROOM (MORE THAN ONE TYPE OF MACHINE) ³	462	6.37	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	48 ⁸
MACHINISTS, MAINTENANCE ³	117	6.54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	55 ⁻
MACHINISTS, PRODUCTION ³	44	6.01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MECHANICS, MAINTENANCE ³	229	6.37	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	24 ¹⁶
POLISHING- AND BUFFING-MACHINE OPERATORS ⁷	106	5.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PUNCH-PRESS OPERATORS, CLASS A ³	78	5.52	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12 ⁻
PUNCH-PRESS OPERATORS, CLASS B	350	3.87	-	94	-	93	-	-	-	28	-	20	20	4	2	1	15	-	53	20	-	-	-	-	-	-	-
TIME	301	3.57	-	94	-	93	-	-	28	-	20	20	4	2	1	15	-	4	20	-	-	-	-	-	-	-	-
SET-UP MEN, MACHINE TOOLS ³	442	5.88	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOOL AND DIEMAKERS (JOBMING) ³	2,554	6.59	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	263 ⁸²⁷⁶
TOOL AND DIEMAKERS (OTHER THAN JOBMING) ³	178	6.65	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	138 ⁻
TOOL CLERKS ³	178	5.44	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
WELDERS, HAND, CLASS A ³	383	5.73	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
WELDERS, HAND, CLASS B ³	453	5.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10 ⁻
WELDERS, MACHINE, CLASS B ⁷	32	5.74	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

¹ The Detroit Standard Metropolitan Statistical Area consists of Lapeer, Livingston, Macomb, Oakland, St. Clair, and Wayne Counties.

² Excludes premium pay for overtime and for work on weekends, holidays, and late shifts. These surveys, based on a representative sample of establishments, are designed to measure the level of occupational earnings at a particular time. Thus, comparisons made with previous studies may not reflect expected wage movements because of change in the sample composition, and shifts in employment among establishments with different pay levels. Such shifts, for example, could decrease an occupational average, even though most establishments increased wages between periods being compared.

³ All timeworkers

⁴ Includes data for operators of other machine tools in addition to those shown separately.

⁵ Workers were at \$7.60 to \$8.

⁶ Workers were distributed as follows: 209 at \$7.60 to \$8; 184 at \$8 to \$8.40; and 10 at \$8.40 to \$8.80.

⁷ Insufficient data to warrant publication of separate earnings data by method of wage payment; workers are paid predominantly on a time basis.

⁸ Workers were distributed as follows: 243 at \$7.60 to \$8; and 33 at \$8 to \$8.40.

Table 10. Occupational earnings: Hartford—New Britain—Bristol, Conn.¹

(Number and average straight-time hourly earnings² of workers in selected occupations in machinery manufacturing establishments, January 1975)

Occupation	Number of workers	Average hourly earnings ²	Number of workers receiving straight-time hourly earnings of—																													
			Under \$ 2.70	\$ 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	\$ 5.20	\$ 5.40	\$ 5.60	\$ 5.80	\$ 6.00	\$ 6.20	\$ 6.40				
			and under \$ 2.70	over \$ 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	5.20	5.40	5.60	5.80	6.00	6.20	6.40				
ASSEMBLERS, CLASS A ³ -----	371	\$ 4.96	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2	34	44	42	33	106	73	13	15	7	-	-	-			
ASSEMBLERS, CLASS B -----	250	4.45	-	-	-	-	-	-	-	4	-	1	4	3	1	30	22	34	24	81	31	11	3	1	-	-	-	-	-			
TIME -----	134	4.54	-	-	-	-	-	-	-	4	-	-	-	-	-	17	3	21	15	38	24	11	-	1	-	-	-	-	-	-		
INCENTIVE -----	116	4.35	-	-	-	-	-	-	-	-	1	4	3	1	13	19	13	9	43	7	-	3	-	-	-	-	-	-	-			
ASSEMBLERS, CLASS C ³ -----	820	5.00	4	15	-	-	-	-	-	-	13	11	13	93	50	26	39	48	14	13	8	3	2	456	10	1	1	-				
CARPENTERS, MAINTENANCE -----	17	4.82	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	5	-	9	-	-	-	-	-	-	-	-	1		
TIME -----	15	4.92	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	-	-	-	-	-	-	-	-	-	1			
ELECTRICIANS, MAINTENANCE -----	149	5.73	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	8	11	18	28	12	3	19	1	-	44			
TIME -----	141	5.80	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	2	11	18	28	12	3	19	1	-	44				
INSPECTORS, CLASS A ⁵ -----	191	4.72	-	-	-	-	-	-	-	-	-	-	-	-	-	4	-	3	1	34	72	9	13	31	18	10	-	-	-			
INSPECTORS, CLASS B ⁵ -----	101	4.37	-	-	-	-	-	-	-	4	-	-	-	-	-	7	9	32	13	20	-	12	-	-	-	-	-	-	-	-		
JANITORS, PORTERS, AND CLEANERS ⁵ -----	166	4.03	9	-	-	-	3	2	4	4	3	4	9	4	18	53	18	5	1	-	-	-	-	-	29	-	-	-	-			
LABORERS, MATERIAL HANDLING ⁵ -----	121	4.26	8	-	-	8	-	-	-	-	-	1	5	11	44	6	3	1	1	-	-	-	-	33	-	-	-	-	-			
 MACHINE-TOOL OPERATORS, PRODUCTION, CLASS A ⁶ -----	1,279	4.93	-	-	1	2	3	2	9	3	4	2	9	12	88	56	144	94	110	123	208	101	63	39	55	129	10	12	10			
TIME -----	967	5.00	-	-	-	1	2	3	2	3	3	4	2	6	8	78	38	100	65	77	60	183	79	42	31	50	125	9	10	10		
INCENTIVE -----	312	4.70	-	-	-	1	-	-	-	-	-	1	-	-	-	-	10	18	44	29	33	63	25	22	21	8	5	4	1	-	21	
AUTOMATIC-LATHE OPERATORS -----	9	5.18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	2	-	3	-	-	-	-	-	1	-	21		
DRILL-PRESS OPERATORS, RADIAL -----	41	4.86	-	-	-	-	-	-	-	-	-	-	-	-	-	8	-	2	2	-	9	12	3	1	4	-	-	-	-	-		
TIME -----	24	4.64	-	-	-	-	-	-	-	-	-	-	-	-	-	8	-	2	2	-	4	8	2	-	-	-	-	-	-	-		
INCENTIVE -----	17	5.16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	2	-	5	4	1	1	4	-	-	-	-	-	
DRILL-PRESS OPERATORS, SINGLE- OR MULTIPLE-SPINDLE ³ -----	11	4.95	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	6	-	-	4	-	-	-	-	-	-	-	-	
ENGINE-LATHE OPERATORS -----	151	4.85	-	-	1	-	-	-	-	1	-	-	-	-	-	4	12	6	23	16	20	8	18	8	1	4	20	.5	-	-		
TIME -----	134	4.90	-	-	-	-	-	-	-	-	-	-	-	-	-	4	12	6	21	11	8	17	7	4	1	4	20	5	-	-		
GRINDING-MACHINE OPERATORS -----	443	5.02	-	-	-	-	-	-	1	6	2	1	1	-	1	15	15	76	29	24	49	57	33	19	9	35	58	3	9	9		
INCENTIVE -----	347	5.10	-	-	-	-	-	-	-	6	-	2	1	1	-	9	11	64	22	20	18	51	27	9	8	32	-	-	-	-	-	
MILLING-MACHINE OPERATORS -----	204	4.63	-	-	-	-	-	-	2	2	-	1	-	1	6	5	31	13	14	20	21	12	17	6	39	10	8	1	5	1		
TIME -----	150	4.69	-	-	-	-	-	-	-	-	-	-	-	-	6	4	30	8	2	12	4	6	4	4	3	-	-	5	1	1		
INCENTIVE -----	54	4.46	-	-	-	2	2	-	-	1	-	1	-	1	1	5	12	8	4	6	4	4	3	-	-	-	-	-	-	-	-	
SCREW-MACHINE OPERATORS, AUTOMATIC ³ -----	41	4.86	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	4	7	8	10	2	1	2	-	1	-	-	-	-	-	
TURRET-LATHE OPERATORS, HAND (INCLUDING HAND SCREW MACH) -----	160	4.91	-	-	-	-	-	-	-	3	-	2	-	-	3	2	5	7	16	5	10	15	46	19	12	5	8	2	-	-		
TIME -----	99	5.18	-	-	-	-	-	-	-	-	-	-	-	-	-	4	-	2	1	3	7	45	15	10	4	8	-	-	-	-	-	
INCENTIVE -----	61	4.48	-	-	-	-	-	-	-	3	-	2	-	-	3	2	1	7	14	4	7	8	1	4	2	1	-	2	-	-	-	
 MACHINE-TOOL OPERATORS, PRODUCTION, CLASS B ⁶ -----	1,620	4.99	-	2	1	18	9	4	2	12	9	30	42	29	49	119	124	124	197	88	59	49	44	221	208	41	139	-	-	-		
AUTOMATIC-LATHE OPERATORS ⁹ -----	8	4.30	-	-	-	2	-	-	-	-	-	-	-	-	-	1	-	3	1	-	1	-	-	-	-	-	-	-	-	-	-	
DRILL-PRESS OPERATORS, RADIAL -----	21	4.61	-	-	-	-	-	-	-	-	-	-	-	-	-	8	4	4	1	-	1	-	-	1	-	1	-	1	-	-	-	
INCENTIVE -----	14	4.74	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3	3	1	-	1	-	-	1	-	1	-	1	-	-	-	-
DRILL-PRESS OPERATORS, SINGLE- OR MULTIPLE-SPINDLE -----	60	4.16	-	-	-	1	-	-	-	-	-	-	-	-	13	3	1	3	4	19	9	-	2	1	2	1	1	-	-	-	-	
TIME -----	27	4.02	-	-	-	-	-	-	-	-	-	-	2	4	8	12	33	19	34	89	67	55	87	45	40	29	27	193	182	12	4	
GRINDING-MACHINE OPERATORS ³ -----	945	5.00	-	2	1	-	-	-	-	-	-	-	-	-	-	19	34	89	67	55	87	45	40	29	27	-	-	-	-	-	-	

See footnotes at end of tables.

Table 10. Occupational earnings: Hartford—New Britain—Bristol, Conn.¹—Continued

(Number and average straight-time hourly earnings² of workers in selected occupations in machinery manufacturing establishments, January 1975)

Occupation	Number of workers	Average hourly earnings ²	Number of workers receiving straight-time hourly earnings of—																									
			\$ 2.70 and under \$ 2.70 2.80	\$ 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	\$ 5.20	\$ 5.40	\$ 5.60	\$ 5.80	\$ 6.00	\$ 6.20	\$ 6.40	
MACHINE-TOOL OPERATORS, PRODUCTION, CLASS B ⁶ —CONTINUED																												
MILLING-MACHINE OPERATORS —	58	\$ 4.18	-	-	-	12	-	-	-	-	3	1	1	2	4	3	8	16	5	1	2	-	-	-	-	-	-	
TIME -----	41	4.02	-	-	-	12	-	-	-	-	3	1	1	1	4	-	6	12	2	-	1	-	-	-	-	-	-	
INCENTIVE -----	17	4.57	-	-	-	-	-	-	-	-	-	1	1	1	1	-	3	2	4	3	1	1	-	-	-	-	-	
SCREW-MACHINE OPERATORS, AUTOMATIC ⁷	330	5.37	-	-	-	-	-	-	-	1	-	-	4	1	5	8	39	70	29	14	8	11	2	5	-	133	-	
TURRET-LATHE OPERATORS, HAND (INCLUDING HAND SCREW MACH) —	61	3.91	-	-	-	3	9	4	-	8	-	-	4	2	2	9	7	1	4	3	1	-	2	1	-	1	-	
TIME -----	38	3.76	-	-	-	-	8	4	-	8	-	-	-	-	-	-	7	5	-	4	2	-	-	-	-	-	-	
INCENTIVE -----	23	4.16	-	-	-	3	1	-	-	-	-	4	2	2	2	2	1	-	1	1	-	2	1	-	1	-		
MACHINE-TOOL OPERATORS, PRODUCTION, CLASS C ⁶	509	3.91	16	36	20	10	7	5	9	17	11	38	14	27	40	50	37	64	71	31	5	1	-	-	-	-	-	
TIME -----	277	3.51	16	36	20	10	6	5	6	15	11	10	11	27	36	43	14	5	1	2	2	1	-	-	-	-	-	
DRILL-PRESS OPERATORS, SINGLE-OR MULTIPLE-SPINDLE —	92	3.43	16	4	-	-	5	-	5	13	10	5	-	14	6	5	3	1	4	-	1	-	-	-	-	-	-	
TIME -----	81	3.29	16	4	-	-	5	-	5	13	10	5	-	14	6	3	-	-	-	-	-	-	-	-	-	-	-	
MACHINE-TOOL OPERATORS, PRODUCTION, NUMERICALLY CONTROLLED ⁶	254	4.43	-	-	-	-	-	-	-	8	10	4	13	21	8	31	17	39	30	8	41	18	4	1	-	1	-	
TIME -----	218	4.37	-	-	-	-	-	-	-	8	10	4	13	21	8	29	13	34	22	3	36	13	3	1	-	1	-	
AUTOMATIC-LATHE OPERATORS ⁷	8	4.57	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	3	-	-	-	-	-	-	-	-	-	
DRILL-PRESS OPERATORS, SINGLE-OR MULTIPLE-SPINDLE —	104	4.45	-	-	-	-	-	-	-	8	-	-	12	8	4	1	10	15	6	4	32	3	1	-	-	-	-	
TIME -----	95	4.42	-	-	-	-	-	-	-	8	-	-	12	8	4	-	9	13	5	3	32	1	-	-	-	-	-	
INCENTIVE -----	9	4.77	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	2	1	1	-	2	1	-	-	-	-	
TURRET-LATHE OPERATORS, HAND (INCLUDING HAND SCREW MACH) ⁹ —	11	4.63	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	5	3	1	-	1	-	-	-	-	-	
MACHINE-TOOL OPERATORS, TOOLROOM (ONE TYPE OF MACHINE) ⁵ —	425	5.30	-	-	-	-	-	-	-	-	-	-	-	-	-	7	11	57	68	28	47	40	55	19	12	38	-	43
ENGINE-LATHE OPERATORS -----	62	4.65	-	-	-	-	-	-	-	-	-	-	-	-	-	5	24	13	15	1	-	4	-	-	-	-	-	-
GRINDING-MACHINE OPERATORS -----	185	5.74	-	-	-	-	-	-	-	-	-	-	-	-	-	2	7	17	20	1	4	12	29	14	4	32	-	1143
MILLING-MACHINE OPERATORS -----	92	4.86	-	-	-	-	-	-	-	-	-	-	-	-	-	4	16	26	28	4	10	-	-	-	-	-	-	-
MACHINE-TOOL OPERATORS, TOOLROOM (MORE THAN ONE TYPE OF MACHINE) —	216	5.24	-	-	-	-	-	-	-	-	1	-	6	7	18	32	39	21	16	18	12	1	4	-	-	441		
TIME -----	180	5.36	-	-	-	-	-	-	-	-	1	-	6	6	9	25	31	12	16	16	1	4	-	-	41	-	-	
MACHINISTS, MAINTENANCE ⁵ -----	239	6.09	-	-	-	-	-	-	-	-	-	-	-	-	-	12	7	5	24	24	5	12	46	-	-	-	104	-
MECHANICS, MAINTENANCE ⁵ -----	18	5.20	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	3	-	8	3	2	-	-	-	-	-
POLISHERS AND BUFFERS, METAL ³ -----	35	4.37	-	-	-	-	-	-	-	-	4	-	4	-	9	3	1	-	7	4	2	1	-	-	-	-	-	
POLISHING- AND BUFFING-MACHINE OPERATORS -----	52	4.23	-	-	-	-	-	-	-	-	1	-	3	20	17	2	8	-	-	1	-	-	-	-	-	-	-	
TIME -----	44	4.21	-	-	-	-	-	-	-	-	1	-	3	20	13	2	5	-	-	1	-	-	-	-	-	-	-	
INCENTIVE -----	8	4.39	-	-	-	-	-	-	-	-	1	-	-	-	-	4	-	3	-	-	-	-	-	-	-	-	-	
PUNCH-PRESS OPERATORS, CLASS A -----	48	4.84	-	-	-	-	-	-	-	-	-	-	-	-	-	7	3	1	25	-	-	-	-	12	-	-	-	
TIME -----	24	5.17	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3	1	5	-	-	-	-	-	12	-	-	-

See footnotes at end of tables.

Table 10. Occupational earnings: Hartford—New Britain—Bristol, Conn.¹—Continued

(Number and average straight-time hourly earnings² of workers in selected occupations in machinery manufacturing establishment, January 1975)

Occupation	Number of workers	Average hourly earnings ³	Number of workers receiving straight-time hourly earnings of—																													
			\$ 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	\$ 5.20	\$ 5.40	\$ 5.60	\$ 5.80	\$ 6.00	\$ 6.20	\$ 6.40	and over				
			Under \$ 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	5.20	5.40	5.60	5.80	6.00	6.20	6.40					
SET-UP MEN, MACHINE TOOLS ⁵ -----	649	\$ 5.07	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7	14	60	305	38	40	6	1	1	104	41	4	28
TOOL AND DIESMAKERS (JOBMING) ⁵ -----	289	5.52	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	17	7	31	28	69	71	17	32	16	-	-
TOOL AND DIESMAKERS (OTHER THAN JOBMING) -----	244	5.85	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	6	9	6	5	17	32	14	65	-	11	-	1565
TIME -----	236	5.87	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	6	9	6	5	10	31	14	65	-	11	-	65
TOOL CLERKS ⁵ -----	97	4.61	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	18	7	8	12	7	4	-	-	19	9	-	-
WELDERS, HAND, CLASS A -----	75	5.16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	15	4	17	21	1	2	-	4	-	-	4	-
TIME -----	66	5.22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	14	3	15	21	-	1	-	4	-	-	8	-
WELDERS, HAND, CLASS B -----	12	4.58	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	3	2	2	-	2	1	-	-	-	-	-	-
TIME -----	7	4.21	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	1	1	-	-	-	-	-	-	-	-	-	-

¹ The Hartford—New Britain—Bristol Standard Metropolitan Statistical Areas consist of 3 cities and 25 towns in Hartford County, New Hartford and Plymouth towns in Litchfield County, 3 towns in Middlesex County, Colchester town in New London County, and 10 towns in Tolland County.

² Excludes premium pay for overtime and for work on weekends, holidays, and late shifts. These surveys, based on a representative sample of establishments, are designed to measure the level of occupational earnings at a particular time. Thus, comparisons made with previous studies may not reflect expected wage movements because of change in the sample composition, and shifts in employment among establishments with different pay levels. Such shifts, for example, could decrease an occupational average, even though most establishments increased wages between periods being compared.

³ Insufficient data to warrant publication of separate earnings data by method of wage payment; workers are paid predominantly on a time basis.

⁴ Workers were at \$7.20 to \$7.40.

⁵ All timeworkers.

⁶ Includes data for operators of other machine tools in addition to those shown separately.

⁷ Insufficient data to warrant publication of separate earnings data by method of wage payment; workers are paid predominantly on an incentive basis.

⁸ Workers at \$6.60 to \$6.80.

⁹ All incentive workers.

¹⁰ Workers were at \$2.50 to \$2.60.

¹¹ Workers were distributed as follows: 1 at \$7 to \$7.20; and 42 at \$7.20 to \$7.40.

¹² Workers were distributed as follows: 1 at \$6.40 to \$6.60; and 103 at \$7.20 to \$7.40.

¹³ Workers were at \$7.40 to \$7.60.

Table 11. Occupational earnings: Houston, Tex.¹

(Number and average straight-time hourly earnings² of workers in selected occupations in machinery manufacturing establishments, January 1975)

Occupation	Number of workers	Average hourly earnings ² and under	Number of workers receiving straight-time hourly earnings of—																									
			\$ 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	\$ 5.20	\$ 5.40	\$ 5.60	\$ 5.80	\$ 6.00	\$ 6.20	\$ 6.40
			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	5.20	5.40	5.60	5.80	6.00	6.20	6.40	
ASSEMBLERS, CLASS A ³	\$																											
ASSEMBLERS, CLASS B	451	5.27	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
ASSEMBLERS, CLASS C ³	563	4.47	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
CARPENTERS, MAINTENANCE ³	28	3.81	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
ELECTRICIANS, MAINTENANCE ³	10	5.69	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
INSPECTORS, CLASS A ⁴	177	6.01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
INSPECTORS, CLASS B ⁴	528	5.43	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
JANITORS, PORTERS, AND CLEANERS ³	116	4.60	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
LABORERS, MATERIAL HANDLING ⁴	471	3.56	8	9	16	20	6	14	19	20	33	77	115	42	47	45	-	-	-	-	-	-	-	-	-	-	-	
	339	4.21	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MACHINE-TOOL OPERATORS, PRODUCTION, CLASS A	2,744	5.40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TIME	2,688	5.35	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
AUTOMATIC-LATHE OPERATORS	219	5.11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
DRILL-PRESS OPERATORS, RADIAL ⁴	202	5.07	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
DRILL-PRESS OPERATORS, SINGLE- OR MULTIPLE-SPINDLE ³	150	5.09	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
ENGINE-LATHE OPERATORS	118	5.12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TIME	240	5.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
GRINDING-MACHINE OPERATORS ³	222	5.47	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MILLING-MACHINE OPERATORS	232	5.09	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TIME	351	5.24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TURRET-LATHE OPERATORS, HAND (INCLUDING HAND SCREW MACH)	322	5.22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TIME	488	5.37	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	419	5.31	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MACHINE-TOOL OPERATORS, PRODUCTION, CLASS B ³	1,239	5.01	-	-	-	-	-	-	-	6	4	8	-	4	14	9	24	33	154	149	172	111	386	54	37	59	7	5
TIME	930	5.00	-	-	-	-	-	-	-	6	4	8	-	4	14	9	24	33	112	82	128	44	362	14	34	52	-	-
AUTOMATIC-LATHE OPERATORS ⁴	73	5.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	3	7	20	5	37	-	-	-	
DRILL-PRESS OPERATORS, RADIAL	44	4.90	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	6	4	9	6	3	5	9	-	
TIME	22	5.03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	6	-	-	-	5	9	-	-	
DRILL-PRESS OPERATORS, SINGLE- OR MULTIPLE-SPINDLE ⁴	92	4.98	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	8	15	17	39	-	2	-	-	
ENGINE-LATHE OPERATORS	59	4.88	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	10	9	10	7	15	-	2	-	
TIME	53	4.85	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	10	8	9	5	13	-	2	-	
GRINDING-MACHINE OPERATORS	227	5.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	8	34	16	123	33	-	1	1	
TIME	165	5.16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	8	34	6	111	-	-	-	-	
MILLING-MACHINE OPERATORS	125	5.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	6	12	12	27	22	42	2	-	
TIME	97	4.98	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	6	12	10	22	5	40	-	-	
TURRET-LATHE OPERATORS, HAND (INCLUDING HAND SCREW MACH)	248	4.95	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	1	6	64	21	20	21	109	2	
TIME	223	4.96	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	1	6	60	11	19	13	109	-	
MACHINE-TOOL OPERATORS, PRODUCTION, CLASS C ⁵	431	3.91	-	-	-	-	-	-	25	16	22	2	6	82	44	17	67	44	22	56	10	11	3	4	-	-	-	-
TIME	349	3.71	-	-	-	-	-	-	25	16	22	2	6	82	44	17	67	43	15	10	-	11	3	4	-	-	-	-

See footnotes at end of table.

Table 11. Occupational earnings: Houston, Tex.¹—Continued

(Number and average straight-time hourly earnings² of workers in selected occupations in machinery manufacturing establishments, January 1975)

Occupation	Number of workers	Average hourly earnings ²	Number of workers receiving straight-time hourly earnings of—																															
			\$ 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	\$ 5.20	\$ 5.40	\$ 5.60	\$ 5.80	\$ 6.00	\$ 6.20	\$ 6.40						
			and under	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	5.20	5.40	5.60	5.80	6.00	6.20	6.40						
MACHINE-TOOL OPERATORS, PRODUCTION, CLASS C ³ —CONTINUED																																		
AUTOMATIC-LATHE OPERATORS ⁴ —	64	\$ 4.01	—	—	—	—	—	—	—	—	2	4	4	11	3	10	5	4	5	6	8	2	2	2	—	—	—	—	—	—				
MILLING-MACHINE OPERATORS ⁴ —	25	4.00	—	—	—	—	—	—	—	—	—	—	—	2	—	12	4	1	—	—	—	—	—	—	—	—	—	—	—	—	—			
TURRET-LATHE OPERATORS, HAND (INCLUDING HAND SCREW MACH) ³ —	53	4.00	—	—	—	—	—	—	—	—	—	—	—	4	14	6	13	7	4	5	—	—	—	—	—	—	—	—	—	—				
MACHINE-TOOL OPERATORS, PRODUCTION, NUMERICALLY CONTROLLED ⁵ —	506	5.50	—	—	—	—	—	—	—	—	—	—	—	2	12	—	6	17	10	9	8	106	52	121	106	33	22	2	—	—	—			
TIME —	444	5.42	—	—	—	—	—	—	—	—	—	—	—	2	12	—	6	17	10	9	8	106	52	121	106	33	22	2	—	—	—			
AUTOMATIC-LATHE OPERATORS —	170	5.70	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
DRILL-PRESS OPERATORS, SINGLE- OR MULTIPLE-SPINDLE ³ —	115	5.59	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4	5	10	61	55	33	—	—	—	—		
ENGINE-LATHE OPERATORS ³ —	34	5.30	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	16	9	9	—	—	—	—	—	—	—			
MILLING-MACHINE OPERATORS ³ —	35	5.30	—	—	—	—	—	—	—	—	—	—	—	—	2	—	—	4	—	—	—	20	2	27	—	—	—	—	—	—	—	—		
MACHINE-TOOL OPERATORS, TOOLROOM (ONE TYPE OF MACHINE) ⁴ —	154	5.31	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4	4	1	19	62	19	35	10	—	—	—	—	—	—	—		
GRINDING-MACHINE OPERATORS —	126	5.40	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4	4	1	19	34	19	35	10	—	—	—	—	—	—	—		
MACHINE-TOOL OPERATORS, TOOLROOM (MORE THAN ONE TYPE OF MACHINE) ³ —	203	5.99	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	6	2	4	12	28	12	113	20	4	—			
MACHINISTS, PRODUCTION ⁴ —	458	5.64	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	6	4	16	16	7	253	54	100	—	—			
MECHANICS, MAINTENANCE ⁴ —	317	6.16	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4	—	2	6	32	17	26	41	114	75	—			
TOOL AND DIEMAKERS (OTHER THAN JOBING) ³ —	144	6.16	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4	28	16	65	31	—			
TOOL CLERKS —	196	4.65	—	—	—	—	—	—	—	—	8	—	—	14	6	8	20	10	26	32	34	3	7	24	4	—	—	—	—	—	—	—		
TIME —	181	4.57	—	—	—	—	—	—	—	—	8	—	—	14	6	8	20	10	25	19	34	3	6	24	4	—	—	—	—	—	—	—		
WELDERS, HAND, CLASS A —	629	5.79	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	17	29	13	19	69	115	63	236	45	11	12			
TIME —	585	5.79	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	17	29	12	18	68	110	60	226	30	10	—			
WELDERS, HAND, CLASS B —	414	5.36	—	—	—	—	—	—	—	—	18	2	4	10	—	5	15	33	35	32	10	8	1	41	77	91	7	6	19	—	—	—		
TIME —	380	5.36	—	—	—	—	—	—	—	—	18	2	4	10	—	5	15	33	35	32	10	8	1	41	77	89	—	—	15	—	—	—		
WELDERS, MACHINE, CLASS A ³ —	27	6.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2	3	—	—	7	—	—	—	—	—	—	—		
WELDERS, MACHINE, CLASS B ³ —	17	5.78	—	—	—	—	—	—	—	—	—	—	—	—	—	1	—	1	3	—	—	—	—	3	—	9	—	—	—	—	—	—	—	—

¹ The Houston Standard Metropolitan Statistical Area consists of Brazoria, Fort Bend, Harris, Liberty, Montgomery, and Waller Counties.

² Excludes premium pay for overtime and for work on weekends, holidays, and late shifts. These surveys, based on a representative sample of establishments, are designed to measure the level of occupational earnings at a particular time. Thus, comparisons made with previous studies may not reflect expected wage movements because of change in the sample composition, and shifts in employment among establishments with different pay levels. Such shifts, for example, could de-

crease an occupational average, even though most establishments increased wages between periods being compared. Ninety percent of the workers covered by the survey were paid on a time basis.

³ All timeworkers.

⁴ Insufficient data to warrant publication of separate earnings data by method of wage payment; workers are paid predominantly on a time basis.

⁵ Includes data for operators of other machine tools in addition to those shown separately.

Table 12. Occupational earnings: Los Angeles—Long Beach and Anaheim—Santa Ana—Garden Grove, Calif.¹

(Number and average straight-time hourly earnings² of workers in selected occupations in machinery manufacturing establishments, January 1975)

Occupation	Number of workers	Average hourly earnings ² and under	Number of workers receiving straight-time hourly earnings of—																												
			\$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	\$5.20	\$5.40	\$5.60	\$5.80	\$6.00	\$6.20	\$6.40	\$6.80	\$7.20	\$7.60			
			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	5.20	5.40	5.60	5.80	6.00	6.20	6.40	6.80	7.20	7.60				
<u>Machinery</u>																															
ASSEMBLERS, CLASS A -----	1,270	\$4.71	-	-	-	-	-	5	12	50	62	114	151	98	57	135	52	109	159	67	140	33	20	3	3	-	-	-			
ASSEMBLERS, CLASS B -----	2,451	3.88	-	-	18	43	68	191	278	385	225	356	123	235	206	79	13	154	3	19	4	-	-	-	-	-	-	-			
ASSEMBLERS, CLASS C -----	3,257	2.91	100	351	465	489	513	500	343	234	136	66	21	2	5	3	4	1	24	-	-	-	-	-	-	-	-	-			
CARPENTERS, MAINTENANCE -----	30	5.33	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	4	1	5	3	6	4	-	-	-	-			
ELECTRICIANS, MAINTENANCE -----	143	5.68	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	34	7	10	14	15	45	11	1	-	-			
INSPECTORS, CLASS A -----	614	5.38	-	-	-	-	-	-	-	-	-	-	-	-	-	-	24	70	82	85	99	25	75	35	13	2	14	20	-		
INSPECTORS, CLASS B -----	486	4.30	-	-	-	3	12	11	18	35	48	51	56	35	30	101	12	7	31	8	20	5	-	3	-	-	-	-			
INSPECTORS, CLASS C -----	407	3.59	-	5	13	8	8	67	78	68	54	5	42	20	11	4	4	8	2	2	2	6	-	-	-	-	-	-			
JANITORS, PORTERS, AND CLEANERS -----	516	3.52	3	7	8	11	41	54	112	41	121	46	18	13	4	16	18	3	-	-	-	-	-	-	-	-	-	-			
LABORERS, MATERIAL HANDLING -----	199	3.82	-	-	-	3	15	34	7	24	20	27	11	6	12	3	37	-	-	-	-	-	-	-	-	-	-	-			
MACHINE-TOOL OPERATORS, PRODUCTION, CLASS A ³ -----	1,834	5.28	-	-	-	-	-	-	-	-	8	5	27	68	155	101	195	223	408	113	195	122	103	41	46	4	20	-			
AUTOMATIC-LATHE OPERATORS -----	120	5.17	-	-	-	-	-	-	-	-	3	3	3	6	33	-	-	3	28	1	21	3	18	1	-	-	-	-	-		
DRILL-PRESS OPERATORS, RADIAL -----	82	4.91	-	-	-	-	-	-	-	-	-	-	-	3	6	4	19	11	30	2	2	5	-	-	-	-	-	-	-		
DRILL-PRESS OPERATORS, SINGLE-OR MULTIPLE-SPINDLE -----	65	4.40	-	-	-	-	-	-	-	-	4	2	15	25	6	1	-	-	7	-	5	-	-	-	-	-	-	-	-		
ENGINE-LATHE OPERATORS -----	325	5.52	-	-	-	-	-	-	-	-	-	-	-	-	-	7	11	49	24	100	26	32	20	28	-	4	4	20	-		
GRINDING-MACHINE OPERATORS -----	305	5.27	-	-	-	-	-	-	-	-	-	-	-	-	13	38	-	27	38	90	10	26	40	15	1	7	-	-	-		
HILLING-MACHINE OPERATORS -----	263	5.18	-	-	-	-	-	-	-	-	-	-	3	-	24	10	36	85	51	19	10	11	6	4	4	-	-	-	-		
TURRET-LATHE OPERATORS, HAND (INCLUDING HAND SCREW MACH) -----	229	5.16	-	-	-	-	-	-	-	-	4	-	-	-	5	46	37	20	59	18	27	10	-	-	3	-	-	-	-		
MACHINE-TOOL OPERATORS, PRODUCTION, CLASS B ³ -----	1,017	4.56	-	-	-	-	-	3	44	62	37	38	83	154	109	129	82	57	114	31	63	11	-	-	-	-	-	-	-		
AUTOMATIC-LATHE OPERATORS -----	13	4.63	-	-	-	-	-	-	-	-	-	-	8	-	-	1	-	3	-	1	-	-	-	-	-	-	-	-	-		
DRILL-PRESS OPERATORS, RADIAL -----	95	4.37	-	-	-	-	-	-	17	-	-	3	9	24	4	7	7	12	12	-	-	-	-	-	-	-	-	-	-		
DRILL-PRESS OPERATORS, SINGLE-OR MULTIPLE-SPINDLE -----	127	4.15	-	-	-	-	-	-	-	13	12	24	12	9	17	-	3	27	4	6	-	-	-	-	-	-	-	-	-		
ENGINE-LATHE OPERATORS -----	71	4.75	-	-	-	-	-	-	-	-	-	-	2	6	17	28	8	-	1	2	7	-	-	-	-	-	-	-	-		
GRINDING-MACHINE OPERATORS -----	99	4.63	-	-	-	-	-	-	-	-	3	7	20	10	31	8	7	-	9	2	1	-	-	-	-	-	-	-	-		
MILLING-MACHINE OPERATORS -----	150	4.65	-	-	-	-	-	-	-	2	4	7	4	10	24	36	2	9	11	27	6	8	-	-	-	-	-	-	-		
SCREW-MACHINE OPERATORS, AUTOMATIC -----	53	5.17	-	-	-	-	-	-	-	-	-	-	3	-	-	17	3	8	1	1	10	10	-	-	-	-	-	-	-	-	
TURRET-LATHE OPERATORS, HAND (INCLUDING HAND SCREW MACH) -----	176	4.42	-	-	-	-	-	-	6	37	-	-	15	28	26	9	9	8	16	10	12	-	-	-	-	-	-	-	-	-	
MACHINE-TOOL OPERATORS, PRODUCTION, CLASS C ³ -----	666	3.60	5	21	61	44	33	79	51	24	81	34	63	30	80	4	3	52	-	1	-	-	-	-	-	-	-	-	-		
DRILL-PRESS OPERATORS, RADIAL -----	16	4.07	-	-	-	-	-	-	-	8	2	2	-	-	3	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DRILL-PRESS OPERATORS, SINGLE-OR MULTIPLE-SPINDLE -----	140	3.20	5	-	26	20	8	12	9	13	33	3	4	1	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
ENGINE-LATHE OPERATORS -----	39	3.76	-	-	-	-	-	7	7	7	-	-	8	3	-	-	-	7	-	-	-	-	-	-	-	-	-	-	-	-	-
GRINDING-MACHINE OPERATORS -----	85	3.66	-	6	6	3	6	13	10	-	-	-	4	-	30	1	3	2	-	1	-	-	-	-	-	-	-	-	-	-	
MILLING-MACHINE OPERATORS -----	108	3.74	-	3	-	6	-	35	16	-	-	-	10	6	12	-	-	20	-	-	-	-	-	-	-	-	-	-	-	-	
TURRET-LATHE OPERATORS, HAND (INCLUDING HAND SCREW MACH) -----	76	3.37	-	3	20	3	3	9	-	-	10	12	6	5	-	-	-	5	-	-	-	-	-	-	-	-	-	-	-	-	

See footnotes at end of table.

Table 12. Occupational earnings: Los Angeles—Long Beach and Anaheim—Santa Ana—Garden Grove, Calif.¹—Continued

(Number and average straight-time hourly earnings² of workers in selected occupations in machinery manufacturing establishments, January 1975)

Occupation	Number of workers	Average hourly earnings ⁴	Number of workers receiving straight-time hourly earnings of—																											
			\$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	\$5.20	\$5.40	\$5.60	\$5.80	\$6.00	\$6.20	\$6.40	\$6.80	\$7.20	\$7.60		
			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	5.20	5.40	5.60	5.80	6.00	6.20	6.40	6.80	7.20	7.60			
Machinery—Continued																														
MACHINE-TOOL OPERATORS, PRODUCTION NUMERICALLY CONTROLLED ³ -----	436	\$5.43	-	-	-	-	-	-	6	6	12	30	-	18	13	31	22	31	45	22	11	15	29	44	4	25	-	72	-	
AUTOMATIC-LATHE OPERATORS -----	46	5.10	-	-	-	-	-	-	-	-	-	-	-	-	-	3	13	3	-	5	9	8	-	-	-	-	5	-	-	-
DRILL-PRESS OPERATORS, RADIAL -----	29	4.83	-	-	-	-	-	-	-	-	-	-	-	-	6	4	-	6	-	5	-	8	-	-	-	-	-	-	-	-
ENGINE-LATHE OPERATORS -----	63	5.67	-	-	-	-	-	-	-	-	-	-	-	-	-	3	8	2	-	10	-	1	15	19	-	5	-	-	-	-
MILLING-MACHINE OPERATORS -----	72	5.46	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11	27	3	2	1	12	9	1	6	-	-	-	-	-
MACHINE-TOOL OPERATORS, TOOLROOM (ONE TYPE OF MACHINE) ³ -----	316	6.17	-	-	-	-	-	-	-	-	-	-	-	-	-	5	-	10	-	11	3	25	25	10	48	43	113	18	5	-
ENGINE-LATHE OPERATORS -----	111	6.30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	17	6	17	16	55	-	-	-	-
GRINDING-MACHINE OPERATORS -----	50	5.99	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	3	15	8	4	-	13	6	-	-	-	
MILLING-MACHINE OPERATORS -----	108	6.33	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	-	-	-	10	-	-	25	16	35	12	5	-
MACHINE-TOOL OPERATORS, TOOLROOM (MORE THAN ONE TYPE OF MACHINE) -	154	5.83	-	-	-	-	-	-	-	-	-	-	-	-	-	3	15	5	-	2	23	4	13	8	13	33	29	6	-	-
MACHINISTS, MAINTENANCE -----	139	6.06	-	-	-	-	-	-	-	-	-	-	-	-	-	4	-	-	6	-	9	12	6	4	70	14	2	12	4	-
MACHINISTS, PRODUCTION -----	582	5.71	-	-	-	-	-	-	-	-	-	-	-	-	-	4	-	6	-	11	52	91	252	89	37	37	3	-	-	-
MECHANICS, MAINTENANCE -----	162	5.38	-	-	-	-	-	-	-	-	-	-	-	-	-	3	15	27	6	12	12	19	34	9	5	12	7	1	-	-
POLISHERS AND BUFFERS, METAL -----	94	3.73	-	-	-	-	-	-	18	-	42	4	-	-	-	-	5	7	5	13	-	-	-	-	-	-	-	-	-	-
POLISHING- AND BUFFING-MACHINE OPERATORS -----	137	3.65	15	10	5	-	-	-	-	-	-	-	-	-	7	57	8	23	-	-	12	-	-	-	-	-	-	-	-	-
PUNCH-PRESS OPERATORS, CLASS A -----	36	4.88	-	-	-	-	-	-	-	-	-	1	1	3	3	-	9	1	13	1	1	-	-	-	3	-	-	-	-	
SET-UP MEN, MACHINE TOOLS -----	58	5.62	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8	23	-	-	3	-	8	8	-	-	-	-	
TOOL AND DIEMAKERS (JOBPING) -----	850	6.80	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	22	-	-	108	140	83	257	136	104		
TOOL AND DIEMAKERS (OTHER THAN JOBPING) -----	361	6.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	6	4	8	28	33	65	88	111	12	5	-	
TOOL CLERKS -----	132	4.58	-	-	-	-	-	-	-	-	-	-	-	-	4	9	12	-	20	13	30	15	8	17	-	-	-	-	-	
WELDERS, HAND, CLASS A -----	1,073	5.60	-	-	-	-	-	-	-	-	-	-	-	-	6	18	32	25	18	55	63	166	349	98	173	61	1	4	4	-
WELDERS, HAND, CLASS B -----	457	4.76	-	3	-	-	-	-	-	12	-	-	-	-	17	106	16	21	156	27	47	18	34	-	-	-	-	-	-	
WELDERS, MACHINE, CLASS A -----	188	5.34	-	-	-	-	-	-	-	-	-	-	-	-	3	3	-	4	33	93	21	6	7	18	-	-	-	-	-	
WELDERS, MACHINE, CLASS B -----	82	4.76	-	-	-	-	-	-	-	-	-	-	-	-	4	-	27	-	48	-	-	-	-	-	3	-	-	-	-	

¹ The Los Angeles—Long Beach and Anaheim—Santa Ana—Garden Grove Standard Metropolitan Statistical Areas consist of Los Angeles and Orange Counties.

² Excludes premium pay for overtime and for work on weekends, holidays, and late shifts. These surveys, based on a representative sample of establishments are designed to measure the level of occupational earnings at a particular time. Thus, comparisons, made with previous studies may not

reflect expected wage movements because of change in the sample composition, and shifts in employment among establishments with different pay levels. Such shifts, for example, could decrease an occupational average, even though most establishments increased wages between periods being compared. Virtually all workers were paid on a time basis.

³ Includes data for operators of other machine tools in addition to those shown separately.

Table 13. Occupational earnings: Milwaukee, Wis.¹

(Number and average straight-time hourly earnings² of workers in selected occupations in machinery manufacturing establishments, December 1974)

Occupation	Number of workers	Average hourly earnings ²	Number of workers receiving straight-time hourly earnings of—																											
			\$ Under \$ 3.60	\$ 3.60	\$ 3.70	\$ 3.80	\$ 3.90	\$ 4.00	\$ 4.20	\$ 4.40	\$ 4.60	\$ 4.80	\$ 5.00	\$ 5.20	\$ 5.40	\$ 5.60	\$ 5.80	\$ 6.00	\$ 6.20	\$ 6.40	\$ 6.60	\$ 6.80	\$ 7.00	\$ 7.20	\$ 7.40	\$ 7.60	\$ 7.80	\$ 8.00		
			3.70	3.80	3.90	4.00	4.20	4.40	4.60	4.80	5.00	5.20	5.40	5.60	5.80	6.00	6.20	6.40	6.60	6.80	7.00	7.20	7.40	7.60	7.80	8.00				
Machinery³																														
ASSEMBLERS, CLASS A -----	1,378	\$ 5.68	48	4	-	8	4	8	4	8	77	50	213	96	112	106	119	121	72	153	89	24	20	20	15	3	2	2		
TIME -----	610	5.42	-	-	-	-	-	-	-	-	57	30	190	82	84	66	18	13	6	18	48	-	-	-	15	3	2	2		
INCENTIVE -----	768	5.89	48	4	-	8	4	8	4	8	20	20	23	14	28	42	101	108	66	135	41	24	20	20	15	3	3	3		
ASSEMBLERS, CLASS B -----	1,767	5.24	-	-	-	-	23	4	21	364	185	281	152	128	115	58	62	20	213	66	26	19	9	8	5	3	3	2		
TIME -----	1,009	4.75	-	-	-	-	23	3	18	362	173	198	126	88	12	-	6	-	-	-	-	-	-	-	-	-	-	-	-	
INCENTIVE -----	758	5.89	-	-	-	-	-	1	3	2	12	83	26	40	103	58	56	20	213	66	26	19	9	8	5	3	3	2		
ASSEMBLERS, CLASS C -----	2,167	5.84	37	-	8	-	5	37	108	176	168	60	36	59	78	71	112	127	231	352	255	85	74	11	42	17	7	11		
TIME -----	398	4.46	25	-	2	-	-	34	77	104	127	24	4	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
CARPENTERS, MAINTENANCE -----	21	5.77	-	-	-	-	-	-	1	-	1	-	3	1	3	2	6	3	-	1	-	-	-	-	-	-	-	-		
TIME -----	15	5.68	-	-	-	-	-	-	-	1	-	1	-	3	1	3	2	3	-	1	-	-	-	-	-	-	-	-		
ELECTRICIANS, MAINTENANCE -----	235	6.17	-	-	-	-	-	-	-	2	3	2	35	24	13	29	18	12	28	22	5	2	39	1	-	-	-	-		
TIME -----	214	6.16	-	-	-	-	-	-	-	-	2	3	25	24	13	29	17	11	18	16	5	2	39	1	-	-	-	-		
INSPECTORS, CLASS A -----	538	5.64	-	-	-	-	-	12	15	17	6	11	36	41	129	43	110	43	19	21	20	10	-	3	-	-	-	1		
TIME -----	511	5.62	-	-	-	-	-	12	16	17	6	11	36	41	129	43	90	39	19	20	20	10	-	2	-	-	-	-		
INSPECTORS, CLASS B ⁴ -----	573	5.40	-	-	-	-	-	2	6	34	4	17	37	17	135	36	228	37	13	3	2	-	1	-	-	-	-	-		
JANITORS, PORTERS, AND CLEANERS -----	480	4.47	563	8	9	8	7	24	47	100	34	126	20	29	5	-	-	-	-	-	-	-	-	-	-	-	-	-		
TIME -----	461	4.48	57	8	9	8	7	24	47	100	32	115	20	29	5	-	-	-	-	-	-	-	-	-	-	-	-	-		
MACHINE-TOOL OPERATORS, PRODUCTION⁵																														
CLASS A ⁶ -----	2,877	\$ 5.75	12	-	4	12	6	22	28	62	141	125	170	338	418	249	239	164	367	136	179	109	43	13	9	10	2	19		
TIME -----	1,310	5.59	-	-	4	12	-	6	6	48	49	108	267	321	144	132	24	2b	32	97	30	-	-	-	-	-	-	-	-	
INCENTIVE -----	1,567	5.89	12	-	4	12	6	22	22	56	93	76	62	51	97	105	107	140	341	104	82	79	43	13	9	10	2	19		
AUTOMATIC-LATHE OPERATORS -----	174	5.84	-	-	-	-	-	-	1	6	12	11	4	10	11	24	29	10	11	13	29	3	-	-	-	-	-	-	-	
TIME -----	85	5.49	-	-	-	-	-	-	-	2	-	-	-	9	4	17	29	10	-	-	24	-	-	-	-	-	-	-	-	
INCENTIVE -----	89	5.69	-	-	-	-	-	-	-	1	4	12	11	4	1	7	7	-	10	11	13	5	3	-	-	-	-	-		
DRILL-PRESS OPERATORS, RADIAL -----	196	5.35	-	-	-	-	-	-	1	2	6	7	28	22	74	16	3	17	2	7	4	2	2	1	2	-	-	-		
TIME -----	104	5.16	-	-	-	-	-	-	-	-	-	-	22	15	67	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
INCENTIVE -----	92	5.56	-	-	-	-	-	-	1	2	6	7	7	7	16	3	17	2	7	4	2	2	1	2	-	-	-	-		
DRILL-PRESS OPERATORS, SINGLE- OR MULTIPLE-SPINDLE -----	135	5.62	-	-	-	-	-	-	4	-	12	8	2	8	6	9	21	13	21	27	4	-	-	-	-	-	-	-	-	
INCENTIVE -----	120	5.62	-	-	-	-	-	-	4	-	12	8	2	8	5	6	10	13	21	27	4	-	-	-	-	-	-	-	-	
ENGINE-LATHE OPERATORS -----	206	5.71	-	-	-	-	-	-	-	4	8	9	7	15	34	30	8	15	13	18	16	14	7	4	1	-	-	-		
TIME -----	131	5.76	-	-	-	-	-	-	-	-	-	-	-	17	29	28	5	10	6	12	12	12	-	-	-	-	-	-	-	-
INCENTIVE -----	75	5.63	-	-	-	-	-	-	-	4	8	9	7	1	5	2	3	5	7	6	4	2	7	4	1	-	-	-	-	
GRINDING-MACHINE OPERATORS -----	240	5.94	-	-	-	-	-	-	-	-	-	-	2	4	8	18	34	44	28	13	49	10	24	3	2	-	-	-	-	
TIME -----	159	5.81	-	-	-	-	-	-	-	-	-	2	2	8	17	30	34	24	7	5	6	24	-	-	-	-	-	-	-	-
INCENTIVE -----	81	6.19	-	-	-	-	-	-	-	-	-	-	2	-	1	4	10	4	6	44	4	-	3	2	-	1	-	-	-	-
MILLING-MACHINE OPERATORS -----	199	5.77	-	-	-	4	-	-	-	3	13	16	5	30	25	12	15	12	25	1	17	6	3	1	-	2	6	-	-	
TIME -----	85	5.38	-	-	-	-	-	-	-	1	12	9	5	26	15	2	-	-	-	-	12	-	-	-	-	-	-	-	-	-
INCENTIVE -----	114	6.07	-	-	-	4	-	-	-	2	1	7	-	4	19	10	15	12	25	1	5	6	3	1	-	2	6	-	-	
SCREW-MACHINE OPERATORS, AUTOMATIC -----	126	5.81	-	-	-	-	-	-	3	-	8	2	2	16	2	10	39	14	23	4	1	2	-	-	-	-	-	-	-	-
TIME -----	93	5.74	-	-	-	-	-	-	3	-	6	-	16	2	7	39	11	9	1	-	-	-	-	-	-	-	-	-	-	-
INCENTIVE -----	33	6.30	-	-	-	-	-	-	-	2	2	-	2	3	-	3	14	3	-	2	-	-	-	-	-	-	-	-	-	-
TURRET-LATHE OPERATORS, HAND (INCLUDING HAND SCREW MACH) -----	623	5.48	12	-	4	8	6	16	15	20	47	34	46	59	112	40	42	39	54	19	16	18	9	4	-	1	-	2		
TIME -----	169	5.42	-	-	4	8	6	16	15	20	45	32	22	15	38	30	29	39	54	19	16	18	9	4	-	1	-	2		
INCENTIVE -----	454	5.50	12	-	4	8	6	16	15	20	45	32	22	15	38	30	29	39	54	19	16	18	9	4	-	1	-	2		

See footnotes at end of table.

Table 13. Occupational earnings: Milwaukee, Wis.¹ —Continued

(Number and average straight-time hourly earnings² of workers in selected occupations in machinery manufacturing establishments, December 1974)

Occupation	Number of workers	Average hourly earnings ²	Number of workers receiving straight-time hourly earnings of—																																
			\$3.60 and under	\$3.70	\$3.80	\$3.90	\$4.00	\$4.20	\$4.40	\$4.60	\$4.80	\$5.00	\$5.20	\$5.40	\$5.60	\$5.80	\$6.00	\$6.20	\$6.40	\$6.60	\$6.80	\$7.00	\$7.20	\$7.40	\$7.60	\$7.80	\$8.00								
			3.70	3.80	3.90	4.00	4.20	4.40	4.60	4.80	5.00	5.20	5.40	5.60	5.80	6.00	6.20	6.40	6.60	6.80	7.00	7.20	7.40	7.60	7.80	8.00	and over								
<u>Machinery³—Continued</u>																																			
MACHINE-TOOL OPERATORS, PRODUCTION, CLASS B ⁶	2,148	\$5.48	-	-	1	-	1	9	71	88	245	260	261	200	238	180	116	129	86	49	45	41	23	24	20	21	19	21							
TIME	1,092	4.98	-	-	-	-	1	7	56	82	215	222	226	115	102	42	6	18	-	1	-	-	-	-	-	-	-	-	-						
INCENTIVE	1,056	6.00	-	-	1	-	1	2	15	6	30	38	35	85	136	138	110	111	86	48	45	41	23	24	20	21	19	21							
AUTOMATIC-LATHE OPERATORS ⁴	234	5.32	-	-	-	-	-	-	-	-	1	125	11	10	13	17	23	10	6	7	6	3	2	-	-	-	-	-							
DRILL-PRESS OPERATORS, RADIAL	256	5.59	-	-	-	-	-	-	6	-	27	13	57	18	36	26	13	17	8	2	9	5	4	-	4	5	3	3							
TIME	113	5.04	-	-	-	-	-	-	6	-	20	7	55	5	20	-	-	-	-	-	-	-	-	-	-	-	-	-							
INCENTIVE	143	6.02	-	-	-	-	-	-	-	-	7	6	2	13	16	26	13	17	8	2	9	5	4	-	4	5	3	3							
DRILL-PRESS OPERATORS, SINGLE-OR MULTIPLE-SPINDLE	239	5.25	-	-	-	-	-	-	6	-	48	38	14	12	18	33	17	15	14	13	4	1	3	-	-	1	1	-	1						
TIME	142	4.80	-	-	-	-	-	-	6	-	48	37	13	12	11	11	4	-	-	-	-	-	-	-	-	-	-	-							
INCENTIVE	97	5.91	-	-	-	-	-	-	-	-	-	1	1	7	22	13	15	14	13	4	1	3	-	-	1	1	2	-	-						
ENGINE-LATHE OPERATORS	90	5.31	-	-	-	-	-	-	1	6	6	19	1	15	7	13	3	2	2	1	2	1	-	2	3	1	2	-	-						
TIME	42	4.97	-	-	-	-	-	-	6	14	-	14	1	6	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
INCENTIVE	48	5.60	-	-	-	-	-	-	1	6	-	5	1	4	6	7	2	2	2	1	-	2	3	1	2	-	-	-	-						
GRINDING-MACHINE OPERATORS	275	5.68	-	-	-	-	-	-	-	-	33	45	11	17	31	37	10	16	16	10	14	21	8	2	4	-	-	-	-						
TIME	100	4.97	-	-	-	-	-	-	-	-	31	37	5	11	13	3	-	-	-	-	-	-	-	-	-	-	-	-	-						
INCENTIVE	175	6.08	-	-	-	-	-	-	-	-	2	8	6	6	18	34	10	16	16	10	14	21	8	2	4	-	-	-	-						
MILLING-MACHINE OPERATORS	236	5.39	-	-	-	-	-	-	13	19	37	13	15	21	39	25	10	15	8	11	3	-	1	1	-	-	1	3	-	-					
TIME	117	4.94	-	-	-	-	-	-	12	18	33	10	7	10	15	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
INCENTIVE	119	5.84	-	-	-	-	-	-	1	1	4	3	8	11	24	14	10	15	8	10	3	-	1	1	1	-	-	1	3	-	-				
SCREW-MACHINE OPERATORS, AUTOMATIC	39	5.33	-	-	-	-	-	-	3	-	-	3	10	10	10	-	9	1	-	1	-	1	1	-	-	-	-	-	-	-	-	-			
TIME	32	5.18	-	-	-	-	-	-	3	-	-	3	10	8	-	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
TURRET-LATHE OPERATORS, HAND (INCLUDING HAND SCREW MACH)	212	5.52	-	-	1	-	1	1	8	2	15	24	65	15	13	15	15	6	3	2	3	-	2	4	2	2	3	10	-	-	-				
TIME	111	5.06	-	-	1	-	1	1	8	-	3	5	2	6	10	12	15	6	3	2	3	-	2	4	2	2	3	10	-	-	-				
INCENTIVE	101	6.03	-	-	1	-	1	1	8	-	3	5	2	6	10	12	15	6	3	2	3	-	2	4	2	2	3	10	-	-	-				
MACHINE-TOOL OPERATORS, PRODUCTION, CLASS C ⁶	1,181	5.49	18	3	3	15	16	99	8	30	64	117	96	87	94	94	95	77	68	49	41	30	29	13	10	6	8	11	-	-	-				
TIME	255	4.57	-	3	-	6	-	77	6	27	40	61	19	8	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
DRILL-PRESS OPERATORS, RADIAL ⁴	42	4.63	-	-	3	6	3	-	-	1	24	1	1	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
DRILL-PRESS OPERATORS, SINGLE-OR MULTIPLE-SPINDLE	349	5.68	-	3	-	-	-	1	-	1	3	28	59	17	44	21	25	36	24	26	13	11	10	10	4	2	1	4	6	-	-	-			
TIME	50	4.73	-	3	-	-	-	-	-	2	23	18	2	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MILLING-MACHINE OPERATORS	143	5.86	3	-	-	-	-	-	-	-	-	6	5	13	6	22	19	13	15	9	10	7	5	1	3	1	-	3	2	-	-	-			
INCENTIVE	138	5.90	3	-	-	-	-	-	-	-	2	5	12	6	22	19	13	15	9	10	7	5	1	3	1	-	3	2	-	-	-	-			
SCREW-MACHINE OPERATORS, AUTOMATIC ⁵	14	4.98	-	-	-	-	-	-	3	-	-	-	4	5	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
TURRET-LATHE OPERATORS, HAND (INCLUDING HAND SCREW MACH)	71	4.76	3	-	-	3	6	15	-	1	4	19	7	2	3	-	2	1	1	3	-	-	1	-	-	-	-	-	-	-	-	-	-		
INCENTIVE	48	4.65	3	-	-	3	6	15	-	1	2	4	1	2	3	-	2	1	1	3	-	-	1	-	-	-	-	-	-	-	-	-	-		
MACHINE-TOOL OPERATORS, PRODUCTION NUMERICALLY CONTROLLED ⁶	367	5.48	-	4	-	-	-	-	22	3	8	13	41	41	67	34	22	30	12	23	11	8	8	8	7	1	2	2	2	-	-	-	-	-	
TIME	236	5.26	-	4	-	-	-	-	18	2	4	12	32	30	52	25	12	16	4	10	6	3	3	1	2	-	-	-	-	-	-	-	-	-	-
INCENTIVE	131	5.87	-	-	-	-	-	-	4	1	4	1	9	11	15	9	10	14	8	13	5	5	5	7	5	1	2	2	2	-	-	-	-	-	-
AUTOMATIC-LATHE OPERATORS	16	5.43	-	-	-	-	-	-	-	-	-	-	-	-	12	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TIME	15	5.32	-	-	-	-	-	-	-	-	-	-	-	-	12	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DRILL-PRESS OPERATORS, RADIAL ⁴	22	5.23	-	-	-	-	-	-	4	-	1	-	-	-	5	4	3	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DRILL-PRESS OPERATORS, SINGLE-OR MULTIPLE-SPINDLE	63	5.55	-	-	-	-	-	-	-	1	3	-	3	1	1	2	-	1	2	2	2	1	3	-	-	2	1	2	1	2	1	1	-	-	-
INCENTIVE	25	6.12	-	-	-	-	-	-	-	1	3	-	1	1	2	-	1	2	2	2	2	1	3	-	-	2	1	2	1	2	1	1	-	-	-

See footnotes at end of table.

Table 13. Occupational earnings: Milwaukee, Wis.¹ — Continued

(Number and average straight-time hourly earnings² of workers in selected occupations in machinery manufacturing establishments, December 1974)

Occupation	Number of workers	Average hourly earnings ²	Number of workers receiving straight-time hourly earnings of—																														
			\$ 3.60	\$ 3.70	\$ 3.80	\$ 3.90	\$ 4.00	\$ 4.20	\$ 4.40	\$ 4.60	\$ 4.80	\$ 5.00	\$ 5.20	\$ 5.40	\$ 5.60	\$ 5.80	\$ 6.00	\$ 6.20	\$ 6.40	\$ 6.60	\$ 6.80	\$ 7.00	\$ 7.20	\$ 7.40	\$ 7.60	\$ 7.80	\$ 8.00						
			Under \$ 3.60	3.70	3.80	3.90	4.00	4.20	4.40	4.60	4.80	5.00	5.20	5.40	5.60	5.80	6.00	6.20	6.40	6.60	6.80	7.00	7.20	7.40	7.60	7.80	8.00						
Machinery ³ —Continued																																	
MACHINE-TOOL OPERATORS, TOOLROOM (ONE TYPE OF MACHINE) ⁴	348	\$ 5.89	-	-	-	-	-	-	8	40	10	8	21	19	49	5	4	8	25	49	60	20	7	15	-	-	-						
TIME	331	5.91	-	-	-	-	-	-	8	40	9	8	21	17	39	3	4	6	25	49	60	20	7	15	-	-	-						
ENGINE-LATHE OPERATORS	33	6.34	-	-	-	-	-	-	-	-	-	-	-	-	-	1	6	11	11	4	-	-	-	-	-	-	-						
TIME	31	6.36	-	-	-	-	-	-	8	37	8	4	9	18	14	2	-	-	4	2	6	6	2	-	-	-	-	-					
GRINDING-MACHINE OPERATORS	120	5.20	-	-	-	-	-	-	8	37	7	4	9	16	4	-	-	4	2	6	6	2	-	-	-	-	-						
TIME	105	5.16	-	-	-	-	-	-	8	37	7	1	8	-	13	-	-	-	22	13	-	-	-	-	-	-	-						
MILLING-MACHINE OPERATORS ⁷	57	6.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
MACHINE-TOOL OPERATORS, TOOLROOM (MORE THAN ONE TYPE OF MACHINE)	355	6.10	-	-	-	-	-	-	8	4	3	18	9	3	39	62	16	36	22	24	55	7	15	10	15	4	5	-					
TIME	341	6.13	-	-	-	-	-	-	8	4	3	15	7	1	36	60	15	35	22	24	55	7	15	10	15	4	5	-					
MACHINISTS, MAINTENANCE ⁷	21	5.87	-	-	-	-	-	-	-	-	-	-	-	-	5	5	7	-	-	4	-	-	-	-	-	-	-	-					
MACHINISTS, PRODUCTION ⁷	43	5.38	4	-	-	-	-	-	2	-	2	4	2	2	-	2	6	6	9	3	-	1	-	-	-	-	-	-					
MECHANICS, MAINTENANCE	283	5.85	-	-	-	-	-	-	4	-	16	4	16	42	22	26	17	15	25	16	15	13	6	20	24	2	-	-					
TIME	271	5.85	-	-	-	-	-	-	4	-	16	4	16	42	21	26	15	12	20	16	15	13	6	20	23	2	-	-					
POLISHERS AND BUFFERS, METAL ⁷	71	5.19	-	-	-	-	-	-	2	3	15	6	9	3	2	9	15	-	-	2	3	-	-	-	-	-	-	-					
POLISHING- AND BUFFING-MACHINE OPERATORS ⁷	93	4.38	-	18	-	-	3	15	9	16	8	6	18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
PUNCH-PRESS OPERATORS, CLASS A	197	5.16	-	-	-	-	-	-	8	6	8	103	6	24	7	2	5	8	10	-	4	3	3	-	-	-	-	-	-				
TIME	160	4.91	-	-	-	-	-	-	8	6	8	102	6	24	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
INCENTIVE	37	6.26	-	-	-	-	-	-	-	-	-	1	-	-	1	2	5	8	10	-	4	3	3	-	-	-	-	-	-				
PUNCH-PRESS OPERATORS, CLASS B	198	5.50	6	-	6	4	8	2	3	7	39	8	5	6	15	10	9	15	10	8	5	6	6	3	5	6	3	3					
TIME	77	4.36	6	-	6	4	8	2	2	4	38	5	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
SET-UP MEN, MACHINE TOOLS: INCENTIVE	18	5.60	-	-	-	-	-	-	3	6	-	-	-	-	2	1	2	-	-	-	1	-	-	2	-	1	-	-	-	-			
TOOL AND DIEMAKERS (JOBbing) ⁷	501	6.77	-	-	-	-	-	-	-	-	-	-	-	-	2	2	4	28	23	20	55	57	125	78	97	10	-	-	-				
TOOL AND DIEMAKERS (OTHER THAN JOBbing) ⁷	353	6.58	-	-	-	-	-	-	2	-	4	8	5	27	37	2	37	9	22	17	23	7	26	46	23	17	31	13	-				
TOOL CLFRKS	129	4.77	7	-	6	-	3	7	12	9	22	13	23	4	10	3	10	-	-	-	-	-	-	-	-	-	-	-	-	-			
TIME	122	4.81	4	-	6	-	3	7	12	9	18	13	23	4	10	3	10	-	-	-	-	-	-	-	-	-	-	-	-	-			
WELDERS, HAND, CLASS A	740	5.98	-	-	-	-	-	-	1	7	8	25	23	58	40	99	58	46	102	56	47	66	38	26	22	5	2	4	7				
TIME	259	5.32	-	-	-	-	-	-	1	4	6	22	23	58	36	54	32	1	5	5	6	4	-	2	-	-	-	-	-	-	-		
INCENTIVE	481	6.34	-	-	-	-	-	-	3	2	3	-	-	4	45	26	45	97	51	41	62	38	26	20	5	2	4	7	-	-			
WELDERS, HAND, CLASS B	1,034	5.42	-	-	-	-	-	-	3	2	46	31	343	91	13	83	68	59	22	49	49	41	32	21	27	12	26	8	5	3			
TIME	574	4.78	-	-	-	-	-	-	2	44	31	343	89	6	34	24	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
INCENTIVE	460	6.22	-	-	-	-	-	-	3	2	-	-	2	7	49	44	58	22	49	49	41	32	21	27	12	26	8	5	3	-	-		
WELDERS, MACHINE, CLASS A	377	5.52	-	-	-	-	-	-	4	-	-	2	51	129	62	57	28	20	8	6	2	2	6	-	-	-	-	-	-	-	-		
TIME	262	5.38	-	-	-	-	-	-	-	18	69	54	14	22	-	1	1	1	2	-	-	-	1	2	1	1	-	-	-	-	-	-	
WELDERS, MACHINE, CLASS B	187	4.91	-	-	-	-	-	-	18	69	54	14	22	-	-	-	-	-	-	-	-	-	-	-	2	1	1	-	-	-	-	-	-
TIME	177	4.81	-	-	-	-	-	-	18	69	54	14	22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

¹ The Milwaukee Standard Metropolitan Area consists of Milwaukee, Ozaukee, Washington, and Waukesha Counties.

² Excludes premium pay for overtime and for work on weekends, holidays, and late shifts. These surveys, based on a representative sample of establishments, are designed to measure the level of occupational earnings at a particular time. Thus, comparisons made with previous studies may not reflect expected wage movements because of change in the sample composition, and shifts in employment among establishments with different pay levels. Such shifts, for example, could decrease an occupational average, even though most establishments increased wages between periods being compared.

³ Includes data for special dies, tools, jigs, and fixtures, and farm and construction machinery.

⁴ Insufficient data to warrant publication of separate earnings data by method of wage payment; workers are paid predominantly on a time basis.

⁵ Workers were distributed as follows: 4 at \$2.50 to \$2.60; 6 at \$2.90 to \$3; 5 at \$3.10 to \$3.20; 14 at \$3.20 to \$3.30; 4 at \$3.40 to \$3.50; and 30 at \$3.50 to \$3.60.

⁶ Includes data for operators of other machine tools in addition to those shown separately.

⁷ All timeworkers.

Table 14. Occupational earnings: Minneapolis-St. Paul, Minn.¹

(Number and average straight-time hourly earnings² of workers in selected occupations in machinery manufacturing establishments, November 1974)

Occupation	Number of workers	Average hourly earnings ² Under \$3.00 \$3.00 3.10 3.20 3.30 3.40	Number of workers receiving straight-time hourly earnings of—																									
			\$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	\$5.20	\$5.40	\$5.60	\$5.80	\$6.00	\$6.20	\$6.40	\$6.60	\$6.80	\$7.00	\$7.20	\$7.40	
			3.10	3.20	3.30	3.40	3.60	3.80	4.00	4.20	4.40	4.60	4.80	5.00	5.20	5.40	5.60	5.80	6.00	6.20	6.40	6.60	6.80	7.00	7.20	7.40		
<u>Machinery³</u>																												
ASSEMBLERS, CLASS A -----	1,391	\$5.20	-	-	-	-	-	-	-	5	100	148	15	187	102	402	125	199	7	90	6	2	-	-	2	-	1	
ASSEMBLERS, CLASS B -----	1,172	4.28	18	8	18	-	-	-	15	45	567	182	53	81	94	32	27	32	-	-	-	-	-	-	-	-	-	4.19
ELECTRICIANS, MAINTENANCE -----	41	7.26	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	6	-	1	2	4	1	2	-	-	-	
INSPECTORS, CLASS A -----	413	5.16	-	-	-	-	-	-	-	2	13	54	131	27	35	43	59	34	15	-	-	-	-	-	-	-	-	
INSPECTORS, CLASS B -----	280	4.32	-	3	-	4	-	-	9	18	85	75	23	27	20	-	5	3	8	8	-	-	-	-	-	-	-	
JANITORS, PORTERS, AND CLEANERS -----	368	4.06	-	3	-	-	-	-	9	30	167	65	24	28	18	8	10	-	-	6	-	-	-	-	-	-	-	
LABORERS, MATERIAL HANDLING -----	402	4.42	-	-	-	-	-	-	5	85	122	29	11	8	36	100	-	-	-	6	-	-	-	-	-	-	-	
MACHINE-TOOL OPERATORS, PRODUCTION, CLASS A ⁵ -----	1,440	5.40	-	-	-	-	-	-	-	-	-	7	83	37	315	219	296	369	13	99	-	-	1	1	-	-	-	
AUTOMATIC-LATHE OPERATORS -----	176	5.50	-	-	-	-	-	-	-	-	-	7	11	-	22	24	12	61	6	33	-	-	-	-	-	-	-	
DRILL-PRESS OPERATORS, RADIAL -----	125	5.20	-	-	-	-	-	-	-	-	-	40	11	19	16	5	28	-	5	-	1	-	-	-	-	-	-	
DRILL-PRESS OPERATORS, SINGLE-OR MULTIPLE-SPINDLE -----	91	5.12	-	-	-	-	-	-	-	-	-	18	8	35	13	16	-	1	-	-	-	-	-	-	-	-	-	
ENGINE-LATHE OPERATORS -----	162	5.41	-	-	-	-	-	-	-	-	-	-	-	-	51	41	39	16	-	15	-	-	-	-	-	-	-	-
GRINDING-MACHINE OPERATORS -----	171	5.46	-	-	-	-	-	-	-	-	-	1	-	37	33	27	69	-	4	-	-	-	-	-	-	-	-	
MILLING-MACHINE OPERATORS -----	249	5.43	-	-	-	-	-	-	-	-	-	4	12	47	32	52	96	-	5	-	-	-	-	-	-	-	-	
SCREW-MACHINE OPERATORS, AUTOMATIC -----	26	5.46	-	-	-	-	-	-	-	-	-	-	-	1	3	-	-	11	11	-	-	-	-	-	-	-	-	
TURRET-LATHE OPERATORS, HAND (INCLUDING HAND SCREW MACH) -	286	5.48	-	-	-	-	-	-	-	-	-	-	4	3	21	59	96	79	4	20	-	-	-	-	-	-	-	-
MACHINE-TOOL OPERATORS, PRODUCTION, CLASS B ⁵ -----	842	4.56	-	-	-	-	-	16	49	14	32	79	241	202	108	59	32	8	-	2	-	-	-	-	-	-	-	-
AUTOMATIC-LATHE OPERATORS -----	32	4.66	-	-	-	-	-	-	-	8	4	8	8	-	4	-	-	-	-	-	-	-	-	-	-	-	-	
DRILL-PRESS OPERATORS, RADIAL -----	53	4.76	-	-	-	-	-	-	-	-	5	8	30	-	4	-	4	-	2	-	-	-	-	-	-	-	-	
DRILL-PRESS OPERATORS, SINGLE-OR MULTIPLE-SPINDLE -----	226	4.42	-	-	-	-	-	16	8	-	23	26	116	8	15	10	-	4	-	-	-	-	-	-	-	-	-	
ENGINE-LATHE OPERATORS -----	31	4.47	-	-	-	-	-	-	33	6	9	9	26	93	19	10	-	-	-	-	-	-	-	-	-	-	-	
GRINDING-MACHINE OPERATORS -----	205	4.45	-	-	-	-	-	-	-	-	-	10	10	5	7	-	2	-	-	-	-	-	-	-	-	-	-	
TURRET-LATHE OPERATORS, HAND (INCLUDING HAND SCREW MACH) -	34	4.57	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MACHINE-TOOL OPERATORS, PRODUCTION, CLASS C ⁵ -----	424	4.22	-	8	-	9	-	11	14	48	64	191	44	27	8	-	-	-	-	-	-	-	-	-	-	-	-	-
DRILL-PRESS OPERATORS, SINGLE-OR MULTIPLE-SPINDLE -----	207	4.28	-	8	-	-	-	-	4	6	11	166	-	8	4	-	-	-	-	-	-	-	-	-	-	-	-	-
MACHINE-TOOL OPERATORS, PRODUCTION NUMERICALLY CONTROLLED ⁵ -----	247	5.10	-	-	-	-	-	8	4	-	16	27	4	11	34	5	20	41	46	18	13	-	-	-	-	-	-	-
AUTOMATIC-LATHE OPERATORS -----	39	5.70	-	-	-	-	-	-	-	-	-	-	-	-	-	-	34	-	-	5	-	-	-	-	-	-	-	-
DRILL-PRESS OPERATORS, SINGLE-OR MULTIPLE-SPINDLE -----	35	4.80	-	-	-	-	-	-	-	-	-	19	-	-	2	1	2	9	-	2	-	-	-	-	-	-	-	-
MACHINE-TOOL OPERATORS, TOOLROOM (ONE TYPE OF MACHINE) -----	221	5.55	-	-	-	-	-	-	-	-	-	-	-	-	6	6	105	40	-	24	40	-	-	-	-	-	-	-

See footnotes at end of table.

Table 14. Occupational earnings: Minneapolis-St. Paul, Minn.¹—Continued

(Number and average straight-time hourly earnings² of workers in selected occupations in machinery manufacturing establishments, November 1974)

Occupation	Number of workers	Average hourly earnings ²	Number of workers receiving straight-time hourly earnings of—																										
			\$ 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	\$ 5.20	\$ 5.40	\$ 5.60	\$ 5.80	\$ 6.00	\$ 6.20	\$ 6.40	\$ 6.60	\$ 6.80	\$ 7.00	\$ 7.20	\$ 7.40		
			Under \$ 3.00	and under \$ 3.10	3.10	3.20	3.30	3.40	3.60	3.80	4.00	4.20	4.40	4.60	4.80	5.00	5.20	5.40	5.60	5.80	6.00	6.20	6.40	6.60	6.80	7.00	7.20	7.40	
<u>Machinery</u> ³ —Continued																													
MACHINE-TOOL OPERATORS, TOOLROOM (MORE THAN ONE TYPE OF MACHINE) —	26	\$ 5.51	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
MACHINISTS, MAINTENANCE -----	51	5.72	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
MACHINISTS, PRODUCTION -----	198	5.56	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
MECHANICS, MAINTENANCE -----	87	5.53	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
POLISHING AND BUFFING-MACHINE OPERATORS -----	17	4.02	—	—	—	—	3	—	3	—	—	—	4	7	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
PUNCH-PRESS OPERATORS, CLASS A -----	96	5.42	—	—	—	—	—	—	—	—	—	—	4	13	3	1	25	10	4	28	8	—	—	—	—	—	—	—	—
SET-UP MEN, MACHINE TOOLS -----	61	5.61	—	—	—	—	—	—	—	—	—	—	—	—	16	—	—	—	—	7	11	8	3	16	—	—	—	—	—
TOOL AND DIEMAKERS (JOBPING) -----	529	6.23	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	33	84	14	22	64	126	85	—	4	84	13	
TOOL AND DIEMAKERS (OTHER THAN JOBPING) -----	203	6.13	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	8	30	44	39	27	35	14	2	4	—	
TOOL CLERKS -----	92	4.76	—	—	—	—	—	—	—	—	—	—	21	13	7	2	18	12	6	8	—	5	—	—	—	—	—	—	—
WELDERS, HAND, CLASS A -----	676	5.43	—	—	—	—	—	—	—	—	—	—	—	—	—	28	41	68	283	55	70	31	86	5	3	5	1	—	—
WELDERS, HAND, CLASS B -----	300	4.87	—	—	—	—	—	—	—	—	—	—	—	26	4	123	13	71	51	12	—	—	—	—	—	—	—	—	—
WELDERS, MACHINE, CLASS A -----	130	4.84	—	—	—	—	—	—	—	—	—	—	—	—	60	6	16	10	32	5	1	—	—	—	—	—	—	—	—
WELDERS, MACHINE, CLASS B -----	56	4.92	—	—	—	—	—	—	4	4	—	—	—	19	—	4	—	—	—	24	—	1	—	—	—	—	—	—	—

¹ The Minneapolis-St. Paul, Minn.-Wis. Standard Metropolitan Statistical Area consists of Anoka, Carver, Chicago, Dakota, Hennepin, Ramsey, Scott, Washington, and Wright Counties, Minn.; and St. Croix County, Wis.

² Excludes premium pay for overtime and for work on weekends, holidays, and late shifts. These surveys, based on a representative sample of establishments are designed to measure the level of occupational earnings at a particular time. Thus, comparisons, made with previous studies may not reflect expected wage movements because of change in the sample composition, and shifts in employ-

ment among establishments with different pay levels. Such shifts, for example, could decrease an occupational average, even though most establishments increased wages between periods being compared. Virtually all workers were paid on a time basis.

³ Includes data for farm and construction machinery.

⁴ Workers were at \$8.80 to \$9.

⁵ Includes data for operators of other machine tools in addition to those shown separately.

Table 15. Occupational earnings: Newark and Jersey City, N.J.¹(Number and average straight-time hourly earnings² of workers in selected occupations in machinery manufacturing establishments, January 1975)

Occupation	Number of workers	Average hourly earnings ² \$	Number of workers receiving straight-time hourly earnings of—																										
			\$ Under 2.80	\$ 2.80 and under 3.00	\$ 3.00	\$ 3.20	\$ 3.40	\$ 3.60	\$ 3.80	\$ 4.00	\$ 4.20	\$ 4.40	\$ 4.60	\$ 4.80	\$ 5.00	\$ 5.20	\$ 5.40	\$ 5.60	\$ 5.80	\$ 6.00	\$ 6.20	\$ 6.40	\$ 6.60	\$ 6.80	\$ 7.00	\$ 7.20	\$ 7.40	\$ 7.60	
			2.80	3.00	3.20	3.40	3.60	3.80	4.00	4.20	4.40	4.60	4.80	5.00	5.20	5.40	5.60	5.80	6.00	6.20	6.40	6.60	6.80	7.00	7.20	7.40	7.60		
Machinery³																													
Assemblers, class A	755	\$ 5.28	-	-	-	-	-	-	3	3	40	34	151	21	186	34	24	66	23	158	5	4	-	3	-	-	-	-	-
Time	671	5.35	-	-	-	-	-	-	3	-	17	28	110	16	186	34	24	66	23	158	2	4	-	-	-	-	-	-	-
Incentive	84	4.69	-	-	-	-	-	-	3	23	6	41	5	-	-	-	-	-	-	-	3	-	-	-	-	-	-	-	-
Assemblers, class B	747	4.21	-	-	-	-	213	90	61	34	102	57	37	59	21	38	5	-	-	-	30	-	-	-	-	-	-	-	-
Time	558	4.15	-	-	-	-	207	78	32	31	27	51	9	35	18	35	5	-	-	-	30	-	-	-	-	-	-	-	-
Incentive	189	4.37	-	-	-	-	6	12	29	3	75	6	28	24	3	3	-	-	-	-	-	-	-	-	-	-	-	-	
Assemblers, class C	855	4.44	-	8	11	51	19	25	24	145	66	58	370	25	22	-	-	31	-	-	-	-	-	-	-	-	-	-	
Time	190	4.31	-	5	8	33	16	9	9	7	12	19	-	19	22	-	-	31	-	-	-	-	-	-	-	-	-	-	
Incentive	665	4.47	-	3	3	18	3	16	15	138	54	39	370	6	-	-	-	3	2	3	1	-	1	-	-	-	-	-	
Carpenters, maintenance ⁴	13	5.31	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Electricians, maintenance ⁴	112	6.35	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Inspectors, class A ⁵	210	4.87	-	-	-	-	-	-	-	3	-	7	63	31	29	24	38	8	5	-	-	-	-	-	-	-	-	-	
Inspectors, class B	317	4.92	-	-	3	9	10	6	19	11	62	10	12	24	25	5	20	6	95	-	-	-	-	-	-	-	-	-	
Time	278	5.10	-	-	-	-	8	-	11	62	10	12	24	-	25	5	20	6	95	-	-	-	-	-	-	-	-	-	
Janitors, porters, and cleaners ⁴	172	3.88	10	1	3	16	19	6	14	52	36	12	2	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	
Laborers, material handling ⁴	191	4.02	-	-	-	-	-	71	20	50	20	18	-	9	3	-	-	-	-	-	-	-	-	-	-	-	-	-	
Machine-tool operators, production, class A ⁶	1,131	5.31	-	-	-	-	-	-	4	8	37	51	148	122	177	115	116	57	100	125	24	43	-	1	-	-	-	3	
Time	917	5.41	-	-	-	-	-	-	1	8	37	23	28	103	171	112	103	54	87	122	24	43	-	1	-	-	-	3	
Incentive	214	4.89	-	-	-	-	-	-	3	-	-	28	120	19	6	3	13	3	13	3	13	3	-	-	-	-	-	-	
Automatic-lathe operators ⁷	33	5.25	-	-	-	-	-	-	-	-	4	-	12	5	-	-	-	-	7	5	-	-	-	-	-	-	-	-	
Drill-press operators, radial ⁷	26	5.04	-	-	-	-	-	-	-	-	-	12	-	-	11	3	-	-	-	-	-	-	-	-	-	-	-	-	
Time	48	4.99	-	-	-	-	-	-	-	1	-	-	5	30	23	1	3	-	3	-	-	-	-	-	-	-	-	-	
Engine-lathe operators	203	5.56	-	-	-	-	-	-	-	-	5	5	15	12	22	29	28	11	20	6	6	43	-	1	-	-	-	-	
Time	189	5.62	-	-	-	-	-	-	-	-	5	5	8	22	29	28	11	20	6	6	43	-	1	-	-	-	-		
Grinding-machine operators	148	5.23	-	-	-	-	-	-	3	-	10	20	10	16	38	26	3	14	-	-	-	-	-	-	-	-	-	-	
Time	116	5.38	-	-	-	-	-	-	3	-	-	10	8	10	13	37	26	3	14	-	-	-	-	-	-	-	-	-	
Incentive	32	4.71	-	-	-	-	-	-	3	-	-	10	12	3	1	-	3	-	-	-	-	-	-	-	-	-	-	-	
Milling-machine operators	170	5.29	-	-	-	-	-	-	-	8	20	9	20	7	20	7	20	-	11	5	10	60	-	-	-	-	-	-	
Time	149	5.38	-	-	-	-	-	-	8	20	4	4	7	20	-	20	-	11	5	10	60	-	-	-	-	-	-	-	
Screw-machine operators, automatic	68	5.66	-	-	-	-	-	-	-	-	2	5	5	4	9	7	7	26	-	-	-	-	-	-	-	-	-	3	
Time	56	5.61	-	-	-	-	-	-	-	-	2	5	-	4	9	7	7	24	-	-	-	-	-	-	-	-	3		
Incentive	12	5.89	-	-	-	-	-	-	-	-	2	5	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-		
Turret-lathe operators, hand (including hand screw mach)	217	5.02	-	-	-	-	-	-	-	-	12	16	54	40	40	8	9	13	-	25	-	-	-	-	-	-	-	-	
Time	143	5.15	-	-	-	-	-	-	-	-	12	10	5	28	40	8	5	13	-	22	-	-	-	-	-	-	-	-	
Machine-tool operators, production, class B ⁶	1,190	5.31	-	-	-	3	13	69	78	73	87	57	40	107	42	20	15	4	29	185	198	167	-	-	-	-	-	3	
Incentive	46	4.75	-	-	-	3	-	-	-	18	9	3	1	7	-	1	1	-	-	-	-	-	-	-	-	-	3		
Drill-press operators, radial ⁵	93	4.21	-	-	-	-	5	14	-	-	58	6	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Drill-press operators, single- or multiple-spindle ⁵	122	4.36	-	-	-	-	-	31	12	9	2	6	15	44	3	-	-	-	-	-	-	-	-	-	-	-	-		
Milling-machine operators ⁵	81	4.59	-	-	-	-	-	1	-	29	5	25	3	-	7	-	-	-	-	11	-	-	-	-	-	-	-	-	
Turret-lathe operators, hand (including hand screw mach)	54	4.51	-	-	-	3	-	-	4	-	17	8	6	10	3	-	2	1	-	-	-	-	-	-	-	-	-		
Time	33	4.63	-	-	-	3	-	-	4	-	5	5	6	10	1	-	2	-	-	-	-	-	-	-	-	-	-		
Incentive	21	4.33	-	-	-	3	-	-	-	-	12	3	-	1	-	1	-	-	-	-	-	-	-	-	-	-	-		
Machine-tool operators, production, class C ⁶	257	3.86	-	3	26	56	24	43	11	14	10	16	8	23	20	3	-	-	-	-	-	-	-	-	-	-	-		
Time	207	3.81	-	-	26	56	27	37	12	1	10	9	8	19	20	-	-	-	-	-	-	-	-	-	-	-	-		
Incentive	50	4.10	-	3	-	-	3	6	11	13	-	7	4	-	3	-	-	-	-	-	-	-	-	-	-	-	-		
Drill-press operators, single- or multiple-spindle:	7	4.13	-	-	-	-	-	4	2	-	9	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Grinding-machine operators	22	3.91	-	-	-	10	-	-	-	3	9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Time	18	3.78	-	-	-	10	-	-	-	3	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Milling-machine operators	70	3.76	-	3	5	5	11	27	3	6	-	4	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-		
Turret-lathe operators, hand (including hand screw mach)	40	3.54	-	-	5	5	8	21	-	-	1	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Time	7	3.88	-	-	-	-	4	-	-	-	1	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Incentive	7	3.88	-	-	-	-	4	-	-	-	1	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

See footnotes at end of table.

Table 15. Occupational earnings: Newark and Jersey City, N.J.¹—Continued

(Number and average straight-time hourly earnings² of workers in selected occupations in machinery manufacturing establishments, January 1975)

Occupation	Number of workers	Average hourly earnings ³ \$ 2.80	Number of workers receiving straight-time hourly earnings of—																										
			Under \$ 2.80	\$ 3.00	\$ 3.20	\$ 3.40	\$ 3.60	\$ 3.80	\$ 4.00	\$ 4.20	\$ 4.40	\$ 4.60	\$ 4.80	\$ 5.00	\$ 5.20	\$ 5.40	\$ 5.60	\$ 5.80	\$ 6.00	\$ 6.20	\$ 6.40	\$ 6.60	\$ 6.80	\$ 7.00	\$ 7.20	\$ 7.40	\$ 7.60		
			2.80	3.00	3.20	3.40	3.60	3.80	4.00	4.20	4.40	4.60	4.80	5.00	5.20	5.40	5.60	5.80	6.00	6.20	6.40	6.60	6.80	7.00	7.20	7.40	7.60		
Machinery¹—Continued																													
Machine-tool operators, production, numerically controlled ^{5,6}	79	5.61	-	-	-	-	-	-	-	4	3	1	7	9	3	2	13	-	-	20	6	-	5	6	-	-	-	-	
Milling-machine operators ⁵	20	6.02	-	-	-	-	-	-	-	-	-	-	-	-	2	3	-	3	-	-	6	-	-	6	-	-	-	-	
Machine-tool operators, toolroom (one type of machine) ^{5,6}	471	5.71	-	-	-	-	1	1	5	3	7	26	27	41	93	23	16	34	5	44	34	3	22	-	-	86	-	-	
Drill-press operators, radial	42	4.86	-	-	-	-	1	1	-	-	3	-	1	25	5	4	-	2	-	-	-	-	-	-	-	-	-	-	
Time	32	4.99	-	-	-	-	-	-	-	-	-	-	-	22	4	4	-	2	-	-	-	-	-	-	-	-	-	-	
Engine-lathe operators ⁴	67	5.20	-	-	-	-	-	-	-	5	-	-	10	8	20	2	4	6	-	5	6	1	-	-	-	-	-	-	
Grinding-machine operators	178	6.26	-	-	-	-	-	-	-	3	4	23	1	2	10	5	1	7	5	25	4	-	2	-	86	-	-		
Time	166	6.39	-	-	-	-	-	-	-	3	-	18	-	-	10	5	1	7	5	25	4	-	2	-	86	-	-		
Milling-machine operators ⁴	24	5.41	-	-	-	-	-	-	-	-	-	1	3	4	6	-	-	-	-	10	-	-	-	-	-	-	-	-	
Machine-tool operators, toolroom (more than one type of machine) ⁴	182	5.36	-	-	-	-	-	-	-	-	10	54	11	20	12	6	11	9	5	5	3	-	-	-	-	36	-	-	
Machinists, production ⁴	111	4.99	-	-	-	-	-	-	-	-	8	32	11	-	28	18	-	12	2	-	-	-	-	-	-	-	-	-	
Mechanics, maintenance ⁴	93	5.21	-	-	-	-	-	-	-	-	-	19	-	6	19	16	11	8	9	5	-	-	-	-	-	-	-	-	
Polishers and buffers, metal ⁵	21	5.02	-	-	-	-	-	2	-	1	3	-	-	7	-	4	-	4	-	-	-	-	-	-	-	-	-	-	
Polishing- and buffing-machine operators	22	4.41	-	-	-	2	-	-	1	5	-	3	6	1	4	-	-	-	-	-	-	-	-	-	-	-	-	-	
Time	16	4.31	-	-	-	2	-	-	4	-	3	6	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Punch-press operators, class A	25	4.77	-	-	-	-	-	-	-	5	-	2	2	8	5	-	5	-	-	-	-	-	-	-	-	-	-	-	
Punch-press operators, class B	160	4.11	-	-	-	40	1	6	56	23	2	2	1	4	3	-	-	-	24	-	-	-	-	-	-	-	-	-	
Time	130	4.05	-	-	-	40	1	6	56	23	1	2	1	-	-	-	-	-	23	-	-	-	-	-	-	-	-	-	
Tool and diemakers (jobbing) ⁴	532	6.06	-	-	-	-	-	-	-	-	-	-	1	18	-	41	184	22	49	22	42	103	50	-	-	-	-		
Tool and diemakers (other than jobbing) ⁵	259	6.05	-	-	-	-	-	-	-	-	-	8	9	14	65	5	15	54	39	8	-	-	-	-	42	-	-		
Tool clerks ³	90	4.85	-	-	-	-	-	1	14	9	4	13	6	4	8	5	-	21	5	-	-	-	-	-	-	-	-	-	
Welders, hand, class A ⁵	209	5.21	-	-	-	-	-	10	-	38	12	3	40	45	31	4	2	10	-	-	-	-	-	-	11	3	-		
Welders, hand, class B	144	4.31	-	-	-	10	20	-	20	21	8	3	7	50	-	5	-	-	-	-	-	-	-	-	-	-	-	-	
Time	119	4.31	-	-	-	10	20	-	20	21	8	3	7	50	-	5	-	-	-	-	-	-	-	-	-	-	-	-	
Welders, machine, class A	34	5.01	-	-	-	-	-	-	-	1	5	4	10	-	-	-	3	4	7	-	-	-	-	-	-	-	-		
Incentive	21	4.87	-	-	-	-	-	-	-	5	-	10	-	-	3	-	3	-	-	-	-	-	-	-	-	-	-	-	

¹ The Newark and Jersey City Standard Metropolitan Statistical Areas consist of Essex, Hudson, Morris, Somerset, and Union Counties.

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

These surveys, based on a representative sample of establishments, are designed to measure the level of occupational earnings at a particular time. Thus, comparisons made with previous studies may not reflect expected wage movements because of change in the sample composition, and shifts in employment among establishments with different pay levels. Such shifts, for example, could decrease an occupational average, even though most establishments increased wages between periods being compared.

³ Includes data for machine tools accessories and special ones, tools, jigs, and fixtures.

⁴ All timeworkers.

⁵ Insufficient data to warrant publication of separate earnings data by method of wage payment; workers are paid predominantly on a time basis.

⁶ Includes data for operators of other machine tools in addition to those shown separately.

⁷ Insufficient data to warrant publication of separate earnings data by method of wage payment; workers are paid predominantly on an incentive basis.

⁸ Workers were at \$8.80 to \$9.

Table 16. Occupational earnings: New York, N.Y.—N.J. and Nassau—Suffolk, N.Y.¹

(Number and average straight-time hourly earnings² of workers in selected occupations in machinery manufacturing establishments, January 1975)

Occupation	Number of workers	Average hourly earnings ²	Number of workers receiving straight-time hourly earnings of—																									
			\$ 2.10	\$ 2.20	\$ 2.30	\$ 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	\$ 5.20	\$ 5.40	\$ 5.60	\$ 5.80	\$ 6.00	\$ 6.20	\$ 6.40	\$ 6.80	\$ 7.20
			2.20	2.30	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	5.20	5.40	5.60	5.80	6.00	6.20	6.40	6.80	7.20	
Machinery³																												
Assemblers, class A ⁴ —	506	\$ 4.98	-	-	-	-	-	-	2	2	6	47	3	14	101	53	44	49	39	58	31	22	1	14	16	2	2	
Assemblers, class B ⁴ —	515	3.98	-	3	-	16	16	6	31	56	39	61	47	22	43	44	58	49	-	-	5	4	7	1	4	1	2	
Assemblers, class C—	968	3.09	9	17	144	111	77	101	115	129	88	28	23	46	25	35	7	2	5	3	3	-	-	-	-	-	-	
Time—	746	3.13	5	5	107	74	50	61	106	108	85	23	19	42	23	32	6	-	-	-	-	-	-	-	-	-	-	
Carpenters, maintenance ⁵ —	12	5.15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	5	-	-	3	-	-	-	-	-	-	
Electricians, maintenance ⁵ —	35	5.40	-	-	-	-	-	-	-	-	-	-	-	-	-	2	1	8	4	9	-	-	-	-	-	-	-	
Inspectors, class A ⁴ —	123	4.93	-	-	-	-	-	-	-	-	6	6	13	4	4	5	6	20	12	12	13	7	1	6	-	2	6	
Inspectors, class B ⁴ —	135	4.45	-	-	-	-	1	-	1	5	20	5	19	4	25	9	3	18	-	-	3	1	3	18	-	-	-	
Inspectors, class C ⁵ —	191	3.17	-	11	7	16	14	2	49	14	61	10	-	4	1	-	1	1	-	-	-	-	-	-	-	-	-	
Janitors, porters, and cleaners ⁴ —	184	3.42	8	-	4	4	6	21	16	25	29	19	35	5	5	5	-	2	-	-	-	-	-	-	-	-	-	
Laborers, material handling ⁵ —	147	3.64	-	9	-	21	8	-	6	17	21	13	9	6	4	-	6	-	20	-	7	-	-	-	-	-	-	
Machine-tool operators, production, class A ⁶ —	962	5.24	-	-	-	-	-	-	-	-	-	6	4	34	78	59	113	149	137	120	147	22	46	22	20	5	-	
Time—	871	5.20	-	-	-	-	-	-	-	-	-	6	3	32	75	54	103	143	125	113	141	16	34	10	11	5	-	
Drill-press operators, radial—	53	5.02	-	-	-	-	-	-	-	-	-	1	1	1	20	4	6	9	7	-	1	2	-	-	-	-	-	
Time—	40	4.96	-	-	-	-	-	-	-	-	-	-	-	-	18	4	6	6	-	-	-	-	-	-	-	-	-	-
Drill-press operators, single or multiple-spindle ⁴ —	100	5.07	-	-	-	-	-	-	-	-	-	-	-	-	3	19	14	9	2	30	-	20	1	-	2	-	-	
Engine-lathe operators ⁴ —	147	5.33	-	-	-	-	-	-	-	-	-	-	-	-	2	-	7	31	45	38	14	6	1	2	1	-	-	
Grinding-machine operators—	135	5.35	-	-	-	-	-	-	-	-	-	-	-	-	10	16	3	11	20	8	7	29	6	9	6	7	3	-
Time—	118	5.35	-	-	-	-	-	-	-	-	-	-	-	-	10	16	2	5	19	6	6	27	6	7	5	6	3	-
Milling-machine operators ⁴ —	195	5.06	-	-	-	-	-	-	-	-	-	-	-	-	2	-	15	21	9	24	65	23	7	16	4	6	2	1
Screw-machine operators, automatic ⁴ —	18	5.50	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	3	1	-	7	1	1	2	1	-	
Turret-lathe operators, hand (including hand screw mach) ⁴ —	144	5.18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	21	5	34	14	8	39	11	2	6	2	2	-
Machine-tool operators, production, class B ⁶ —	813	4.13	-	-	-	-	2	12	25	56	55	68	77	65	242	82	42	53	24	9	1	-	-	-	-	-	-	-
Incentive—	67	4.55	-	-	-	-	-	-	-	1	1	4	31	9	3	5	11	1	1	-	-	-	-	-	-	-	-	
Automatic-lathe operators ⁴ —	18	4.36	-	-	-	-	-	-	-	3	-	5	9	-	-	1	-	-	-	-	-	-	-	-	-	-	-	
Drill-press operators, single or multiple-spindle ⁴ —	91	3.86	-	-	-	-	-	4	16	8	5	9	13	14	6	1	-	15	-	-	-	-	-	-	-	-	-	
Engine-lathe operators ⁴ —	51	4.44	-	-	-	-	-	-	-	1	2	-	2	26	1	2	16	1	-	-	-	-	-	-	-	-	-	
Grinding-machine operators—	276	4.10	-	-	-	-	-	-	-	35	16	12	25	10	150	15	9	1	2	1	-	-	-	-	-	-	-	
Time—	246	4.06	-	-	-	-	-	-	-	35	16	12	25	10	124	14	9	-	1	-	-	-	-	-	-	-	-	-
Milling-machine operators ⁴ —	102	4.20	-	-	-	-	-	-	-	6	26	2	11	15	29	6	5	2	-	-	-	-	-	-	-	-	-	
Screw-machine operators, automatic ⁴ —	33	4.17	-	-	-	-	-	-	2	2	2	2	6	13	3	1	-	2	-	-	-	-	-	-	-	-	-	
Turret-lathe operators, hand (including hand screw mach)—	43	3.96	-	-	-	-	-	4	6	2	-	4	-	5	4	15	-	3	-	-	-	-	-	-	-	-	-	
Time—	39	3.90	-	-	-	-	-	4	6	2	-	4	-	5	3	13	-	2	-	-	-	-	-	-	-	-	-	-
Machine-tool operators production, class C ⁶ —	474	3.56	-	-	-	4	18	22	53	57	143	36	44	62	23	9	-	1	-	-	-	1	-	-	1	-	-	
Time—	449	3.52	-	-	-	4	18	22	53	57	142	31	42	57	14	9	-	-	-	-	-	-	-	-	-	-	-	
Incentive—	25	4.26	-	-	-	-	-	-	-	1	5	2	5	9	-	-	-	1	-	-	-	1	-	-	1	-	-	
Drill-press operators, single or multiple-spindle ⁴ —	67	3.59	-	-	-	4	4	7	2	3	17	10	-	15	2	-	-	1	-	-	-	1	-	-	1	-	-	
Time—	60	3.43	-	-	-	4	4	7	2	3	17	9	-	14	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Grinding-machine operators ⁴ —	177	3.70	-	-	-	-	2	2	6	12	80	2	30	24	19	-	-	-	-	-	-	-	-	-	-	-	-	-
Screw-machine operators, automatic ⁴ —	19	3.68	-	-	-	-	-	-	4	10	-	-	-	2	3	-	-	-	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 16. Occupational earnings: N.Y.—N.J. and Nassau—Suffolk, N.Y.¹—Continued

(Number and average straight-time hourly earnings² of workers in selected occupations in machinery manufacturing establishments, January 1975)

Occupation	Number of workers	Average hourly earnings ³ \$ 2.10 and under 2.20	Number of workers receiving straight-time earnings of—																									
			\$2.20	\$2.30	\$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	\$5.20	\$5.40	\$5.60	\$5.80	\$6.00	\$6.20	\$6.40	\$6.80	\$7.20 and over	
Machinery⁴—Continued																												
Machine-tool operators, production																												
Numerically controlled ⁵	139	\$4.60	-	-	-	-	-	-	10	10	15	-	1	15	8	8	11	14	3	1	6	27	2	3	2	2	1	-
Time	125	4.49	-	-	-	-	-	-	10	10	15	-	1	15	8	7	10	13	2	-	5	25	-	1	-	2	1	-
Drill-press operators, single- or multiple-spindle ⁵	18	4.29	-	-	-	-	-	-	-	-	4	-	1	2	1	7	1	-	-	-	-	-	1	-	-	1	-	
Milling-machine operators ⁵	79	4.39	-	-	-	-	-	-	10	10	10	-	-	9	5	-	9	-	-	-	4	20	-	-	-	1	1	-
Machine-tool operators, toolroom (one type of machine) ⁵	84	5.06	-	-	-	-	-	-	-	2	-	4	-	-	6	5	6	9	26	11	3	-	2	2	-	8	-	-
Machine-tool operators, toolroom (more than one type of machine) ⁵	240	4.76	-	-	-	-	-	-	10	10	15	50	1	24	2	8	7	7	14	2	4	-	46	8	21	9	2	-
Machinists, maintenance ⁵	56	5.28	-	-	-	-	-	-	-	-	-	-	-	-	5	7	6	21	9	8	-	-	-	-	-	-	-	-
Machinists, production ⁵	88	5.21	-	-	-	-	-	-	-	-	-	-	2	2	2	5	7	7	2	8	10	26	-	5	2	2	6	-
Mechanics, maintenance ⁵	67	4.85	-	-	-	-	-	-	-	-	-	-	2	1	3	-	15	16	5	5	7	11	-	-	1	1	-	-
Polishers and buffers, metal ⁵	62	3.85	-	-	-	-	-	-	5	8	16	-	1	4	-	1	22	1	3	-	1	-	-	-	-	-	-	-
Polishing- and buffing-machine operators	17	3.61	-	-	-	-	-	-	-	-	5	3	6	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-
Time	17	3.61	-	-	-	-	-	-	-	-	5	3	6	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-
Punch-press operators, class A	57	4.85	-	-	-	-	-	-	4	-	-	2	2	-	7	-	15	7	1	-	3	8	3	3	-	2	-	-
Time	44	4.56	-	-	-	-	-	-	4	-	-	2	2	-	7	-	15	6	-	-	2	6	-	-	-	-	-	-
Punch-press operators, class B	252	3.11	-	3	8	38	28	7	50	46	57	3	3	2	3	1	-	-	2	-	-	-	1	-	-	-	-	
Time	198	3.17	-	-	-	-	-	-	24	16	3	44	45	57	2	3	2	2	-	-	-	-	-	-	-	-	-	-
Setters-up men, machine tools ⁴	46	4.39	-	-	-	-	-	-	-	-	-	-	4	3	3	7	2	10	6	8	-	2	-	-	1	-	-	-
Tool and diemakers (jobbing) ⁵	236	5.89	-	-	-	-	-	-	-	-	6	-	-	12	-	14	-	10	21	8	13	19	11	14	7	71	-	
Tool and diemakers (other than jobbing) ⁵	200	5.88	-	-	-	-	-	-	-	-	-	-	-	-	4	-	5	19	8	34	6	28	20	57	12	7	-	
Tool clerks ⁵	67	4.54	-	-	-	-	-	-	3	1	1	-	-	6	6	9	6	4	23	-	-	5	-	3	-	-	-	
Welders, hand, class A ⁴	141	5.34	-	-	-	-	-	-	-	-	-	-	-	-	-	8	16	27	-	8	52	6	15	3	3	3	-	
Welders, hand, class B ⁴	91	4.27	-	-	-	-	-	-	-	-	15	4	8	7	21	7	9	15	5	-	-	2	1	-	-	-		
Welders, machine, class A ⁴	41	4.99	-	-	-	-	-	-	3	-	-	-	-	-	-	7	14	-	9	-	5	-	2	1	-	-		
Welders, machine, class B ⁴	63	3.48	-	-	-	6	-	8	4	7	15	10	-	7	-	6	-	-	-	-	-	-	-	-	-	-		

¹ The New York and Nassau—Suffolk Standard Metropolitan Statistical Areas consist of Bronx, Kings, Nassau, New York, Putnam, Queens, Richmond, Rockland, Suffolk, and Westchester Counties, N.Y.; and Bergen County, N.J.

² Excludes premium pay for overtime and work on weekends, holidays, and late shifts. These surveys, based on a representative sample of establishments, are designed to measure the level of occupation earnings at a particular time. Thus, comparisons made with previous studies may not reflect expected wage movements because of change in the sample composition, and shifts in employment among establishments with different pay levels. Such shifts, for example, could decrease an occupational

average, even though most establishments increased wages between periods being compared.

³ Includes data for machine tool accessories and special dies, tools, jigs and fixtures; and paper industries and printing trades machinery.

⁴ Insufficient data to warrant publication of separate earnings data by method of wage payment; workers are paid predominantly on a time basis.

⁵ All timeworkers.

⁶ Includes data for operators of other machine tools in addition to those shown separately.

⁷ Workers were distributed as follows: 25 at \$7.20 to \$7.60; and 5 at \$8 to \$8.40.

Table 17. Occupational earnings: Philadelphia, Pa.—N.J.¹

(Number and average straight-time hourly earnings² of workers in selected occupations in machinery manufacturing establishments, December 1974)

Occupation	Number of workers	Average hourly earnings ²	Number of workers receiving straight-time hourly earnings of—																															
			\$ 2.60 Under \$ 2.60	\$ 2.80 and under \$ 2.80	\$ 3.00 3.20 3.40 3.60 3.80 4.00 4.20 4.40 4.60 4.80 5.00 5.20 5.40 5.60 5.80 6.00 6.20 6.40 6.60 6.80 7.00 7.20 7.40 7.60 7.80	over																												
			1,105	998	107	1,137	1,053	1,272	1,159	47	142	311	337	34	393	221	2,325	1,871	454	61	29	216	216	109	39	24	36	41	24	18				
<u>Machinery</u>																																		
ASSEMBLERS, CLASS A -----		\$ 5.22	-	-	15	-	72	-	4	-	18	31	159	50	38	67	160	41	8	345	37	20	1	5	10	13	2	9						
TIME -----		5.12	-	-	15	-	72	-	4	-	18	31	159	49	36	56	140	20	4	339	35	20	-	-	-	-	-	-	-					
INCENTIVE -----		6.12	-	-	-	-	-	-	-	-	-	-	-	1	2	11	20	21	4	6	22	20	1	5	10	13	2	9						
ASSEMBLERS, CLASS B -----		4.10	-	22	36	134	128	147	57	32	31	107	65	100	9	118	112	11	8	4	2	4	3	-	-	-	-	-	3					
TIME -----		4.00	-	22	36	134	128	147	57	32	31	105	59	78	8	109	103	-	4	-	-	-	-	-	-	-	-	-						
ASSEMBLERS, CLASS C -----		3.96	283	50	8	68	94	4	-	4	187	55	12	10	377	2	19	4	9	9	6	6	15	7	6	7	7	7						
TIME -----		3.75	283	50	8	68	94	4	-	3	3	-	-	10	372	-	12	-	-	-	-	-	-	-	-	-	-	-	-					
CARPENTERS, MAINTENANCE ¹ -----		5.03	-	-	-	-	4	-	-	3	3	-	-	10	4	3	8	-	-	-	4	8	-	-	-	-	-	-	-	-				
ELECTRICIANS, MAINTENANCE -----		5.38	-	-	-	-	-	-	-	4	-	1	-	6	15	13	26	10	11	6	33	-	17	-	-	-	-	-	-	-				
INSPECTORS, CLASS A ⁴ -----		5.02	-	-	-	-	-	-	-	4	5	4	53	49	38	20	30	18	27	5	32	-	14	30	2	-	-	-	-					
INSPECTORS, CLASS B ⁴ -----		5.00	-	-	-	-	4	8	-	-	8	63	11	7	22	19	103	59	32	-	-	-	-	-	1	-	-	-	-					
INSPECTORS, CLASS C ⁴ -----		4.34	-	-	-	-	-	-	4	8	-	6	-	4	-	-	8	-	4	-	-	-	-	-	-	-	-	-	-					
JANITORS, PORTERS, AND CLEANERS ¹ -----		4.18	-	4	11	6	11	10	26	47	85	113	14	12	9	-	21	24	-	-	-	-	-	-	-	-	-	-	-					
LABORERS, MATERIAL HANDLING ⁴ -----		4.27	4	-	-	-	-	1	45	23	25	68	-	16	-	-	36	3	-	-	-	-	-	-	-	-	-	-	-	-				
MACHINE-TOOL OPERATORS, PRODUCTION, CLASS A ⁶ -----		5.44	-	-	-	-	-	-	8	8	48	31	62	311	231	231	344	229	175	140	216	109	39	24	36	41	24	18						
TIME -----		5.33	-	-	-	-	-	-	8	8	44	24	54	292	189	163	302	192	149	115	191	96	13	1	16	14	-	-	-					
INCENTIVE -----		5.87	-	-	-	-	-	-	-	4	7	8	19	42	68	42	37	26	25	25	25	26	23	20	27	24	18	-	-					
AUTOMATIC-LATHE OPERATORS -----		5.72	-	-	-	-	-	-	-	-	-	4	-	8	13	1	8	2	5	-	7	1	1	7	1	3	-	-	-					
TIME -----		5.72	-	-	-	-	-	-	-	-	-	-	-	8	4	-	-	2	5	-	6	-	-	4	-	-	-	-	-					
DRILL-PRESS OPERATORS, RADIAL -----		5.13	-	-	-	-	-	-	8	-	-	-	7	54	48	22	41	7	6	3	-	-	-	-	4	2	-	3	5					
TIME -----		4.92	-	-	-	-	-	-	8	-	-	-	6	54	47	17	38	7	4	3	-	-	-	-	-	-	-	-	-					
DRILL-PRESS OPERATORS, SINGLE-OR MULTIPLE-SPINDLE -----		5.40	-	-	-	-	-	-	-	-	4	16	2	11	10	12	-	5	8	4	3	1	5	4	-	10	1	-						
TIME -----		4.74	-	-	-	-	-	-	-	-	16	2	2	2	-	4	-	6	-	-	-	-	-	-	-	-	-	-	-	-				
ENGINE-LATHE OPERATORS -----		5.50	-	-	-	-	-	-	-	-	8	7	1	19	18	46	50	52	15	24	16	17	8	1	4	10	3	-	-					
TIME -----		5.50	-	-	-	-	-	-	-	-	8	5	-	16	8	35	39	47	14	23	15	16	8	-	-	4	-	1	1	-				
GRINDING-MACHINE OPERATORS -----		5.12	-	-	-	-	-	-	-	-	32	1	16	141	20	15	24	38	4	19	61	-	-	-	-	-	-	-	-	-				
TIME -----		5.10	-	-	-	-	-	-	-	-	32	1	16	141	20	11	20	38	4	19	60	-	-	-	-	-	-	-	-	-				
MILLING-MACHINE OPERATORS -----		5.68	-	-	-	-	-	-	-	4	-	2	1	1	16	5	10	7	12	4	11	4	4	10	4	-	-	-	-	-				
TIME -----		5.62	-	-	-	-	-	-	-	4	-	2	-	1	16	-	6	4	4	11	4	-	-	-	-	-	-	-	-	-	-			
TURRET-LATHE OPERATORS, HAND (INCLUDING HAND SCREW MACH) -----		5.37	-	-	-	-	-	-	-	4	-	3	6	41	47	42	24	5	12	15	40	8	5	2	4	6	-	-	-	-	-			
TIME -----		5.27	-	-	-	-	-	-	-	4	-	3	6	40	39	32	19	4	12	13	35	6	2	5	2	4	6	-	-	-	-			
INCENTIVE -----		5.77	-	-	-	-	-	-	-	-	3	-	1	8	10	5	1	-	2	5	2	2	4	6	-	-	-	-	-	-	-	-		
MACHINE-TOOL OPERATORS, PRODUCTION, CLASS B ⁶ -----		5.06	-	3	12	23	-	32	33	70	91	85	53	156	93	163	85	51	64	46	26	16	12	13	16	12	8	-	-	-				
TIME -----		4.79	-	3	12	23	-	32	33	66	87	77	42	139	71	145	64	29	36	27	-	-	-	-	-	-	-	-	-	-	-			
AUTOMATIC-LATHE OPERATORS -----		4.83	-	-	-	-	-	-	-	5	5	-	13	-	25	-	10	-	-	-	6	-	-	-	-	-	-	-	-	-	-			
TIME -----		4.84	-	-	-	-	-	-	-	5	5	-	12	-	25	-	10	-	-	-	6	-	-	-	-	-	-	-	-	-	-			
DRILL-PRESS OPERATORS, RADIAL -----		4.94	-	-	-	-	-	-	-	11	16	10	4	-	2	12	4	2	-	21	-	-	-	-	-	-	-	-	-	-				
TIME -----		4.94	-	-	-	-	-	-	-	11	16	10	4	-	12	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
DRILL-PRESS OPERATORS, SINGLE-OR MULTIPLE-SPINDLE -----		4.34	-	3	9	-	-	4	-	9	19	11	4	8	6	12	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
TIME -----		4.29	-	3	9	-	-	4	-	9	19	11	3	8	6	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
ENGINE-LATHE OPERATORS -----		5.20	-	-	-	-	-	-	-	-	13	5	1	1	-	-	21	30	8	21	4	-	-	-	-	2	-	-	3	4	6	-	-	
TIME -----		5.17	-	-	-	-	-	-	-	-	13	4	-	-	19	27	8	20	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
GRINDING-MACHINE OPERATORS: TIME -----		4.61	-	-	-	-	3	-	-	16	-	-	1	5	4	4	17	2	18	14	6	9	23	3	3	2	-	2	3	4	6	-	-	
MILLING-MACHINE OPERATORS -----		5.31	-	-	-	-	-	-	-	-	3	3	21	-	55	-	23	14	5	4	2	2	3	4	3	6	6	-	-	-	-	-	-	-
TIME -----		4.93	-	-	-	-	-	-	-	-	3	3	20	-	54	-	20	11	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TURRET-LATHE OPERATORS, HAND (INCLUDING HAND SCREW MACH) -----		5.65	-	-	-	-	-	-	-	-	1	5	4	4	15	-	18	13	5	7	21	3	3	2	-	2	3	4	6	-	-	-		
TIME -----		5.40	-	-	-	-	-	-	-	-	1	5	4	4	15	-	18	13	5	7	21	3	3	2	-	2	3	4	6	-	-	-	-	

See footnotes at end of table.

Table 17. Occupational earnings: Philadelphia, Pa.—N.J.¹—Continued

(Number and average straight-time hourly earnings² of workers in selected occupations in machinery manufacturing establishments, December 1974)

Occupation	Number of workers	Average hourly earnings ²	Number of workers receiving straight-time hourly earnings of—																										
			\$ 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	\$ 5.20	\$ 5.40	\$ 5.60	\$ 5.80	\$ 6.00	\$ 6.20	\$ 6.40	\$ 6.60	\$ 6.80	\$ 7.00	\$ 7.40	\$ 7.80		
			Under \$ 2.60	2.80	3.00	3.20	3.40	3.60	3.80	4.00	4.20	4.40	4.60	4.80	5.00	5.20	5.40	5.60	5.80	6.00	6.20	6.40	6.60	6.80	7.00	7.40	7.80		
<u>Machinery—Continued</u>																													
MACHINE-TOOL OPERATORS, PRODUCTION, CLASS C ⁶	348	\$ 4.21	—	—	—	10	48	28	19	4	74	68	13	9	5	31	1	34	3	—	—	—	—	—	—	1	—	—	
TIME	320	4.17	—	—	—	10	48	28	19	4	72	64	13	8	—	30	1	33	3	—	—	—	—	—	—	1	—	—	
DRILL-PRESS OPERATORS, SINGLE-OR MULTIPLE-SPINDLE	27	3.67	—	—	—	6	5	5	—	—	4	5	—	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
TIME	25	3.59	—	—	—	6	5	5	—	—	4	5	—	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
GRINDING-MACHINE OPERATORS ⁷	50	4.54	—	—	—	—	—	—	—	—	2	28	5	7	5	1	—	1	—	—	—	—	—	—	—	—	—	—	
MILLING-MACHINE OPERATORS ⁴	73	4.23	—	—	—	—	12	—	—	4	13	28	4	—	—	12	—	—	—	—	—	—	—	—	—	—	—	—	
TURRET-LATHE OPERATORS, HAND (INCLUDING HAND SCREW MACH) ⁴	34	4.57	—	—	—	—	—	4	4	—	—	1	6	—	—	—	18	1	—	—	—	—	—	—	—	—	—	—	
MACHINE-TOOL OPERATORS, PRODUCTION, NUMERICALLY CONTROLLED ⁶	313	5.34	—	—	—	19	—	—	4	6	4	4	6	12	31	29	47	34	32	12	26	10	16	9	—	9	1	2	
TIME	281	5.29	—	—	—	19	—	—	4	6	4	4	5	12	26	25	45	30	28	10	23	9	15	7	—	9	1	2	
INCENTIVE	32	5.77	—	—	—	—	—	—	—	—	—	—	1	—	5	4	2	4	4	2	3	1	1	2	—	—	1	2	
DRILL-PRESS OPERATORS, SINGLE-OR MULTIPLE-SPINDLE	17	5.92	—	—	—	—	—	—	—	2	—	—	—	2	—	3	—	—	2	1	1	1	2	—	—	1	2	82	
MILLING-MACHINE OPERATORS ⁵	34	4.07	—	—	—	19	—	—	—	—	—	—	1	6	—	—	2	—	—	—	—	—	6	—	—	—	—	—	
MACHINE-TOOL OPERATORS, TOOLROOM (ONE TYPE OF MACHINE) ⁴	123	5.80	—	—	—	—	—	—	—	—	—	—	—	7	8	17	9	20	4	6	9	14	7	6	13	—	3	—	
MACHINE-TOOL OPERATORS, TOOLROOM (MORE THAN ONE TYPE OF MACHINE)	100	5.60	—	—	—	—	—	—	—	—	4	—	1	24	—	1	15	6	4	20	1	13	—	—	—	10	—	1	
TIME	90	5.52	—	—	—	—	—	—	—	4	—	1	24	—	1	15	4	4	18	1	12	—	—	—	8	—	—	—	
MACHINISTS, MAINTENANCE ⁴	132	5.61	—	—	—	—	—	—	—	—	—	1	—	7	—	6	53	9	12	13	3	16	3	9	—	—	—	—	
MACHINISTS, PRODUCTION ⁴	389	5.31	—	—	—	—	—	—	—	4	—	8	10	8	33	112	100	30	20	44	14	6	—	—	—	—	—	—	
MECHANICS, MAINTENANCE ⁴	134	5.46	—	—	—	—	—	—	—	8	—	3	10	9	28	8	6	—	37	8	13	—	4	—	—	—	—	—	
POLISHERS AND BUFFERS, METAL	73	4.74	—	—	—	—	4	8	4	3	3	3	8	6	1	14	—	8	5	3	1	—	—	1	1	2	—	1	
TIME	51	4.20	—	—	—	—	4	8	4	3	3	3	8	6	—	14	—	—	—	—	—	—	—	—	—	—	—	—	—
POLISHING- AND BUFFING-MACHINE OPERATORS	36	4.72	—	—	—	—	4	—	—	—	—	13	2	10	—	—	—	—	—	—	1	1	1	1	1	—	2	—	
TIME	29	4.27	—	—	—	—	4	—	—	—	—	13	2	10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
PUNCH-PRESS OPERATORS, CLASS A	84	4.39	—	—	—	—	4	12	—	13	1	—	1	1	5	44	—	—	—	—	3	—	—	—	—	—	—	—	—
PUNCH-PRESS OPERATORS, CLASS B	212	3.77	20	—	—	4	61	23	3	9	9	22	3	27	3	2	2	—	19	—	1	—	—	1	2	—	—	—	
TIME	199	3.64	20	—	—	4	61	23	3	9	9	22	3	27	3	2	2	—	15	—	—	—	—	—	—	—	—	—	
SET-UP MEN, MACHINE TOOLS ⁷	145	4.76	—	—	—	—	—	4	28	7	8	—	12	7	31	12	4	5	10	12	5	222	19	106	26	18	39	41	
TOOL AND DIEMAKERS (JOBPING)	645	6.20	—	—	—	—	—	—	4	—	4	—	3	6	15	23	26	53	35	222	19	106	26	18	39	41	9	—	
TOOL AND DIEMAKERS (OTHER THAN JOBPING)	234	5.92	—	—	—	—	—	—	—	4	4	4	4	21	6	21	8	14	1	48	5	45	24	6	1	10	3	9	
TIME	216	5.83	—	—	—	—	—	—	—	4	4	4	4	21	6	21	5	14	—	48	5	44	22	5	—	9	—	4	
TOOL CLERKS ⁵	167	4.58	—	—	—	—	—	—	—	1	4	11	12	39	12	51	29	9	3	1	—	4	—	—	—	—	—	—	—
WELDERS, HAND, CLASS A	776	5.28	—	—	—	—	—	—	—	20	24	27	16	15	5	72	54	67	252	15	31	10	112	4	9	8	4	14	8
TIME	680	5.11	—	—	—	—	—	—	—	20	24	27	16	15	5	72	54	61	248	7	23	—	108	—	—	—	—	—	—
WELDERS, HAND, CLASS B ⁵	362	4.86	—	—	12	—	6	11	17	4	1	5	15	18	115	117	6	4	7	—	14	2	—	4	—	—	—	—	—
WELDERS, MACHINE, CLASS A	75	4.63	—	—	—	—	—	—	4	—	4	36	—	21	—	—	—	—	—	—	4	6	—	—	—	—	—	—	—
TIME	75	4.63	—	—	—	—	—	—	4	—	4	36	—	21	—	—	—	—	—	—	4	6	—	—	—	—	—	—	—
WELDERS, MACHINE, CLASS B	42	3.44	8	—	4	4	8	4	4	—	—	—	4	6	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
TIME	42	3.44	8	—	4	4	8	4	4	—	—	—	4	6	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

See footnotes on following page.

Table 17. Footnotes—

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

² Excludes premium pay for overtime and for work on weekends, holidays, and late shifts. These surveys, based on a representative sample of establishments, are designed to measure the level of occupational earnings at a particular time. Thus, comparisons made with previous studies may not reflect expected wage movements because of change in the sample composition, and shifts in employment among establishments with different pay levels. Such shifts, for example, could decrease an occupational average, even though most establishments increased wages between periods being compared.

³ Workers were distributed as follows: 152 at \$2 to \$2.20; 36 at \$2.20 to \$2.40; and 95 at

\$2.40 to \$2.60.

⁴ All timeworkers.

⁵ Insufficient data to warrant publication of separate earnings data by method of wage payment; workers are paid predominantly on a time basis.

⁶ Includes data for operators of other machine tools in addition to those shown separately.

⁷ Insufficient data to warrant publication of separate earnings data by method of wage payment; workers are paid predominantly on an incentive basis.

⁸ Workers were at \$7.80 to \$8.20.

⁹ Workers were at \$2.40 to \$2.60.

Table 18. Occupational earnings: Pittsburgh, Pa.¹

(Number and average straight-time hourly earnings² of workers in selected occupations in machinery manufacturing establishments, February 1975)

Occupation	Number of workers	Average hourly earnings ² and under	Number of workers receiving straight-time hourly earnings of—																										
			\$ 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	\$ 5.20	\$ 5.40	\$ 5.60	\$ 5.80	\$ 6.00	\$ 6.20	\$ 6.40	\$ 6.60	\$ 7.00	\$ 7.40	
			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	5.20	5.40	5.60	5.80	6.00	6.20	6.40	6.60	7.00	7.40	7.80	
ASSEMBLERS, CLASS A -----	790	\$ 5.80	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	85	41	
TIME -----	649	5.74	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	85	-	-	
ASSEMBLERS, CLASS B -----	267	4.48	-	5	-	-	-	-	15	5	20	25	5	9	53	23	50	24	25	8	-	-	-	-	-	-	-	-	-
TIME -----	195	4.37	-	5	-	-	-	-	15	5	20	25	5	5	29	11	34	16	25	-	-	-	-	-	-	-	-	-	
ASSEMBLERS, CLASS C ³ -----	112	3.73	5	5	-	20	10	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
CARPENTERS, MAINTENANCE ³ -----	25	5.59	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
ELECTRICIANS, MAINTENANCE ³ -----	88	5.86	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
INSPECTORS, CLASS A -----	175	6.19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12	-	65	
TIME -----	167	6.24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12	-	65	
INSPECTORS, CLASS B -----	114	4.99	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TIME -----	86	5.11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
INSPECTORS, CLASS C -----	88	4.76	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TIME -----	76	4.79	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
JANITORS, PORTERS, AND CLEANERS ³ -----	170	4.48	-	-	-	5	-	-	-	-	-	4	19	33	10	32	7	26	19	15	-	-	-	-	-	-	-	-	
LABORERS, MATERIAL HANDLING ³ -----	116	4.47	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
4 MACHINE-TOOL OPERATORS, PRODUCTION																													
CLASS A ⁴ -----	1,708	5.55	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	56	74	34
TIME -----	1,397	5.38	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
AUTOMATIC-LATHE OPERATORS -----	58	5.69	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TIME -----	34	5.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
DRILL-PRESS OPERATORS, RADIAL -----	101	5.03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TIME -----	87	4.88	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
DRILL-PRESS OPERATORS, SINGLE- OR MULTIPLE-SPINDLE ³ -----	45	5.16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
ENGINE-LATHE OPERATORS -----	235	5.63	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	23	6	9	
TIME -----	205	5.49	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
GRINDING-MACHINE OPERATORS -----	310	5.77	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TIME -----	257	5.72	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14	10	29
MILLING-MACHINE OPERATORS -----	208	5.40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TIME -----	152	5.11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	3	16
SCREW-MACHINE OPERATORS, AUTOMATIC ⁵ -----	14	4.83	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TURRET-LATHE OPERATORS, HAND (INCLUDING HAND SCREW MACH) -----	160	5.19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	8	-
TIME -----	140	5.01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4 MACHINE-TOOL OPERATORS, PRODUCTION																													
CLASS B ⁴ -----	350	5.36	-	-	-	-	-	-	10	-	-	2	16	4	23	8	32	44	55	134	4	4	10	1	3	-	-	-	
TIME -----	330	5.34	-	-	-	-	-	-	10	-	-	2	16	4	23	-	32	44	55	134	-	-	10	-	-	-	-	-	
ENGINE-LATHE OPERATORS -----	66	5.46	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
GRINDING-MACHINE OPERATORS -----	171	5.50	-	-	-	-	-	-	-	-	-	2	-	-	23	-	7	14	14	107	-	-	-	1	3	-	-		
TIME -----	167	5.48	-	-	-	-	-	-	-	-	-	2	-	-	23	-	7	14	14	107	-	-	-	-	-	-	-	-	
MACHINE-TOOL OPERATORS, PRODUCTION																													
CLASS C ⁴ -----	137	4.97	-	5	-	-	-	-	-	-	14	7	-	-	14	17	9	-	-	-	56	15	-	-	-	-	-	-	
TIME -----	133	4.98	-	5	-	-	-	-	-	-	14	7	-	-	14	17	5	-	-	-	56	15	-	-	-	-	-	-	
GRINDING-MACHINE OPERATORS -----	95	4.99	-	-	-	-	-	-	-	-	14	-	-	-	14	17	-	-	-	-	50	-	-	-	-	-	-	-	
MACHINE-TOOL OPERATORS, PRODUCTION NUMERICALLY CONTROLLED ³ -----	122	5.19	-	-	-	-	-	-	-	-	-	-	-	-	-	1	18	33	14	4	13	18	-	10	-	-	11	-	
MACHINE-TOOL OPERATORS, TOOLROOM (ONE TYPE OF MACHINE) ⁶ -----	39	5.43	-	-	-	-	-	-	-	-	-	-	-	-	-	-	22	-	-	-	-	4	-	1	1	-	11	-	

See footnotes at end of table.

Table 18. Occupational earnings: Pittsburgh, Pa.¹—Continued

(Number and average straight-time hourly earnings² of workers in selected occupations in machinery manufacturing establishments, February 1975)

Occupation	Number of workers	Average hourly earnings ² and under	Number of workers receiving straight-time hourly earnings of—																									
			\$ 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	\$ 5.20	\$ 5.40	\$ 5.60	\$ 5.80	\$ 6.00	\$ 6.20	\$ 6.40	\$ 6.60	\$ 7.00	\$ 7.40
			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	5.20	5.40	5.60	5.80	6.00	6.20	6.40	6.60	7.00	7.40	
MACHINISTS, PRODUCTION ³ -----	181	\$ 5.68	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MECHANICS, MAINTENANCE ³ -----	216	\$ 5.83	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
POLISHERS AND BUFFERS, METAL ³ -----	53	6.01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOOL AND DIESMAKERS (OTHER THAN JOBING) -----	63	5.73	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TIME -----	58	5.62	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOOL CLERKS ³ -----	77	4.65	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
WELDERS, HAND, CLASS A -----	271	5.82	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TIME -----	249	5.82	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
WELDERS, HAND, CLASS B ⁶ -----	13	5.55	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

¹ The Pittsburgh Standard Metropolitan Statistical Area consists of Allegheny, Beaver, Washington, and Westmoreland Counties.

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

These surveys, based on a representative sample of establishments, are designed to measure the level of occupational earnings at a particular time. Thus, comparisons made with previous studies may not reflect expected wage movements because of change in the sample composition, and shifts in employment among establishments with different pay levels. Such shifts, for example, could decrease an occupational average, even though most establishments increased wages between periods

being compared.

³ All timeworkers.

⁴ Includes data for operators of other machine tools in addition to those shown separately.

⁵ Insufficient data to warrant publication of separate earnings data by method of wage payment; workers are paid predominantly on an incentive basis.

⁶ Insufficient data to warrant publication of separate earnings data by method of wage payment; workers are paid predominantly on a time basis.

Table 19. Occupational earnings: Portland, Oreg.-Wash.¹

(Number and average straight-time hourly earnings² of workers in selected occupations, in machinery manufacturing establishments, December 1974)

Occupation	Number of workers	Average hourly earnings ² and under	Number of workers receiving straight-time hourly earnings of—																																
			\$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	\$5.10	\$5.20	\$5.30	\$5.40	\$5.50	\$5.60	\$5.70	\$5.80	\$5.90								
			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	5.10	5.20	5.30	5.40	5.50	5.60	5.70	5.80	5.90									
ASSEMBLERS, CLASS A -----	418	\$6.11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-							
ASSEMBLERS, CLASS B -----	310	5.29	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
ASSEMBLERS, CLASS C -----	66	5.34	-	1	-	1	-	2	3	-	1	-	1	-	2	-	2	2	1	6	20	-	-	-	-	-	-	-	-						
INSPECTORS, CLASS A -----	62	6.12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
JANITORS, PORTERS, AND CLEANERS -----	50	4.67	5	-	-	-	-	3	-	-	-	3	3	1	21	5	3	6	-	-	-	-	-	-	-	-	-	-	-						
LABORERS, MATERIAL HANDLING -----	93	5.21	-	-	3	3	-	3	-	1	2	5	3	1	-	6	6	1	59	-	-	-	-	-	-	-	-	-	-						
MACHINE-TOOL OPERATORS, PRODUCTION, CLASS A ³ -----	551	6.08	-	-	-	-	-	-	-	-	-	-	-	3	1	-	-	-	4	4	11	38	25	32	422	-	11	-	-						
AUTOMATIC-LATHE OPERATORS -----	25	5.98	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	2	9	-	13	-	-	-	-	-	-	-					
DRILL-PRESS OPERATORS, RADIAL -----	43	5.97	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	4	5	4	-	29	-	-	-	-	-	-	-				
ENGINE-LATHE OPERATORS -----	159	6.11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	1	5	5	19	122	-	2	-	-	-	-	-				
GRINDING-MACHINE OPERATORS -----	18	5.72	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	1	4	2	1	60	-	8	-	-	-	-	-				
HILLING-MACHINE OPERATORS -----	78	6.15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
TURRET-LATHE OPERATORS, HAND (INCLUDING HAND SCREW MACH) -----	116	6.11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12	3	2	98	-	1	-	-	-	-	-	-			
MACHINE-TOOL OPERATORS, PRODUCTION, CLASS A ³ -----	266	5.28	-	-	-	-	-	6	-	1	1	11	4	6	2	3	15	2	17	89	103	5	1	-	-	-	-	-	-	-	-	-			
DRILL-PRESS OPERATORS, RADIAL -----	90	5.44	-	-	-	-	-	-	-	-	-	-	2	-	-	8	1	4	9	64	2	-	-	-	-	-	-	-	-	-	-	-			
DRILL-PRESS OPERATORS, SINGLE- OR MULTIPLE-SPINDLE -----	21	4.43	-	-	-	-	-	6	-	1	1	5	-	3	-	-	-	4	6	-	-	-	-	-	-	-	-	-	-	-	-	-			
GRINDING-MACHINE OPERATORS -----	21	4.70	-	-	-	-	-	-	-	-	-	-	4	1	-	3	-	5	6	-	2	-	-	-	-	-	-	-	-	-	-	-			
TURRET-LATHE OPERATORS, HAND (INCLUDING HAND SCREW MACH) -----	29	5.41	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	2	10	7	3	-	-	-	-	-	-	-	-	-	-	-		
MACHINE-TOOL OPERATORS, PRODUCTION NUMERICALLY CONTROLLED -----	43	5.87	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	-	-	13	5	19	-	-	-	-	-	-	-	-	-	-	-	
MACHINE-TOOL OPERATORS, TOOLROOM (MORE THAN ONE TYPE OF MACHINE) -----	47	6.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	19	-	5	16	-	-	-	-	-	-	
MACHINISTS, PRODUCTION -----	225	6.41	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	1	154	-	-	54	12	-	-	-	-	-	-		
MECHANICS, MAINTENANCE -----	21	6.18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	26	-	-	-	-	-	-	-	-	-	-	-	
PUNCH-PRESS OPERATORS, CLASS A -----	8	5.84	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	4	-	-	3	-	-	-	-	-	-	-	-	-	-	-	-
PUNCH-PRESS OPERATORS, CLASS B -----	33	5.24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	2	2	-	4	15	3	1	-	-	-	-	-	-	-	-	-	-	
TOOL AND DIEMAKERS (OTHER THAN JOBBLING) -----	24	6.55	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-	-	1	3	4	7	9	-	-	-	-	-	-	-	
TOOL CLERKS -----	9	5.43	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	2	15	27	142	470	-	1	-	-	-	-	-	-	-	-	-
WELDERS, HAND, CLASS A -----	659	6.11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

¹ The Portland Standard Metropolitan Statistical Area consists of Clackamas, Multnomah, and Washington Counties, Oreg.; and Clark County, Wash.

² Excludes premium pay for overtime and for work on weekends, holidays, and late shifts. These surveys, based on a representative sample of establishments are designed to measure the level of occupational earnings at a particular time. Thus, comparisons, made with previous studies may not

reflect expected wage movements because of change in the sample composition, and shifts in employment among establishments with different pay levels. Such shifts, for example, could decrease an occupational average, even though most establishments increased wages between periods being compared. Virtually all workers were paid on a time basis.

³ Includes data for operators of other machine tools in addition to those shown separately.

Table 20. Occupational earnings: St. Louis, Mo.—III.¹

(Number and average straight-time hourly earnings² of workers in selected occupations, in machinery manufacturing establishments, January 1975)

Occupation	Number of workers	Average hourly earnings ²	Number of workers receiving straight-time hourly earnings of—																														
			\$ 3.30	\$ 3.40	\$ 3.50	\$ 3.60	\$ 3.70	\$ 3.80	\$ 4.00	\$ 4.20	\$ 4.40	\$ 4.60	\$ 4.80	\$ 5.00	\$ 5.20	\$ 5.40	\$ 5.60	\$ 5.80	\$ 6.00	\$ 6.20	\$ 6.40	\$ 6.60	\$ 7.00	\$ 7.40	\$ 7.80	\$ 8.20	\$ 8.60						
			Under \$ 3.30	3.40	3.50	3.60	3.70	3.80	4.00	4.20	4.40	4.60	4.80	5.00	5.20	5.40	5.60	5.80	6.00	6.20	6.40	6.60	7.00	7.40	7.80	8.20	8.60						
ASSEMBLERS, CLASS A -----	291	\$ 5.78	-	-	-	-	-	-	-	-	-	-	-	6	-	33	8	50	19	27	-	74	69	2	-	1	2	-	-				
ASSEMBLERS, CLASS B -----	419	4.70	-	-	3	72	-	6	-	58	93	11	18	11	35	6	5	22	34	11	4	9	19	1	1	1	-	-	-				
ASSEMBLERS, CLASS C -----	1,321	4.22	168	6	6	45	14	261	169	368	3	63	77	13	30	51	33	8	1	2	1	2	1	1	1	-	-	-	-				
CARPENTERS, MAINTENANCE -----	8	5.76	-	-	-	-	-	-	-	-	-	-	-	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
ELECTRICIANS, MAINTENANCE -----	77	6.13	-	-	-	-	-	-	-	-	-	-	-	-	1	19	-	3	2	14	11	-	24	1	2	-	-	-	-	-			
INSPECTORS, CLASS A -----	112	6.23	-	-	-	-	-	-	-	-	1	-	20	6	1	2	2	6	3	4	2	20	-	4	5	34	1	1	-	-			
INSPECTORS, CLASS B -----	122	5.07	-	-	-	-	-	-	-	-	2	-	28	4	11	10	59	3	-	-	-	1	-	-	-	3	1	-	-	-			
INSPECTORS, CLASS C -----	252	4.47	-	-	-	-	2	14	42	54	23	-	-	6	17	22	66	1	1	-	-	-	1	1	2	-	-	-	-	-			
JANITORS, PORTERS, AND CLEANERS -----	164	4.06	27	-	3	4	6	14	45	-	-	12	18	31	1	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
LABORERS, MATERIAL HANDLING -----	388	4.17	-	8	4	15	-	2	13	253	8	-	77	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
MACHINE-TOOL OPERATORS, PRODUCTION CLASS A ⁴ -----	600	6.54	-	-	-	-	-	-	-	-	-	-	-	9	-	9	8	48	58	27	129	91	22	20	27	47	79	18	8				
DRILL-PRESS OPERATORS, RADIAL -----	42	5.93	-	-	-	-	-	-	-	-	-	-	-	-	1	-	10	2	-	26	2	-	1	-	-	-	-	-	-	-	-		
GRINDING-MACHINE OPERATORS -----	30	6.06	-	-	-	-	-	-	-	-	-	-	-	-	-	2	3	-	-	19	2	-	3	1	-	-	-	-	-	-	-		
MILLING-MACHINE OPERATORS -----	110	6.64	-	-	-	-	-	-	-	-	-	-	-	6	-	6	2	2	2	14	14	5	15	1	4	11	26	2	-	-			
TURRET-LATHE OPERATORS, HAND (INCLUDING HAND SCREW MACH) -----	88	6.15	-	-	-	-	-	-	-	-	-	-	-	-	2	4	2	26	11	27	1	-	2	3	3	5	2	-	-	-			
MACHINE-TOOL OPERATORS, PRODUCTION CLASS B ⁵ -----	491	5.07	-	-	-	3	-	6	3	3	64	45	82	41	74	30	77	14	15	4	1	-	7	5	7	4	3	3	-	-			
DRILL-PRESS OPERATORS, SINGLE- OR MULTIPLE-SPINDLE -----	102	5.10	-	-	-	-	-	-	3	-	14	17	3	1	14	12	15	13	8	1	-	-	1	-	-	-	-	-	-	-	-		
GRINDING-MACHINE OPERATORS -----	83	4.85	-	-	-	-	-	-	-	4	10	26	24	16	-	-	1	-	-	-	1	-	-	1	-	-	-	-	-	-	-	-	
MILLING-MACHINE OPERATORS -----	39	4.94	-	-	-	-	-	-	-	10	12	2	6	-	-	-	2	2	1	-	2	2	1	-	4	-	-	-	-	-	-	-	-
TURRET-LATHE OPERATORS, HAND (INCLUDING HAND SCREW MACH) -----	48	5.05	-	-	-	-	-	-	-	-	2	7	4	29	-	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MACHINE-TOOL OPERATORS, PRODUCTION CLASS C -----	370	4.69	2	-	-	-	-	-	43	116	-	-	86	20	44	9	13	13	4	2	5	3	-	-	4	4	2	-	-	-	-	-	
MACHINE-TOOL OPERATORS, PRODUCTION NUMERICALLY CONTROLLED ⁴ -----	184	6.33	-	-	-	-	-	-	-	-	6	-	-	-	-	7	12	53	1	30	8	3	29	7	6	9	5	8	-	-	-	-	
AUTOMATIC-LATHE OPERATORS -----	18	6.51	-	-	-	-	-	-	-	-	-	-	-	-	3	-	2	-	6	-	-	2	3	1	1	-	-	-	-	-	-	-	
TURRET-LATHE OPERATORS, HAND (INCLUDING HAND SCREW MACH) -----	15	5.76	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	8	-	6	-	-	-	-	-	-	-	-	-	-	-	-	-
MACHINE-TOOL OPERATORS, TOOLROOM (ONE TYPE OF MACHINE) ⁶ -----	63	5.76	-	-	-	-	-	-	-	-	-	-	-	5	31	-	-	-	-	-	-	11	14	1	1	-	-	-	-	-	-	-	
GRINDING-MACHINE OPERATORS -----	21	6.31	-	-	-	-	-	-	-	-	-	-	-	6	-	-	-	-	-	-	-	5	8	1	1	-	-	-	-	-	-	-	
MACHINE-TOOL OPERATORS, TOOLROOM (MORE THAN ONE TYPE OF MACHINE) -----	395	6.89	-	-	-	-	-	-	-	-	3	-	3	-	1	3	-	14	4	5	261	86	12	-	-	-	-	-	-	-	-	-	

See footnotes at end of table.

Table 20. Occupational earnings: St. Louis, Mo.-III.¹-Continued

(Number and average straight-time hourly earnings² of workers in selected occupations, January 1975)

Occupation	Number of workers	Average hourly earnings ²	Number of workers receiving straight-time hourly earnings of—																										
			\$ 3.30 Under \$ 3.30	\$ 3.40	\$ 3.50	\$ 3.60	\$ 3.70	\$ 3.80	\$ 4.00	\$ 4.20	\$ 4.40	\$ 4.60	\$ 4.80	\$ 5.00	\$ 5.20	\$ 5.40	\$ 5.60	\$ 5.80	\$ 6.00	\$ 6.20	\$ 6.40	\$ 6.60	\$ 6.80	\$ 7.00	\$ 7.40	\$ 7.80	\$ 8.20	\$ 8.60	
MACHINISTS, MAINTENANCE -----	114	\$ 6.47	—	—	—	—	—	—	—	—	—	—	—	4	6	2	4	3	—	20	4	—	60	10	1	—	—	—	
MACHINISTS, PRODUCTION -----	317	6.26	—	—	—	—	—	—	—	—	—	—	—	6	4	29	7	20	45	53	—	4	140	9	—	—	—	—	
MECHANICS, MAINTENANCE -----	100	5.94	—	—	—	—	—	—	—	—	—	—	—	7	—	4	—	20	6	2	—	4	27	25	4	—	1	—	
POLISHERS AND BUFFERS, METAL -----	47	4.91	3	—	—	—	—	—	3	—	—	6	21	—	1	—	—	1	5	2	5	—	—	—	—	—	—	—	
POLISHING- AND BUFFING-MACHINE OPERATORS -----	28	4.95	—	—	—	—	—	—	3	—	15	—	—	—	1	1	—	—	3	—	1	—	1	2	1	—	—	—	
PUNCH-PRESS OPERATORS, CLASS A -----	135	5.05	—	—	—	—	—	—	—	30	—	—	5	14	43	10	6	10	6	4	4	1	1	—	—	—	—	—	
PUNCH-PRESS OPERATORS, CLASS B -----	275	4.35	6	—	4	1	10	18	—	51	104	6	14	19	36	3	3	3	—	—	—	—	—	—	—	—	—	—	
SET-UP MEN, MACHINE TOOLS -----	113	5.39	—	—	—	—	—	—	—	—	2	8	35	6	4	—	6	19	10	—	7	2	14	—	—	—	—	—	—
TOOL AND DIEMAKERS (JOBBING) -----	226	7.49	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	8	11	202	5	—	—	
TOOL AND DIEMAKERS (OTHER THAN JOBBING) -----	245	7.15	—	—	—	—	—	—	—	—	3	—	9	—	—	—	5	—	—	—	—	1	66	58	69	27	6	1	
TOOL CLERKS -----	32	4.62	—	—	—	—	—	—	1	—	8	1	4	4	7	7	—	—	—	—	—	—	—	—	—	—	—	—	—
WELDERS, HAND, CLASS A -----	230	5.84	—	—	—	—	—	—	—	4	4	11	26	—	—	18	2	—	55	12	79	—	12	1	1	2	3	—	
WELDERS, HAND, CLASS B -----	163	4.78	3	—	—	3	—	—	—	—	51	4	51	—	20	—	—	3	28	—	—	—	—	—	—	—	—	—	—
WELDERS, MACHINE, CLASS B -----	58	4.44	—	—	—	—	—	—	12	34	—	—	2	10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

¹ The St. Louis Standard Metropolitan Statistical Area consists of the city of St. Louis, Franklin, Jefferson, St. Charles, and St. Louis Counties, Mo.; and Clinton, Madison, Monroe, and St. Clair Counties, Ill.

² Excludes premium pay for overtime and for work on weekends, holidays, and late shifts. These surveys, based on a representative sample of establishments, are designed to measure the level of occupational earnings at a particular time. Thus, comparisons made with previous studies may not reflect expected wage movements because of change in the sample composition, and shifts in

employment among establishments with different pay levels. Such shifts, for example, could decrease an occupational average, even though most establishments increased wages between periods being compared. Virtually all workers were paid on time basis.

³ Workers were distributed as follows: 3 at \$2.40 to \$2.50; 3 at \$2.80 to \$2.90; 7 at \$2.90 to \$3; 8 at \$3 to \$3.10; 4 at \$3.10 to \$3.20; and 2 at \$3.20 to \$3.30.

⁴ Includes data for operators of other machine tools in addition to those shown separately.

Table 21. Occupational earnings: San Francisco—Oakland, Calif.¹

(Number and average straight-time hourly earnings² of workers in selected occupations in machinery manufacturing establishments, December 1974)

Occupation	Number of workers	Average hourly earnings ²	Number of workers receiving straight-time hourly earnings of—																										
			\$ 2.60 under \$ 2.60	\$ 2.80 under \$ 2.80	\$ 3.00 under \$ 3.00	\$ 3.20 under \$ 3.20	\$ 3.40 under \$ 3.40	\$ 3.60 under \$ 3.60	\$ 3.80 under \$ 3.80	\$ 4.00 under \$ 4.00	\$ 4.20 under \$ 4.20	\$ 4.40 under \$ 4.40	\$ 4.60 under \$ 4.60	\$ 4.80 under \$ 4.80	\$ 5.00 under \$ 5.00	\$ 5.20 under \$ 5.20	\$ 5.40 under \$ 5.40	\$ 5.60 under \$ 5.60	\$ 5.80 under \$ 5.80	\$ 6.00 under \$ 6.00	\$ 6.20 under \$ 6.20	\$ 6.40 under \$ 6.40	\$ 6.60 under \$ 6.60	\$ 6.80 under \$ 6.80	\$ 7.00 under \$ 7.00	\$ 7.40 under \$ 7.40	\$ 7.80 under \$ 7.80	\$ 8.20 under \$ 8.20	\$ 8.60 over
			Under \$ 2.60	2.80	3.00	3.20	3.40	3.60	3.80	4.00	4.20	4.40	4.60	4.80	5.00	5.20	5.40	5.60	5.80	6.00	6.20	6.40	6.60	6.80	7.00	7.40	7.80	8.20	8.60
ASSEMBLERS, CLASS A -----	688	\$ 5.68	-	-	-	-	-	-	-	82	53	38	46	24	5	7	-	-	34	43	63	137	5	151	-	-	-	-	
TIME -----	688	\$ 5.68	-	-	-	-	-	-	-	82	53	38	46	24	5	7	-	-	34	43	63	137	5	151	-	-	-	-	
ASSEMBLERS, CLASS B -----	540	\$ 5.14	-	-	-	3	3	80	43	24	-	26	-	-	-	13	-	-	146	46	156	-	-	-	-	-	-	-	
TIME -----	540	\$ 5.14	-	-	-	3	3	80	43	24	-	26	-	-	-	13	-	-	146	46	156	-	-	-	-	-	-	-	
ASSEMBLERS, CLASS C -----	341	\$ 4.64	\$ 51	-	-	14	7	38	-	-	-	9	-	-	-	-	4	195	8	15	-	-	-	-	-	-	-	-	-
TIME -----	341	\$ 4.64	\$ 51	-	-	14	7	38	-	-	-	9	-	-	-	-	4	195	8	15	-	-	-	-	-	-	-	-	-
ELECTRICIANS, MAINTENANCE -----	33	\$ 8.03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	1	1	1	5	6	6	10	10	10
TIME -----	33	\$ 8.03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	1	1	1	5	6	6	10	10	10
INSPECTORS, CLASS A -----	130	\$ 7.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	7	29	85	-	1	6	-
TIME -----	130	\$ 7.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	7	29	85	-	1	6	-
INSPECTORS, CLASS B -----	95	\$ 5.46	-	-	-	-	-	-	-	1	11	3	5	1	8	10	-	-	-	31	13	12	-	-	-	-	-	-	-
TIME -----	95	\$ 5.46	-	-	-	-	-	-	-	1	11	3	5	1	8	10	-	-	-	31	13	12	-	-	-	-	-	-	-
INSPECTORS, CLASS C -----	64	\$ 5.19	3	3	-	3	-	-	2	-	-	-	-	-	-	-	6	24	-	23	-	-	-	-	-	-	-	-	-
TIME -----	64	\$ 5.19	3	3	-	3	-	-	2	-	-	-	-	-	-	-	6	24	-	23	-	-	-	-	-	-	-	-	-
JANITORS, PORTERS, AND CLEANERS -----	86	\$ 4.62	-	7	-	11	3	4	1	5	1	3	1	-	2	-	22	9	2	15	-	-	-	-	-	-	-	-	-
TIME -----	86	\$ 4.62	-	7	-	11	3	4	1	5	1	3	1	-	2	-	22	9	2	15	-	-	-	-	-	-	-	-	-
LABORERS, MATERIAL HANDLING -----	58	\$ 5.81	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	2	23	24	-	-	-	-	-	-	-	-
TIME -----	58	\$ 5.81	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	2	23	24	-	-	-	-	-	-	-	-
MACHINE-TOOL OPERATORS, PRODUCTION, CLASS A ³ -----	714	7.01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	-	84	96	13	354	129	24	9	-		
TIME -----	714	7.01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	-	84	96	13	354	129	24	9	-			
AUTOMATIC-LATHE OPERATORS -----	15	7.21	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9	6	-	-	-	-	
TIME -----	15	7.21	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9	6	-	-	-	-	
DRILL-PRESS OPERATORS, RADIAL -----	32	7.01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	-	28	-	-	-	
TIME -----	32	7.01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	-	28	-	-	-	
ENGINE-LATHE OPERATORS -----	90	7.07	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	-	4	82	-	-	-	-	-	
TIME -----	90	7.07	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	-	4	82	-	-	-	-	-	
MILLING-MACHINE OPERATORS -----	83	6.95	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	21	-	21	-	62	-	-	-	-	-
TIME -----	83	6.95	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	21	-	21	-	62	-	-	-	-	-
TURRET-LATHE OPERATORS, HAND (INCLUDING HAND SCREW MACH) -----	48	7.13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	48	-	-	-	-	-	
TIME -----	48	7.13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	48	-	-	-	-	-	
MACHINE-TOOL OPERATORS, PRODUCTION, CLASS B -----	400	6.03	-	-	-	-	-	-	-	-	-	-	-	-	-	19	-	-	9	6	331	32	3	-	-	-	-	-	-
TIME -----	400	6.03	-	-	-	-	-	-	-	-	-	-	-	-	-	19	-	-	9	6	331	32	3	-	-	-	-	-	-
MILLING-MACHINE OPERATORS -----	22	6.04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	-	19	-	-	-	-	-	-	-	-
TIME -----	22	6.04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	-	19	-	-	-	-	-	-	-	-
MACHINE-TOOL OPERATORS, PRODUCTION, CLASS C -----	432	\$ 5.68	-	-	-	11	-	12	-	-	-	-	-	-	-	-	-	58	68	283	-	-	-	-	-	-	-	-	-
TIME -----	432	\$ 5.68	-	-	-	11	-	12	-	-	-	-	-	-	-	-	-	58	68	283	-	-	-	-	-	-	-	-	-
MACHINE-TOOL OPERATORS, PRODUCTION NUMERICALLY CONTROLLED -----	77	6.24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9	3	34	16	9	6	-	-	-	-	-
TIME -----	77	6.24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9	3	34	16	9	6	-	-	-	-	-
DRILL-PRESS OPERATORS, SINGLE- OR MULTIPLE-SPINDLE -----	18	6.09	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9	-	6	-	-	3	-	-	-	-	-
TIME -----	18	6.09	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9	-	6	-	-	3	-	-	-	-	-

See footnotes at end of table.

Table 21. Occupational earnings: San Francisco—Oakland, Calif.¹—Continued

(Number and average straight-time hourly earnings² of workers in selected occupations in machinery manufacturing establishments, December 1974)

Occupation	Number of workers	Average hourly earnings ²	Number of workers receiving straight-time hourly earnings of—																															
			\$ 2.60 and under	\$ 2.80	\$ 3.00	\$ 3.20	\$ 3.40	\$ 3.60	\$ 3.80	\$ 4.00	\$ 4.20	\$ 4.40	\$ 4.60	\$ 4.80	\$ 5.00	\$ 5.20	\$ 5.40	\$ 5.60	\$ 5.80	\$ 6.00	\$ 6.20	\$ 6.40	\$ 6.60	\$ 7.00	\$ 7.40	\$ 7.80	\$ 8.20	\$ 8.60	and over					
			2.80	3.00	3.20	3.40	3.60	3.80	4.00	4.20	4.40	4.60	4.80	5.00	5.20	5.40	5.60	5.80	6.00	6.20	6.40	6.60	7.00	7.40	7.80	8.20	8.60	over						
MACHINISTS, MAINTENANCE	57	\$ 7.54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	5	6	42	3	-	-					
TIME	57	7.54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	5	6	42	3	-	-					
MACHINISTS, PRODUCTION	357	6.73	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	56	82	67	134	12	-	-					
TIME	357	6.73	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	56	82	67	134	12	-	-				
MECANICS, MAINTENANCE	32	6.53	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	2	3	56	82	67	134	12	-	-		
TIME	32	6.53	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	6	4	7	10	-	-	3	-	-	-	
PUNCH-PRESS OPERATORS, CLASS A	94	5.84	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	55	-	21	-	-	12	2	-	-	-	-
TIME	94	5.84	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	55	-	21	-	-	12	2	-	-	-	-
TOOL AND DIEMAKERS (OTHER THAN JOBBING)	125	8.35	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	40	64	6 ¹⁹	19	
TIME	125	8.35	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	40	64	6 ¹⁹	19		
TOOL CLERKS	43	6.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	22	14	4	-	1	-	-	-	-	-	
TIME	43	6.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	22	14	4	-	1	-	-	-	-	-	
WELDERS, HAND, CLASS A	332	7.13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14	1	20	3	257	34	3	-	-	-	-	
TIME	332	7.13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14	1	20	3	257	34	3	-	-	-	-	
WELDERS, MACHINE, CLASS B	39	5.26	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8	12	-	6	-	-	-	-	-	-	-	
TIME	39	5.26	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8	12	-	6	-	-	-	-	-	-	-	-

¹ The San Francisco—Oakland Standard Metropolitan Statistical Area consists of Alameda, Contra Costa, Marin, San Francisco, and San Mateo Counties.

² Excludes premium pay for overtime and for work on weekends, holidays, and late shifts. These surveys, based on a representative sample of establishments, are designed to measure the level of occupational earnings at a particular time. Thus, comparisons made with previous studies may not reflect expected wage movements because of changes in sample composition and shifts in employment among establishments with different pay levels. Such shifts, for example, could

decrease an occupational average, even though most establishments increased wages between periods being compared.

³ Workers were distributed as follows: 36 at \$2 to \$2.20; 6 at \$2.20 to \$2.40; and 9 at \$2.40 to \$2.60.

⁴ Workers were distributed as follows: 4 at \$9.40 to \$9.80; and 6 at \$9.80 to \$10.20.

⁵ Includes data for operators of other machine tools in addition to those shown separately.

⁶ Workers were distributed as follows: 7 at \$8.60 to \$9; and 12 at \$9 to \$9.40.

Table 22. Occupational earnings: Tulsa, Okla.¹

(Number and average straight-time hourly earnings² of workers in selected occupations in machinery manufacturing establishments, January 1975)

Occupation	Number of workers	Average hourly earnings ² and under 2.60	Number of workers receiving straight-time hourly earnings of—																															
			\$ 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	\$ 4.10	\$ 4.20	\$ 4.40	\$ 4.60	\$ 4.80	\$ 5.00	\$ 5.20	\$ 5.40	\$ 5.60	\$ 5.80						
			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	4.10	4.20	4.40	4.60	4.80	5.00	5.20	5.40	5.60	5.80							
ASSEMBLERS, CLASS A -----	258	\$ 4.35	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
ASSEMBLERS, CLASS B -----	221	4.19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
ASSEMBLERS, CLASS C -----	114	3.00	40	-	-	12	-	12	4	1	3	1	2	39	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
ELECTRICIANS, MAINTENANCE -----	18	4.90	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
INSPECTORS, CLASS A -----	99	4.61	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
INSPECTORS, CLASS B -----	30	4.18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
JANITORS, PORTERS, AND CLEANERS -----	82	3.41	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
LABORERS, MATERIAL HANDLING -----	60	3.28	4	-	2	-	-	13	12	4	2	5	3	3	1	8	-	2	1	-	-	-	-	-	-	-	-	-						
 MACHINE-TOOL OPERATORS, PRODUCTION, CLASS A -----	 565	 4.58	-	-	-	-	-	-	-	-	-	1	2	-	4	14	17	18	13	64	78	51	92	110	69	24	6	2	-					
AUTOMATIC-LATHE OPERATORS -----	72	4.69	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
DRILL-PRESS OPERATORS, RADIAL -----	50	4.20	-	-	-	-	-	-	-	-	-	1	2	-	1	4	4	11	-	-	19	2	1	1	-	-	4	-	-					
ENGINE-LATHE OPERATORS -----	37	4.49	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	2	3	2	15	-	-	-	-					
GRINDING-MACHINE OPERATORS -----	54	4.55	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	1	2	1	-	-	-	-					
MILLING-MACHINE OPERATORS -----	61	4.59	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	4	5	4	9	12	23	-	-					
TURRET-LATHE OPERATORS, HAND (INCLUDING HAND SCREW MACH) -	101	4.53	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	3	1	4	23	19	8	3	27	-	12	-	-	-				
 MACHINE-TOOL OPERATORS, PRODUCTION, CLASS B ³ -----	 262	 3.87	-	-	-	-	-	-	4	6	2	6	10	46	39	11	22	19	25	12	19	34	5	2	-	-	-	-	-	-				
AUTOMATIC-LATHE OPERATORS -----	22	3.85	-	-	-	-	-	-	2	1	-	-	5	-	-	-	4	4	4	4	-	-	-	2	-	-	-	-	-	-	-	-		
DRILL-PRESS OPERATORS, RADIAL -----	12	3.76	-	-	-	-	-	-	1	5	-	-	-	-	-	-	2	-	-	-	-	-	-	4	-	-	-	-	-	-	-	-		
GRINDING-MACHINE OPERATORS -----	15	3.88	-	-	-	-	-	-	-	-	-	-	4	4	-	2	-	-	-	-	4	1	-	-	-	-	-	-	-	-				
TURRET-LATHE OPERATORS, HAND (INCLUDING HAND SCREW MACH) -	17	3.84	-	-	-	-	-	-	-	-	-	-	2	1	3	2	1	4	3	-	-	-	1	-	-	-	-	-	-	-	-			
 MACHINE-TOOL OPERATORS, PRODUCTION, NUMERICALLY CONTROLLED ³ -----	 148	 4.53	-	-	-	-	-	-	-	1	1	-	-	-	-	1	4	1	-	17	26	21	19	54	3	-	-	-	-	-	-	-	-	
AUTOMATIC-LATHE OPERATORS -----	12	4.43	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	2	1	-	3	-	-	-	-	-	-	-	-	-	-
 MACHINE-TOOL OPERATORS, TOOLROOM (MORE THAN ONE TYPE OF MACHINE) -	 11	 4.80	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	8	1	-	-	7	2	-	-	-	-	-	-
MECHANICS, MAINTENANCE -----	56	4.62	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-	1	9	8	11	9	3	4	7	2	-	-	-	-	-	-
TOOL AND DIESMAKERS (OTHER THAN JOBBERING) -----	23	5.27	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2	4	-	11	2	2	3	5	-	-	4	1	1	-	8	4	4	1
TOOL CLERKS -----	31	4.01	-	-	-	-	-	-	-	-	-	-	-	-	-	3	2	1	-	3	2	10	5	13	51	19	36	5	95	4	4	-	-	-
WELDERS, HAND, CLASS A -----	268	4.64	-	-	-	-	-	-	-	-	-	-	-	-	-	3	2	1	-	3	2	-	4	8	-	4	4	-	-	-	-	-	-	-
WELDERS, HAND, CLASS B -----	27	4.14	-	-	-	-	-	-	-	-	-	-	-	-	-	3	2	1	-	3	2	-	4	8	-	4	4	-	-	-	-	-	-	-

¹ The Tulsa Standard Metropolitan Statistical Area consists of Creek, Mayes, Osage, Rogers, Tulsa, and Wagoner Counties.

² Excludes premium pay for overtime and for work on weekends, holidays, and late shifts. These surveys, based on a representative sample of establishments, are designed to measure the level of occupational earnings at a particular time. Thus, comparisons made with previous studies may not

reflect expected wage movements because of change in the sample composition, and shifts in employment among establishments with different pay levels. Such shifts, for example, could decrease an occupational average, even though most establishments increased wages between periods being compared. All workers were paid on a time basis.

³ Includes data for operators of other machine tools in addition to those shown separately.

Table 23. Occupational earnings: Worcester, Mass.¹

(Number and average straight-time hourly earnings² of workers in selected occupations in machinery manufacturing establishments, November 1974)

Occupation	Number of workers	Average hourly earnings ² Under \$3.00	Number of workers receiving straight-time hourly earnings of—																										
			\$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	\$4.80	\$5.00	\$5.20	\$5.40	\$5.60	\$5.80	\$6.00	\$6.20		
			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	4.80	5.00	5.20	5.40	5.60	5.80	6.00	6.20			
ASSEMBLERS, CLASS A —																													
TIME —	176	\$4.79	-	-	-	-	-	-	-	-	-	-	9	27	1	2	17	10	21	18	45	9	6	8	-	1	2		
TIME —	168	4.75	-	-	-	-	-	-	-	-	-	-	9	27	1	2	17	10	21	14	44	9	6	8	-	2	1		
ASSEMBLERS, CLASS B —	231	4.10	-	-	-	-	-	-	27	16	75	28	5	5	10	7	16	5	14	11	8	-	1	-	-	-	-	-	
TIME —	227	4.07	-	-	-	-	-	27	16	75	28	5	5	10	7	16	5	14	11	8	-	1	-	-	-	-	-	-	
ASSEMBLERS, CLASS C —	132	3.63	30	-	16	-	-	10	1	14	-	10	8	-	12	1	1	4	10	5	1	4	-	-	-	-	-	-	
TIME —	119	3.48	30	-	16	-	-	10	1	14	-	10	8	-	12	1	1	3	10	5	1	4	-	-	-	-	-	-	
INCENTIVE —	13	4.96	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
ELECTRICIANS, MAINTENANCE ³ —	31	5.37	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	2	
INSPECTORS, CLASS A —	76	4.89	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TIME —	69	4.83	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
INSPECTORS, CLASS B ⁴ —	77	4.22	-	-	-	-	-	-	-	-	-	-	1	1	6	24	21	8	1	1	2	7	4	1	-	-	-	-	
INSPECTORS, CLASS C ⁴ —	34	3.28	12	-	-	-	-	-	-	-	-	4	18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
JANITORS, PORTERS, AND CLEANERS ⁵ —	73	3.57	3	5	3	7	4	4	5	15	10	4	7	4	2	-	-	-	-	-	-	-	-	-	-	-	-	-	
LABORERS, MATERIAL HANDLING ¹ —	65	3.74	3	-	-	-	-	1	14	4	-	33	7	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	
MACHINE-TOOL OPERATORS, PRODUCTION, CLASS A ⁶ —	649	4.83	-	-	-	-	-	-	26	16	12	3	26	46	56	19	44	24	61	58	64	69	44	34	7	11	29		
TIME —	587	4.69	-	-	-	-	-	-	26	16	12	3	26	46	56	19	44	24	60	57	59	65	41	22	2	8	1		
DRILL-PRESS OPERATORS, RADIAL —	42	4.75	-	-	-	-	-	-	-	-	-	-	-	-	11	6	3	1	2	9	-	1	1	4	1	-	2	-	
TIME —	38	4.53	-	-	-	-	-	-	-	-	-	-	-	-	11	6	3	1	2	9	-	1	1	4	-	-	-	-	
DRILL-PRESS OPERATORS, SINGLE-OR MULTIPLE-SPINDLE ⁷ —	12	4.33	-	-	-	-	-	-	-	-	-	5	2	-	-	-	3	-	-	-	-	1	-	-	-	1	-	-	
ENGINE-LATHE OPERATORS —	50	5.05	-	-	-	-	-	-	2	-	-	-	4	-	1	-	-	2	8	10	6	2	3	10	-	-	2	-	
TIME —	47	4.96	-	-	-	-	-	-	2	-	-	-	4	-	1	-	-	2	8	10	6	2	1	3	10	-	-	8	-
GRINDING-MACHINE OPERATORS —	198	4.73	-	-	-	-	-	-	18	16	7	-	10	7	17	1	7	1	12	11	25	44	9	4	1	-	-	8	
TIME —	183	4.60	-	-	-	-	-	-	18	16	7	-	10	7	17	1	7	1	12	11	25	43	8	-	-	-	-	-	-
MILLING-MACHINE OPERATORS —	107	4.99	-	-	-	-	-	-	2	-	-	-	-	-	27	-	-	9	1	14	6	8	7	9	8	4	5	7	
TIME —	89	4.79	-	-	-	-	-	-	2	-	-	-	-	-	27	-	-	9	1	13	6	5	7	9	3	1	1	-	
TURRET-LATHE OPERATORS, HAND (INCLUDING HAND SCREW MACH) —	87	4.62	-	-	-	-	-	-	2	-	-	-	5	-	22	3	3	3	16	24	3	2	-	3	1	-	1	1	
TIME —	81	4.55	-	-	-	-	-	-	2	-	-	-	5	-	22	3	3	3	16	23	2	-	2	-	-	-	-	-	
MACHINE-TOOL OPERATORS, PRODUCTION, CLASS B ⁶ —	354	4.36	-	-	-	-	5	20	22	44	22	29	3	11	16	11	14	34	46	32	26	3	11	5	-	-	6		
TIME —	280	4.24	-	-	-	4	18	20	43	19	28	1	6	12	8	9	26	38	24	16	-	-	-	-	-	-	-	-	
AUTOMATIC-LATHE OPERATORS —	11	4.27	-	-	-	-	-	-	-	-	-	6	-	-	1	-	-	3	-	-	-	-	-	-	-	-	-	-	
DRILL-PRESS OPERATORS, RADIAL —	26	4.33	-	-	-	-	-	-	1	6	1	2	-	1	2	1	3	2	2	1	-	1	1	-	-	-	-	-	
TIME —	22	4.21	-	-	-	-	-	-	1	6	1	2	-	1	1	1	3	2	1	2	1	-	-	-	-	-	-	-	
DRILL-PRESS OPERATORS, SINGLE-OR MULTIPLE-SPINDLE ⁷ —	49	4.21	-	-	-	-	1	1	19	-	7	-	1	1	2	1	3	3	2	3	1	1	-	-	-	2	-		
GRINDING-MACHINE OPERATORS —	86	4.25	-	-	-	4	16	-	-	-	5	15	-	4	-	1	-	8	13	10	10	-	-	-	-	-	-	-	
TIME —	83	4.24	-	-	-	4	16	-	-	-	5	15	-	3	-	1	-	7	13	9	10	-	-	-	-	-	-	-	
MILLING-MACHINE OPERATORS —	72	4.44	-	-	-	-	-	1	2	22	3	1	1	3	4	1	5	4	11	2	1	2	3	-	-	-	3		
TIME —	47	4.21	-	-	-	-	-	-	22	3	1	1	-	3	-	2	3	8	1	-	2	-	-	-	-	-	-	-	
TURRET-LATHE OPERATORS, HAND (INCLUDING HAND SCREW MACH) —	34	4.08	-	-	-	-	-	-	13	2	1	-	-	10	2	-	4	2	-	-	-	-	-	-	-	-	-	-	
TIME —	33	4.06	-	-	-	-	-	-	13	2	1	-	-	10	2	-	4	1	-	-	-	-	-	-	-	-	-	-	
MACHINE-TOOL OPERATORS, PRODUCTION, CLASS C ⁴ —	112	3.68	8	10	-	1	6	-	1	24	11	24	14	3	-	1	2	7	-	-	-	-	-	-	-	-	-	-	

See footnotes at end of table.

Table 23. Occupational earnings: Worcester, Mass.¹ —Continued

(Number and average straight-time hourly earnings² of workers in selected occupations, November 1974)

Occupation	Number of workers	Average hourly earnings ²	Number of workers receiving straight-time hourly earnings of—																										
			\$ 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	\$ 4.80	\$ 5.00	\$ 5.20	\$ 5.40	\$ 5.60	\$ 5.80	\$ 6.00	\$ 6.20		
			Under \$ 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	4.80	5.00	5.20	5.40	5.60	5.80	6.00	and over		
MACHINE-TOOL OPERATORS, PRODUCTION, NUMERICALLY CONTROLLED ⁴	72	\$ 5.03	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	7	
TIME	62	4.83	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
DRILL-PRESS OPERATORS, SINGLE-OR MULTIPLE-SPINDLE	44	5.06	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
TIME	34	4.70	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
MACHINE-TOOL OPERATORS, TOOLROOM (ONE TYPE OF MACHINE) ⁵	68	4.16	—	3	—	6	—	—	3	—	13	—	1	4	5	5	9	3	6	1	1	4	2	—	—	—	—	2	
TIME	66	4.07	—	3	—	6	—	—	3	—	13	—	1	4	5	5	9	3	6	1	1	4	2	—	—	—	—	—	
ENGINE-LATHE OPERATORS ⁶	10	4.24	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
GRINDING-MACHINE OPERATORS	21	4.80	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2	
TIME	19	4.64	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
MILLING-MACHINE OPERATORS ⁷	11	3.82	—	—	—	—	—	—	3	—	4	—	—	1	—	3	—	—	—	—	—	—	—	—	—	—	—	—	
MACHINE-TOOL OPERATORS, TOOLROOM (MORE THAN ONE TYPE OF MACHINE) ⁴	39	4.53	—	—	—	—	—	—	2	—	2	—	—	—	—	—	8	12	6	1	3	—	—	3	2	—	—	—	
MACHINISTS, PRODUCTION	26	4.70	—	—	—	—	—	—	1	1	1	—	4	—	—	—	—	—	2	—	6	3	3	2	—	—	—	1	
TIME	25	4.64	—	—	—	—	—	—	1	1	1	—	4	—	—	—	—	—	2	2	—	6	3	3	2	—	—	—	
MECHANICS, MAINTENANCE ⁴	54	5.21	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
PUNCH-PRESS OPERATORS, CLASS A ⁷	16	4.21	—	—	—	—	—	—	2	—	3	—	—	8	—	—	—	1	—	2	6	3	9	26	4	2	—	1	
TOOL AND DIEMAKERS (JOBMING) ⁴	38	4.92	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4	—	4	4	5	15	4	—	2	—	—	
TOOL AND DIEMAKERS (OTHER THAN JOBMING)	60	5.08	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	20	15	8	12	1	1	—	2	1
TIME	58	5.04	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	20	15	8	12	1	1	—	2	—	
TOOL CLERKS	22	4.09	—	—	—	—	—	—	1	—	—	4	—	7	3	2	1	—	2	—	—	—	—	1	1	—	—	—	
TIME	20	3.97	—	—	—	—	—	—	1	—	—	4	—	7	3	2	1	—	2	—	—	—	—	—	1	1	—	—	—
WELDERS, HAND, CLASS A	40	4.92	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	17	2	1	3	4	1	8	3	—	
TIME	37	4.86	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	17	2	1	3	3	1	7	3	—	

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

² Excludes premium pay for overtime and for work on weekends, holidays, and late shifts. These surveys, based on a representative sample of establishments, are designed to measure the level of occupational earnings at a particular time. Thus, comparisons made with previous studies may not reflect expected wage movements because of change in the sample composition, and shifts in employment among establishments with different pay levels. Such shifts, for example, could decrease an occupational average, even though most establishments increased wages between periods being compared.

³ Workers were distributed as follows: 6 at \$2 to \$2.10; 12 at \$2.20 to \$2.30; 3 at \$2.40 to \$2.50; 3 at \$2.50 to \$2.60; and 6 at \$2.80 to \$2.90.

⁴ All timeworkers.

⁵ Workers were distributed as follows: 9 at \$2.20 to \$2.30; and 3 at \$2.40 to \$2.50.

⁶ Includes data for operators of other machine tools in addition to those shown separately.

⁷ Insufficient data to warrant publication of separate earnings data by method of wage payment; workers are paid predominantly on a time basis.

⁸ Workers were distributed as follows: 3 at \$6.20 to \$6.40; 3 at \$6.60 to \$6.80; and 1 at \$6.80 to \$7.

Table 24. Occupational averages in 11 areas: By selected industries

(Number and average straight-time hourly earnings¹ of workers in selected occupations in establishments primarily manufacturing selected products, winter 1974-75)

Occupation	Chicago						Cleveland		Detroit				Los Angeles— Long Beach and Anaheim— Santa Ana— Garden Grove		Milwaukee	
	Special dies and tools ²		Machine-tool accessories ³		Construction ma- chinery equipment ⁴		Special dies and tools ²		Special dies and tools ²		Machine-tool accessories ³		Oil-field Oil machinery ⁵		Special dies and tools ²	
	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	Number of workers	Average hourly earnings	Number of workers	Average hourly earnings
Assemblers, class A	-	-	21	\$ 5.08	929	\$ 5.81	-	-	-	-	42	\$ 5.74	55	\$ 5.54	-	-
Assemblers, class B	-	-	-	454	5.17	-	-	-	-	-	-	-	20	5.19	-	-
Assemblers, class C	-	-	29	3.62	24	4.87	-	-	-	-	-	-	34	4.74	-	-
Carpenters, maintenance	-	-	-	-	12	6.57	-	-	-	-	-	-	-	-	-	-
Electricians, maintenance	-	-	14	5.62	148	6.82	13	\$ 5.62	-	-	-	-	31	6.12	-	-
Inspectors, class A	-	-	30	4.35	-	-	-	-	13	\$ 6.36	111	6.05	70	5.51	-	-
Inspectors, class B	-	-	40	4.98	-	-	-	-	-	-	-	-	52	5.18	-	-
Inspectors, class C	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Janitors, porters, and cleaners	51	\$ 4.17	47	3.74	-	-	61	3.65	151	4.25	125	3.62	75	4.20	19	\$ 3.55
Laborers, material handling	-	-	32	3.64	215	5.40	-	-	35	5.48	-	-	60	4.39	-	-
Machine-tool operators, production, class A ⁶	-	-	509	5.42	1,265	6.03	-	-	-	-	2,581	6.06	356	5.24	-	-
Automatic-lathe operators	-	-	-	-	160	6.16	-	-	-	-	-	-	-	-	-	-
Drill-press operators, radial	-	-	-	-	303	5.98	-	-	-	-	-	-	39	5.02	-	-
Drill-press operators, single- or multiple-spindle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Engine-lathe operators	-	-	75	5.52	60	5.26	-	-	-	-	-	-	-	-	-	-
Grinding-machine operators	-	-	276	5.64	-	-	-	-	-	-	-	-	1,460	6.15	91	5.14
Milling-machine operators	-	-	80	5.36	-	-	-	-	-	-	495	5.97	50	5.21	-	-
Screw-machine operators, automatic	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Turret-lathe operators, hand (including hand screw machine)	-	-	14	4.70	-	-	-	-	-	-	-	-	-	-	-	-
Machine-tool operators, production, class B ⁶	-	-	27	4.71	95	5.70	-	-	-	-	145	5.59	63	5.12	-	-
Drill-press operators, radial	-	-	456	4.56	-	-	-	-	-	-	913	5.04	164	4.99	-	-
Drill-press operators, single- or multiple-spindle	-	-	-	-	102	5.50	-	-	-	-	-	-	-	-	-	-
Engine-lathe operators	-	-	55	4.63	-	-	-	-	-	-	89	4.82	-	-	-	-
Grinding-machine operators	-	-	259	4.43	-	-	-	-	-	-	491	5.01	-	-	-	-
Milling-machine operators	-	-	70	3.99	55	6.12	-	-	-	-	179	5.29	14	4.60	-	-
Turret-lathe operators, hand (including hand screw machine)	-	-	-	-	39	5.58	-	-	-	-	17	4.30	35	5.07	-	-
Machine-tool operators, production, class C ⁶	37	4.65	326	3.69	-	-	-	-	-	-	903	4.51	81	4.69	-	-
Drill-press operators, single- or multiple-spindle	-	-	79	3.62	-	-	-	-	-	-	-	-	-	-	-	-
Grinding-machine operators	-	-	131	3.79	-	-	-	-	-	-	601	4.64	-	-	-	-
Milling-machine operators	-	-	61	3.61	-	-	-	-	-	-	52	4.58	-	-	-	-
Machine-tool operators, production, numerically controlled	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Machine-tool operators, toolroom (operates one type of machine) ⁶	-	-	-	-	216	6.64	365	5.69	2,671	6.64	-	-	-	-	267	6.14
Drill-press operators, radial	-	-	-	-	-	-	26	5.32	112	6.20	-	-	-	-	-	-
Engine-lathe operators	-	-	-	-	-	-	28	5.81	232	6.54	-	-	-	-	30	6.37
Grinding-machine operators	-	-	-	-	-	-	142	5.56	901	6.51	-	-	-	-	42	5.50
Milling-machine operators	-	-	-	-	-	-	46	5.75	538	6.50	-	-	-	-	57	6.05
Machine-tool operators, toolroom (operates more than one type of machine) ⁶	515	6.36	11	6.42	13	5.08	12	5.23	408	6.29	-	-	29	5.68	137	6.03
Machinists, maintenance	9	6.43	48	5.74	-	-	-	-	-	-	-	-	43	6.21	-	-
Machinists, production	-	-	-	-	108	6.42	14	5.79	24	6.82	-	-	-	242	5.72	-
Mechanics, maintenance	-	-	-	-	-	-	-	-	-	-	-	-	28	5.95	-	-
Polishers and buffers, metal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Punch-press operators, class A	-	-	-	-	76	5.63	-	-	40	5.80	-	-	-	-	-	-
Punch-press operators, class B	-	-	47	5.34	7	5.37	-	-	-	-	-	-	-	-	-	-
Setters-up, machine tools	2,062	7.59	-	-	-	-	914	6.13	2,358	6.50	-	-	-	-	501	6.77
Tool and/or die makers (jobbing)	-	-	47	5.34	7	5.37	-	-	-	-	-	-	-	-	-	-
Tool and/or die makers (other than jobbing)	-	-	-	-	108	7.10	-	-	-	-	29	6.34	17	6.17	-	-
Tool clerks	48	4.23	6	4.55	-	-	14	4.17	29	5.43	10	5.18	25	4.93	-	-
Welders, hand, class A	-	-	-	-	1,364	6.05	12	5.63	31	6.22	19	6.55	154	5.81	-	-
Welders, hand, class B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Welders, machine, class A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 24. Occupational averages in 11 areas: By selected industries—Continued

(Number and average straight-time hourly earnings¹ of workers in selected occupations in establishments primarily manufacturing selected products, winter 1974-75)

Occupation	New York	Philadelphia	Boston	Hartford—New Britain—Bristol	Los Angeles—Long Beach and Anaheim—Santa Ana—Garden Grove	Newark—Jersey City	New York	Milwaukee	Minneapolis—St. Paul			
	Paper and printing trades machinery ⁸	Textile machinery ⁸	Special dies and tools and machine tool accessories ⁹						Farm and construction and related machinery ¹⁰			
	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
Assemblers, class A	97	\$5.07	-	-	-	-	-	-	-	-	509	\$5.46
Assemblers, class B	64	4.16	-	-	-	-	-	-	864	\$5.08	58	4.68
Assemblers, class C	-	-	-	-	14	\$3.14	-	-	-	-	345	5.65
Carpenters, maintenance	-	-	-	-	-	-	-	-	-	-	-	-
Electricians, maintenance	-	-	10	\$4.95	-	-	-	-	-	-	-	-
Inspectors, class A	14	4.81	13	4.43	17	5.17	28	\$4.76	20	\$6.21	16	4.75
Inspectors, class B	-	-	-	-	8	3.95	21	4.28	-	34	4.05	28
Inspectors, class C	-	-	-	-	5	3.45	-	28	3.28	-	-	-
Janitors, porters, and cleaners	26	3.37	6	3.47	-	-	17	3.09	-	38	3.27	27
Laborers, material handling	-	-	-	-	-	-	-	-	-	-	71	4.65
Machine-tool operators, production, class A ⁶	-	-	104	5.28	41	4.75	307	4.92	-	49	5.17	126
Automatic-lathe operators	-	-	-	-	-	-	-	-	-	-	-	5.27
Drill-press operators, radial	-	-	12	5.00	-	-	-	-	-	-	7	5.82
Drill-press operators, single- or multiple-spindle	-	-	-	-	-	-	-	-	-	-	44	5.49
Engine-lathe operators	-	-	22	5.68	23	4.92	37	4.65	-	-	-	-
Grinding-machine operators	-	-	18	5.63	-	-	154	5.16	-	-	192	4.21
Milling-machine operators	-	-	10	4.78	-	-	73	4.59	-	-	-	31
Screw-machine operators, automatic	-	-	-	-	-	-	-	-	-	-	-	5.87
Turret-lathe operators, hand (including hand screw machine)	-	-	16	5.35	-	-	16	4.67	-	-	-	-
Machine-tool operators, production, class B ⁶	115	4.05	49	4.47	65	4.09	216	4.11	135	3.98	-	-
Drill-press operators, radial	-	-	-	-	-	-	-	-	-	-	886	5.36
Drill-press operators, single- or multiple-spindle	-	-	-	-	-	-	-	-	-	-	121	5.95
Engine-lathe operators	-	-	-	-	-	-	9	4.37	-	-	-	-
Grinding-machine operators	-	-	-	-	39	3.96	125	4.00	36	4.37	-	-
Milling-machine operators	-	-	-	-	-	-	31	3.92	-	-	-	64
Turret-lathe operators, hand (including hand screw machine)	-	-	13	5.16	-	-	-	-	-	-	88	5.19
Machine-tool operators, production, class C ⁶	-	-	-	-	23	3.63	-	-	-	-	-	-
Drill-press operators, single- or multiple-spindle	11	3.60	-	-	-	-	-	-	-	-	-	-
Grinding-machine operators	-	-	-	-	-	-	-	-	-	-	117	3.73
Milling-machine operators	-	-	-	-	-	-	-	-	-	-	-	-
Machine-tool operators, production, numerically controlled	-	-	-	-	-	-	-	-	-	-	112	5.82
Machine-tool operators, toolroom (operates one type of machine) ⁶	-	-	-	-	121	5.84	352	5.09	185	6.19	353	5.36
Drill-press operators, radial	-	-	-	-	-	-	-	-	-	-	39	4.87
Engine-lathe operators	-	-	-	-	28	5.34	59	4.65	71	6.25	62	5.30
Grinding-machine operators	-	-	-	-	-	-	118	5.33	38	6.11	68	5.19
Milling-machine operators	-	-	-	-	25	5.75	89	4.83	-	24	5.41	-
Machine-tool operators, toolroom (operates more than one type of machine) ⁶	-	-	-	-	-	-	-	-	124	4.77	97	4.01
Machinists, maintenance	-	-	9	4.99	-	-	14	4.94	-	-	28	5.44
Machinists, production	-	-	-	-	-	-	-	-	-	32	4.94	-
Mechanics, maintenance	-	-	-	-	-	-	7	5.16	-	8	5.33	-
Polishers and buffers, metal	-	-	-	-	-	-	-	-	13	5.14	12	3.95
Punch-press operators, class A	-	-	-	-	-	-	-	-	-	-	-	-
Punch-press operators, class B	-	-	-	-	-	-	-	-	-	-	48	5.25
Setters-up, machine tools	-	-	-	-	-	-	289	5.52	-	532	6.06	158
Tool and/or die makers (jobbing)	-	-	-	-	-	-	-	-	-	-	-	51
Tool and/or die makers (other than jobbing)	-	-	-	-	34	5.27	-	-	-	-	-	57
Tool clerks	-	-	-	-	13	3.71	-	-	17	4.15	-	24
Welders, hand, class A	-	-	24	5.17	-	-	9	5.27	-	-	292	5.95
Welders, hand, class B	-	-	-	-	-	-	-	-	-	35	3.93	681
Welders, machine, class A	-	-	-	-	-	-	-	-	-	-	100	5.58

See footnotes on following page.

Table 24. Footnotes—

- ¹ Excludes premium pay for overtime and for work on weekends, holidays, and late shifts.
² Includes data for establishments classified in SIC. 3544.
³ Includes data for establishments classified in SIC. 3545.
⁴ Includes data for establishments classified in SIC. 3531.
⁵ Includes data for establishments classified in SIC. 3533.
⁶ Includes data for operators of machine tools in addition to those shown separately.

- ⁷ Includes data for establishments classified in SIC. 3554 and 3555.
⁸ Includes data for establishments classified in SIC. 3552.
⁹ Includes data for establishments classified in SIC. 3544 and 3545.
¹⁰ Includes data for establishments classified in SIC. 3522 and 3531.

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

Table 25. Method of wage payment: Production workers

(Percent of production workers in machinery manufacturing establishments by method of wage payment,¹ winter 1974-1975)

Method of wage payment	Northeast								South				
	Boston	Buffalo	Hartford-New Britain-Bristol	Newark and Jersey City	New York	Philadelphia	Pittsburgh	Worcester	Atlanta	Baltimore	Dallas	Houston	Tulsa
All workers.....	100	100	100	100	100	100	100	100	100	100	100	100	100
Time-rated workers.....	90	89	82	83	91	90	81	92	100	88	100	92	100
Formal plans.....	79	83	73	65	68	81	78	91	82	79	85	89	94
Single rate.....	4	14	19	21	13	19	36	1	28	3	2	5	-
Range of rates.....	74	69	53	44	54	62	42	89	54	76	83	85	94
Individual rates.....	12	6	9	18	23	9	3	2	18	9	15	3	6
Incentive workers.....	10	11	18	17	9	10	19	8	-	12	-	8	-
Individual piecework.....	2	3	9	-	(2)	1	5	5	-	1	-	-	-
Group piecework.....	(2)	-	(2)	2	-	1	-	(2)	-	-	-	-	-
Individual bonus.....	5	8	9	12	5	7	4	3	-	11	-	6	-
Group bonus.....	2	(2)	1	3	4	1	10	-	-	(2)	-	2	-
North Central													
	Chicago	Cleveland	Detroit	Milwaukee	Minneapolis-St. Paul	St. Louis	Denver	Los Angeles-Long Beach	Portland	San Francisco-Oakland			
	100	100	100	100	100	100	100	100	100	100	100	100	
All workers.....	100	100	100	100	100	100	100	100	100	100	100	100	
Time-rated workers.....	83	81	99	61	99	89	97	99	100	100	100	100	
Formal plans.....	74	69	80	58	95	88	94	90	100	98			
Single rate.....	9	22	34	8	41	25	9	7	68	70			
Range of rates.....	66	48	46	51	54	63	86	83	32	28			
Individual rates.....	8	12	19	3	4	1	2	9	-	2			
Incentive workers.....	17	19	1	39	1	11	3	1	-	-			
Individual piecework.....	8	4	(2)	18	1	2	3	(2)	-	-			
Group piecework.....	(2)	2	(2)	3	-	3	-	-	-	-			
Individual bonus.....	7	9	1	13	-	6	-	1	-	-			
Group bonus.....	2	3	-	5	-	(2)	-	-	-	-			

¹ For definition of method of wage payment, see appendix A.

² Less than 0.5 percent.

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

Table 26. Shift differential provisions: Production workers

(Percent of production workers in machinery manufacturing establishments by shift differential provisions,¹ winter 1974-1975)

Shift differential	Northeast									South			
	Boston	Buffalo	Hartford-New Britain-Bristol	Newark and Jersey City	New York	Philadelphia	Pittsburgh	Worcester	Atlanta	Baltimore	Dallas	Houston	Tulsa
Second shift													
Workers in establishments having provisions for second shift.....	90.2	89.1	86.8	81.0	68.2	87.5	96.3	87.7	52.6	93.4	87.9	96.8	99.7
With shift differential.....	89.2	89.1	85.6	81.0	68.2	87.5	96.3	87.7	52.6	89.8	87.2	96.8	99.7
Uniform cents per hour.....	10.8	55.6	24.3	20.3	17.2	25.4	75.0	61.1	32.3	6.1	83.0	89.5	99.7
Under 5 cents.....	-	-	-	-	-	-	-	-	-	-	-	-	-
5 cents.....	-	-	-	.5	7.3	-	-	-	-	-	-	-	-
Over 5 and under 10 cents.....	-	-	-	-	-	-	-	-	-	-	-	-	-
10 cents.....	-	3.1	1.0	3.6	2.9	2.8	31.0	1.6	4.2	3.2	17.8	6.7	9.5
11 cents.....	-	-	-	-	-	-	-	-	-	-	-	4.6	-
12 cents.....	-	-	-	-	.5	-	-	-	-	-	5.3	19.4	4.6
13 cents.....	-	-	-	-	-	-	5.7	-	-	-	-	-	-
14 cents.....	-	-	-	-	-	-	3.8	-	-	-	-	-	-
15 cents.....	.7	13.8	1.0	1.5	3.7	5.8	14.9	-	21.8	-	4.8	9.5	38.2
Over 15 and under 20 cents.....	-	2.4	2.3	-	-	-	7.5	-	-	-	9.5	32.6	-
20 cents.....	1.3	27.3	.7	5.9	1.1	.8	12.1	18.4	-	3.0	37.3	13.4	23.7
Over 20 and under 25 cents.....	-	5.6	-	1.7	1.0	-	-	-	-	-	-	-	10.2
25 cents.....	3.6	-	-	-	2.9	-	35.6	6.4	-	4.0	3.4	-	9.3
Over 25 and under 30 cents.....	-	-	8.9	-	-	-	5.5	-	-	-	-	-	-
30 cents.....	2.3	1.6	2.1	3.6	-	4.7	-	-	-	-	4.3	-	-
Over 30 cents.....	3.0	1.9	8.2	3.6	.7	8.4	-	-	-	-	-	-	4.2
Uniform percentage.....	74.6	33.5	60.2	57.0	51.0	62.1	14.3	26.6	13.7	83.7	2.4	7.3	-
Under 5 percent.....	-	-	-	-	-	-	-	-	11.6	-	-	5.5	-
5 percent.....	-	5.9	20.0	14.6	-	-	6.4	-	-	35.2	-	-	-
6 percent.....	-	-	-	-	-	-	-	-	-	-	-	-	-
7 percent.....	-	24.4	24.3	-	-	-	-	-	-	1.9	-	-	-
7.5 percent.....	-	-	-	-	2.3	.3	-	-	-	-	-	-	-
8 percent.....	7.9	-	5.1	4.3	-	-	-	-	2.1	-	-	-	-
9 percent.....	-	-	-	-	.8	-	-	-	-	2.8	-	-	-
10 percent.....	54.7	3.2	10.8	33.7	30.4	58.7	7.8	24.2	-	43.7	2.4	1.9	-
11 percent.....	-	-	-	-	-	-	-	-	-	-	-	-	-
12 percent.....	-	-	-	1.0	4.5	3.1	-	-	-	-	-	-	-
12.5 percent.....	3.0	-	-	3.5	2.2	-	-	-	-	-	-	-	-
14 percent.....	-	-	-	-	1.2	-	-	-	-	-	-	-	-
15 percent.....	5.9	-	-	-	9.6	-	-	-	-	-	-	-	-
17 percent.....	-	-	-	-	-	-	-	2.3	-	-	-	-	-
20 percent.....	3.0	-	-	-	-	-	-	-	-	-	-	-	-
Other.....	3.9	-	1.2	3.7	-	-	6.9	-	6.6	-	1.9	-	-
Third or other late shift													
Workers in establishments having provisions for third shifts.....	60.7	87.2	79.6	69.6	32.2	71.4	89.1	82.3	37.2	90.9	47.0	80.1	83.9
With shift differential.....	60.7	87.2	78.5	69.6	32.2	71.4	89.1	82.3	37.2	90.9	47.0	80.1	83.9
Uniform cents per hour.....	5.3	48.7	21.5	19.1	13.9	15.2	72.2	59.5	18.9	6.1	36.6	71.1	83.9
5 cents.....	-	-	-	-	-	-	-	-	-	-	-	-	-
Over 5 and under 10 cents.....	-	-	-	-	-	-	-	-	-	-	-	-	-
10 cents.....	-	3.1	-	-	2.9	7.3	-	2.0	-	-	3.2	-	-
Over 10 and under 15 cents.....	-	-	-	-	-	-	-	-	-	-	-	-	5.1
15 cents.....	-	-	1.0	1.2	2.9	.9	29.0	-	4.2	-	5.4	-	4.0
16 cents.....	-	-	-	-	-	-	-	-	-	-	-	-	-
17 cents.....	-	-	-	-	-	-	-	-	-	-	-	-	-
18 cents.....	-	-	-	-	-	-	10.4	-	-	-	-	13.2	-
19 cents.....	-	-	-	-	-	-	4.8	-	-	-	-	-	-
20 cents.....	-	21.1	1.0	-	-	-	17.6	3.2	14.8	-	29.0	22.5	33.2
Over 20 and under 25 cents.....	-	5.6	2.3	2.2	-	-	8.4	-	-	-	-	31.8	13.8
25 cents.....	-	12.8	-	4.7	3.7	.8	-	11.6	-	3.0	-	3.6	4.3
27 cents.....	-	-	2.8	-	-	-	-	-	-	-	-	-	-
28 cents.....	-	-	-	-	-	-	-	-	-	-	-	-	-
30 cents.....	2.3	6.2	4.2	5.2	-	2.2	-	-	-	-	2.2	-	9.3
Over 30 and under 35 cents.....	-	-	4.1	-	-	-	-	-	-	-	-	-	-
35 cents.....	3.0	-	-	-	-	2.9	-	39.2	-	-	-	-	-

See footnotes at end of table.

Table 26. Shift differential provisions: Production workers—Continued

(Percent of production workers in machinery manufacturing establishments by shift differential provisions,¹ winter 1974-1975)

Shift differential	Northeast								South				
	Boston	Buffalo	Hartford-New Britain-Bristol	Newark and Jersey City	New York	Philadelphia	Pittsburgh	Worcester	Atlanta	Baltimore	Dallas	Houston	Tulsa
Third or other late shift—Continued													
Workers in establishments having provisions for third shifts—Continued													
With shift differential—Continued													
Uniform percentage.....	51.6	33.5	55.9	44.8	18.3	52.5	12.7	22.8	11.6	81.1	-	5.5	-
5 percent.....	-	-	-	-	-	-	6.4	-	11.6	-	-	5.5	-
6 percent.....	-	-	-	-	-	-	-	-	-	-	-	-	-
7 percent.....	-	-	-	-	-	-	-	-	-	-	-	-	-
7.5 percent.....	-	5.9	-	-	-	.3	-	-	-	-	-	-	-
8 percent.....	-	-	5.1	-	-	-	-	-	-	-	-	-	-
9 percent.....	-	-	-	-	-	-	-	-	-	2.8	-	-	-
10 percent.....	35.4	27.6	50.8	33.3	9.8	47.0	6.3	14.0	-	78.3	-	-	-
12 percent.....	-	-	-	.8	-	3.1	-	-	-	-	-	-	-
12.5 percent.....	3.0	-	-	-	-	-	-	-	-	-	-	-	-
13 percent.....	-	-	-	-	-	-	-	-	-	-	-	-	-
14 percent.....	-	-	-	-	2.1	-	-	-	-	-	-	-	-
14.3 percent.....	-	-	-	-	-	-	-	-	-	-	-	-	-
15 percent.....	10.6	-	-	10.8	5.5	2.1	-	8.8	-	-	-	-	-
20 percent.....	2.6	-	-	-	1.0	-	-	-	-	-	-	-	-
Other.....	3.9	5.1	1.2	5.7	-	3.8	4.1	-	6.6	3.6	10.4	3.6	-
Second shift													
Workers in establishments having provisions for second shift.....	90.5	94.5	87.5	96.8	95.0	99.6	99.7	79.9	100.0	92.5			
With shift differential.....	89.5	94.2	85.9	96.6	94.4	99.6	99.7	78.8	100.0	92.5			
Uniform cents per hour.....	39.3	64.8	43.7	84.2	84.2	50.4	51.3	53.4	21.5	44.8			
Under 5 cents.....	-	1.5	-	-	-	-	-	-	-	-	-	-	
5 cents.....	-	-	.2	-	1.5	-	-	-	-	-	-	.8	
Over 5 and under 10 cents.....	-	3.3	.7	-	-	-	-	-	-	-	-	-	
10 cents.....	6.0	3.9	7.8	7.7	8.9	14.2	14.5	4.2	-	-	-	6.5	
11 cents.....	-	-	-	-	-	-	-	-	-	-	-	-	
12 cents.....	-	.6	1.8	.2	4.1	-	6.8	.7	-	-	-	-	
13 cents.....	-	-	.1	23.2	-	-	3.8	-	-	-	-	-	
14 cents.....	-	-	-	-	-	-	-	-	-	-	-	-	
15 cents.....	4.8	9.8	5.3	7.2	28.0	16.2	13.6	16.1	2.3	2.7	-	-	
Over 15 and under 20 cents.....	7.1	-	-	2.8	16.6	7.1	-	5.9	-	2.2			
20 cents.....	2.0	18.2	13.5	20.8	19.0	-	12.0	11.9	-	13.4			
Over 20 and under 25 cents.....	4.0	1.2	-	4.1	3.8	-	-	-	9.9	17.3			
25 cents.....	4.9	10.5	4.1	5.7	1.3	12.6	.5	8.8	9.2	-			
Over 25 and under 30 cents.....	1.7	-	-	9.7	-	-	-	-	-	-			
30 cents.....	7.1	10.3	3.7	1.4	-	-	-	.6	-	-			
Over 30 cents.....	1.8	5.5	6.6	1.4	1.0	.3	-	5.1	-	2.1			
Uniform percentage.....	44.2	24.6	41.6	12.4	10.2	49.2	46.7	21.4	5.3	11.7			
Under 5 percent.....	-	-	-	-	1.6	-	-	-	-	-			
5 percent.....	1.7	8.7	27.7	3.5	5.9	12.1	-	3.4	-	-			
6 percent.....	10.1	1.5	10.0	3.0	-	-	-	.4	-	-			
7 percent.....	.3	3.5	-	4.9	-	-	19.3	.8	-	-			
7.5 percent.....	-	1.8	-	-	-	-	-	-	-	-			
8 percent.....	-	-	-	-	-	-	-	6.0	-	-			
9 percent.....	-	-	-	-	-	-	-	-	-	-			
10 percent.....	29.9	6.2	3.9	1.1	2.8	37.1	27.4	9.7	5.3	11.7			
11 percent.....	-	-	-	-	-	-	-	.3	-	-			
12 percent.....	-	-	-	-	-	-	-	-	-	-			
12.5 percent.....	-	-	-	-	-	-	-	-	-	-			
14 percent.....	-	-	-	-	-	-	-	-	-	-			

See footnotes at end of table.

Table 26. Shift differential provisions: Production workers—Continued

(Percent of production workers in machinery manufacturing establishments by shift differential provisions,¹ winter 1974 - 1975)

Shift differential	North Central						West			
	Chicago	Cleveland	Detroit	Milwaukee	Minne- apolis- St. Paul	St. Louis	Denver	Los Angeles- Long Beach	Portland	San Fran- cisco- Oakland
Second shift—Continued										
Workers in establishments having provisions for second shift—Continued										
With shift differential—Continued										
Uniform percentage—Continued										
15 percent.....	2.0	2.9	-	-	-	-	-	-	-	-
17 percent.....	-	-	-	-	-	-	-	-	-	-
20 percent.....	.1	-	-	-	-	-	-	.8	-	-
Other.....	6.0	4.7	.6	-	-	-	1.7	4.0	73.2	36.0
Third or other late shift										
Workers in establishments having provisions for third shifts.....	75.0	64.9	68.8	91.5	70.1	91.9	88.8	55.6	85.4	91.3
With shift differential.....	75.0	64.9	68.8	91.5	70.1	91.9	88.8	55.6	85.4	91.3
Uniform cents per hour.....	28.5	44.3	32.4	81.4	59.8	33.9	31.9	19.8	-	36.4
5 cents.....	-	1.5	-	-	-	-	-	-	-	.8
Over 5 and under 10 cents.....	-	-	.9	-	-	-	-	-	-	-
10 cents.....	-	1.2	1.0	.6	2.6	5.3	-	.4	-	-
Over 10 and under 15 cents.....	-	3.3	-	6.1	2.0	2.7	3.8	1.2	-	-
15 cents.....	1.0	2.3	5.9	.9	10.4	2.5	12.4	4.5	-	6.5
16 cents.....	-	-	-	21.1	-	-	-	-	-	-
17 cents.....	-	-	-	-	-	7.1	-	-	-	-
18 cents.....	-	-	-	2.1	2.9	-	-	-	-	-
19 cents.....	-	-	-	-	-	-	-	-	-	-
20 cents.....	5.3	10.9	8.5	4.7	21.3	2.7	10.6	1.6	-	-
Over 20 and under 25 cents.....	2.0	7.2	1.5	6.3	10.8	-	-	1.5	-	-
25 cents.....	9.0	5.1	9.1	9.4	3.2	13.7	2.2	3.9	-	1.4
27 cents.....	2.0	-	-	-	-	-	-	-	-	-
28 cents.....	-	-	-	9.7	-	-	-	-	-	2.2
30 cents.....	8.0	7.5	-	13.5	-	-	3.0	5.4	-	1.7
Over 30 and under 35 cents.....	-	-	-	.7	5.5	-	-	-	-	21.9
35 cents.....	-	-	3.1	-	-	-	-	.8	-	-
Uniform percentage.....	35.2	11.7	35.0	10.0	8.3	43.4	41.0	9.4	-	11.7
5 percent.....	1.7	-	-	-	-	-	-	-	-	-
6 percent.....	10.1	-	-	.3	1.6	-	-	-	-	-
7 percent.....	-	-	2.8	4.9	-	-	-	-	-	-
7.5 percent.....	-	-	-	-	-	-	-	-	-	-
8 percent.....	-	-	-	2.7	-	-	-	-	-	-
9 percent.....	-	-	-	-	-	-	-	-	-	-
10 percent.....	17.6	10.6	32.2	2.2	6.6	43.4	13.6	1.3	-	11.7
12 percent.....	-	-	-	-	-	-	-	4.7	-	-
12.5 percent.....	-	-	-	-	-	-	27.4	-	-	-
13 percent.....	1.4	-	-	-	-	-	-	-	-	-
14 percent.....	-	-	-	-	-	-	-	-	-	-
14.3 percent.....	-	1.1	-	-	-	-	-	-	-	-
15 percent.....	4.5	-	-	-	-	-	-	2.1	-	-
20 percent.....	-	-	-	-	-	-	-	1.3	-	-
Other.....	11.3	8.9	1.5	-	2.1	14.5	15.9	26.4	85.4	43.1

¹ Refers to policies of establishments currently operating late shifts or having provisions covering late shifts.

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

Table 27. Shift differential practices: Production workers

(Percent of production workers in machinery manufacturing establishments employed on late shifts by amount of pay differential, winter 1974-1975)

Shift differential	Northeast								South				
	Boston	Buffalo	Hartford-New Britain-Bristol	Newark and Jersey City	New York	Philadelphia	Pittsburgh	Worcester	Atlanta	Baltimore	Dallas	Houston	Tulsa
Second shift													
Workers employed on second shift....	11.8	18.3	22.5	15.5	8.0	13.4	25.2	16.3	5.3	27.2	18.3	26.6	23.2
Receiving shift differential....	11.6	18.3	22.3	15.5	8.0	13.4	25.2	16.3	5.3	26.4	18.2	26.6	23.2
Uniform cents per hour....	1.6	9.1	4.5	1.6	3.5	2.4	19.5	10.9	3.2	1.0	17.7	24.7	23.2
5 cents....	-	-	-	-	1.8	-	-	-	-	-	-	-	-
Over 5 and under 10 cents....	-	-	-	-	-	-	-	-	-	-	-	-	-
10 cents....	-	.3	-	-	.5	-	6.0	.1	-	.5	1.9	2.1	.5
11 cents....	-	-	-	-	-	-	-	-	-	-	1.2	-	-
12 cents....	-	-	-	-	-	-	-	-	-	-	2.1	5.2	.3
13 cents....	-	-	-	-	-	-	-	-	-	-	-	-	-
14 cents....	-	-	-	-	-	-	1.3	-	-	-	-	-	-
15 cents....	.1	2.5	.2	.3	1.1	.9	3.9	-	2.5	-	1.1	2.5	8.9
Over 15 and under 20 cents....	-	-	.5	-	-	-	3.6	-	-	-	2.5	9.4	-
20 cents....	-	4.1	.2	.6	-	.2	3.6	5.0	-	.5	9.3	4.0	8.4
Over 20 and under 25 cents....	-	1.6	-	.1	.1	-	-	-	-	-	-	-	3.2
25 cents....	.7	-	-	-	.3	-	4.1	.7	-	-	.7	.3	.8
Over 25 and under 30 cents....	-	-	1.9	-	-	-	1.7	-	-	-	.1	-	-
30 cents....	.4	.2	.4	.1	-	.5	-	-	-	-	-	-	-
Over 30 cents....	.4	.4	1.3	.5	.7	-	-	-	-	-	-	-	1.1
Uniform percentage....	9.5	9.3	17.7	13.4	4.5	11.0	4.1	5.4	2.1	25.4	.2	1.9	-
Under 5 percent....	-	-	-	-	-	-	-	-	2.1	-	-	1.8	-
5 percent....	-	2.2	9.0	6.6	-	-	2.2	-	-	13.1	-	-	-
6 percent....	-	-	-	-	-	-	-	-	-	-	-	-	-
7 percent....	-	6.5	5.0	-	-	-	-	-	-	-	-	-	-
7.5 percent....	-	-	-	.3	-	-	-	-	-	-	-	-	-
8 percent....	.2	-	1.4	1.2	-	-	-	-	-	-	-	-	-
9 percent....	-	-	-	-	.1	-	-	-	-	.5	-	-	-
10 percent....	8.2	.6	2.3	5.3	3.4	10.2	1.9	5.0	-	11.8	.2	.1	-
12 percent....	-	-	-	.1	.3	.8	-	-	-	-	-	-	-
12.5 percent....	.6	-	-	.2	.1	-	-	-	-	-	-	-	-
15 percent....	.4	-	-	-	.3	-	-	-	-	-	-	-	-
17 percent....	-	-	-	-	-	-	-	.4	-	-	-	-	-
20 percent....	.2	-	-	-	-	-	-	-	-	-	-	-	-
Other....	.5	-	.2	.5	-	-	1.5	-	-	-	.3	-	-
Third or other late shift													
Workers employed on third shift....	.8	3.4	2.7	.7	1.4	9.2	9.4	2.6	-	10.9	1.9	11.9	2.9
Receiving shift differential....	.8	3.4	2.6	.7	1.4	9.2	9.4	2.6	-	10.9	1.9	11.9	2.9
Uniform cents per hour....	.1	.6	.2	.2	1.3	.2	7.7	2.3	-	-	1.3	10.8	2.9
10 cents....	-	-	-	.7	-	-	-	-	-	-	-	-	-
Over 10 and under 15 cents....	-	-	-	-	-	-	-	-	-	-	.3	-	-
15 cents....	-	-	-	-	.4	(1)	3.0	-	-	-	-	-	-
16 cents....	-	-	-	-	-	-	.9	-	-	-	-	2.6	-
18 cents....	-	-	-	-	-	-	3.0	-	-	-	1.0	4.1	1.6
20 cents....	-	-	-	-	-	-	.8	-	-	-	3.1	.8	-
Over 20 and under 25 cents....	-	(1)	-	.1	.2	-	-	.1	-	-	-	1.0	(1)
25 cents....	-	-	-	-	-	-	-	-	-	-	-	-	-
27 cents....	-	-	-	-	-	-	-	-	-	-	-	-	-
28 cents....	-	-	-	-	-	-	-	-	-	-	-	-	-
30 cents....	.1	.6	.1	-	-	-	-	-	-	-	-	-	-
Over 30 and under 35 cents....	-	-	-	-	-	-	-	-	-	-	-	-	-
35 cents....	-	-	-	-	-	-	-	1.7	-	-	-	-	-
Uniform percentage....	.5	2.8	2.5	.4	.2	8.5	1.2	.3	-	10.7	-	.9	-
5 percent....	-	-	-	-	-	-	-	-	-	-	-	-	-
6 percent....	-	-	-	-	-	-	-	-	-	-	-	-	-
7 percent....	-	-	-	-	-	-	-	-	-	-	-	-	-
8 percent....	-	-	.6	-	-	-	-	-	-	-	-	-	-
10 percent....	.4	2.8	1.9	.3	.1	8.4	1.2	.1	-	10.7	-	-	-
12 percent....	-	-	-	-	-	-	-	-	-	-	-	-	-
12.5 percent....	.1	-	-	-	-	-	-	-	-	-	-	-	-
13 percent....	-	-	-	-	-	-	-	-	-	-	-	-	-
14 percent....	-	-	-	-	.1	-	-	-	-	-	-	-	-
15 percent....	.1	-	-	.1	-	.2	-	.2	-	-	-	-	-
20 percent....	-	-	-	-	-	-	-	-	-	-	-	-	-
Other....	.2	-	-	.1	-	.5	.5	-	-	.2	.7	.2	-

See footnotes at end of table.

Table 27. Shift differential practices: Production workers—Continued

(Percent of production workers in machinery manufacturing establishments employed on late shifts by amount of pay differential, winter 1974-1975)

Shift differential	North Central						West			
	Chicago	Cleveland	Detroit	Milwaukee	Minneapolis-St. Paul	St. Louis	Denver	Los Angeles-Long Beach	Portland	San Francisco-Oakland
Second shift										
Workers employed on second shift...	20.0	20.4	19.9	23.9	21.6	14.6	19.9	15.1	22.9	18.2
Receiving shift differential...	19.9	20.3	19.5	23.9	21.6	14.6	19.9	14.8	22.9	18.2
Uniform cents per hour...	9.5	13.4	7.9	21.5	18.9	8.3	12.5	10.4	3.2	9.6
5 cents...	-	-	.1	-	.4	-	-	-	-	-
Over 5 and under 10 cents...	-	1.1	-	-	-	-	-	-	-	-
10 cents...	1.2	-	1.5	2.8	1.1	.3	3.8	.4	-	1.4
11 cents...	-	-	-	-	-	-	-	-	-	-
12 cents...	-	-	.1	.1	.3	-	1.3	(1)	-	-
13 cents...	-	-	(1)	6.2	-	-	1.2	-	-	-
14 cents...	-	-	-	-	-	-	-	-	-	-
15 cents...	1.0	.9	.9	2.1	7.2	2.0	3.7	2.4	-	-
Over 15 and under 20 cents...	1.9	-	-	.7	3.2	2.1	-	1.3	-	.6
20 cents...	.4	4.8	2.4	4.5	5.1	-	2.4	2.9	-	3.5
Over 20 and under 25 cents...	1.1	-	-	.8	.9	-	-	-	2.1	3.2
25 cents...	1.0	2.5	.7	1.1	.4	3.9	.1	2.0	1.1	-
Over 25 and under 30 cents...	.4	-	-	2.6	-	-	-	-	-	-
30 cents...	2.4	2.8	.7	.5	-	-	-	.1	-	-
Over 30 cents...	.1	1.3	1.6	.3	.3	(1)	-	1.2	-	.8
Uniform percentage...	8.9	5.7	11.5	2.3	2.7	6.3	7.2	3.4	2.4	1.0
Under 5 percent...	-	-	-	.2	-	-	-	-	-	-
5 percent...	-	2.2	8.6	.5	1.5	.8	-	.6	-	-
6 percent...	2.6	.4	2.5	.7	-	-	-	-	-	-
7 percent...	(1)	1.1	-	1.1	-	-	2.2	.1	-	-
7.5 percent...	-	.7	-	-	-	-	-	-	-	-
8 percent...	-	-	-	-	-	-	-	2.1	-	-
9 percent...	-	-	-	-	-	-	-	-	-	-
10 percent...	6.0	.7	.4	.1	1.0	5.5	5.0	.6	2.4	1.0
12 percent...	-	-	-	-	-	-	-	-	-	-
12.5 percent...	-	-	-	-	-	-	-	-	-	-
15 percent...	.2	.7	-	-	-	-	-	-	-	-
17 percent...	-	-	-	-	-	-	-	-	-	-
20 percent...	(1)	-	-	-	-	-	-	-	-	-
20 percent...	(1)	-	-	-	-	-	-	-	-	-
Other....	1.5	1.1	.1	-	-	-	.2	1.0	17.4	7.5
Third or other late shift										
Workers employed on third shift...	5.5	4.0	2.2	7.1	4.6	2.1	3.6	1.5	7.1	3.6
Receiving shift differential...	5.5	4.0	2.2	7.1	4.6	2.1	3.6	1.5	7.1	3.6
Uniform cents per hour...	3.0	3.1	.9	6.2	4.3	.6	1.1	.6	-	.1
10 cents...	-	.1	-	-	-	-	-	.1	-	-
Over 10 and under 15 cents...	-	.1	-	.4	(1)	-	.7	-	-	-
15 cents...	-	-	.3	(1)	-	-	-	.2	-	-
16 cents...	-	-	-	1.7	-	-	-	-	-	-
18 cents...	-	-	-	-	-	-	-	-	-	-
20 cents...	.3	.6	.2	.3	2.3	.2	.5	-	-	-
Over 20 and under 25 cents...	-	.8	(1)	.1	.4	-	-	-	-	-
25 cents...	1.1	.1	.1	.2	.7	.4	-	-	-	-
27 cents...	.2	-	-	-	-	-	-	-	-	-
28 cents...	-	-	-	1.1	-	-	-	-	-	-
30 cents...	1.5	1.4	-	1.9	-	-	-	.4	-	-
Over 30 and under 35 cents...	-	-	-	-	.8	-	-	-	-	.1
35 cents...	-	-	-	-	-	-	-	-	-	-
Uniform percentage...	1.8	.7	1.2	.9	.2	.5	2.5	.3	-	-
5 percent...	-	-	-	-	-	-	-	-	-	-
6 percent...	.7	-	-	-	.1	-	-	-	-	-
7 percent...	-	-	.2	.6	-	-	-	-	-	-
8 percent...	-	-	-	.3	-	-	-	-	-	-
10 percent...	.8	.7	1.0	-	.2	.5	.6	(1)	-	-
12 percent...	-	-	-	-	-	-	-	(1)	-	-
12.5 percent...	-	-	-	-	-	-	1.8	-	-	-
13 percent...	.1	-	-	-	-	-	-	-	-	-
14 percent...	-	-	-	-	-	-	-	-	-	-
15 percent...	.2	-	-	-	-	-	-	-	-	-
20 percent...	-	-	-	-	-	-	.2	-	-	-
Other....	.7	.2	-	-	.1	1.0	-	.6	7.1	3.5

: 1 Less than 0.5 percent.

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

Table 28. Scheduled weekly hours: Production workers

(Percent of production workers in machinery manufacturing establishments by scheduled weekly hours,¹ winter 1974-1975)

Weekly hours	Northeast										South			
	Boston	Buffalo	Hartford-New Britain-Bristol	Newark and Jersey City	New York	Philadelphia	Pittsburgh	Worcester	Atlanta	Baltimore	Dallas	Houston	Tulsa	
	All workers.....	100	100	100	100	100	100	100	100	100	100	100	100	100
Under 35 hours.....	1	-	-	-	-	-	-	-	1	-	-	-	-	-
35 hours.....	-	-	-	-	-	-	-	-	4	-	-	-	-	-
Over 35 and under 37-1/2 hours.....	-	-	-	-	-	-	-	-	-	-	1	-	-	-
37-1/2 hours.....	-	-	-	(2)	-	25	-	-	-	35	-	-	-	-
Over 37-1/2 and under 40 hours.....	8	-	-	-	1	-	-	-	-	-	-	-	-	-
40 hours.....	56	76	72	84	90	57	83	64	94	54	49	71	89	
Over 40 and under 44 hours.....	9	-	3	-	1	-	-	-	-	-	3	1	-	-
44 or 44-1/2 hours.....	2	-	-	-	1	-	3	-	-	-	5	4	-	-
45 hours.....	3	15	8	3	2	5	-	25	2	9	22	3	6	
Over 45 and under 48 hours.....	-	-	4	-	(2)	4	5	-	-	-	2	-	-	-
48 hours.....	7	1	-	-	(2)	4	5	-	-	-	1	4	-	-
Over 48 and under 50 hours.....	-	-	2	-	-	-	-	-	-	-	-	2	-	-
50 hours.....	8	7	10	6	2	4	8	11	-	-	17	10	6	
Over 50 hours.....	6	-	2	6	2	5	1	-	-	3	-	5	-	-
North Central														
	Chicago	Cleveland	Detroit	Milwaukee	Minneapolis-St. Paul	St. Louis	Denver	Los Angeles-Long Beach	Portland	San Francisco-Oakland				
All workers.....	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Under 35 hours.....	-	-	-	-	-	-	-	1	-	-	-	-	-	-
35 hours.....	-	1	-	-	1	-	-	-	-	-	-	-	-	-
Over 35 and under 37-1/2 hours.....	-	-	-	-	-	-	-	6	-	-	-	-	-	-
37-1/2 hours.....	-	-	-	-	-	-	-	-	-	-	-	-	-	3
Over 37-1/2 and under 40 hours.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-
40 hours.....	79	53	60	79	85	100	92	86	-	100	-	-	-	96
Over 40 and under 44 hours.....	2	1	(2)	5	-	-	-	(2)	-	-	-	-	-	-
44 or 44-1/2 hours.....	-	6	(2)	-	-	-	-	-	-	-	-	2	-	-
45 hours.....	8	10	4	12	7	-	1	3	-	-	-	-	-	-
Over 45 and under 48 hours.....	1	(2)	-	(2)	-	-	-	-	-	-	-	-	-	-
48 hours.....	1	2	5	-	2	-	-	-	-	-	-	-	-	-
Over 48 and under 50 hours.....	1	-	-	-	-	-	-	-	-	-	-	-	-	-
50 hours.....	4	19	5	2	5	(2)	1	9	-	-	-	-	-	-
Over 50 hours.....	5	6	25	2	-	-	1	1	-	-	-	-	-	-

¹ Data relate to the predominant schedule for full-time day-shift workers in each establishment.

² Less than 0.5 percent.

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

Table 29. Scheduled weekly hours: Office workers

(Percent of office workers in machinery manufacturing establishments by scheduled weekly hours,¹ winter 1974-1975)

Weekly hours	Northeast									South			
	Boston	Buffalo	Hartford-New Britain-Bristol	Newark and Jersey City	New York	Philadelphia	Pittsburgh	Worcester	Atlanta	Baltimore	Dallas	Houston	Tulsa
All workers.....	100	100	100	100	100	100	100	100	100	100	100	100	100
Under 35 hours.....	(2)	-	1	-	(2)	-	-	-	1	-	-	-	-
35 hours.....	1	1	(2)	1	26	1	-	1	1	-	-	-	-
Over 35 and under 37-1/2 hours.....	8	-	-	7	12	2	-	-	-	-	2	-	-
37-1/2 hours.....	17	8	-	9	23	10	-	2	-	4	-	-	-
Over 37-1/2 and under 40 hours.....	-	-	-	20	12	1	-	-	-	-	-	-	-
40 hours.....	75	90	99	64	27	83	97	98	98	96	86	97	100
Over 40 and under 44 hours.....	-	-	-	-	-	-	-	-	-	-	1	-	-
44 or 44-1/2 hours.....	-	-	-	-	-	-	-	-	-	-	-	-	-
45 hours.....	-	(2)	-	-	(2)	-	3	-	-	-	8	3	-
50 hours.....	-	-	-	-	-	3	-	-	-	-	3	-	-
North Central													
	Chicago	Cleveland	Detroit	Milwaukee	Minneapolis-St. Paul	St. Louis	Denver	Los Angeles-Long Beach	Portland	San Francisco-Oakland			
All workers.....	100	100	100	100	100	100	100	100	100	100	100	100	100
Under 35 hours.....	-	-	-	-	-	-	-	-	-	-	-	-	-
35 hours.....	(2)	1	(2)	-	-	6	-	-	-	-	-	-	-
Over 35 and under 37-1/2 hours.....	1	-	-	-	-	-	4	-	-	-	-	-	-
37-1/2 hours.....	18	(2)	(2)	-	1	-	-	-	-	-	-	-	9
Over 37-1/2 and under 40 hours.....	1	1	1	-	-	16	-	-	-	-	-	-	1
40 hours.....	80	96	91	100	98	78	96	100	100	100	-	-	90
Over 40 and under 44 hours.....	-	-	(2)	-	-	-	-	-	-	-	-	-	-
44 or 44-1/2 hours.....	-	(2)	5	-	-	-	-	-	-	-	-	-	-
45 hours.....	-	2	1	(2)	(2)	-	-	-	-	-	-	-	-
50 hours.....	-	1	(2)	-	(2)	-	-	-	-	-	-	-	-

¹ Data relate to the predominant schedule for full-time day-shift workers in each establishment.

² Less than 0.5 percent.

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

Table 30. Paid holidays: Production workers

(Percent of production workers in machinery manufacturing establishments with formal provisions for paid holidays, winter 1974-1975)

Number of paid holidays	Northeast								South				
	Boston	Buffalo	Hartford-New Britain-Bristol	Newark and Jersey City	New York	Philadelphia	Pittsburgh	Worcester	Atlanta	Baltimore	Dallas	Houston	Tulsa
All workers.....	100	100	100	100	100	100	100	100	100	100	100	100	100
Workers in establishments providing paid holidays.....	100	100	100	100	100	100	100	100	100	99	100	100	100
Fewer than 5 days.....	8	-	-	-	-	-	-	-	-	-	-	-	(1)
5 days.....	-	-	-	-	-	-	-	1	7	(1)	9	-	-
6 days.....	-	-	(1)	-	(1)	-	2	3	14	4	4	2	-
6 days plus 1, 2, or 3 half days.....	-	1	-	-	-	-	-	-	-	1	1	-	-
7 days.....	1	1	3	4	3	1	-	-	30	-	10	5	6
7 days plus 1, 2, or 3 half days.....	5	1	2	(1)	1	3	2	1	-	2	3	-	-
8 days.....	1	8	4	4	1	5	4	1	21	6	18	11	10
8 days plus 1, 2, or 3 half days..	(1)	-	2	1	2	1	-	-	-	7	-	4	-
9 days.....	2	2	5	5	5	8	32	56	24	41	36	7	80
9 days plus 1, 2, or 3 half days..	28	-	(1)	4	1	7	8	-	-	-	-	-	-
10 days.....	23	38	12	10	25	43	26	13	4	20	5	73	-
10 days plus 1, 2, or 3 half days.	9	-	2	11	7	1	-	-	-	-	-	-	-
11 days.....	9	38	39	16	19	25	25	3	-	-	5	-	-
11 days plus 1, 2, or 3 half days.	12	-	-	7	-	-	-	5	-	-	-	-	-
12 days.....	6	9	5	19	19	5	-	17	-	3	1	-	-
12 days plus 1, 2, or 3 half days.	-	-	-	-	1	-	-	-	-	-	-	-	-
13 days.....	-	-	5	11	7	3	-	-	-	23	-	-	-
14 days.....	-	3	20	15	2	-	-	-	-	-	-	-	-
15 days.....	-	-	-	-	-	-	-	-	-	-	-	-	-
North Central													
	Chicago	Cleveland	Detroit	Milwaukee	Minneapolis-St. Paul	St. Louis	Denver	Los Angeles-Long Beach	Portland	San Francisco-Oakland			West
	100	100	100	100	100	100	100	100	100	100	100	100	100
All workers.....	100	100	98	100	100	100	100	100	100	100	100	100	100
Workers in establishments providing paid holidays.....	100	100	-	-	-	-	-	-	-	-	-	-	-
Fewer than 5 days.....	-	-	(1)	(1)	-	-	-	6	(1)	-	-	-	-
5 days.....	-	(1)	3	2	(1)	2	-	1	7	1	-	-	-
6 days.....	4	3	2	(1)	-	-	-	-	2	-	-	-	-
6 days plus 1, 2, or 3 half days	2	2	5	-	-	-	-	-	3	-	2	-	-
7 days.....	2	3	1	(1)	2	4	(1)	4	2	2	4	-	-
7 days plus 1, 2, or 3 half days.	3	1	-	1	-	-	-	-	3	-	2	-	2
8 days.....	3	2	5	2	8	6	21	7	16	2	-	-	-
8 days plus 1, 2, or 3 half days..	2	2	1	1	-	2	-	2	5	5	13	-	-
9 days.....	13	10	8	8	33	6	11	28	34	60	-	-	-
9 days plus 1, 2, or 3 half days..	(1)	-	-	-	4	3	-	5	-	1	-	-	-
10 days.....	28	21	14	25	49	36	21	28	41	8	-	-	-
10 days plus 1, 2, or 3 half days.	(1)	-	-	-	-	-	-	6	-	9	-	-	-
11 days.....	20	41	8	18	-	33	40	6	-	-	-	-	-
11 days plus 1, 2, or 3 half days.	1	-	-	-	-	-	-	-	-	-	-	-	-
12 days.....	12	10	13	7	-	-	-	-	1	-	-	-	-
12 days plus 1, 2, or 3 half days.	-	-	-	-	-	-	-	-	-	-	-	-	-
13 days.....	3	4	8	28	2	11	-	1	-	-	-	-	-
14 days.....	-	-	32	10	-	-	-	-	-	-	-	-	-
15 days.....	8	-	-	-	-	-	-	-	-	-	-	-	-

¹ Less than 0.5 percent

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

Table 31. Paid holidays: Office workers

(Percent of office workers in machinery manufacturing establishments with formal provisions for paid holidays, winter 1974-1975)

Number of paid holidays	Northeast									South			
	Boston	Buffalo	Hart- ford- New Britain- Bristol	Newark and Jersey City	New York	Phila- delphia	Pitts- burgh	Wor- cester	Atlanta	Balti- more	Dallas	Houston	Tulsa
All workers.....	100	100	100	100	100	100	100	100	100	100	100	100	100
Workers in establishments providing paid holidays.....	100	100	100	100	100	100	100	100	100	98	100	100	100
Fewer than 5 days.....	5	-	-	-	-	-	-	-	-	-	-	-	(1)
5 days.....	-	-	-	-	-	-	-	-	7	(1)	5	-	-
6 days.....	-	-	-	-	-	-	1	2	14	1	5	(1)	-
6 days plus 1, 2, or 3 half days.....	-	4	-	-	-	(1)	-	-	-	(1)	4	2	-
7 days.....	(1)	(1)	2	1	2	1	-	-	38	-	8	7	15
7 days plus 1, 2, or 3 half days.....	1	(1)	1	(1)	1	1	3	(1)	-	1	3	-	-
8 days.....	(1)	2	3	2	1	2	8	(1)	24	3	23	14	5
8 days plus 1, 2, or 3 half days.....	(1)	-	1	1	1	(1)	-	-	-	-	5	-	8
9 days.....	(1)	3	6	2	7	3	18	58	9	33	34	14	71
9 days plus 1, 2, or 3 half days.....	15	-	(1)	2	1	9	12	-	-	-	-	-	-
10 days.....	19	43	18	12	27	39	34	22	8	21	6	63	-
10 days plus 1, 2, or 3 half days.....	29	-	2	14	11	2	-	-	-	-	-	-	-
11 days.....	12	38	51	21	16	34	24	2	-	-	4	-	-
11 days plus 1, 2, or 3 half days.....	14	-	-	6	3	-	-	4	-	-	-	-	-
12 days.....	3	9	7	19	25	8	-	12	-	4	1	-	-
12 days plus 1, 2, or 3 half days.....	-	-	-	-	1	-	-	-	-	-	-	-	-
13 days.....	-	-	3	18	3	-	-	-	-	36	-	-	-
14 days.....	-	1	1	-	1	-	-	-	-	-	-	-	-
15 days.....	-	-	5	3	-	-	-	-	-	-	-	-	-
North Central													
	Chicago	Cleveland	Detroit	Milwaukee	Minne- apolis- St. Paul	St. Louis	Denver	Los Angeles- Long Beach	Portland	San Fran- cisco- Oakland	West		
	100	100	100	100	100	100	100	100	100	100	100	100	100
All workers.....	100	100	100	100	100	100	100	100	100	100	100	100	100
Workers in establishments providing paid holidays.....	100	100	100	100	100	100	100	100	100	100	100	100	100
Fewer than 5 days.....	-	-	-	(1)	-	-	-	4	(1)	-	-	-	-
5 days.....	-	-	(1)	-	-	-	-	3	1	-	-	-	-
6 days.....	3	1	2	(1)	1	-	(1)	1	4	1	4	-	-
6 days plus 1, 2, or 3 half days.....	(1)	(1)	5	-	-	-	-	-	1	-	1	-	-
7 days.....	3	1	1	-	(1)	3	(1)	1	-	1	2	-	-
7 days plus 1, 2, or 3 half days.....	1	(1)	1	(1)	2	-	-	6	-	-	1	-	-
8 days.....	1	1	3	1	5	7	12	10	13	2	-	-	-
8 days plus 1, 2, or 3 half days.....	6	2	1	(1)	-	2	-	1	13	16	-	-	-
9 days.....	19	7	8	10	25	2	10	21	34	58	-	-	-
9 days plus 1, 2, or 3 half days.....	(1)	-	-	-	3	4	-	4	7	.1	-	-	-
10 days.....	35	26	14	29	61	30	20	28	29	2	-	-	-
10 days plus 1, 2, or 3 half days.....	(1)	-	-	-	-	-	-	8	-	-	18	-	-
11 days.....	15	42	6	22	-	47	53	13	-	-	-	-	-
11 days plus 1, 2, or 3 half days.....	(1)	-	-	-	-	-	-	-	-	-	-	-	-
12 days.....	12	11	16	25	-	-	-	2	-	-	-	-	-
12 days plus 1, 2, or 3 half days.....	-	-	-	-	-	-	-	2	-	-	-	-	-
13 days.....	1	9	8	12	2	5	-	2	-	-	-	-	-
14 days.....	-	-	13	-	-	-	-	-	-	-	-	-	-
15 days.....	2	-	22	-	-	-	-	-	-	-	-	-	-

¹ Less than 0.5 percent.

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

Table 32. Paid vacations: Production workers

(Percent of production workers in machinery manufacturing establishments with formal provisions for paid vacations after selected periods of service, winter 1974-1975)

Vacation policy	Northeast								South				
	Boston	Buffalo	Hartford-New Britain-Bristol	Newark and Jersey City	New York	Philadelphia	Pittsburgh	Worcester	Atlanta	Baltimore	Dallas	Houston	Tulsa
All workers.....	100	100	100	100	100	100	100	100	100	100	100	100	100
Method of payment													
Workers in establishments providing paid vacations.....	100	100	100	100	100	100	100	100	100	100	100	100	100
Length-of-time payment.....	99	82	87	93	99	87	68	79	85	100	95	89	85
Percentage payment.....	1	18	13	7	1	7	32	21	15	-	5	11	15
Other.....	-	-	-	-	-	6	-	-	-	-	-	-	-
Amount of vacation pay1/													
After 1 year of service:													
Under 1 week.....	-	-	-	-	-	-	-	-	-	-	-	-	-
1 week.....	44	74	25	58	69	87	54	73	85	100	72	85	86
Over 1 and under 2 weeks.....	6	-	41	15	14	2	33	-	-	-	2	-	-
2 weeks.....	49	26	35	28	17	6	11	27	11	-	26	15	14
Over 2 and under 3 weeks.....	-	-	-	-	-	6	2	-	-	-	-	-	-
3 weeks.....	-	-	-	-	-	-	-	-	4	-	-	-	-
Over 3 and under 4 weeks.....	-	-	-	-	-	-	-	-	-	-	-	-	-
4 weeks.....	-	-	-	-	-	-	-	-	-	-	-	-	-
After 2 years of service:													
1 week.....	27	55	11	14	14	20	32	53	45	41	19	11	20
Over 1 and under 2 weeks.....	5	2	46	22	12	22	40	-	2	4	2	(2)	4
2 weeks.....	68	43	43	61	65	52	22	47	50	55	79	88	76
Over 2 and under 3 weeks.....	-	-	1	2	9	7	6	-	-	-	-	-	-
3 weeks.....	-	-	-	-	-	-	-	-	4	-	-	-	-
Over 3 and under 4 weeks.....	-	-	-	-	-	-	-	-	-	-	-	-	-
4 weeks.....	-	-	-	-	-	-	-	-	-	-	-	-	-
After 3 years of service:													
1 week.....	7	6	3	3	6	1	2	6	6	6	4	-	-
Over 1 and under 2 weeks.....	5	-	13	6	1	19	7	-	2	1	2	(2)	-
2 weeks.....	87	94	58	75	76	71	56	94	89	90	94	100	100
Over 2 and under 3 weeks.....	-	-	26	17	14	9	35	-	-	3	-	-	-
3 weeks.....	-	-	-	-	3	-	-	-	4	-	-	-	-
Over 3 and under 4 weeks.....	-	-	-	-	-	-	-	-	-	-	-	-	-
4 weeks.....	-	-	-	-	-	-	-	-	-	-	-	-	-
After 5 years of service:													
1 week.....	-	-	-	-	1	-	-	3	-	(2)	2	-	-
Over 1 and under 2 weeks.....	-	-	-	+1	10	4	-	-	2	1	-	(2)	-
2 weeks.....	83	46	38	55	69	66	34	97	95	96	82	91	96
Over 2 and under 3 weeks.....	17	27	41	26	12	14	50	-	-	3	5	7	-
3 weeks.....	1	27	21	19	11	9	11	-	4	-	10	2	4
Over 3 and under 4 weeks.....	-	-	-	-	6	-	-	-	-	-	-	-	-
4 weeks.....	-	-	-	-	-	-	-	-	-	-	-	-	-
After 10 years of service:													
1 week.....	-	-	-	-	-	-	-	3	-	(2)	-	-	-
2 weeks.....	8	5	11	10	13	8	4	5	71	7	36	17	6
Over 2 and under 3 weeks.....	1	-	4	7	5	9	4	-	3	2	(2)	19	-
3 weeks.....	91	70	59	66	71	76	49	92	22	91	56	81	75
Over 3 and under 4 weeks.....	-	-	25	17	3	7	32	-	-	-	2	-	-
4 weeks.....	-	24	-	-	7	-	11	-	4	-	4	2	-
Over 4 and under 5 weeks.....	-	-	-	-	-	-	-	-	-	-	-	-	-
After 15 years of service:													
1 week.....	-	-	-	-	-	-	-	3	-	(2)	-	-	-
2 weeks.....	(2)	1	2	7	9	4	2	1	11	4	14	-	(2)
Over 2 and under 3 weeks.....	1	-	-	-	-	-	2	-	-	-	2	-	-
3 weeks.....	79	17	31	30	62	33	29	77	85	56	73	76	72
Over 3 and under 4 weeks.....	9	33	46	30	9	24	50	-	-	3	5	14	-
4 weeks.....	11	49	21	32	19	40	6	18	4	37	11	17	13
Over 4 and under 5 weeks.....	-	-	-	1	2	-	-	-	-	-	-	-	-
5 weeks.....	-	-	-	-	-	-	11	-	-	-	-	2	-

See footnotes at end of table 33.

Table 32. Paid vacations: Production workers—Continued

(Percent of production workers in machinery manufacturing establishments with formal provisions for paid vacations after selected periods of service, winter 1974-1975)

Vacation policy	North Central						West			
	Chicago	Cleveland	Detroit	Milwaukee	Minne- apolis- St. Paul	St. Louis	Denver	Los Angeles- Long Beach	Portland	San Fran- cisco- Oakland
All workers.....	100	100	100	100	100	100	100	100	100	100
Method of payment										
Workers in establishments providing paid vacations.....	100	100	99	100	100	100	100	100	100	100
Length-of-time payment.....	80	87	76	85	96	95	96	99	100	41
Percentage payment.....	19	13	23	15	4	5	4	1	-	59
Other.....	1	-	-	-	-	-	-	-	-	-
Amount of vacation pay ¹ /										
After 1 year of service:										
Under 1 week.....	-	-	1	(2)	-	-	-	-	-	-
1 week.....	66	71	55	75	54	88	32	54	100	19
Over 1 and under 2 weeks.....	4	10	4	17	9	7	-	4	-	2
2 weeks.....	21	13	34	5	37	5	67	35	-	60
Over 2 and under 3 weeks.....	1	-	(2)	-	-	-	-	6	-	-
3 weeks.....	7	6	-	1	-	-	-	-	-	18
Over 3 and under 4 weeks.....	1	(2)	(2)	1	-	-	-	1	-	-
4 weeks.....	-	-	3	-	-	-	-	-	-	-
After 2 years of service:										
1 week.....	25	29	29	24	13	58	14	12	75	1
Over 1 and under 2 weeks.....	6	31	8	21	15	2	-	5	-	7
2 weeks.....	60	29	55	46	72	37	86	74	25	72
Over 2 and under 3 weeks.....	1	4	3	5	-	3	-	8	-	-
3 weeks.....	7	6	1	1	-	-	-	-	-	18
Over 3 and under 4 weeks.....	1	(2)	(2)	1	-	-	-	1	-	-
4 weeks.....	-	-	3	-	-	-	-	-	-	1
After 3 years of service:										
1 week.....	(2)	4	7	2	-	-	-	1	-	1
Over 1 and under 2 weeks.....	(2)	28	16	6	1	2	-	2	-	-
2 weeks.....	77	45	41	72	96	94	89	87	100	79
Over 2 and under 3 weeks.....	14	16	29	17	2	3	11	9	-	-
3 weeks.....	7	6	3	1	1	-	-	(2)	-	18
Over 3 and under 4 weeks.....	1	(2)	(2)	1	-	-	-	1	-	-
4 weeks.....	-	-	3	-	-	-	-	-	-	1
After 5 years of service:										
1 week.....	-	-	2	-	-	-	-	(2)	-	-
Over 1 and under 2 weeks.....	-	5	1	1	-	-	-	2	-	-
2 weeks.....	72	60	41	67	73	82	46	62	100	65
Over 2 and under 3 weeks.....	5	20	14	28	9	18	11	14	-	-
3 weeks.....	22	14	35	2	18	-	43	20	-	33
Over 3 and under 4 weeks.....	1	(2)	2	1	-	-	-	1	-	-
4 weeks.....	-	(2)	4	-	-	-	-	1	-	1
After 10 years of service:										
1 week.....	-	-	1	-	-	-	-	(2)	-	-
2 weeks.....	5	7	6	(2)	(2)	1	1	9	3	1
Over 2 and under 3 weeks.....	(2)	12	15	1	2	2	-	2	-	-
3 weeks.....	70	58	42	79	94	97	60	81	97	75
Over 3 and under 4 weeks.....	14	16	28	19	2	-	11	5	-	-
4 weeks.....	10	8	7	1	2	-	28	2	-	23
Over 4 and under 5 weeks.....	-	(2)	(2)	-	-	-	-	1	-	-
After 15 years of service:										
1 week.....	-	-	1	-	-	-	-	(2)	-	-
2 weeks.....	1	1	4	(2)	(2)	-	1	8	1	1
Over 2 and under 3 weeks.....	-	3	3	-	-	-	-	1	-	-
3 weeks.....	55	22	40	28	67	63	48	64	99	65
Over 3 and under 4 weeks.....	5	33	9	17	10	14	11	9	-	-
4 weeks.....	39	36	41	50	23	23	40	17	-	16
Over 4 and under 5 weeks.....	1	3	1	4	-	-	-	1	-	-
5 weeks.....	-	1	(2)	-	-	-	-	-	-	18

See footnotes at end of table 33.

Table 32. Paid vacations: Production workers—Continued

(Percent of production workers in machinery manufacturing establishments with formal provisions for paid vacations after selected periods of service, winter 1974-1975)

Vacation policy	Northeast								South			
	Boston	Buffalo	Hart-ford-New Britain-Bristol	Newark and Jersey City	New York	Philadel-phia	Pitts-burgh	Wor-ces-ter	Atlanta	Balti-more	Dallas	Houston	Tulsa
Amount of vacation pay¹—Continued												
After 20 years of service												
1 week.....	-	-	-	-	-	-	-	3	-	(2)	-	-
2 weeks.....	(2)	1	2	3	9	4	2	1	11	4	14	-
Over 2 and under 3 weeks.....	1	-	-	-	-	-	-	-	-	-	-	(2)
3 weeks.....	32	8	13	15	29	13	18	1	74	9	40	18
Over 3 and under 4 weeks.....	-	-	2	1	4	1	19	-	-	-	2	-
4 weeks.....	65	56	53	56	51	66	19	94	14	87	44	80
Over 4 and under 5 weeks.....	3	1	10	2	6	6	29	-	-	-	-	90
5 weeks.....	-	34	20	22	-	11	11	-	-	-	-	-
Over 5 and under 6 weeks.....	-	-	-	-	-	-	-	-	-	-	-	-
6 weeks.....	-	-	-	-	-	-	-	-	-	-	2	-
After 25 years of service												
1 week.....	-	-	-	-	-	-	-	3	-	(2)	-	-
2 weeks.....	(2)	1	2	2	9	4	1	1	11	4	14	-
Over 2 and under 3 weeks.....	-	-	-	-	-	-	2	-	-	-	-	(2)
3 weeks.....	32	8	12	16	27	13	5	1	68	9	34	18
Over 3 and under 4 weeks.....	-	-	2	-	4	-	-	-	-	-	2	-
4 weeks.....	45	37	23	28	44	35	20	75	21	41	45	76
Over 4 and under 5 weeks.....	3	1	30	14	5	3	46	-	-	3	-	-
5 weeks.....	20	54	31	40	12	40	10	19	-	43	5	5
Over 5 and under 6 weeks.....	-	-	-	-	-	6	5	-	-	-	-	-
6 weeks.....	-	-	-	-	-	-	11	-	-	-	-	2
After 30 years of service:^{3/}												
1 week.....	-	-	-	-	-	-	-	3	-	(2)	-	-
2 weeks.....	(2)	1	2	2	9	4	1	1	11	4	14	-
Over 2 and under 3 weeks.....	-	-	-	-	-	-	2	-	-	-	-	(2)
3 weeks.....	32	8	12	15	27	13	5	1	68	9	34	18
Over 3 and under 4 weeks.....	-	-	2	-	4	-	-	-	-	-	2	-
4 weeks.....	34	37	20	24	44	34	18	45	17	6	45	59
Over 4 and under 5 weeks.....	3	1	34	4	5	3	31	-	-	3	-	-
5 weeks.....	31	27	29	55	12	38	25	37	4	78	5	22
Over 5 and under 6 weeks.....	-	-	2	-	-	6	8	-	-	-	-	-
6 weeks.....	-	26	-	-	-	3	11	11	-	-	-	2
Over 6 and under 7 weeks.....	-	-	-	-	-	-	-	-	-	-	-	-
7 weeks.....	-	-	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table 33.

Table 32. Paid vacations: Production workers —Continued

(Percent of production workers in machinery manufacturing establishments with formal provisions for paid vacations after selected periods of service, winter 1974-1975)

Vacation policy	North Central						West			
	Chicago	Cleveland	Detroit	Milwaukee	Minne- apolis- St. Paul	St. Louis	Denver	Los Angeles- Long Beach	Portland	San Fran- cisco- Oakland
Amount of vacation pay ¹ —Continued										
After 20 years of service										
1 week.....	-	-	1	-	-	-	-	(2)	-	-
2 weeks.....	1	1	3	(2)	(2)	-	1	8	1	1
Over 2 and under 3 weeks.....	-	-	3	-	-	-	-	1	-	-
3 weeks.....	9	8	17	3	15	13	31	41	16	3
Over 3 and under 4 weeks.....	3	6	8	(2)	-	-	-	5	-	-
4 weeks.....	65	52	38	72	81	82	28	41	82	77
Over 4 and under 5 weeks.....	3	15	2	9	-	3	12	2	-	-
5 weeks.....	20	17	27	7	4	1	27	1	-	-
Over 5 and under 6 weeks.....	-	-	-	4	-	-	-	-	-	18
6 weeks.....	-	1	-	5	-	-	-	2	-	-
After 25 years of service										
1 week.....	-	-	1	-	-	-	-	(2)	-	-
2 weeks.....	1	1	3	(2)	(2)	-	1	8	1	1
Over 2 and under 3 weeks.....	-	-	3	-	-	-	-	1	-	-
3 weeks.....	8	6	16	3	15	8	22	37	16	3
Over 3 and under 4 weeks.....	2	2	8	(2)	-	-	-	5	-	-
4 weeks.....	39	31	38	17	61	61	27	45	66	70
Over 4 and under 5 weeks.....	7	17	1	-	-	-	12	1	17	-
5 weeks.....	32	41	27	64	24	24	37	2	-	7
Over 5 and under 6 weeks.....	2	1	1	10	-	7	-	-	-	18
6 weeks.....	8	1	(2)	5	-	-	-	2	-	-
After 30 years of service:^{3/}										
1 week.....	-	-	1	-	-	-	-	(2)	-	-
2 weeks.....	1	1	3	(2)	(2)	-	1	8	1	1
Over 2 and under 3 weeks.....	-	-	3	-	-	-	-	1	-	-
3 weeks.....	8	6	16	3	15	8	22	37	16	3
Over 3 and under 4 weeks.....	2	2	8	(2)	-	-	-	5	-	-
4 weeks.....	38	31	37	17	60	61	27	45	66	70
Over 4 and under 5 weeks.....	6	17	1	-	-	-	12	1	-	-
5 weeks.....	32	41	28	23	25	24	37	2	17	7
Over 5 and under 6 weeks.....	2	1	-	10	-	7	-	-	-	18
6 weeks.....	10	1	(2)	40	-	-	-	2	-	-
Over 6 and under 7 weeks.....	-	-	-	1	-	-	-	-	-	-
7 weeks.....	-	-	-	5	-	-	-	-	-	-

See footnotes at end of table 33.

Table 33. Paid vacations: Office workers

(Percent of production workers in machinery manufacturing establishments with formal provisions for paid vacations after selected periods of service, winter 1974-1975)

Vacation policy	Northeast									South			
	Boston	Buffalo	Hartford-New Britain-Bristol	Newark and Jersey City	New York	Philadelphia	Pittsburgh	Worcester	Atlanta	Baltimore	Dallas	Houston	Tulsa
All workers.....	100	100	100	100	100	100	100	100	100	100	100	100	100
Method of payment													
Workers in establishments providing paid vacations.....	100	100	100	100	100	100	100	100	100	100	100	100	100
Length-of-time payment.....	100	100	100	100	100	100	100	68	100	100	99	100	100
Percentage payment.....	-	-	-	-	-	-	32	-	-	1	-	-	-
Amount of vacation pay1/													
After 1 year of service:													
1 week.....	10	30	7	7	16	24	16	2	60	14	36	49	47
Over 1 and under 2 weeks.....	4	-	1	1	6	1	1	-	-	-	1	-	-
2 weeks.....	86	70	66	91	78	67	69	98	39	86	63	50	53
Over 2 and under 3 weeks.....	-	-	26	-	-	9	14	-	-	-	-	-	-
3 weeks.....	-	-	(2)	(2)	-	-	-	-	1	-	-	1	-
4 weeks.....	-	-	-	-	-	-	-	-	-	-	-	-	-
After 2 years of service:													
1 week.....	5	13	3	3	2	(2)	12	2	26	5	8	-	-
Over 1 and under 2 weeks.....	1	3	3	1	1	6	-	-	2	(2)	1	(2)	-
2 weeks.....	94	84	67	94	92	85	73	98	71	94	90	99	100
Over 2 and under 3 weeks.....	-	-	27	1	5	9	15	-	-	-	-	-	-
3 weeks.....	-	-	(2)	2	(2)	-	-	-	1	-	-	1	-
4 weeks.....	-	-	-	-	-	-	-	-	-	-	-	-	-
After 3 years of service:													
1 week.....	-	1	2	1	(2)	-	1	2	8	2	1	-	-
Over 1 and under 2 weeks.....	1	-	4	(2)	(2)	6	-	-	2	(2)	1	(2)	-
2 weeks.....	99	99	62	93	93	83	63	98	89	97	98	99	100
Over 2 and under 3 weeks.....	-	-	32	4	6	12	36	-	-	-	-	-	-
3 weeks.....	-	-	(2)	2	(2)	-	-	-	1	-	-	1	-
4 weeks.....	-	-	-	-	-	-	-	-	-	-	-	-	-
After 5 years of service:													
1 week.....	-	-	-	-	-	-	-	2	-	(2)	-	-	-
Over 1 and under 2 weeks.....	-	-	-	-	(2)	4	-	-	2	(2)	-	(2)	-
2 weeks.....	83	48	48	60	74	59	43	98	97	99	72	95	92
Over 2 and under 3 weeks.....	17	17	40	24	11	22	17	-	-	-	3	2	-
3 weeks.....	(2)	35	9	16	13	15	40	1	1	-	25	2	8
Over 3 and under 4 weeks.....	-	-	3	-	1	-	-	-	-	-	-	-	-
4 weeks.....	-	-	-	-	-	-	-	-	-	-	-	-	-
After 10 years of service:													
1 week.....	-	-	-	-	-	-	-	2	-	(2)	-	-	-
2 weeks.....	5	9	8	3	12	6	3	9	64	3	31	21	30
Over 2 and under 3 weeks.....	4	-	4	5	5	7	10	-	-	-	1	(2)	-
3 weeks.....	91	59	79	77	78	78	36	89	35	97	55	76	70
4 weeks.....	-	32	-	-	4	1	21	-	1	-	12	2	-
After 15 years of service:													
1 week.....	-	-	-	-	-	-	-	2	-	(2)	-	-	-
2 weeks.....	(2)	-	1	2	5	2	(2)	(2)	16	2	10	2	18
Over 2 and under 3 weeks.....	-	-	-	-	-	-	3	-	-	-	1	-	-
3 weeks.....	78	20	45	30	61	43	35	86	83	59	63	79	67
Over 3 and under 4 weeks.....	11	41	42	42	10	19	14	-	-	-	-	-	-
4 weeks.....	11	39	12	26	24	35	26	12	1	39	26	17	15
Over 4 and under 5 weeks.....	-	-	-	-	-	-	-	-	-	-	-	-	-
5 weeks.....	-	-	-	-	-	-	21	-	-	-	-	2	-
After 20 years of service:													
1 week.....	-	-	-	-	-	-	-	2	-	(2)	-	-	-
2 weeks.....	(2)	-	1	1	5	2	(2)	(2)	16	2	10	2	18
Over 2 and under 3 weeks.....	-	-	-	-	-	-	3	-	-	-	-	-	-
3 weeks.....	17	11	11	7	28	9	18	1	53	6	38	18	19
Over 3 and under 4 weeks.....	-	-	-	2	-	6	3	-	-	-	1	-	-
4 weeks.....	78	54	66	81	59	63	28	98	31	91	51	78	63
Over 4 and under 5 weeks.....	4	-	14	-	3	9	30	-	-	-	-	-	-

See footnotes at end of table.

Table 33. Paid vacations: Office workers—Continued

(Percent of production workers in machinery manufacturing establishments with formal provisions for paid vacations after selected periods of service, winter 1974-1975)

Vacation policy	Northeast								South				
	Boston	Buffalo	Hartford-New Britain-Bristol	Newark and Jersey City	New York	Philadelphia	Pittsburgh	Worcester	Atlanta	Baltimore	Dallas	Houston	Tulsa
Amount of vacation pay¹—Continued													
After 20 years of service—Continued													
5 weeks.....	-	36	5	11	-	14	21	-	-	-	-	1	-
Over 5 and under 6 weeks.....	-	-	-	-	-	-	-	-	-	-	-	1	-
6 weeks.....	-	-	-	-	-	-	-	-	-	-	-	1	-
After 25 years of service													
1 week.....	-	-	-	-	-	-	-	2	-	(2)	-	-	-
2 weeks.....	(2)	-	1	1	5	2	(2)	(2)	16	2	10	2	18
Over 2 and under 3 weeks.....	-	-	-	-	-	-	-	-	-	-	-	-	-
3 weeks.....	17	11	9	7	23	9	7	1	36	6	30	18	13
Over 3 and under 4 weeks.....	-	-	2	-	3	-	-	-	-	-	1	-	-
4 weeks.....	56	24	34	31	50	48	30	80	48	43	46	76	70
Over 4 and under 5 weeks.....	4	-	28	10	2	3	23	-	-	-	-	-	-
5 weeks.....	23	65	26	51	17	22	9	17	-	49	13	2	-
Over 5 and under 6 weeks.....	-	-	-	-	-	9	1	-	-	-	-	-	-
6 weeks.....	-	-	-	-	-	7	27	-	-	-	-	1	-
After 30 years of service²													
1 week.....	-	-	-	-	-	-	-	2	-	(2)	-	-	-
2 weeks.....	(2)	-	1	1	5	2	(2)	(2)	16	2	10	2	18
Over 2 and under 3 weeks.....	-	-	-	-	-	-	-	-	-	-	-	-	-
3 weeks.....	17	11	9	7	23	9	7	1	25	6	30	18	13
Over 3 and under 4 weeks.....	-	-	2	-	3	-	-	-	-	-	1	-	-
4 weeks.....	40	24	31	27	50	45	28	42	56	20	46	64	58
Over 4 and under 5 weeks.....	4	-	31	(2)	2	3	6	-	-	-	-	-	-
5 weeks.....	39	33	21	56	17	19	29	48	2	71	13	14	12
Over 5 and under 6 weeks.....	-	-	5	-	-	9	1	-	-	-	-	-	-
6 weeks.....	-	32	-	8	-	14	27	8	-	-	-	1	-

See footnotes at end of table.

Table 33. Paid vacations: Office workers—Continued

(Percent of production workers in machinery manufacturing establishments with formal provisions for paid vacations after selected periods of service, winter 1974-1975)

Vacation policy	North Central							West		
	Chicago	Cleveland	Detroit	Milwaukee	Minne- apolis- St. Paul	St. Louis	Denver	Los Angeles- Long Beach	Portland	San Fran- cisco- Oakland
All workers.....	100	100	100	100	100	100	100	100	100	100
Method of payment										
Workers in establishments providing paid vacations.....	100	100	99	100	100	100	100	100	100	100
Length-of-time payment.....	96	92	96	98	98	100	100	100	100	91
Percentage payment.....	4	8	3	2	2	-	-	-	-	9
Amount of vacation pay/										
After 1 year of service:										
1 week.....	26	17	23	34	11	21	5	24	52	4
Over 1 and under 2 weeks.....	(2)	8	4	-	(2)	-	-	2	-	-
2 weeks.....	66	61	71	65	89	79	95	60	48	87
Over 2 and under 3 weeks.....	3	6	(2)	-	-	-	-	14	-	-
3 weeks.....	4	8	(2)	1	-	-	-	(2)	-	9
4 weeks.....	-	-	1	-	-	-	-	-	-	-
After 2 years of service:										
1 week.....	4	5	8	1	2	8	3	3	44	-
Over 1 and under 2 weeks.....	-	1	1	2	(2)	3	-	1	-	-
2 weeks.....	89	70	89	96	97	87	97	81	56	90
Over 2 and under 3 weeks.....	3	17	(2)	-	-	-	-	15	-	-
3 weeks.....	4	8	(2)	1	-	3	-	(2)	-	9
4 weeks.....	-	-	1	-	-	-	-	-	-	1
After 3 years of service:										
1 week.....	(2)	2	6	(2)	-	-	-	1	-	-
Over 1 and under 2 weeks.....	-	(2)	(2)	1	-	1	-	(2)	-	-
2 weeks.....	79	65	63	90	97	96	100	84	100	90
Over 2 and under 3 weeks.....	17	25	20	7	2	-	-	15	-	-
3 weeks.....	4	8	9	1	1	3	-	(2)	-	9
4 weeks.....	-	-	1	-	-	-	-	-	-	1
After 5 years of service:										
1 week.....	-	(2)	1	-	-	-	-	(2)	-	-
Over 1 and under 2 weeks.....	-	-	-	(2)	-	-	-	(2)	-	-
2 weeks.....	68	49	53	83	51	90	46	54	100	69
Over 2 and under 3 weeks.....	4	28	4	13	10	2	-	10	-	-
3 weeks.....	28	23	40	4	39	8	54	36	-	30
Over 3 and under 4 weeks.....	-	-	(2)	-	-	-	-	-	-	-
4 weeks.....	-	-	1	-	-	-	-	-	-	1
After 10 years of service:										
1 week.....	-	(2)	1	-	-	-	-	(2)	-	-
2 weeks.....	1	3	10	1	-	1	1	4	14	4
Over 2 and under 3 weeks.....	1	2	11	-	2	1	-	3	-	-
3 weeks.....	77	65	48	93	96	98	60	77	86	82
4 weeks.....	10	8	11	3	(2)	-	39	2	-	13
After 15 years of service:										
1 week.....	-	(2)	1	-	-	-	-	(2)	-	-
2 weeks.....	1	(2)	6	(2)	-	-	1	3	3	3
Over 2 and under 3 weeks.....	-	-	(2)	-	-	-	-	(2)	-	-
3 weeks.....	52	31	45	47	55	68	49	61	70	80
Over 3 and under 4 weeks.....	5	18	3	6	7	2	-	15	-	-
4 weeks.....	40	51	44	47	39	30	50	20	27	8
Over 4 and under 5 weeks.....	3	-	-	(2)	-	-	-	-	-	-
5 weeks.....	-	(2)	(2)	-	-	-	-	-	-	9
After 20 years of service										
1 week.....	-	(2)	1	-	-	-	-	(2)	-	-
2 weeks.....	1	(2)	6	(2)	-	-	1	3	3	3
Over 2 and under 3 weeks.....	-	-	(2)	-	-	-	-	(2)	-	-
3 weeks.....	8	7	15	2	7	13	22	36	15	3
Over 3 and under 4 weeks.....	-	2	2	-	-	-	-	12	-	-
4 weeks.....	60	55	49	88	88	87	36	46	82	85
Over 4 and under 5 weeks.....	3	14	-	2	-	-	1	-	-	-

See footnotes at end of table.

Table 33. Paid vacation: Office workers—Continued

(Percent of production workers in machinery manufacturing establishments with formal provisions for paid vacations after selected periods of service, winter 1974-1975)

Vacation policy	North Central						West			
	Chicago	Cleveland	Detroit	Milwaukee	Minneapolis-St. Paul	St. Louis	Denver	Los Angeles-Long Beach	Portland	San Francisco-Oakland
Amount of vacation pay 2/—Continued										
After 20 years of service—Continued										
5 weeks.....	28	21	27	7	5	-	39	1	-	-
Over 5 and under 6 weeks.....	-	-	-	(2)	-	-	-	-	+	9
6 weeks.....	-	(2)	-	-	-	-	-	(2)	-	-
After 25 years of service										
1 week.....	-	(2)	1	-	-	-	-	(2)	-	-
2 weeks.....	1	(2)	6	(2)	-	-	1	3	3	3
Over 2 and under 3 weeks.....	-	-	(2)	-	-	-	-	(2)	-	-
3 weeks.....	8	6	14	2	7	11	19	36	15	3
Over 3 and under 4 weeks.....	-	-	2	-	-	-	-	12	-	-
4 weeks.....	38	28	50	23	76	53	29	46	78	81
Over 4 and under 5 weeks.....	3	14	-	-	-	-	1	1	5	-
5 weeks.....	45	51	27	74	17	36	50	(2)	-	4
Over 5 and under 6 weeks.....	-	-	-	(2)	-	-	-	-	-	9
6 weeks.....	6	(2)	(2)	-	-	-	-	1	-	-
After 30 years of service: 3/										
1 week.....	-	(2)	1	-	-	-	-	(2)	-	-
2 weeks.....	1	(2)	6	(2)	-	-	1	3	3	3
Over 2 and under 3 weeks.....	-	-	(2)	-	-	-	-	(2)	-	-
3 weeks.....	8	6	14	2	7	11	19	36	15	3
Over 3 and under 4 weeks.....	-	-	2	-	-	-	-	12	-	-
4 weeks.....	36	28	50	23	70	53	29	45	78	81
Over 4 and under 5 weeks.....	1	14	7	-	-	-	1	-	-	-
5 weeks.....	46	51	27	37	23	36	50	2	5	4
Over 5 and under 6 weeks.....	-	-	-	(2)	-	-	-	-	-	9
6 weeks.....	9	(2)	(2)	38	-	-	-	1	-	-

¹ 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, changes indicated at 10 years may include changes that occurred between 5 and 10 years.

² Less than 0.5 percent.

³ Vacation provisions were virtually the same after longer periods of service.

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

Table 34. Health, insurance, and retirement plans: Production workers(Percent of production workers in machinery manufacturing establishment with specified health, insurance, and retirement plans,¹ winter 1974-1975)

Type of plan	Northeast								South				
	Boston	Buffalo	Hartford-New Britain-Bristol	Newark and Jersey City	New York	Philadelphia	Pittsburgh	Worcester	Atlanta	Baltimore	Dallas	Houston	Tulsa
All workers.....	100	100	100	100	100	100	100	100	100	100	100	100	100
Workers in establishments providing:													
Life insurance.....	99	100	99	99	97	97	100	100	97	96	99	98	100
Noncontributory plans.....	88	73	86	89	87	96	98	75	90	66	56	52	66
Accidental death and dismemberment insurance.....	95	68	97	70	69	79	55	98	87	65	90	86	66
Noncontributory plans.....	84	66	85	62	67	78	54	72	80	64	50	57	33
Sickness and accident insurance or sick leave or both ^{2/}	86	89	98	65	77	96	100	94	65	100	84	94	90
Sickness and accident insurance.....	77	89	97	53	41	93	100	76	40	96	80	54	73
Noncontributory plans.....	66	62	88	44	39	90	98	72	33	95	36	44	57
Sick leave (full pay, no waiting period).....	32	7	7	18	66	30	-	24	25	41	15	7	34
Sick leave (partial pay or waiting period).....	-	-	1	4	4	3	-	12	7	-	12	51	13
Long-term disability insurance.....	22	4	34	21	4	5	57	15	-	35	19	5	9
Noncontributory plans.....	21	2	32	18	4	5	51	15	-	35	19	-	9
Hospitalization insurance.....	99	100	99	100	99	100	100	100	100	100	92	100	100
Noncontributory plans.....	69	98	88	93	94	99	98	71	77	98	50	69	66
Surgical insurance.....	99	100	99	96	99	100	100	100	100	100	92	100	100
Noncontributory plans.....	69	98	88	89	94	99	98	71	77	98	50	69	66
Medical insurance.....	99	99	99	95	98	95	100	100	100	100	92	100	100
Noncontributory plans.....	69	98	88	88	93	95	98	71	81	98	50	69	66
Major medical insurance.....	99	77	80	69	63	87	100	100	100	97	87	100	91
Noncontributory plans.....	64	53	71	53	59	86	98	71	81	94	50	85	57
Retirement plans ^{3/}	73	96	93	84	80	89	91	96	70	99	71	72	94
Pensions.....	73	96	92	82	78	89	91	96	70	99	68	72	94
Noncontributory plans.....	69	96	88	75	75	86	91	91	60	56	62	69	80
Severance pay.....	-	-	(4)	1	4	6	18	-	-	-	4	-	10
No plans.....	-	-	-	-	-	-	-	-	-	-	1	-	-

See footnotes at end of table.

Table 34. Health, insurance, and retirement plans: Production workers—Continued

(Percent of production workers in machinery manufacturing establishments with specified health, insurance, and retirement plans,¹ winter 1974-1975)

Type of plan	North Central						West			San Fran- cisco- Oakland
	Chicago	Cleveland	Detroit	Milwaukee	Minne- apolis- St. Paul	St. Louis	Denver	Los Angeles- Long Beach	Portland	
All workers.....	100	100	100	100	100	100	100	100	100	100
Workers in establishments providing:										
Life insurance.....	100	97	98	100	97	90	100	98	99	98
Noncontributory plans.....	81	88	98	95	93	82	100	84	94	96
Accidental death and dismemberment insurance.....	90	80	96	89	67	90	57	91	97	91
Noncontributory plans.....	74	75	96	84	64	87	57	75	93	90
Sickness and accident insurance or sick leave or both ² /.....	95	93	97	99	94	98	91	62	96	85
Sickness and accident insurance.....	88	93	97	98	60	89	45	12	96	56
Noncontributory plans.....	73	84	97	93	57	86	44	9	92	56
Sick leave (full pay, no waiting period).....	7	-	8	1	36	21	50	38	12	40
Sick leave (partial pay or waiting period).....	4	-	2	1	9	7	4	20	1	20
Long-term disability insurance.....	23	26	26	25	1	14	36	19	-	47
Noncontributory plans.....	23	26	26	23	1	9	36	13	-	44
Hospitalization insurance.....	100	100	99	100	100	100	100	100	100	100
Noncontributory plans.....	84	91	99	91	93	97	99	82	96	99
Surgical insurance.....	100	100	99	100	100	100	100	100	100	100
Noncontributory plans.....	84	91	99	91	93	97	99	82	96	99
Medical insurance.....	98	100	99	100	100	100	100	100	100	100
Noncontributory plans.....	82	91	98	91	93	97	99	82	96	99
Major medical insurance.....	78	53	39	89	96	77	100	100	100	98
Noncontributory plans.....	62	47	38	80	72	72	99	82	96	96
Retirement plans ³ /.....	91	91	85	93	85	90	76	70	92	86
Pensions.....	87	91	84	88	83	90	76	70	92	86
Noncontributory plans.....	86	91	84	85	83	90	76	64	92	79
Severance pay.....	5	-	2	5	2	-	-	3	-	-
No plans.....	-	-	-	-	-	-	(4)	(4)	-	-

¹ Includes those plans for which the employer pays at least part of the cost and excludes legally required plans such as workers' compensation and social security; however, plans required by State temporary disability laws are included if the employer contributes more than is legally required or the employees receive benefits in excess of legal requirements. "Noncontributory plans" include only those financed entirely by the employer.

² Unduplicated total of workers receiving sickness and accident in-

surance and sick leave shown separately.

³ Unduplicated total of workers covered by pension plans and severance pay shown separately.

⁴ Less than 0.5 percent.

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

Table 35. Health, insurance, and retirement plans: Office workers(Percent of office workers in machinery manufacturing establishments with specified health, insurance, and retirement plans,¹ winter 1974-1975)

Type of plan	Northeast								South				
	Boston	Buffalo	Hartford-New Britain-Bristol	Newark and Jersey City	New York	Philadelphia	Pittsburgh	Worcester	Atlanta	Baltimore	Dallas	Houston	Tulsa
All workers.....	100	100	100	100	100	100	100	100	100	100	100	100	100
Workers in establishments providing:													
Life insurance.....	100	100	77	99	95	100	97	100	97	98	100	99	100
Noncontributory plans.....	84	42	45	79	79	80	94	65	88	51	38	50	36
Accidental death and dismemberment insurance.....	97	62	73	81	62	76	71	95	92	49	91	87	82
Noncontributory plans.....	82	60	43	61	48	75	69	57	83	49	36	51	21
Sickness and accident insurance or sick leave or both ^{2/}	96	59	99	93	88	93	97	99	64	100	89	93	97
Sickness and accident insurance.	60	50	68	66	42	92	87	79	32	38	74	45	60
Noncontributory plans.....	42	50	45	43	36	87	84	74	23	37	29	40	35
Sick leave (full pay, no waiting period).....	63	42	48	56	82	43	82	93	40	93	36	77	53
Sick leave (partial pay or waiting period).....	4	-	23	8	-	1	-	5	-	-	17	10	-
Long-term disability insurance.....	25	16	43	44	16	26	79	17	-	22	34	24	30
Noncontributory plans.....	22	6	28	14	11	16	71	17	-	22	28	4	25
Hospitalization insurance.....	99	100	99	100	97	98	100	100	100	100	94	100	100
Noncontributory plans.....	61	93	79	69	92	92	97	60	67	99	45	61	36
Surgical insurance.....	99	100	99	100	97	98	100	100	100	100	94	100	100
Noncontributory plans.....	61	93	79	69	92	92	97	60	67	99	45	61	36
Medical insurance.....	99	100	99	99	96	87	100	100	100	100	94	100	100
Noncontributory plans.....	61	92	79	69	83	81	97	60	69	99	45	61	36
Major medical insurance.....	99	87	100	93	85	92	100	100	100	96	94	100	100
Noncontributory plans.....	54	47	78	49	72	81	97	60	69	48	45	59	36
Retirement plans ^{3/}	76	94	93	92	79	95	90	98	70	99	59	79	87
Pensions.....	76	94	93	92	77	95	90	98	70	99	58	77	87
Noncontributory plans.....	59	91	81	78	64	93	70	94	66	17	37	63	72
Severance pay.....	-	-	-	-	3	9	7	-	-	-	5	3	7
No plans.....	-	-	-	-	-	-	-	-	-	(4)	-	-	-

See footnotes at end of table.

Table 35. Health, insurance, and retirement plans: Office workers—Continued

(Percent of office workers in machinery manufacturing establishments with specified health, insurance, and retirement plans,¹ winter 1974-1975)

Type of plan	North Central						West			
	Chicago	Cleveland	Detroit	Milwaukee	Minne- apolis- St. Paul	St. Louis	Denver	Los Angeles- Long Beach	Portland	San Fran- cisco- Oakland
All workers.....	100	100	100	100	100	100	100	100	100	100
Workers in establishments providing:										
Life insurance.....	97	99	98	100	100	96	100	97	99	98
Noncontributory plans.....	79	87	98	97	73	80	83	81	84	96
Accidental death and dismemberment insurance.....	91	83	94	92	48	96	42	95	99	95
Noncontributory plans.....	75	79	93	90	44	85	42	78	84	94
Sickness and accident insurance or sick leave or both ² /.....	96	94	92	100	93	88	96	81	99	74
Sickness and accident insurance.	70	77	86	98	55	72	37	12	77	49
Noncontributory plans.....	57	70	86	96	51	69	31	9	67	49
Sick leave (full pay, no waiting period).....	54	47	48	63	72	53	88	57	64	65
Sick leave (partial pay or waiting period).....	8	8	6	2	9	1	-	24	1	3
Long-term disability insurance.....	29	37	46	54	12	35	57	25	26	86
Noncontributory plans.....	27	37	46	48	9	16	55	15	26	71
Hospitalization insurance.....	100	99	100	100	100	100	100	100	100	100
Noncontributory plans.....	83	92	99	94	68	89	97	74	90	73
Surgical insurance.....	100	99	100	100	100	100	100	100	100	100
Noncontributory plans.....	83	92	99	94	68	89	97	74	90	73
Medical insurance.....	98	98	98	100	100	100	100	100	100	100
Noncontributory plans.....	80	92	97	94	68	89	97	74	90	73
Major medical insurance.....	79	79	57	99	100	100	100	100	100	99
Noncontributory plans.....	58	71	54	77	63	88	97	74	90	73
Retirement plans ^{3/}	90	88	86	97	88	90	79	85	81	68
Pensions.....	88	84	85	90	88	90	79	85	81	68
Noncontributory plans.....	86	84	85	81	88	73	66	72	76	43
Severance pay.....	3	3	1	7	(4)	-	-	-	-	-
No plans.....	-	-	-	-	-	-	(4)	(4)	-	-

¹ Includes those plans for which the employer pays at least part of the cost and excludes legally required plans such as workers' compensation and social security; however, plans required by State temporary disability laws are included if the employer contributes more than is legally required or the employees receive benefits in excess of legal requirements. "Noncontributory plans" include only those financed entirely by the employer.

² Unduplicated total of workers receiving sickness and accident in-

surance and sick leave shown separately.

³ Unduplicated total of workers covered by pension plans and severance pay shown separately.

⁴ Less than 0.5 percent.

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

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 (SIC) Manual*, prepared by the U.S. Office of Management and Budget). This major group includes establishments engaged in manufacturing machinery and equipment, except for electrical equipment (which is included in 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 hand-tools are classified in major group 34. Separate auxiliary units such as central offices of the firms studied were excluded.

The study covered establishments with 50 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 and the number estimated to be in the industries during the payroll period studied are shown in table A-1.

Method of study

Data were obtained by personal visits of the Bureau's field staff to a representative sample of establishments within the scope of the survey. To obtain appropriate accuracy at a minimum cost, a greater proportion of large rather than of small establishments was studied. In combining the data, however, all establishments were given an appropriate weight. All estimates are presented, therefore, as relating to all establishments in the industries 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 establishment or more.

Employment

Estimates of the number of workers within the scope of the study are intended as a general guide to the size and composition of the industries' labor force rather than as precise measures of employment.

Production and office workers

The term "production workers" or "plant workers," as used in this bulletin, includes working supervisors 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.

Occupations selected for study

Occupational classification was based on a uniform set of job descriptions designed to take into account inter-establishment and interarea variations in duties within the same job. (See appendix B for these descriptions.) The criteria for selection of the occupations were: The number of workers in the occupation; the usefulness of the data in collective bargaining; and appropriate representation 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 workers' regular pay, but nonproduction bonus pay-

Table A-1. Estimated number of establishments and employees within scope of survey and number studied, machinery manufacturing industries, winter 1974-1975

Region and area ^{1/}	Number of establishments ^{2/}		Workers in establishments			Actually studied	
	Within scope of study	Actually studied	Within scope of study				
			Total ^{3/}	Production workers	Office workers		
Total, 23 areas.....	4,290	1028	657,656	437,458	91,200	410,021	
Northeast:							
Boston.....	116	40	16,805	10,481	2,219	9,671	
Buffalo.....	62	28	10,532	6,116	1,622	6,643	
Hartford-New Britain-Bristol.....	150	53	21,206	16,236	1,750	17,799	
Newark and Jersey City.....	203	46	24,874	15,729	3,668	13,814	
New York.....	290	79	21,891	14,623	2,853	11,725	
Philadelphia.....	222	50	37,157	23,959	5,019	21,352	
Pittsburgh.....	94	23	17,207	11,611	2,245	10,526	
Worcester.....	33	19	7,602	5,407	1,157	6,473	
South:							
Atlanta.....	52	21	4,257	2,982	425	2,498	
Baltimore.....	27	16	10,145	7,512	1,342	9,127	
Dallas.....	114	43	21,305	15,316	2,584	13,282	
Houston.....	83	27	28,555	20,800	3,349	19,575	
Tulsa.....	27	14	6,835	4,726	1,106	5,029	
North Central:							
Chicago.....	645	95	99,672	71,413	13,525	52,855	
Cleveland.....	290	63	40,539	27,364	6,179	22,883	
Detroit.....	823	104	62,337	45,332	6,218	31,312	
Milwaukee.....	181	53	60,346	41,021	9,427	45,055	
Minneapolis-St. Paul.....	159	40	49,488	23,240	8,765	35,967	
St. Louis.....	114	41	17,105	12,153	2,070	11,414	
West:							
Denver.....	34	22	11,494	6,944	1,235	10,227	
Los Angeles-Long Beach.....	434	99	63,663	37,931	10,486	36,038	
Portland.....	33	17	6,336	4,288	965	4,947	
San Francisco-Oakland.....	89	30	12,379	7,592	2,390	9,269	

¹ See individual area tables 1-23 for definitions of selected areas.

² Includes only those establishments with 8 workers or more in industries 3544 and 3545 and establishments with

50 workers or more in all other industries.

³ Includes executive, professional, and other workers excluded from the production and office workers categories shown separately.

ments, such as Christmas or yearend bonuses, were excluded.

Average (mean) hourly rates (or earnings) for each occupation were calculated by weighting each rate (or hourly earnings) 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 (or standard) rather than actual hours to which the salary corresponds.

Wage trends

The machinery index series has been developed from data obtained in the Bureau's program of occupational wage surveys in 21 metropolitan areas studied separately since 1955, and is based on straight-time hourly earnings of men production workers in the following occupations: Assemblers (classes A, B, and C); maintenance electricians; inspectors (classes A, B, and C); janitors, porters, and cleaners; material handling laborers; machine-tool operators on production (classes A, B, and C); production machinists; tool and diemakers (other than jobbing); and class A hand welders.

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 employment in the occupations in that area for 1966 and 1968. (Occupational weights for these years are not available for Tulsa and Atlanta since these areas were added to the survey in 1970 and 1973, respectively.) The percent 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, 1973) for the area.

The index for all 21 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 employment in the machinery industries in these areas for 1966 and 1968. The percent change was determined by comparing this aggregate with the aggregate for the previous year, and the current index was computed by applying this percent change to the previous index (1973) for all areas combined. To maintain consistency of area definitions and establishment size between the past two surveys, the 1973 machinery data were adjusted to the 50-worker minimum size cutoff used in 1974-75 and the latter survey's area definitions were made to conform with those in the 1973 survey.

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 time-rated 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. (Learners, 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.) An experienced worker 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, maximum, or both of these 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 these. Incentive workers are classified under piece-work 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 workers (or office workers) employed on the day shift.

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 wage provisions

Supplementary benefits in an establishment were considered applicable to all production workers (or office workers) if they applied to half or more of such workers in the establishment. 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 and exclude 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 retirement plans for which all or part of the cost is borne by the employer, excluding programs required by law, such as workers' compensation and social security. Among the plans included are those underwritten by a commercial insurance company, and those paid directly by the employer from 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,¹ plans are included only if the employer (1) contributes more than is legally required or

(2) provides the employees with benefits which exceed 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.

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

Dental insurance, for purposes of this survey, usually covers fillings, extractions, and X-rays. Excluded are plans which cover only oral surgery or accident damage.

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 retirement severance payments (one payment or several over a specified period of time) made to employees on retirement. Establishments providing both retirement severance payments and retirement pensions to employees were considered as having both retirement pension and retirement severance plans. Establishments having optional plans providing employees a choice of either retirement severance payments or pensions were considered as having only retirement pension benefits.

¹The 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 staff is instructed to exclude working supervisors, apprentices, learners, beginners, trainees, and 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 upon 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; 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-sized 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; using a limited variety of hand or powered tools.

Class C

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 (See page 86.)

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 hand-tools, portable power tools, and standard measuring instruments; making standard shop computations relating to dimensions of work; 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 (See page 86.)

Drill-press operator, single- or multiple-spindle (See page 86.)

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; 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 (See page 86.)

Grinding-machine operators (See page 86.)

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.

Class A

Responsible for decisions regarding the quality of the product and/or operations. Work involves *any combination of the following*: Thorough knowledge of the processing operations in the branch of work to which 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; 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 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; using precision measuring instruments.

Class C

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

Janitor, porter, or cleaner

(Sweeper; charworker)

Cleans and keeps in an orderly condition factory working areas and washrooms, *or* premises of an office, 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; cleaning lavatories, showers, and restrooms. *Workers who specialize in window washing are excluded.*

Laborer, material handling

(Loader and unloader; handler and stacker; shelver; trucker; stockworker or stock helper; warehouse worker)

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; transporting materials or merchandise by hand truck, car, or wheelbarrow. *Longshoreworkers who load and unload ships are excluded.*

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	*Machine tools, miscellaneous
Boring machines	Milling machines
Drill presses, radial	Planers
Drill presses, single- or multiple-spindle	Screw machines, automatic
Engine lathes	Screw machines, hand Shapers

Gear-cutting machines	Turret lathes, automatic
Gear-finishing machines	Turret lathes, hand
Grinding machines	

Class A—Sets up machines, by determining proper feeds, speeds, tooling, and operation sequence or by selecting those prescribed in drawings, blueprints, or layouts; makes necessary adjustments during operations where changes in work and set-up are relatively frequent and where care is essential to achieve requisite dimensions of very close tolerances.

Class B—Sets up machines on standard or roughing operations where feeds, speeds, tooling, and operation sequence are prescribed or maintains operation setup made by others; makes all necessary adjustments during operation where care is essential to achieve very close tolerances or where changes in product are relatively frequent.

Class C—Operates machine on routine and repetitive operations; makes only minor adjustments during operations; when trouble occurs, stops machine and calls working supervisor, leadworker, or setter up man to correct the operation.

*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.

Automatic-lathe operator

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

Operates one lathe or more equipped with automatic feed mechanism 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); 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, page 85.)

Drill-press operator, radial

Operates one type or more 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, page 85.)

Drill-press operator, single- or multiple-spindle

Operates one type or more 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, page 85.)

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, screw-machine operators, automatic, and turret-lathe operators, hand (including hand screw machine) are excluded.* (For description of class of work, see machine-tool operator, production, page 85.)

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. 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, gear cutter grinders, thread grinders, etc.) and automatic and semi-automatic general purpose grinding machines. *Operators of portable grinders are excluded.* (For description of class of work, see machine-tool operator, production, page 85.)

Milling-machine operator

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

Performs a variety of work such as grooving, planing, and sharpening metal objects on a milling machine, which removes material from metal surfaces by the cutting action

of multi-toothed 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, page 85.)

Screw-machine operator, automatic

Operates one multiple- or single-spindle automatic screw machine or more. 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 one to eight 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, page 85.)

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 operator 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, page 85.)

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 set-ups or a high degree of accuracy; using a variety of precision measuring instruments; selecting feeds, speeds, tooling, and operation sequence; 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.

This occupation includes operators employed in the construction of machine shop dies, tools, gages, jigs, etc., produced for sale as the end product of an establishment, as well as operators engaged in making or maintaining

these items for use within the establishment. Thus, most class A machine-tool operators in establishments classified in SIC 3544 will be classified as machine-tool operators, toolroom.

Also include operators of numerically controlled machines if the *machining operations* are of the "toolroom" level of difficulty.

For wage survey purposes, workers are classified as follows:

Operates only one type of machine tool:

Drill-press operators, radial (page 86.)

Engine-lathe operators (page 86.)

Grinding-machine operators (page 86.)

Milling-machine operators (page 86.)

Other (not specified) toolroom machine

Operates more than one type of machine tool¹

Machinist, maintenance

Produces replacement parts and new parts in making repairs of metal parts of mechanical equipment operated in an establishment. Work involves *most of the following:* Interpreting written instructions and specifications; planning and laying out of work; using a variety of machinists' 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 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

(All-around machinist; custom machinist)

Fabricates, by a series of progressive machining operations, complete metal parts, mechanisms, or machines, to be used as, or as part of the end product of the establishment. Work involves *most of the following:* Interpreting written instructions and specifications; planning and laying out work; using a variety of machinists' 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 this work; fitting and assembling parts. In general, the machinist's work normally requires a rounded

¹Includes operators of N/C machining centers (multi-purpose N/C machine-tools).

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 operations. 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 (See page 86.)

Polisher and buffer, metal

Polishes (or buffs) various metal objects to produce a smooth surface or a high luster. Uses a variety of portable polishers or buffers and/or holds objects against polishing and buffing wheels, straps, belts, and shafts on stationary machines. Work involves *most of the following*: Attaining a smooth surface and removing flaws and machine marks on a variety of objects involving the maintenance of contours, radii and uniformity of shape; polishing and/or buffing to close tolerances; selecting proper wheels, shafts, belts, abrasives, and polishing compounds; and setting up the equipment and maintaining wheels. In general, metal polishers and buffers in this classification are required to perform operations which involve a rounded knowledge of the trade, usually acquired through a formal apprenticeship or equivalent training and experience.

Polishing- and buffing-machine operator

Polishes (or buffs) metal objects to produce a smooth surface or high luster by holding objects against rapidly rotating wheels, belts, or straps on a stationary machine set up to achieve a *specialized* phase of polishing or buffing on a *repetitive* basis. Work involves *one of the following*: Setting up and operating machine where wheels and abrasive and polishing compounds are prescribed; polishing or buffing which involves the maintenance of contours, radii and uniformity of shape on machines set up by others. May select 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, aligning 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 supervisor, leadwork, 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 (See page 87.)

Setter-up, machine tools

Sets up machine tools (including numerically controlled 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 set-ups during course of operation to maintain accurate production.

Tool and die maker

(Die maker; mold makers; jig maker; toolmaker; fixture maker; gage maker)

Constructs and repairs machine-shop tools, gages, jigs, fixtures, or dies for forgings, punch 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 makers' handtools and precision measuring instruments; understanding the working properties of common metals and alloys; setting up and operating machine tools and related equipment; making necessary shop computations relating to dimensions of work, speeds, feeds, and tooling of machines; heat-treating of metal parts during fabrication as well as of finished tools and dies to achieve required qualities; working to close tolerances; fitting and assembling 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 distinction between "jobbing" and "other than jobbing" tool and die makers, see below.)

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 or maintaining dies and tools, die sets, jigs, and fixtures, etc., for use within the establishment, or both.

Tool clerk

(Store clerk; tool checker; tool crib attendant; tool handler; tool keeper)

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) (See page 87.)

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.

Class A

Performs welding operations requiring *most of the following*: Planning and laying 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; working from a variety of positions.

Class B

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 type or more 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 or more spots (spot welding) or linearly 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.

Class A

Work involves *most of the following*: Working from

lay-out 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; using such handtools as hammers, pliers, files, and wrenches.

Class B

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

Industry Wage Studies

The most recent reports providing occupational wage data for industries included in the Bureau's program of industry wage surveys since 1960 are listed below. Copies are for sale from the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402, or from any of its regional sales offices, and from the regional offices of the Bureau of Labor Statistics shown on the inside back cover. Copies that are out of stock are available for reference purposes at leading public, college, or university libraries, or at the Bureau's Washington, or regional offices.

Manufacturing

Basic Iron and Steel, 1972. BLS Bulletin 1839.
Candy and Other Confectionery Products, 1970.
BLS Bulletin 1732.
Cigar Manufacturing, 1972. BLS Bulletin 1796.
Cigarette Manufacturing, 1971. BLS Bulletin 1748.
Fabricated Structural Steel, 1969. BLS Bulletin 1695.
Fertilizer Manufacturing, 1971. BLS Bulletin 1763.
Flour and Other Grain Mill Products, 1972.
BLS Bulletin 1803.
Fluid Milk Industry, 1973. BLS Bulletin 1871.
Footwear, 1971. BLS Bulletin 1792.
Hosiery, 1973. BLS Bulletin 1863.
Industrial Chemicals, 1971. BLS Bulletin 1768.
Iron and Steel Foundries, Nov. 1973. BLS Bulletin 1894.
Leather Tanning and Finishing, 1973.
BLS Bulletin 1835.
Machinery Manufacturing, 1973. BLS Bulletin 1859.
Meat Products, 1974. BLS Bulletin 1896.
Men's and Boys' Separate Trousers, 1974.
BLS Bulletin 1906.
Men's and Boys' Shirts (Except Work Shirts) and
Nightwear, June 1974. Bulletin 1901.
Men's and Boys' Suits and Coats, 1973.
BLS Bulletin 1843.
Miscellaneous Plastics Products, 1974.
BLS Bulletin 1914.
Motor Vehicles and Parts, 1973-74. BLS Bulletin 1912.
Nonferrous Foundries, 1970. BLS Bulletin 1726.
Paints and Varnishes, 1970. BLS Bulletin 1739.
Paperboard Containers and Boxes, 1970.
BLS Bulletin 1719.
Petroleum Refining, 1971. BLS Bulletin 1741.
Pressed or Blown Glass and Glassware, 1975.
BLS Bulletin 1923.
Pulp, Paper, and Paperboard Mills, 1972.
BLS Bulletin 1844.

Manufacturing—Continued

Southern Sawmills and Planing Mills, 1969.
BLS Bulletin 1694.
Structural Clay Products, 1969. BLS Bulletin 1697.
Synthetic Fibers, 1970. BLS Bulletin 1740.
Textile Dyeing and Finishing, 1970. BLS Bulletin 1757.
Textiles, 1971. BLS Bulletin 1801.
West Coast Sawmilling, 1969. BLS Bulletin 1704.
Women's and Misses' Coats and Suits, 1970.
BLS Bulletin 1728.
Women's and Misses' Dresses, 1974.
BLS Bulletin 1908.
Wood Household Furniture, Except Upholstered, 1971.
BLS Bulletin 1793.
Work Clothing, 1972. BLS Bulletin 1858.

Nonmanufacturing

Appliance Repair Shops, 1972. BLS Bulletin 1838.
Auto Dealer Repair Shops, 1973. BLS Bulletin 1876.
Banking, 1973. BLS Bulletin 1854.
Bituminous Coal Mining, 1967. BLS Bulletin 1583.
Communications, 1974. BLS Bulletin 1909.
Contract Cleaning Services, 1974. BLS Bulletin 1916.
Crude Petroleum and Natural Gas Production, 1972.
BLS Bulletin 1797.
Department Stores, 1973. BLS Bulletin 1869.
Educational Institutions: Nonteaching Employees,
1968-69. BLS Bulletin 1671.
Electric and Gas Utilities, 1973. BLS Bulletin 1834.
Hospitals, 1972. BLS Bulletin 1829.
Laundry and Cleaning Services, 1968.
BLS Bulletin 1645¹.
Life Insurance, 1971. BLS Bulletin 1791.
Metal Mining, 1972. BLS Bulletin 1820.
Motion Picture Theaters, 1966. BLS Bulletin 1542¹.

Nursing Homes and Related Facilities, 1973.

BLS Bulletin 1855.

Scheduled Airlines, 1970. BLS Bulletin 1734.

Wages and Tips in Restaurants and Hotels, 1970.

BLS Bulletin 1712.

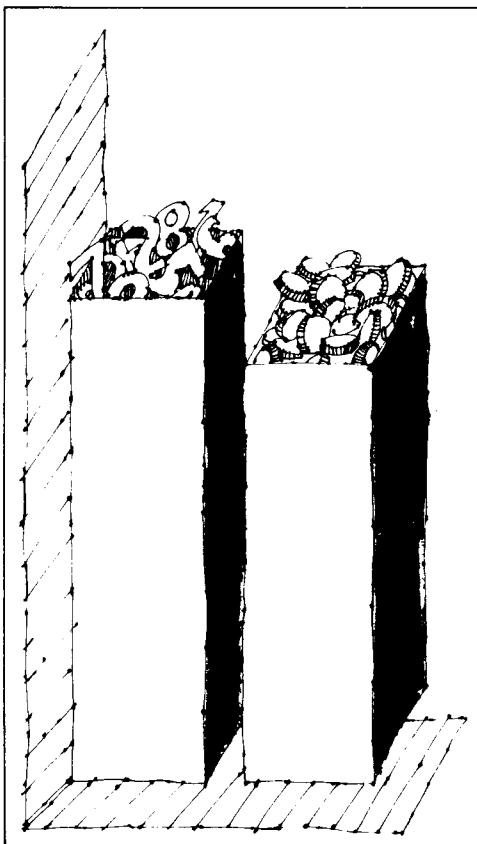
¹ Bulletin out of stock.

A NEW BLS HANDBOOK OF METHODS

For Surveys and Studies • 1976 Edition

Chapters contain a brief account of each major program and what it attempts to do, where the basic data come from, definition of terms and concepts. Sources of more information—some more popular, some more technical—are listed. Included are program descriptions for:

Labor force, employment, and unemployment
Labor turnover
Occupational employment statistics



Consumer expenditures and income
Consumer and wholesale prices
Occupational pay and supplementary benefits
Current wage developments
Union and association membership
Wage chronologies and salary trend reports
Productivity measures: Private sector
Output per employee hour measures: Industries and Federal Government
Occupational safety and health statistics
Economic growth studies
Employment cost index

Order Form

Mail to BLS Regional Office nearest you (See listing elsewhere) or Superintendent of Documents

Please send _____ copies of BLS Bulletin 1910, **Handbook of Methods**

for Surveys and Reports, 1976 Edition Stock No. 029-001-01936-0 at \$3.50 a copy
(25 percent discount for orders of 100 copies or more sent to one address)

Name _____

Firm or Organization _____

Street Address _____

City and State _____ Zip Code _____

For Prompt Shipment, Please Print or Type Address on Label Below, including your Zip Code

U.S. Government Printing Office
Superintendent of Documents
Washington, D.C. 20402

Official Business _____

Penalty for private use, \$300

Name _____

Firm or Organization _____

Street Address _____

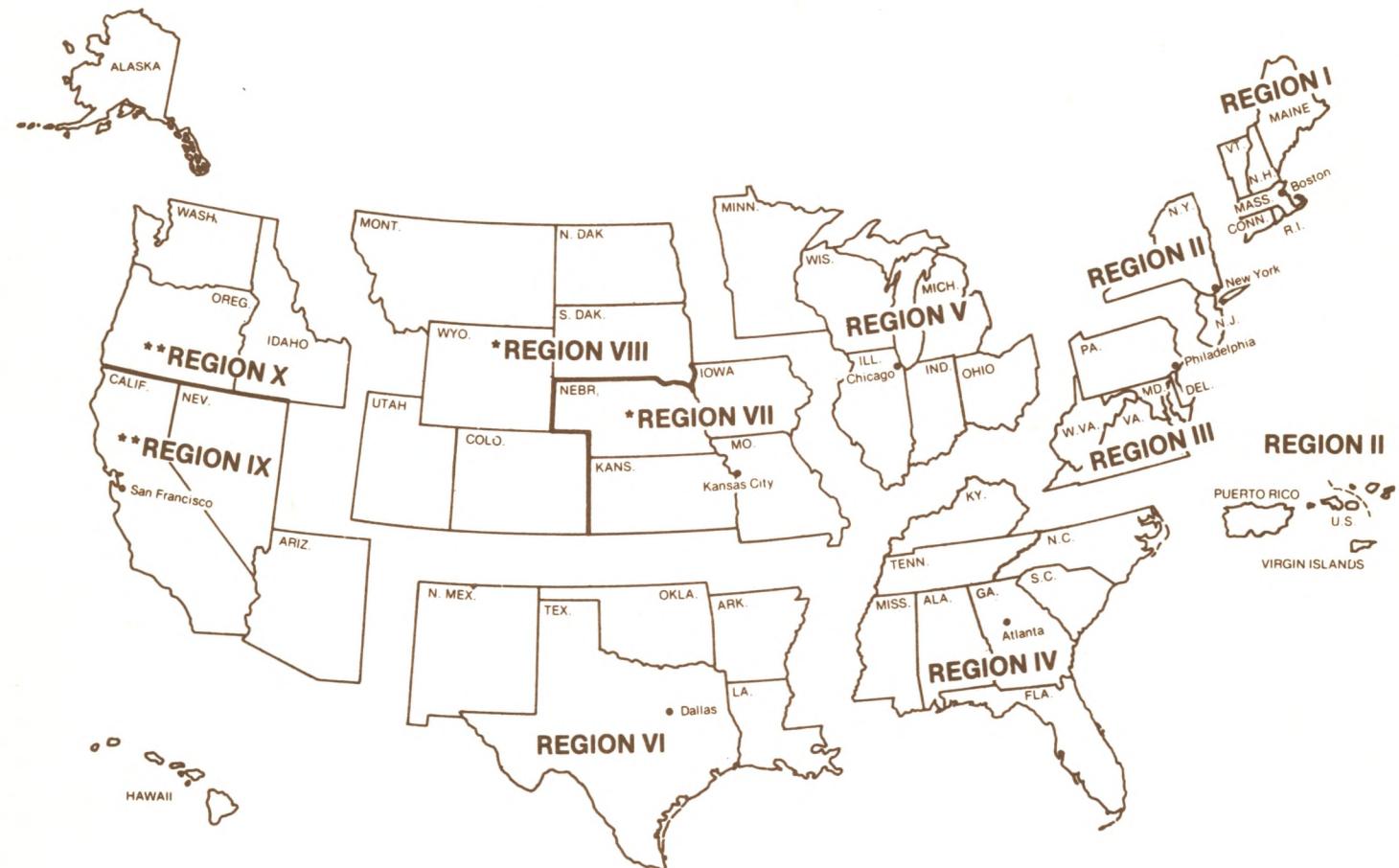
City and State _____ Zip Code _____

\$ _____ Remittance enclosed, (Make checks payable to Superintendent of Documents.)

Charge \$ _____ to my Deposit Account No. _____

Postage and Fees Paid
U.S. Government Printing Office
375
Special Fourth-Class Book Rate
Book

BUREAU OF LABOR STATISTICS REGIONAL OFFICES



Region I

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

Region II

Suite 3400
1515 Broadway
New York, N.Y. 10036
Phone: (212) 399-5405

Region III

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

Region IV

1371 Peachtree Street, NE.
Atlanta, Ga. 30309
Phone: (404) 526-5418

Region V

9th Floor
Federal Office Building
230 S. Dearborn Street
Chicago, Ill. 60604
Phone: (312) 353-1880

Region VI

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

Regions VII and VIII*

911 Walnut Street
Kansas City, Mo. 64106
Phone: (816) 374-2481

Regions IX and X**

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

*Regions VII and VIII are serviced by Kansas City

**Regions IX and X are serviced by San Francisco

U. S. Department of Labor
Bureau of Labor Statistics
Washington, D.C. 20212

Official Business
Penalty for private use, \$300

Postage and Fees Paid
U.S. Department of Labor

Third Class Mail

Lab-441

