

Industry Wage Survey: Iron and Steel Foundries, September 1979



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U.S. Department of Labor
Raymond J. Donovan, Secretary
Bureau of Labor Statistics
Janet L. Norwood, Commissioner
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Preface

This bulletin summarizes the results of a Bureau of Labor Statistics survey of wages and supplementary benefits in iron and steel foundries in September 1979. A similar survey was conducted in November 1973. Data are provided separately for four product branches: Gray iron, except pipe and fittings; gray iron pipe and fittings; malleable iron; and steel.

Separate releases were issued earlier for gray iron foundries, except pipe and fittings, for Chicago, Los Angeles-Long Beach, Pittsburgh, and St. Louis; gray iron pipe and fittings foundries for Alabama and Birmingham; and steel foundries for Los Angeles-Long Beach, Milwaukee, and Pittsburgh.

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

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

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Iron and Steel Foundries, September 1979

Earnings and benefits

Straight-time earnings of production and related workers in iron and steel foundries averaged \$7.16 an hour in September 1979 (table 1). Earnings of approximately 95 percent of the 177,371 workers covered by the survey¹ were between \$4 and \$11; the middle 50 percent fell between \$5.70 and \$8.68 (table 2).

The \$7.14 average represents an increase of 66 percent over earnings in a similar survey in 1973.² By comparison, the BLS Hourly Earnings Index for manufacturing rose 62 percent over the same 6-year span.

Among the four industry categories in the survey, September 1979 average earnings were \$7.32 for gray iron foundries, except pipe and fittings; \$6 for gray iron pipe and fittings; \$7.49 for malleable iron foundries; and \$7.01 for steel foundries (tables 4, 12, 17, and 21). These nationwide pay levels were greatly influenced by the regional distribution of the workers in each industry branch. For example, the Southeast, a relatively low-paying region, accounted for about three-fifths of the workers in pipe and fittings foundries, while the Great Lakes, the highest paying region surveyed, accounted for two-thirds of the work force in malleable iron and gray iron foundries, except pipe and fittings, and approximately two-fifths in steel foundries. No one foundry branch consistently surpassed the others in average pay levels within regions.

Average earnings for production workers were higher in metropolitan than in nonmetropolitan areas; higher in large establishments of 250 workers or more than in the smaller foundries; higher in union than in non-union establishments; and higher in captive than in commercial foundries.³ Pay advantages associated with these establishment characteristics, however, varied widely among industry branches. Workers in large foundries, for example, averaged 10 percent more than workers

¹ See appendix A for scope and method of survey and for definitions of terms used in this bulletin. Earnings data in this bulletin exclude premium pay for overtime and for work on weekends, holidays, and late shifts.

² For an account of the earlier study, see *Industry Wage Survey: Iron and Steel Foundries, November 1973*, Bulletin 1894 (Bureau of Labor Statistics, 1976).

³ Captive foundries produce castings for incorporation into a final product of a parent company while commercial foundries produce castings for sale to other firms on a job or order basis.

in pipe foundries with under 250 employees, and 31 percent more than workers in small gray iron foundries.

Nationwide averages among the 39 production occupations studied separately had a broad range—from \$10.17 an hour for metal patternmakers to \$6.25 for general foundry laborers (table 3). Chippers and grinders, the largest occupational group studied, averaged \$6.97. Together, the 39 classifications accounted for nearly two-thirds of the production work force.

Virtually all production workers were employed in foundries providing paid holidays (typically 9 to 13 days annually); paid vacations (1 to 6 weeks depending upon years of service); and at least part of the cost of life, hospitalization, surgical, and basic medical insurance (tables 33-35). Ninety-five percent of the workers also were covered by retirement pension plans.

A number of other worker benefits were common in foundries; for example, about nine-tenths of the workers had provisions for technological severance pay, jury-duty pay, and daily reporting pay (table 36).

Industry characteristics

Iron and steel foundries within the scope of the survey employed 177,371 production and related workers in September 1979—a decline of 4 percent from the 1973 level. Slightly over one-half of the 1979 work force were in the Great Lakes region and about one-tenth each in the Southeast and Middle Atlantic States. Four-fifths of the foundry workers were employed in metropolitan areas.

The foundries in this survey were engaged primarily in shaping iron and steel by the casting process. The casting process makes iron products by pouring molten iron or steel into hollow molds in which the metal cools and solidifies. There are two important methods of casting used in iron and steel foundries. Sand casting involves packing sand around a pattern constructed in the shape of the desired final product and filling it with molten metal. This was the predominant method in gray iron, except pipe and fittings (93,000 production workers); malleable iron (13,000 workers); and steel foundries (53,000 workers). Centrifugal casting, the pouring of molten metal into a spinning mold where centrifugal force distributes the metal against the cavity, was predominant in gray iron and fittings foundries (15,000 workers).

A substantial majority of the employees were in large foundries and in foundries having collective bargaining agreements covering a majority of the production workers. The principal unions in the industries were the United Steelworkers of America (AFL-CIO), United Automobile, Aerospace and Agricultural Implement Workers of America (Ind.); and the International Molders' and Allied Workers' Union (AFL-CIO).

About 4 in every 5 production workers were paid on a time-rated basis, typically under formal plans providing single rates for specified occupations.⁴ Incentive

workers were commonly paid individual piece rates (table 29).

Nearly two-fifths of the production workers in September 1979 were employed on late shifts; almost all shift workers received a pay differential for such work, usually from 10 to 30 cents an hour over day-shift rates (table 32).

⁴Stint work, a plan paying a fixed amount for a predetermined task regardless of the actual time required, has virtually vanished in this industry. Workers on this plan were considered on a time-rate system for purposes of this study.

Table 1. All foundries: Average hourly earnings by selected characteristics(Number and average straight-time hourly earnings¹ of production workers by selected characteristics, United States and regions, September 1979)

Characteristic	United States		New England		Middle Atlantic		Border States		Southeast		Southwest		Great Lakes		Middle West		Mountain		Pacific	
	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	Number of workers	Average hourly earnings	Number of workers	Average hourly earnings
All production workers	177,371	\$7.16	3,728	\$5.77	21,949	\$7.07	5,930	\$6.27	19,260	\$5.50	10,452	\$5.14	96,422	\$7.99	7,152	\$6.32	2,335	\$6.64	10,143	\$6.49
Size of community:																				
Metropolitan areas ²	140,580	7.30	-	-	-	-	4,407	6.28	13,664	5.81	7,593	5.03	73,695	8.15	-	-	2,335	6.64	10,143	6.49
Nonmetropolitan areas	36,791	6.63	472	5.07	1,102	5.47	-	-	5,596	4.72	2,859	5.44	22,727	7.48	2,512	5.56	-	-	-	-
Size of establishment:																				
50-249 workers	47,343	6.08	2,402	6.02	6,611	5.92	1,288	5.91	4,550	4.90	3,487	4.60	19,952	6.57	3,499	5.91	595	\$5.40	4,959	6.70
250 workers or more	130,028	7.56	1,326	5.33	15,338	7.57	4,642	6.37	14,710	5.68	6,965	5.41	76,470	8.36	-	-	1,740	7.06	5,184	6.30
Labor-management contract coverage:																				
Establishments with--																				
Majority of workers covered	147,922	7.46	2,034	6.07	20,445	7.19	5,801	6.30	13,091	5.48	3,414	5.61	89,023	8.13	5,573	\$6.29	1,447	6.93	7,094	6.75
None or minority of workers covered	29,449	5.66	1,694	5.42	1,504	5.41	-	-	6,169	5.52	7,038	4.92	7,399	6.30	1,579	6.39	-	-	3,049	5.89
Type of foundry ownership:																				
Commercial ³	126,305	6.50	3,606	5.79	16,871	6.73	5,930	6.27	18,546	5.49	10,131	5.10	52,742	7.13	7,152	6.32	1,529	6.82	9,798	6.55
Captive	51,066	8.81	-	-	5,078	8.22	-	-	-	-	-	-	43,680	9.03	-	-	-	-	-	-

¹ Excludes premium pay for overtime and for work on weekends, holidays, and late shifts.² Standard Metropolitan Statistical Areas as defined by the U.S. Office of Management and Budget through February 1974.³ For definition of commercial and captive foundries, see appendix A.

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

Table 2. Earnings distribution: All foundries

(Percent distribution of production workers, United States and regions, September 1979)

Hourly earnings	United States	New England	Middle Atlantic	Border States	Southeast	Southwest	Great Lakes	Middle West	Mountain	Pacific
Number of workers	177,371	3,728	21,949	5,930	19,260	10,452	96,422	7,152	2,335	10,143
Average hourly earnings ¹	\$7.16	\$5.77	\$7.07	\$6.27	\$5.50	\$5.14	\$7.99	\$6.32	\$6.64	\$6.49
Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Under \$3.40	1.3	1.5	.2	.1	2.7	7.8	(²)	(²)	.3	7.8
\$3.40 and under \$3.60 .....	.4	.3	.3	.1	.9	2.6	(²)	-	.1	1.2
\$3.60 and under \$3.80 .....	.7	1.1	.2	.3	2.8	4.2	(²)	.9	2.1	.7
\$3.80 and under \$4.00	1.0	1.7	.4	.5	5.1	3.5	.1	-	1.0	2.2
\$4.00 and under \$4.20	1.2	1.5	.6	.4	5.1	4.1	.1	3.0	.6	1.6
\$4.20 and under \$4.40	1.3	4.7	.9	.5	4.2	4.0	.3	2.7	.8	1.2
\$4.40 and under \$4.60	1.4	3.6	1.5	.5	2.4	6.5	.4	2.8	1.6	2.4
\$4.60 and under \$4.80	1.9	6.9	2.5	.3	3.7	8.2	.5	3.1	1.5	1.5
\$4.80 and under \$5.00	2.2	8.6	3.3	.6	5.3	5.1	.9	3.3	1.2	.8
\$5.00 and under \$5.20	3.0	6.6	4.1	1.2	5.8	8.8	1.3	5.5	2.1	3.1
\$5.20 and under \$5.40	4.1	8.6	4.5	6.3	8.6	6.3	2.5	6.2	1.0	3.0
\$5.40 and under \$5.60	4.1	6.8	4.5	2.4	4.8	8.1	3.2	8.8	9.2	1.5
\$5.60 and under \$5.80	4.7	4.3	5.3	18.1	9.1	4.4	2.5	9.1	9.0	3.9
\$5.80 and under \$6.00	4.3	5.5	4.9	10.2	9.4	3.1	2.9	4.6	12.2	2.2
\$6.00 and under \$6.20	4.3	6.0	6.5	17.6	5.1	3.6	2.4	8.6	5.8	4.3
\$6.20 and under \$6.40	3.4	8.3	3.0	8.0	5.0	4.6	2.5	5.9	3.9	3.0
\$6.40 and under \$6.60	3.3	3.3	4.4	5.0	2.3	3.4	2.9	5.5	4.5	3.1
\$6.60 and under \$6.80	3.8	4.9	4.9	4.2	3.8	2.3	3.4	4.3	4.5	5.3
\$6.80 and under \$7.00	4.0	2.8	3.8	3.3	3.3	2.5	4.2	3.4	2.4	6.0
\$7.00 and under \$7.20	3.2	1.9	4.2	4.4	3.9	1.6	2.8	2.6	2.2	4.8
\$7.20 and under \$7.40	3.4	1.3	4.8	3.0	2.1	1.2	2.9	2.5	4.5	11.7
\$7.40 and under \$7.60	2.7	1.3	3.7	5.1	.9	.4	2.5	2.2	6.0	6.5
\$7.60 and under \$7.80	2.4	1.4	3.3	2.7	.7	1.0	2.6	1.7	2.7	2.6
\$7.80 and under \$8.00	2.3	.8	2.1	1.5	.2	.9	3.3	1.1	2.1	1.1
\$8.00 and under \$8.20	2.4	1.4	3.1	1.0	2.1	.7	2.5	1.2	3.0	4.3
\$8.20 and under \$8.40	1.8	.6	2.2	1.1	.1	.3	2.4	.7	2.2	.8
\$8.40 and under \$8.60	3.2	.6	1.8	.5	.1	.1	4.9	.9	3.5	2.8
\$8.60 and under \$8.80	9.0	.5	2.1	.5	.1	.1	15.4	.9	.8	4.7
\$8.80 and under \$9.00	5.7	.6	1.0	.4	(²)	.1	9.8	.5	1.4	2.9
\$9.00 and under \$9.20	2.3	.3	1.5	.1	(²)	.2	3.7	.7	1.0	.6
\$9.20 and under \$9.40	1.4	.2	.8	.1	.1	(²)	2.2	.5	1.9	.7
\$9.40 and under \$9.60 .....	.7	.2	1.0	-	(²)	(²)	.9	.3	2.1	.2
\$9.60 and under \$9.80 .....	.9	.1	.8	.1	(²)	(²)	1.4	.6	.4	.1
\$9.80 and under \$10.00 .....	.6	.1	1.7	-	.1	(²)	.6	1.0	.6	.1
\$10.00 and over	7.9	1.8	10.0	.1	.2	.2	³ 11.6	4.8	2.1	1.3

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

² Less than 0.05 percent.

³ Workers were distributed as follows: 3.0 percent at \$10 to \$10.40;

5.6 percent at \$10.40 to \$10.80; and 3.1 percent at \$10.80 and over.

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

Table 3. All foundries: Occupational averages

(Number of workers and average straight-time hourly earnings in selected occupations, United States and regions, September 1979)

Occupation	United States					New England					Middle Atlantic				
	Number of workers	Hourly earnings ¹			Number of workers	Hourly earnings ¹			Number of workers	Hourly earnings ¹					
		Mean	Median	Middle range		Mean	Median	Middle range		Mean	Median	Middle range			
Air-set operators	762	\$6.78	\$6.46	\$5.71 - \$7.87	-	-	-	-	44	\$6.16	\$7.01	\$4.97 - \$7.23			
Arc-air scarfers	609	7.13	7.06	5.97 - 7.68	-	-	-	-	109	7.25	6.84	5.73 - 8.59			
Carpenters, maintenance	335	7.90	8.01	6.49 - 9.42	14	\$6.16	-	-	69	7.84	8.07	6.44 - 9.94			
Centrifugal-casting-machine operators, pipe	261	6.95	6.87	6.23 - 7.49	-	-	-	-	88	7.24	7.24	6.70 - 7.66			
Metal molds	215	7.06	7.01	6.44 - 7.68	-	-	-	-	68	7.43	7.47	6.79 - 7.85			
Sand-lined molds	46	6.45	6.47	6.06 - 6.68	-	-	-	-	-	-	-	-			
Charging-machine operators	555	6.88	6.67	5.40 - 8.76	-	-	-	-	57	5.98	6.11	5.55 - 6.67			
Chippers and grinders	19,009	6.97	6.71	5.47 - 8.67	416	5.89	\$5.58	\$5.03 - \$6.40	2,553	6.84	6.14	5.39 - 7.72			
Chippers	3,040	7.68	8.31	6.15 - 8.76	69	5.61	5.40	4.95 - 6.31	613	8.12	7.71	6.86 - 9.72			
Grinders	6,661	6.57	6.10	5.35 - 7.87	219	5.88	5.49	4.75 - 6.42	920	6.42	5.65	5.20 - 7.15			
Chippers and grinders	9,308	7.01	6.75	5.53 - 8.67	128	6.08	6.08	5.04 - 6.31	1,020	6.45	5.90	5.28 - 7.13			
Core assemblers and finishers	4,548	7.80	8.67	6.72 - 8.76	28	5.38	4.95	4.64 - 6.17	267	6.10	5.81	5.09 - 6.74			
Coremakers, hand	2,702	7.17	6.81	6.12 - 8.44	109	6.69	6.37	5.45 - 6.81	529	7.03	6.77	6.15 - 7.56			
Bench	1,400	7.09	6.96	5.90 - 8.55	68	6.07	6.17	5.17 - 6.71	222	7.03	6.91	6.15 - 7.56			
Floor	443	7.65	7.28	6.40 - 8.92	17	6.29	6.37	6.37 - 6.37	135	7.77	6.48	6.40 - 9.05			
Bench and floor	859	7.06	6.64	6.24 - 7.82	-	-	-	-	172	6.47	6.41	5.48 - 6.81			
Coremakers, machine ²	2,636	7.38	7.33	5.84 - 8.76	29	5.96	5.84	5.60 - 6.43	324	8.08	7.33	6.13 - 10.02			
Core-blowing machine	1,578	7.07	6.86	5.79 - 8.64	23	5.99	5.84	5.84 - 6.43	198	7.59	7.33	6.31 - 9.00			
Turn-over-draw machine	324	7.40	7.45	5.89 - 8.84	6	5.84	-	-	40	8.70	10.02	7.03 - 10.02			
Crane operators, electric bridge	3,369	7.24	7.12	6.15 - 8.33	30	5.97	6.08	5.55 - 6.08	810	7.56	7.42	6.19 - 8.55			
Under 20 tons	1,917	6.97	6.88	6.15 - 7.73	25	5.95	6.08	5.51 - 6.08	298	7.11	7.31	6.19 - 7.61			
20 tons and over	1,452	7.60	7.55	6.17 - 8.91	-	-	-	-	512	7.82	7.83	6.19 - 8.81			
Cupola tenders	770	6.80	6.56	5.85 - 7.89	46	5.79	5.96	5.16 - 6.33	80	6.27	6.08	5.52 - 6.67			
Electricians, maintenance	2,754	8.91	9.24	7.54 - 10.59	8	7.33	-	-	315	8.36	8.35	7.23 - 9.79			
Furnace tenders, electric	1,820	7.29	7.13	6.16 - 8.55	15	6.71	6.65	6.65 - 6.90	242	7.08	6.66	5.95 - 7.94			
Furnace tenders' helpers	939	6.55	6.25	5.52 - 7.74	-	-	-	-	125	6.61	6.00	5.43 - 7.71			
Helpers, trades, maintenance	913	6.70	6.31	5.50 - 8.30	8	4.99	-	-	55	7.23	6.94	6.85 - 8.50			
Inspectors, class A	794	7.52	7.31	6.16 - 8.46	17	6.83	6.82	6.48 - 6.82	105	7.34	7.09	5.81 - 8.67			
Inspectors, class B	2,107	7.23	6.83	6.10 - 8.67	27	5.90	5.95	5.53 - 6.34	250	6.45	6.36	5.34 - 7.40			
Inspectors, class C	3,018	6.76	6.31	5.43 - 8.67	74	4.93	4.93	4.44 - 5.37	341	5.88	5.35	5.25 - 6.63			
Laborers, general foundry	14,285	6.25	5.85	5.09 - 7.92	231	5.30	5.36	4.75 - 5.83	1,740	5.82	5.52	4.93 - 6.58			
Laborers, material handling	1,826	6.74	6.75	5.23 - 8.50	56	5.52	5.61	4.92 - 6.20	287	7.71	7.54	6.19 - 9.95			
Machinists, maintenance	969	8.19	8.02	6.82 - 9.15	6	6.25	-	-	201	8.84	8.14	6.77 - 11.89			
Mechanics, general	2,343	7.36	7.34	6.50 - 7.91	71	6.26	6.30	5.81 - 6.54	309	7.04	7.09	6.30 - 7.66			
Mechanics, maintenance	4,922	8.08	7.70	6.64 - 9.39	16	6.82	6.45	6.10 - 7.34	464	7.40	7.20	6.13 - 8.74			
Molders, floor	2,475	7.32	6.99	6.40 - 8.47	107	6.99	6.63	5.87 - 7.28	610	7.45	7.18	6.40 - 8.36			
Molders, hand, bench	723	7.74	8.09	6.25 - 8.80	31	8.02	6.71	5.24 - 9.83	170	8.90	7.49	6.33 - 13.87			
Molders, machine, automatic	1,807	7.10	6.74	5.88 - 8.53	14	6.30	-	-	186	6.16	6.17	5.80 - 6.29			
Molders, machine, semi-automatic	5,255	7.31	7.13	5.92 - 8.77	209	7.60	7.45	6.70 - 8.61	776	6.88	6.62	5.48 - 7.92			
Jarring	391	7.97	8.19	6.74 - 8.81	-	-	-	-	-	-	-	-			
Roll-over	1,206	7.37	7.20	5.94 - 8.60	69	7.75	7.70	6.96 - 8.26	263	6.61	6.16	5.28 - 6.92			
Squeeze	2,685	7.02	6.65	5.70 - 8.11	137	7.56	7.35	6.55 - 8.91	319	6.81	6.76	5.48 - 7.94			
Other (single) machine	298	7.54	7.50	6.69 - 8.48	-	-	-	-	104	7.84	7.45	6.77 - 9.01			
Combination (operates more than one type of machine)	675	7.88	8.85	5.98 - 8.96	-	-	-	-	55	7.21	7.11	6.31 - 8.55			
Patternmakers, metal	1,324	10.17	11.35	8.64 - 11.40	11	6.51	-	-	101	8.96	8.77	8.08 - 11.03			
Patternmakers, wood	916	8.83	9.04	7.06 - 10.10	6	7.72	-	-	177	8.00	8.29	6.77 - 9.05			
Pourers, metal	4,806	6.99	6.88	5.55 - 8.77	128	5.94	6.22	5.44 - 6.27	454	6.96	6.41	5.72 - 8.14			

See footnotes at end of table.

Table 3. All foundries: Occupational averages—Continued

(Number of workers and average straight-time hourly earnings in selected occupations, United States and regions, September 1979)

Occupation	United States					New England					Middle Atlantic				
	Number of workers	Hourly earnings ¹			Number of workers	Hourly earnings ¹			Number of workers	Hourly earnings ¹					
		Mean	Median	Middle range		Mean	Median	Middle range		Mean	Median	Middle range			
Repairers, wood patterns	564	\$6.57	\$6.24	\$5.46 - \$7.40	17	\$5.52	\$5.45	\$5.26 - \$5.80	57	\$5.95	\$5.81	\$5.67 - \$6.21			
Sand- or shot-blast operators	1,657	6.82	6.45	5.47 - 8.63	19	5.48	4.94	4.94 - 6.20	230	6.81	6.11	5.08 - 8.29			
Sand-slinger operators	514	7.26	6.80	6.00 - 8.60	-	-	-	-	93	8.18	7.56	6.12 - 10.30			
Sand mixers	1,795	6.59	6.13	5.47 - 7.78	28	5.80	5.92	5.36 - 6.25	223	6.36	5.83	5.28 - 7.12			
Shakeout workers	4,647	6.65	6.43	5.34 - 8.50	113	5.54	5.67	4.60 - 6.33	720	6.42	6.04	5.29 - 7.39			
Shell-mold and/or shell-core machine operators	2,698	6.89	6.76	5.65 - 8.68	74	5.80	5.66	5.42 - 6.21	199	6.42	6.21	5.02 - 7.47			
Truckers, power	5,321	6.88	6.56	5.70 - 8.65	37	5.19	5.07	4.90 - 5.43	517	6.53	6.33	5.39 - 7.39			
Forklift	4,705	6.91	6.76	5.70 - 8.65	17	5.17	5.25	4.85 - 5.40	375	6.15	5.83	5.15 - 6.86			
Other than forklift	616	6.59	6.17	5.49 - 7.50	20	5.21	4.95	4.94 - 5.45	142	7.53	7.19	6.23 - 9.59			
Tumbler operators	630	7.16	7.21	5.45 - 8.59	9	5.68	-	-	65	7.22	7.33	5.91 - 8.05			
Welders, hand ²	3,382	7.36	7.30	6.09 - 8.20	57	6.23	5.90	5.49 - 7.33	600	7.52	7.11	6.33 - 8.19			
Assemblers	635	7.56	7.38	6.45 - 8.65	-	-	-	-	185	7.97	7.22	7.04 - 8.82			
Repairers	1,597	7.27	7.03	6.01 - 8.32	18	5.40	5.49	5.15 - 5.79	288	7.57	7.60	6.56 - 8.16			
	Border States					Southeast					Southwest				
	Number of workers	Hourly earnings ¹			Number of workers	Hourly earnings ¹			Number of workers	Hourly earnings ¹					
		Mean	Median	Middle range		Mean	Median	Middle range		Mean	Median	Middle range			
Air-set operators	-	-	-	-	57	\$5.94	\$6.64	\$5.86 - \$6.64	59	\$5.47	\$5.81	\$5.04 - \$5.81			
Arc-air scarfers	-	-	-	-	25	5.40	5.32	4.99 - 5.91	58	5.81	5.81	5.49 - 6.05			
Carpenters, maintenance	-	-	-	-	42	6.88	6.64	6.31 - 8.02	-	-	-	-			
Centrifugal-casting-machine operators, pipe	-	-	-	-	99	6.43	6.23	5.91 - 6.87	-	-	-	-			
Metal molds	-	-	-	-	77	6.47	6.23	5.91 - 6.90	-	-	-	-			
Sand-lined molds	-	-	-	-	22	6.30	6.31	5.91 - 6.61	-	-	-	-			
Charging-machine operators	8	\$5.99	-	-	72	4.95	5.02	4.51 - 5.49	-	-	-	-			
Chippers and grinders	983	6.23	\$6.07	\$5.78 - \$6.38	1,681	4.84	4.87	4.07 - 5.78	1,252	4.90	4.98	4.00 - 5.58			
Chippers	42	6.00	6.16	5.10 - 6.16	104	3.97	3.80	3.25 - 4.38	-	-	-	-			
Grinders	-	-	-	-	802	4.79	4.89	4.02 - 5.47	428	5.09	4.98	4.20 - 6.14			
Chippers and grinders	417	6.56	6.15	6.07 - 7.14	775	5.00	5.54	4.12 - 5.78	679	4.75	4.89	3.80 - 5.55			
Core assemblers and finishers	85	6.00	6.02	4.90 - 7.41	38	4.62	4.55	3.78 - 5.12	165	4.87	4.35	4.35 - 5.08			
Coremakers, hand	106	6.32	5.98	5.75 - 6.82	217	5.73	5.74	4.72 - 6.67	202	5.25	5.76	3.95 - 6.49			
Bench	40	6.25	6.18	5.66 - 6.89	104	4.82	4.78	3.60 - 5.51	88	4.91	5.48	4.00 - 5.76			
Floor	9	5.99	-	-	42	5.95	5.72	5.00 - 6.72	-	-	-	-			
Bench and floor	57	6.42	5.98	5.80 - 6.77	71	6.94	6.64	6.52 - 6.86	109	5.44	6.17	3.65 - 6.49			
Coremakers, machine ²	111	6.46	6.34	6.13 - 6.75	262	5.39	5.35	4.75 - 5.83	239	5.27	5.19	4.69 - 5.69			
Core-blowing machine	-	-	-	-	166	5.45	5.49	4.75 - 5.83	198	5.34	5.19	4.69 - 5.76			
Turn-over-draw machine	-	-	-	-	25	5.28	4.28	2.90 - 8.02	-	-	-	-			
Crane operators, electric bridge	83	6.12	6.25	5.82 - 6.35	316	6.15	6.18	5.95 - 6.80	161	5.52	5.56	5.10 - 6.01			
Under 20 tons	55	6.11	6.25	5.82 - 6.46	257	6.28	6.18	6.03 - 6.80	152	5.51	5.56	5.07 - 6.01			
20 tons and over	-	-	-	-	59	5.58	5.38	4.56 - 6.28	-	-	-	-			
Cupola tenders	30	5.61	5.76	5.17 - 6.18	62	5.61	5.67	5.30 - 5.93	-	-	-	-			
Electricians, maintenance	51	7.59	7.57	7.57 - 7.57	291	7.03	7.14	6.50 - 7.54	113	6.86	6.66	6.29 - 7.39			
Furnace tenders, electric	33	6.57	6.62	6.00 - 6.80	156	5.67	5.66	4.96 - 6.51	111	6.08	6.10	5.50 - 6.69			
Furnace tenders' helpers	-	-	-	-	80	5.14	5.52	4.15 - 5.79	122	4.98	4.98	4.45 - 5.42			

See footnotes at end of table.

Table 3. All foundries: Occupational averages—Continued

(Number of workers and average straight-time hourly earnings in selected occupations, United States and regions, September 1979)

Occupation	Border States				Southeast				Southwest			
	Number of workers	Hourly earnings ¹			Number of workers	Hourly earnings ¹			Number of workers	Hourly earnings ¹		
		Mean	Median	Middle range		Mean	Median	Middle range		Mean	Median	Middle range
Helpers, trades, maintenance	-	-	-	-	70	\$5.28	\$5.54	\$4.73 - \$5.88	66	\$4.29	\$4.28	\$3.81 - \$4.62
Inspectors, class A	-	-	-	-	27	6.58	6.55	5.70 - 7.18	113	5.84	5.66	5.58 - 5.93
Inspectors, class B	43	\$6.62	\$6.83	\$6.34 - \$6.83	200	5.42	5.22	5.01 - 5.89	57	5.39	5.47	4.56 - 6.10
Inspectors, class C	48	6.06	6.03	6.03 - 6.16	424	5.48	5.38	4.92 - 6.18	69	4.59	4.85	3.55 - 5.19
Laborers, general foundry	734	5.52	5.71	5.34 - 5.71	1,724	4.75	4.83	3.88 - 5.71	1,051	4.12	4.10	3.65 - 4.79
Laborers, material handling	-	-	-	-	359	5.25	5.23	5.09 - 5.76	166	4.08	3.96	3.80 - 4.16
Machinists, maintenance	-	-	-	-	241	6.80	6.82	6.39 - 7.10	-	-	-	-
Mechanics, general	-	-	-	-	220	6.55	6.67	5.83 - 7.14	129	6.41	6.61	6.10 - 7.11
Mechanics, maintenance	80	7.24	7.02	7.02 - 7.32	615	6.65	6.82	6.36 - 7.10	327	6.35	6.29	6.22 - 6.66
Molders, floor	52	6.57	6.62	5.90 - 7.39	204	6.16	5.95	5.35 - 6.80	133	4.79	4.65	3.35 - 5.80
Molders, machine, automatic	17	5.91	6.47	5.05 - 6.47	341	5.66	5.48	5.08 - 6.25	100	6.06	5.91	5.28 - 6.72
Molders, machine, semi-automatic	108	7.28	7.55	6.43 - 8.30	873	5.96	5.83	5.33 - 6.54	312	5.39	5.58	4.00 - 6.34
Jarring	-	-	-	-	27	7.54	8.02	6.95 - 8.23	79	6.78	6.72	5.58 - 7.64
Roll-over	20	7.18	7.56	6.75 - 7.91	116	6.44	6.21	5.39 - 7.26	69	5.10	4.60	4.00 - 5.76
Squeeze	17	5.86	6.03	5.35 - 6.24	584	5.81	5.48	4.97 - 6.64	130	4.96	5.10	3.60 - 5.76
Other (single) machine	-	-	-	-	13	5.69	-	-	-	-	-	-
Patternmakers, metal	-	-	-	-	66	6.70	6.94	6.28 - 6.94	34	7.60	7.60	6.88 - 7.89
Patternmakers, wood	32	7.00	7.11	6.85 - 7.81	89	6.79	6.59	5.73 - 7.88	48	7.53	7.85	6.47 - 8.70
Pourers, metal	112	6.17	6.13	6.13 - 6.34	639	5.05	4.98	4.25 - 5.85	274	5.24	5.19	4.30 - 6.09
Repairers, wood patterns	-	-	-	-	31	6.77	6.66	6.31 - 7.89	65	5.76	5.46	5.46 - 6.30
Sand- or shot-blast operators	23	5.78	5.82	5.80 - 6.16	141	4.84	5.24	3.80 - 5.78	67	4.96	5.09	4.63 - 5.53
Sand-slinger operators	-	-	-	-	10	6.32	-	-	57	4.99	5.31	3.75 - 5.56
Sand mixers	54	5.81	5.93	5.72 - 5.93	192	5.08	5.26	4.25 - 5.93	89	5.07	5.19	4.87 - 5.50
Shakeout workers	79	5.74	5.66	5.46 - 6.05	473	4.90	5.15	3.90 - 5.84	212	4.56	4.62	3.45 - 5.37
Shell-mold and/or shell-core machine operators	118	7.06	7.14	6.66 - 7.51	319	4.95	5.00	3.91 - 5.82	192	5.02	5.19	4.53 - 5.54
Truckers, power	230	5.88	6.07	5.72 - 6.07	553	5.28	5.41	4.84 - 5.96	338	4.84	4.98	4.35 - 5.19
Forklift	228	5.89	6.07	5.72 - 6.07	447	5.29	5.41	4.84 - 5.96	308	4.82	4.79	4.35 - 5.19
Other than forklift	-	-	-	-	106	5.26	5.27	4.71 - 5.96	30	5.03	5.09	4.76 - 5.17
Tumbler operators	13	6.20	-	-	55	4.36	4.12	3.95 - 5.29	31	4.85	5.03	4.62 - 5.03
Welders, hand ²	27	6.67	6.75	6.29 - 7.22	199	6.29	6.64	5.89 - 6.89	401	5.94	5.77	5.40 - 6.41
Repairers	21	6.77	7.22	6.46 - 7.22	101	6.12	6.64	5.91 - 6.64	257	6.38	6.13	5.56 - 6.90

See footnotes at end of table.

Table 3. All foundries: Occupational averages—Continued

(Number of workers and average straight-time hourly earnings in selected occupations, United States and regions, September 1979)

Occupation	Great Lakes				Middle West				Mountain				Pacific			
	Number of workers	Hourly earnings ¹			Number of workers	Hourly earnings ¹			Number of workers	Hourly earnings ¹			Number of workers	Hourly earnings ¹		
		Mean	Median	Middle range		Mean	Median	Middle range		Mean	Median	Middle range		Mean	Median	Middle range
Air-set operators	513	\$7.12	\$6.78	\$5.79 - \$8.33	32	\$6.05	\$6.11	\$5.42 - \$6.45	-	-	-	-	31	\$7.81	\$8.86	\$6.37 - \$9.01
Arc-air scarfers	242	7.67	7.53	6.23 - 8.95	48	6.77	6.26	5.71 - 7.15	-	-	-	-	111	7.20	7.48	6.80 - 7.66
Carpenters, maintenance	165	8.62	8.99	7.96 - 9.75	6	7.41	-	-	-	-	-	-	13	7.72	-	-
Centrifugal-casting-machine operators, pipe	-	-	-	-	-	-	-	-	-	-	-	-	34	6.88	7.32	6.64 - 7.43
Metal molds	-	-	-	-	-	-	-	-	-	-	-	-	30	6.92	7.42	7.18 - 7.43
Charging-machine operators	333	7.83	8.76	6.99 - 8.76	21	6.10	5.47	5.47 - 6.55	-	-	-	-	16	5.67	5.48	5.36 - 6.02
Chippers and grinders	9,802	7.90	8.62	6.28 - 8.76	738	6.39	5.60	4.95 - 6.87	231	\$5.85	\$5.85	\$5.70 - \$5.97	1,353	6.37	7.10	5.63 - 7.27
Chippers	1,730	8.23	8.67	7.90 - 8.87	135	7.58	6.17	5.60 - 8.03	-	-	-	-	202	6.65	7.27	5.43 - 7.27
Grinders	2,752	7.64	8.24	5.89 - 8.76	309	6.90	6.15	5.25 - 7.41	-	-	-	-	698	6.02	6.60	4.52 - 7.26
Chippers and grinders	5,320	7.92	8.42	6.28 - 8.73	294	5.32	5.05	4.62 - 6.17	222	5.92	5.85	5.70 - 5.97	453	6.79	7.23	5.70 - 7.29
Core assemblers and finishers	3,791	8.20	8.67	8.45 - 8.76	111	6.05	5.47	4.95 - 6.75	-	-	-	-	30	7.23	6.59	6.33 - 8.90
Coremakers, hand	1,053	7.90	7.74	6.46 - 9.09	171	7.56	7.12	6.31 - 8.86	51	6.83	6.50	6.14 - 7.30	264	7.56	8.09	6.55 - 8.63
Bench	638	7.77	7.55	6.52 - 9.00	100	7.28	6.85	5.97 - 8.71	20	6.97	6.64	5.97 - 7.31	120	7.95	8.63	6.96 - 8.65
Floor	164	8.06	7.94	6.64 - 9.10	30	8.75	8.86	8.37 - 8.86	-	-	-	-	28	7.80	8.09	6.65 - 8.63
Bench and floor	251	8.15	7.82	6.26 - 9.26	41	7.38	7.12	6.63 - 7.81	18	6.56	6.48	6.48 - 6.61	116	7.10	6.55	6.33 - 8.54
Coremakers, machine ²	1,376	8.15	8.67	7.33 - 8.79	145	6.48	6.14	5.43 - 6.91	-	-	-	-	98	8.02	8.09	8.09 - 8.63
Core-blowing machine	717	7.94	8.02	6.86 - 8.79	121	6.66	6.18	5.58 - 7.03	-	-	-	-	60	7.93	8.63	7.25 - 8.63
Turn-over-draw machine	107	8.67	8.84	7.10 - 10.23	20	5.35	5.05	4.65 - 6.04	-	-	-	-	-	-	-	-
Crane operators, electric bridge	1,582	7.66	7.73	6.88 - 8.91	160	6.45	6.17	5.56 - 6.58	42	6.83	6.25	6.25 - 7.11	185	7.09	7.28	7.23 - 7.33
Under 20 tons	869	7.47	7.52	6.71 - 8.34	90	6.82	6.36	5.65 - 6.72	39	6.88	6.25	6.25 - 7.28	132	7.10	7.28	7.28 - 7.32
20 tons and over	713	7.90	8.47	7.38 - 8.92	70	5.97	6.14	5.56 - 6.42	-	-	-	-	53	7.05	7.23	7.23 - 7.33
Cupola tenders	434	7.57	7.22	6.47 - 9.07	30	7.05	6.99	5.69 - 8.21	-	-	-	-	43	6.23	6.46	5.08 - 7.32
Electricians, maintenance	1,797	9.59	10.59	8.96 - 10.65	91	7.25	7.05	6.16 - 7.77	36	8.54	8.04	8.04 - 9.57	52	8.65	8.99	7.89 - 9.24
Furnace tenders, electric	948	7.85	8.11	6.66 - 9.07	73	6.92	6.41	6.08 - 7.45	52	7.09	7.74	6.65 - 7.74	190	7.18	7.59	6.68 - 8.09
Furnace tenders' helpers	440	7.41	7.59	6.35 - 8.31	45	6.40	5.88	5.40 - 6.56	-	-	-	-	74	5.98	6.73	4.29 - 7.26
Helpers, trades, maintenance	585	7.23	7.53	5.68 - 8.81	-	-	-	-	17	6.48	6.21	5.45 - 8.04	43	5.97	6.24	5.02 - 6.80
Inspectors, class A	401	8.10	7.63	7.22 - 9.37	27	6.82	7.10	6.81 - 7.10	-	-	-	-	79	8.19	8.09	7.34 - 8.19
Inspectors, class B	1,415	7.71	7.44	6.74 - 8.83	66	7.61	6.51	6.11 - 9.10	-	-	-	-	45	7.69	7.30	6.84 - 7.59
Inspectors, class C	1,820	7.54	8.59	5.88 - 8.67	124	5.64	5.70	5.02 - 6.15	-	-	-	-	111	5.72	5.82	4.50 - 7.44
Laborers, general foundry	7,477	7.18	7.74	5.96 - 8.50	357	5.79	5.70	5.29 - 6.24	-	-	-	-	821	5.89	6.73	5.09 - 6.80
Laborers, material handling	880	7.66	7.98	6.90 - 8.68	36	6.61	5.70	5.26 - 8.09	-	-	-	-	22	6.56	6.75	6.27 - 6.75
Machinists, maintenance	385	8.99	9.04	8.78 - 9.89	-	-	-	-	31	8.50	8.47	8.04 - 8.47	18	7.90	8.17	7.40 - 8.59
Mechanics, general	1,194	7.78	7.71	6.79 - 8.99	97	6.25	6.15	5.65 - 6.73	12	6.69	-	-	83	8.37	8.54	7.69 - 8.94
Mechanics, maintenance	2,835	8.85	9.31	7.40 - 10.57	218	7.22	6.64	6.26 - 7.54	115	7.66	7.46	7.46 - 8.10	252	7.64	7.55	6.66 - 8.54
Molders, floor	900	7.76	7.62	6.54 - 8.74	141	7.62	7.09	6.64 - 7.95	66	6.83	6.65	6.50 - 7.31	262	7.97	8.54	6.70 - 8.63
Molders, hand, bench	333	8.47	8.79	8.10 - 8.80	21	6.82	6.35	5.64 - 7.03	-	-	-	-	45	6.06	6.05	3.70 - 8.63
Molders, machine, automatic	917	7.79	7.91	6.64 - 9.01	-	-	-	-	-	-	-	-	76	8.06	8.54	7.66 - 9.00
Molders, machine, semi-automatic	2,334	8.16	8.34	6.79 - 9.08	266	7.03	6.73	5.99 - 7.71	41	7.53	6.60	5.96 - 9.03	336	7.71	8.09	6.74 - 8.64
Jarring	215	8.72	8.70	8.03 - 9.22	-	-	-	-	-	-	-	-	-	-	-	-
Roll-over	569	8.06	7.92	6.74 - 9.34	56	7.39	7.41	6.13 - 7.60	-	-	-	-	-	-	-	-
Squeeze	1,089	7.83	7.75	6.25 - 9.08	157	6.83	6.41	5.92 - 7.71	31	7.84	7.20	5.96 - 10.00	221	7.51	7.40	6.38 - 8.76
Other (single) machine	93	8.46	8.39	7.77 - 9.04	-	-	-	-	-	-	-	-	28	6.66	6.74	6.15 - 6.90
Combination (operates more than one type of machine)	-	-	-	-	-	-	-	-	-	-	-	-	22	8.46	8.54	7.42 - 8.65
Patternmakers, metal	1,051	10.70	11.39	9.43 - 11.40	12	6.19	-	-	-	-	-	-	-	-	-	-
Patternmakers, wood	446	9.88	9.51	9.21 - 11.40	57	7.22	6.89	6.11 - 7.61	16	8.47	9.25	8.10 - 9.25	45	10.75	11.63	9.00 - 11.63
Pourers, metal	2,766	7.86	7.71	6.86 - 9.00	230	5.78	5.50	5.14 - 6.02	41	6.57	6.16	6.05 - 7.43	162	6.20	6.84	5.22 - 7.23
Repairers, wood patterns	318	6.61	6.38	5.78 - 7.49	31	6.68	6.12	5.32 - 7.40	-	-	-	-	36	8.70	8.03	7.32 - 11.63

See footnotes at end of table.

Table 3. All foundries: Occupational averages—Continued

(Number of workers and average straight-time hourly earnings in selected occupations, United States and regions, September 1979)

Occupation	Great Lakes					Middle West					Mountain					Pacific				
	Number of workers	Hourly earnings ¹			Number of workers	Hourly earnings ¹			Number of workers	Hourly earnings ¹			Number of workers	Hourly earnings ¹						
		Mean	Median	Middle range		Mean	Median	Middle range		Mean	Median	Middle range		Mean	Median	Middle range				
Sand- or shot-blast operators	1,022	\$7.34	\$7.20	\$5.89 - \$8.67	47	\$6.26	\$5.47	\$5.46 - \$6.56	20	\$5.46	\$5.61	\$5.45 - \$5.63	88	\$6.48	\$6.79	\$5.70 - \$7.32				
Sand-slinger operators	208	7.99	8.60	6.72 - 8.97	25	5.85	5.86	5.63 - 6.13	-	-	-	-	37	6.88	6.80	6.80 - 7.18				
Sand mixers	981	7.21	6.88	5.82 - 8.81	105	5.92	5.77	5.40 - 6.13	27	6.21	6.21	5.72 - 6.78	96	6.69	7.26	5.87 - 7.28				
Shakeout workers	2,466	7.49	7.69	6.14 - 8.76	243	5.65	5.35	4.71 - 6.28	69	5.78	5.47	5.47 - 6.21	272	6.07	6.73	5.15 - 6.91				
Shell-mold and/or shell-core machine operators	1,586	7.63	7.71	6.05 - 8.91	98	6.44	5.54	5.32 - 6.45	9	6.94	-	-	103	7.04	7.71	6.56 - 8.09				
Truckers, power	3,255	7.57	7.98	6.41 - 8.67	165	6.14	6.17	5.38 - 6.33	85	6.25	5.79	5.79 - 6.41	141	6.66	6.90	6.10 - 7.26				
Forklift	2,982	7.62	8.30	6.53 - 8.67	133	6.13	6.17	5.25 - 6.33	82	6.26	5.79	5.79 - 6.49	133	6.66	6.90	6.16 - 7.26				
Other than forklift	273	6.96	7.18	5.89 - 7.78	32	6.20	5.96	5.68 - 6.74	-	-	-	-	8	6.65	-	-				
Tumbler operators	405	7.87	7.83	6.05 - 8.70	30	5.81	5.19	4.98 - 6.23	-	-	-	-	19	6.81	7.26	6.85 - 7.26				
Welders, hand ²	1,580	7.88	8.00	6.84 - 8.91	197	6.93	6.40	5.95 - 7.09	43	6.26	5.93	5.93 - 6.25	278	7.65	8.09	6.43 - 8.63				
Assemblers	294	8.15	8.02	7.38 - 8.91	24	6.10	6.05	5.95 - 6.26	-	-	-	-	20	6.24	6.12	5.92 - 6.13				
Repairers	667	7.63	7.68	6.27 - 8.97	72	7.57	6.40	5.95 - 8.49	43	6.26	5.93	5.93 - 6.25	130	7.86	8.54	7.10 - 8.63				

¹ See appendix A for definition of means, medians and middle ranges. Medians and middle ranges are not provided for entries with fewer than 15 workers.

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

² Includes data for workers in classification in addition to those shown separately.

Table 4. Gray iron foundries, except pipe and fittings: Average hourly earnings by selected characteristics

(Number and average straight-time hourly earnings¹ of production workers by selected characteristics, United States and selected regions, September 1979)

Characteristic	United States		New England		Middle Atlantic		Border States		Southeast		Great Lakes		Middle West		Pacific	
	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
All production workers	93,068	\$7.32	1,624	\$6.08	7,260	\$6.36	5,502	\$6.29	8,269	\$4.94	61,039	\$8.13	3,463	\$5.77	2,479	\$6.86
Size of community:																
Metropolitan areas ²	66,335	7.51	1,502	6.15	6,804	6.43	4,109	6.29	3,875	5.42	43,276	8.27	2,329	6.11	2,479	6.86
Nonmetropolitan areas	26,733	6.86	-	-	-	-	-	-	4,394	4.52	17,763	7.79	-	-	-	-
Size of establishment:																
50-249 workers	32,957	6.09	1,163	6.30	4,526	5.87	860	5.84	3,140	4.84	15,388	6.62	2,964	\$5.76	2,231	6.91
250 workers or more	60,111	8.00	-	-	2,734	7.17	4,642	6.37	5,129	5.00	45,651	8.64	-	-	-	-
Labor-management contract coverage:																
Establishments with--																
Majority of workers covered	80,613	7.61	1,101	6.33	6,111	6.48	5,373	6.32	5,513	5.17	57,625	8.24	2,116	5.45	2,082	6.98
None or minority of workers covered	12,455	5.45	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Type of foundry ownership:																
Commercial ³	57,312	6.34	1,502	\$6.15	6,123	\$6.38	5,502	\$6.29	7,789	\$4.91	27,147	\$6.96	3,463	\$5.77	2,354	6.87
Captive	35,756	8.91	-	-	1,137	6.25	-	-	-	-	33,892	9.07	-	-	-	-

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

through February 1974.

² Standard Metropolitan Statistical Areas as defined by the U.S. Office of Management and Budget

³ For definition of commercial and captive foundries, see appendix A.

Table 5. Earnings distribution: Gray iron foundries, except pipe and fittings

(Percent distribution of production workers, United States and selected regions, September 1979)

Hourly earnings	United States ¹	New England	Middle Atlantic	Border States	Southeast	Great Lakes	Middle West	Pacific
Number of workers	93,068	1,624	7,260	5,502	8,269	61,039	3,463	2,479
Average hourly earnings ²	\$7.32	\$6.08	\$6.36	\$6.29	\$4.94	\$8.13	\$5.77	\$6.86
Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Under \$3.40	1.1	.4	.1	.1	5.2	-	.1	-
\$3.40 and under \$3.60 .....	.4	-	.5	.1	1.7	⁽³⁾	-	.2
\$3.60 and under \$3.80 .....	.9	1.5	.3	.3	6.2	-	1.8	.1
\$3.80 and under \$4.00	1.2	.4	.7	.5	10.7	-	-	.2
\$4.00 and under \$4.20	1.5	1.0	.6	.5	10.8	⁽³⁾	5.9	2.1
\$4.20 and under \$4.40	1.2	2.0	.4	.5	7.4	⁽³⁾	5.2	.8
\$4.40 and under \$4.60	1.2	2.7	2.0	.5	3.0	.1	5.7	2.2
\$4.60 and under \$4.80	1.5	6.8	3.5	.3	5.0	.4	6.1	.3
\$4.80 and under \$5.00	1.9	9.2	6.8	.6	4.6	.7	5.8	1.5
\$5.00 and under \$5.20	2.3	6.0	6.7	.8	3.8	1.1	7.0	3.5
\$5.20 and under \$5.40	4.2	4.4	8.2	5.8	7.3	3.1	6.9	6.3
\$5.40 and under \$5.60	4.4	4.5	8.1	2.0	2.0	4.3	8.4	3.0
\$5.60 and under \$5.80	5.0	2.2	9.2	18.6	5.2	3.2	8.3	4.9
\$5.80 and under \$6.00	4.8	6.5	6.5	10.2	9.4	3.7	3.7	4.6
\$6.00 and under \$6.20	4.3	8.6	6.4	17.1	5.4	2.6	5.1	4.7
\$6.20 and under \$6.40	2.7	13.3	2.9	7.9	2.3	1.9	5.3	1.5
\$6.40 and under \$6.60	2.9	4.6	4.0	5.0	2.0	2.6	3.1	3.1
\$6.60 and under \$6.80	2.8	7.6	5.7	4.4	3.2	2.0	2.6	4.0
\$6.80 and under \$7.00	2.6	3.7	3.6	3.2	.6	2.4	2.5	7.9
\$7.00 and under \$7.20	2.2	1.4	1.2	4.7	.7	2.1	2.8	8.0
\$7.20 and under \$7.40	2.3	1.2	1.5	3.1	1.7	2.1	2.3	10.4
\$7.40 and under \$7.60	1.9	1.6	1.4	5.5	.8	1.5	2.0	8.3
\$7.60 and under \$7.80	1.6	1.3	1.7	2.9	.1	1.6	1.5	2.6
\$7.80 and under \$8.00	1.4	1.2	2.0	1.5	⁽³⁾	1.6	.8	.3
\$8.00 and under \$8.20	1.3	1.5	3.1	1.0	⁽³⁾	1.4	1.0	1.0
\$8.20 and under \$8.40	1.3	.3	1.5	1.1	-	1.6	.5	.9
\$8.40 and under \$8.60	4.1	.7	2.0	.5	⁽³⁾	5.8	.8	2.5
\$8.60 and under \$8.80	13.4	.8	3.1	.5	-	19.8	.7	4.7
\$8.80 and under \$9.00	8.6	.4	.6	.4	-	12.7	.3	5.5
\$9.00 and under \$9.20	3.0	.3	1.0	.1	-	4.3	.8	2.0
\$9.20 and under \$9.40	1.1	.3	.3	.1	.1	1.6	.8	.8
\$9.40 and under \$9.60 .....	.5	.2	.4	-	⁽³⁾	.7	.3	.7
\$9.60 and under \$9.80	1.2	.1	.7	.1	.1	1.7	.2	.4
\$9.80 and under \$10.00 .....	.4	.2	.5	-	.1	.5	.5	.2
\$10.00 and over	8.9	3.1	3.0	.1	.3	⁴ 13.0	1.1	.9

¹ Includes data for regions in addition to those shown separately.

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

³ Less than 0.05 percent.

⁴ Workers were distributed as follows: 3.6 percent at \$10

to \$10.40; 6.6 percent at \$10.40 to \$10.80; and 2.9 percent at \$10.80 and over.

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

Table 6. Gray iron foundries, except pipes and fittings: Occupational averages

(Number of workers and average straight-time hourly earnings¹ in selected occupations, United States and selected regions, September 1979)

Occupation	United States ²				New England				Middle Atlantic				Border States				
	Number of workers	Hourly earnings ³			Number of workers	Hourly earnings ³			Number of workers	Hourly earnings ³			Number of workers	Hourly earnings ³			
		Mean	Median	Middle range		Mean	Median	Middle range		Mean	Median	Middle range		Mean	Median	Middle range	
Air-set operators	582	\$6.78	\$6.39	\$5.70 - \$7.95	-	-	-	-	-	-	-	-	-	-	-	-	-
Arc-air scarfers	28	6.16	5.80	5.80 - 6.47	-	-	-	-	-	-	-	-	-	-	-	-	-
Carpenters, maintenance	125	8.16	8.76	6.71 - 9.42	12	\$6.23	-	-	-	19	\$6.89	\$6.77	\$6.20 - \$7.13	-	-	-	-
Centrifugal-casting-machine operators, pipe	24	7.20	6.90	6.75 - 7.25	-	-	-	-	-	-	-	-	-	-	-	-	-
Charging machine operators	388	7.08	7.60	5.48 - 8.76	-	-	-	-	36	5.91	5.88	5.71 - 6.31	-	-	-	-	-
Chippers and grinders	10,504	6.93	6.49	5.38 - 8.67	206	6.23	\$6.08	\$5.09 - \$6.51	998	6.06	5.60	5.04 - 6.13	900	\$6.28	\$6.07	\$5.82 - \$6.44	
Chippers	1,413	7.93	8.67	7.27 - 8.87	34	5.42	5.30	4.96 - 6.18	57	6.14	6.13	5.65 - 6.78	-	-	-	-	-
Grinders	3,292	6.35	5.87	5.27 - 8.29	86	6.21	6.11	4.80 - 6.55	255	5.36	5.17	4.81 - 5.60	-	-	-	-	-
Chippers and grinders	5,799	7.01	6.74	5.43 - 8.67	86	6.57	6.31	6.08 - 6.71	686	6.32	5.73	5.28 - 6.34	417	6.56	6.15	6.07 - 7.14	
Core assemblers and finishers	3,717	8.01	8.67	8.24 - 8.76	22	5.25	4.90	4.60 - 5.96	108	6.05	5.55	5.03 - 6.74	85	6.00	6.02	4.90 - 7.41	
Coremakers, hand	1,352	6.72	6.55	5.85 - 7.62	76	6.77	6.37	5.45 - 6.80	319	6.73	6.41	6.04 - 6.93	89	6.26	5.98	5.76 - 6.82	
Bench	713	6.82	6.79	5.75 - 8.18	38	5.76	5.45	5.02 - 6.63	129	6.94	6.92	6.31 - 7.25	27	6.16	6.30	5.35 - 6.96	
Floor	173	6.97	6.40	6.10 - 7.62	17	6.29	6.37	6.37 - 6.37	64	7.10	6.40	6.31 - 6.50	-	-	-	-	-
Bench and floor	466	6.49	6.41	5.93 - 6.80	-	-	-	-	126	6.34	6.41	5.48 - 6.77	57	6.42	5.98	5.80 - 6.77	
Coremakers, machine ⁴	1,540	7.17	7.22	5.82 - 8.76	18	6.10	6.43	5.75 - 6.43	85	6.15	6.04	5.31 - 6.31	106	6.48	6.34	6.17 - 6.78	
Core-blowing machine	835	6.82	6.38	5.49 - 8.67	14	6.13	-	-	47	5.96	5.89	4.59 - 6.31	-	-	-	-	-
Turn-over-draw machine	145	6.82	6.70	6.23 - 7.81	-	-	-	-	15	7.09	6.53	5.89 - 7.28	-	-	-	-	-
Crane operators, electric bridge	1,281	7.29	6.97	5.80 - 8.91	28	6.00	6.08	5.51 - 6.08	268	7.55	6.60	6.08 - 8.55	67	6.10	5.93	5.82 - 6.28	
Under 20 tons	630	6.87	6.46	5.82 - 8.18	23	5.97	6.08	5.51 - 6.08	85	6.53	6.12	6.01 - 6.52	39	6.07	5.82	5.82 - 6.41	
20 tons and over	651	7.70	8.17	5.80 - 8.91	-	-	-	-	183	8.03	8.02	6.19 - 8.55	-	-	-	-	-
Cupola tenders	642	6.82	6.59	5.89 - 7.90	31	5.64	5.50	4.98 - 6.27	63	6.08	6.06	5.42 - 6.55	30	5.61	5.76	5.17 - 6.18	
Electricians, maintenance	1,428	9.40	10.59	8.00 - 10.61	-	-	-	-	78	8.43	8.67	6.80 - 9.79	51	7.59	7.57	7.57 - 7.57	
Furnace tenders, electric	855	7.17	6.75	5.95 - 9.02	-	-	-	-	72	6.12	6.17	5.55 - 6.45	21	6.81	6.75	6.55 - 7.02	
Furnace tenders', helpers	351	6.52	5.85	5.52 - 8.31	-	-	-	-	36	5.77	5.43	5.00 - 5.66	-	-	-	-	-
Helpers, trades, maintenance	589	6.95	6.31	5.64 - 8.81	-	-	-	-	23	7.74	8.50	8.05 - 8.50	-	-	-	-	-
Inspectors, class A	197	8.51	9.37	6.10 - 9.39	-	-	-	-	-	-	-	-	-	-	-	-	-
Inspectors, class B	874	7.11	7.16	5.50 - 8.76	-	-	-	-	96	5.76	5.34	5.25 - 6.03	42	6.63	6.83	6.34 - 6.83	
Inspectors, class C	1,877	7.11	7.00	5.84 - 8.67	22	5.08	4.94	4.48 - 5.63	91	5.48	5.60	5.12 - 5.78	41	6.08	6.03	6.03 - 6.16	
Laborers, general foundry	7,569	6.47	5.86	5.26 - 8.50	105	5.59	5.83	4.80 - 6.20	822	5.28	5.22	4.93 - 5.53	714	5.52	5.71	5.34 - 5.71	
Laborers, material handling	816	7.08	7.20	5.76 - 8.50	40	5.53	6.11	4.88 - 6.20	74	7.01	7.51	5.99 - 7.54	-	-	-	-	-
Machinists, maintenance	348	8.41	9.15	7.04 - 9.89	-	-	-	-	-	-	-	-	-	-	-	-	-
Mechanics, general	1,577	7.41	7.41	6.50 - 8.76	33	6.17	6.50	5.60 - 6.60	200	6.90	6.62	5.94 - 7.38	-	-	-	-	-
Mechanics, maintenance	2,161	8.37	7.96	6.71 - 10.57	9	6.18	-	-	92	7.07	6.71	5.52 - 8.74	77	7.28	7.02	7.02 - 7.32	
Molders, floor	1,443	7.28	6.85	6.40 - 8.54	67	7.64	6.71	6.37 - 9.51	302	7.36	6.77	6.40 - 8.53	43	6.44	6.75	5.15 - 7.32	
Molders, hand, bench	228	6.33	6.54	4.50 - 8.10	20	9.55	9.16	6.71 - 11.40	43	6.19	6.27	5.07 - 7.00	-	-	-	-	-
Molders, machine, automatic	1,178	7.27	7.33	6.04 - 8.59	-	-	-	-	89	6.17	6.20	5.26 - 6.64	17	5.91	6.47	5.05 - 6.47	
Molders, machine, semi-automatic	3,214	7.23	6.92	5.83 - 8.85	145	7.67	7.56	6.78 - 8.50	422	6.65	6.56	5.28 - 7.49	88	7.44	7.69	6.60 - 8.37	
Jarring	190	7.92	8.15	6.74 - 8.80	-	-	-	-	-	-	-	-	-	-	-	-	-
Roll-over	716	7.45	7.30	5.93 - 8.71	62	7.88	7.70	7.24 - 8.45	198	6.33	5.28	5.28 - 6.62	-	-	-	-	-
Squeeze	1,686	6.89	6.39	5.67 - 8.04	80	7.59	7.43	6.66 - 8.61	126	6.82	6.92	5.69 - 7.80	-	-	-	-	-
Other (single) machine	173	7.31	7.40	6.69 - 8.03	-	-	-	-	70	7.40	7.42	6.77 - 7.72	-	-	-	-	-
Combination (operates more than one type of machine)	449	7.83	8.85	5.83 - 8.91	-	-	-	-	28	6.21	6.31	5.50 - 6.50	-	-	-	-	-
Patternmakers, metal	836	10.50	11.39	8.93 - 11.40	7	6.22	-	-	-	-	-	-	-	-	-	-	-
Patternmakers, wood	389	8.68	8.92	6.56 - 10.93	-	-	-	-	92	7.64	7.15	5.98 - 9.05	27	7.03	7.42	6.68 - 7.81	
Pourers, metal	3,115	6.99	6.91	5.55 - 8.77	46	5.81	6.05	5.31 - 6.27	222	6.27	5.95	5.19 - 6.70	90	6.30	6.13	6.13 - 6.34	
Repairers, wood patterns	295	6.30	6.07	5.40 - 6.70	6	5.25	-	-	38	5.71	5.68	5.40 - 5.93	-	-	-	-	-
Sand-shot-blast operators	910	6.82	6.42	5.48 - 8.67	8	6.20	-	-	76	5.41	5.33	4.83 - 5.72	20	5.77	5.82	5.80 - 6.16	

See footnotes at end of table.

Table 6. Gray iron foundries, except pipes and fittings: Occupational averages—Continued

(Number of workers and average straight-time hourly earnings¹ in selected occupations, United States and selected regions, September 1979)

Occupation	United States ²				New England				Middle Atlantic				Border States				
	Number of workers	Hourly earnings ³			Number of workers	Hourly earnings ³			Number of workers	Hourly earnings ³			Number of workers	Hourly earnings ³			
		Mean	Median	Middle range		Mean	Median	Middle range		Mean	Median	Middle range		Mean	Median	Middle range	
Sand-slinger operators	215	\$6.81	\$6.80	\$5.71 - \$7.84	-	-	-	-	29	\$8.02	\$7.94	\$6.12 - \$8.85	-	-	-	-	
Sand mixers	1,147	6.65	6.06	5.44 - 8.67	19	\$5.95	\$6.08	\$5.81 - \$6.33	114	6.06	5.50	5.00 - 6.31	-	-	-	-	
Shakeout workers	3,341	6.70	6.28	5.37 - 8.76	81	5.64	5.90	4.60 - 6.33	356	5.78	5.52	5.08 - 5.87	76	\$5.73	\$5.65	\$5.46 - \$6.08	
Shell-mold and/or shell-core machine operators	1,866	7.02	6.94	5.89 - 8.91	-	-	-	-	73	5.47	5.06	4.79 - 6.14	114	7.09	7.21	6.75 - 7.51	
Truckers, power	2,985	6.98	6.86	5.72 - 8.67	25	5.07	4.95	4.87 - 5.25	158	5.99	5.49	5.26 - 6.52	219	5.90	6.07	5.72 - 6.07	
Forklift	2,676	7.06	6.97	5.72 - 8.67	-	-	-	-	136	5.92	5.49	5.00 - 6.25	219	5.90	6.07	5.72 - 6.07	
Other than forklift	309	6.35	5.96	5.51 - 7.25	14	5.09	-	-	22	6.38	6.47	5.51 - 6.86	-	-	-	-	
Tumbler operators	306	6.70	6.54	5.54 - 8.29	-	-	-	-	6	5.77	-	-	-	-	-	-	
Welders, hand	612	7.46	7.37	5.91 - 8.91	10	5.92	-	-	43	7.75	6.77	6.03 - 8.64	-	-	-	-	
Assemblers	88	8.20	8.91	8.11 - 8.91	-	-	-	-	-	-	-	-	-	-	-	-	
Repairers	276	7.83	8.91	6.18 - 9.10	-	-	-	-	19	6.30	6.56	6.03 - 6.56	-	-	-	-	
Combination	248	6.78	5.98	5.91 - 8.26	-	-	-	-	20	9.07	8.64	7.72 - 11.74	-	-	-	-	
		Southeast				Great Lakes				Middle West				Pacific			
		Hourly earnings ³				Hourly earnings ³				Hourly earnings ³				Hourly earnings ³			
		Mean	Median	Middle range		Mean	Median	Middle range		Mean	Median	Middle range		Mean	Median	Middle range	
Air-set operators	-	-	-	-	456	\$7.00	\$6.49	\$5.72 - \$8.26	-	-	-	-	-	-	-	-	
Carpenters, maintenance	-	-	-	-	84	9.02	9.42	8.76 - 10.35	-	-	-	-	-	-	-	-	
Charging machine operators	27	\$4.31	\$3.95	\$3.91 - \$5.04	275	7.72	8.76	6.52 - 8.76	15	\$6.35	\$5.50	\$5.21 - \$7.62	12	\$5.54	-	-	
Chippers and grinders	851	4.28	4.07	3.90 - 4.28	6,254	7.86	8.67	5.89 - 8.76	386	5.44	5.00	4.40 - 5.89	391	6.70	\$7.27	\$5.64 - \$7.45	
Chippers	-	-	-	-	1,057	8.66	8.76	8.67 - 8.97	30	6.52	6.35	5.55 - 7.63	123	6.91	7.27	7.27 - 7.53	
Grinders	431	4.32	4.02	3.90 - 4.69	1,613	7.40	7.88	5.55 - 8.76	177	5.93	5.51	4.75 - 6.50	134	6.33	7.18	5.41 - 7.45	
Chippers and grinders	-	-	-	-	3,584	7.82	8.67	6.18 - 8.73	179	4.76	4.95	4.40 - 5.00	134	6.87	7.29	5.70 - 7.29	
Core assemblers and finishers	14	3.81	-	-	3,311	8.30	8.67	8.65 - 8.76	67	5.39	4.95	4.95 - 5.62	18	7.66	8.90	5.96 - 8.90	
Coremakers, hand	87	4.91	4.99	3.55 - 6.64	513	7.40	6.85	6.26 - 8.55	69	6.49	6.44	5.85 - 7.12	97	7.59	7.70	6.55 - 8.65	
Bench	45	3.62	3.55	3.40 - 3.85	334	7.58	7.02	6.15 - 8.86	42	6.03	5.85	5.32 - 6.52	52	8.08	8.65	8.15 - 8.85	
Floor	-	-	-	-	58	7.49	7.62	6.08 - 8.97	-	-	-	-	-	-	-	-	
Bench and floor	33	6.63	6.64	6.63 - 6.64	121	6.85	6.26	6.26 - 7.62	-	-	-	-	36	7.12	6.55	6.55 - 7.70	
Coremakers, machine ⁴	180	5.04	5.22	4.75 - 5.83	900	8.10	8.76	7.48 - 8.78	115	6.30	6.11	5.05 - 6.91	29	7.70	8.54	7.00 - 8.54	
Core-blowing machine	117	5.25	5.35	4.75 - 5.83	395	7.90	8.67	6.59 - 8.79	-	-	-	-	15	7.14	7.00	5.37 - 8.78	
Turn-over-draw machine	-	-	-	-	40	7.80	7.50	6.70 - 8.33	20	5.35	5.05	4.65 - 6.04	-	-	-	-	
Crane operators, electric bridge	53	5.40	5.50	4.46 - 6.24	745	7.73	8.63	6.23 - 8.99	43	6.05	5.65	5.45 - 6.33	33	6.71	7.28	5.79 - 7.36	
Under 20 tons	35	5.91	6.12	5.50 - 6.48	345	7.52	7.49	6.24 - 8.99	32	6.29	5.68	5.65 - 6.56	27	6.91	7.30	6.18 - 7.56	
20 tons and over	-	-	-	-	400	7.92	8.74	5.64 - 9.00	-	-	-	-	-	-	-	-	
Cupola tenders	25	5.49	5.50	5.20 - 6.42	399	7.52	7.10	6.46 - 9.07	27	7.06	7.13	5.69 - 8.56	30	6.25	6.46	5.48 - 7.43	
Electricians, maintenance	53	6.57	6.50	5.72 - 7.33	1,190	9.76	10.59	9.39 - 10.66	27	7.75	7.38	7.34 - 7.66	-	-	-	-	
Furnace tenders, electric	89	5.25	5.22	4.50 - 5.83	533	7.86	8.10	6.41 - 9.07	41	6.61	6.36	5.94 - 7.00	30	7.19	7.59	6.60 - 7.59	
Furnace tenders', helpers	32	4.63	4.15	4.08 - 5.52	203	7.42	7.74	5.76 - 8.31	13	5.41	-	-	-	-	-	-	
Helpers, trades, maintenance	-	-	-	-	445	7.29	7.12	5.68 - 8.97	-	-	-	-	15	6.25	6.80	5.43 - 7.47	
Inspectors, class A	-	-	-	-	153	9.22	9.37	9.37 - 10.00	-	-	-	-	-	-	-	-	
Inspectors, class B	-	-	-	-	575	7.93	8.70	7.16 - 8.99	9	6.36	-	-	-	-	-	-	
Inspectors, class C	177	4.95	4.52	3.89 - 6.18	1,374	7.75	8.67	6.14 - 8.67	95	5.42	5.47	5.02 - 5.75	36	6.80	7.45	5.82 - 7.45	
Laborers, general foundry	672	4.25	3.88	3.70 - 5.24	4,560	7.34	8.49	5.84 - 8.50	139	5.76	5.77	5.28 - 6.28	339	6.11	6.80	5.34 - 7.06	

See footnotes at end of table.

Table 6. Gray iron foundries, except pipes and fittings: Occupational averages—Continued

(Number of workers and average straight-time hourly earnings¹ in selected occupations, United States and selected regions, September 1979)

Occupation	Southeast				Great Lakes				Middle West				Pacific					
	Number of workers	Hourly earnings ³			Number of workers	Hourly earnings ³			Number of workers	Hourly earnings ³			Number of workers	Hourly earnings ³				
		Mean	Median	Middle range		Mean	Median	Middle range		Mean	Median	Middle range		Mean	Median	Middle range		
Laborers, material handling	-	-	-	-	512	\$7.86	\$8.50	\$6.92 - \$8.68	12	\$5.67	-	-	-	-	-	-	-	-
Machinists, maintenance	21	\$5.74	\$5.80	\$5.73 - \$5.80	219	9.32	9.73	9.15 - 9.89	-	-	-	-	-	-	-	-	-	-
Mechanics, general	128	6.60	6.90	5.83 - 7.46	870	7.88	7.89	6.89 - 8.99	78	6.12	\$6.00	\$5.54 - \$6.49	14	\$7.92	-	-	-	-
Mechanics, maintenance	154	6.15	5.75	5.24 - 7.33	1,629	8.88	9.39	6.93 - 10.66	54	7.63	7.38	7.38 - 7.40	65	7.67	\$8.03	\$6.57 - \$8.90	-	-
Molders, floor	87	5.89	5.35	5.00 - 6.64	742	7.69	7.60	6.54 - 8.74	36	7.32	6.81	6.64 - 7.95	76	8.17	8.65	6.70 - 8.76	-	-
Molders, hand, bench	-	-	-	-	67	8.25	8.10	7.70 - 8.85	-	-	-	-	-	-	-	-	-	-
Molders, machine, automatic	112	5.29	5.22	4.30 - 6.42	744	7.64	7.77	6.42 - 9.00	-	-	-	-	44	8.32	8.59	8.54 - 9.00	-	-
Molders, machine, semi-automatic	578	5.87	5.83	5.35 - 6.47	1,475	8.10	8.38	6.62 - 9.04	209	6.91	6.63	5.97 - 7.60	152	7.63	8.65	6.00 - 8.90	-	-
Jarring	-	-	-	-	142	8.30	8.56	7.62 - 8.99	-	-	-	-	-	-	-	-	-	-
Roll-over	-	-	-	-	310	8.37	8.05	7.22 - 9.63	45	7.51	7.41	6.13 - 7.67	-	-	-	-	-	-
Squeeze	420	5.73	5.51	5.28 - 6.47	727	7.64	6.94	6.24 - 9.08	136	6.79	6.41	5.87 - 7.78	124	7.58	8.65	6.00 - 8.90	-	-
Other (single) machine	-	-	-	-	-	-	-	-	-	-	-	-	10	6.13	-	-	-	-
Patternmakers, metal	-	-	-	-	768	10.78	11.39	11.35 - 11.40	7	6.15	-	-	-	-	-	-	-	-
Patternmakers, wood	47	6.33	5.73	5.24 - 7.29	176	10.32	10.93	9.70 - 11.78	16	7.45	7.24	6.66 - 8.13	8	11.36	-	-	-	-
Pourers, metal	427	4.76	4.42	4.15 - 5.22	1,974	7.89	7.71	6.88 - 9.00	155	5.38	5.36	5.00 - 5.60	60	6.53	7.22	5.36 - 7.59	-	-
Repairers, wood patterns	-	-	-	-	188	6.29	6.07	5.27 - 6.56	19	6.88	6.75	5.00 - 7.95	15	7.38	7.43	6.57 - 8.47	-	-
Sand- shot-blast operators	92	4.60	4.35	3.80 - 5.35	633	7.48	7.93	5.80 - 8.67	15	6.30	6.35	5.45 - 7.14	34	6.62	7.27	5.75 - 7.32	-	-
Sand-slinger operators	-	-	-	-	69	7.48	7.20	5.80 - 8.97	15	5.96	6.13	5.63 - 6.17	-	-	-	-	-	-
Sand mixers	116	4.81	4.31	4.05 - 5.90	715	7.31	6.87	5.77 - 8.81	66	5.64	5.55	5.24 - 6.13	30	6.21	5.90	5.57 - 7.18	-	-
Shakeout workers	323	4.73	4.30	3.81 - 5.84	2,058	7.53	8.18	6.04 - 8.76	187	5.38	5.05	4.65 - 5.75	134	6.49	6.80	5.78 - 7.12	-	-
Shell-mold and/or shell-core machine operators	152	4.26	3.95	3.35 - 5.00	1,321	7.60	7.79	5.89 - 8.91	72	5.63	5.32	5.32 - 6.32	47	7.11	7.71	7.06 - 7.71	-	-
Truckers, power	229	5.00	4.96	4.19 - 6.06	2,142	7.56	8.38	6.12 - 8.67	75	5.67	5.72	5.20 - 6.15	48	6.34	6.17	5.74 - 7.06	-	-
Forklift	184	4.96	4.96	4.19 - 6.06	1,947	7.63	8.55	6.25 - 8.67	49	5.54	5.61	4.90 - 6.14	45	6.38	7.00	5.77 - 7.06	-	-
Other than forklift	45	5.19	5.96	4.02 - 5.96	195	6.80	6.10	5.83 - 7.78	-	-	-	-	-	-	-	-	-	-
Tumbler operators	40	4.07	4.02	3.05 - 4.12	222	7.39	7.52	5.64 - 8.59	21	5.29	5.19	4.98 - 5.19	-	-	-	-	-	-
Welders, hand	12	4.69	-	-	435	7.90	8.91	5.98 - 8.94	34	5.76	5.57	5.40 - 5.90	24	7.68	8.07	6.72 - 8.86	-	-
Assemblers	-	-	-	-	68	8.72	8.91	8.18 - 8.91	-	-	-	-	-	-	-	-	-	-
Repairers	-	-	-	-	203	8.46	8.94	8.18 - 9.53	6	6.68	-	-	-	13	6.89	-	-	-
Combination	-	-	-	-	164	6.87	5.98	5.91 - 8.91	-	-	-	-	-	-	-	-	-	-

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

² Includes data for regions in addition to those shown separately.

³ See appendix A for definitions of means, medians, and middle ranges. Medians and middle ranges are not provided for entries with fewer than 15 workers.

⁴ Includes data for workers in classification in addition to those shown separately.

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

Table 7. Occupational earnings for selected localities : Gray iron foundries, except pipe and fittings

(Percent distribution of production workers by straight-time hourly earnings¹ in selected occupations, selected localities, September 1979)

Hourly earnings	Chicago							Los Angeles-Long Beach							
	All production workers	Chippers and grinders ²	Core-makers, hand	Laborers, general foundry	Mechanics general	Pourers, metal	Shakeout workers	All production workers	Chippers and grinders ²	Core-makers, hand	Laborers, general foundry	Mechanics, maintenance	Molders, machine, squeeze	Pourers, metal	Shakeout workers
Number of workers	1,669	219	40	105	25	49	80	1,082	143	42	135	30	51	26	44
Average hourly earnings ¹	\$7.30	\$7.85	\$7.72	\$6.82	\$7.63	\$7.05	\$5.82	\$5.86	\$5.66	\$6.47	\$4.98	\$6.46	\$6.11	\$5.54	\$5.41
Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Under \$4.00 .....	.2	-	-	-	-	-	-	1.0	2.8	-	-	-	-	-	4.5
\$4.00 and under \$4.20 .....	.1	-	2.5	-	-	-	-	4.8	-	-	31.1	-	-	-	2.3
\$4.20 and under \$4.40 .....	.1	-	-	1.0	-	-	-	1.9	.7	-	-	-	-	-	15.9
\$4.40 and under \$4.60	2.4	4.1	-	-	-	-	26.2	4.7	14.0	-	-	-	-	-	-
\$4.60 and under \$4.80	1.6	-	-	1.0	-	-	-	.7	-	7.1	-	-	-	-	-
\$4.80 and under \$5.00	4.8	2.7	2.5	-	8.0	6.1	7.5	3.3	-	-	15.6	-	-	30.8	-
\$5.00 and under \$5.20	1.4	.9	-	-	-	12.2	8.7	6.8	12.6	-	8.1	-	-	11.5	15.9
\$5.20 and under \$5.40 .....	.8	-	-	-	-	4.1	1.2	14.4	27.3	-	23.7	-	-	23.1	29.5
\$5.40 and under \$5.60	2.9	-	-	12.4	4.0	-	-	6.9	7.7	4.8	5.9	3.3	-	-	2.3
\$5.60 and under \$5.80	1.9	.5	-	1.0	4.0	-	-	9.6	15.4	-	5.2	13.3	17.6	-	6.8
\$5.80 and under \$6.00	1.8	-	2.5	4.8	-	-	-	7.0	2.8	-	9.6	13.3	2.0	7.7	11.4
\$6.00 and under \$6.20	4.5	.5	-	14.3	-	-	2.5	10.4	.7	16.7	-	3.3	62.7	7.7	2.3
\$6.20 and under \$6.40	6.1	.5	-	1.0	8.0	10.2	27.5	2.8	2.1	-	-	-	2.0	7.7	-
\$6.40 and under \$6.60	3.1	-	-	1.9	4.0	-	-	7.2	.7	35.7	-	33.3	7.8	-	-
\$6.60 and under \$6.80	3.5	.5	-	-	-	-	20.4	4.7	.7	31.0	-	-	-	3.8	-
\$6.80 and under \$7.00	5.0	2.7	-	25.7	4.0	4.1	18.8	3.1	-	-	-	6.7	5.9	3.8	2.3
\$7.00 and under \$7.20	6.3	16.0	-	1.0	-	4.1	-	1.9	2.1	-	-	23.3	-	-	-
\$7.20 and under \$7.40	2.6	-	-	-	-	2.0	-	.6	-	-	-	-	-	3.8	-
\$7.40 and under \$7.60	4.0	5.5	-	10.5	-	4.1	-	.6	-	-	-	-	-	-	-
\$7.60 and under \$7.80	4.9	.5	55.0	-	4.0	-	-	.6	.7	-	-	-	-	-	-
\$7.80 and under \$8.00	2.2	.9	5.0	-	4.0	-	7.5	.6	-	-	.7	3.3	-	-	-
\$8.00 and under \$8.20	8.8	17.4	15.0	21.9	20.0	-	-	.4	1.4	-	-	-	-	-	-
\$8.20 and under \$8.40	2.5	5.0	2.5	3.8	4.0	-	-	.3	-	-	-	-	-	-	-
\$8.40 and under \$8.60	5.9	5.0	-	-	8.0	-	-	.1	-	-	-	-	-	-	-
\$8.60 and under \$8.80	11.1	32.0	7.5	-	4.0	10.2	-	.4	-	-	-	-	-	-	-
\$8.80 and under \$9.00	4.7	.5	7.5	-	8.0	14.3	-	.4	.7	2.4	-	-	-	-	-
\$9.00 and under \$9.20	1.6	1.4	-	-	16.0	4.1	-	2.3	-	-	-	-	2.0	-	-
\$9.20 and under \$9.40	2.3	.5	-	-	-	4.1	-	1.4	7.7	-	-	-	-	-	6.8
\$9.40 and under \$9.60 .....	.7	.5	-	-	-	-	-	.2	-	-	-	-	-	-	-
\$9.60 and under \$9.80	1.1	.5	-	-	-	-	-	.2	-	-	-	-	-	-	-
\$9.80 and under \$10.00 .....	.2	-	-	-	-	-	-	.4	-	2.4	-	-	-	-	-
\$10.00 and over	1.0	2.3	-	-	-	-	-	.1	-	-	-	-	-	-	-

See footnotes at end of table.

Table 7. Occupational earnings for selected localities : Gray iron foundries, except pipe and fittings—Continued

(Percent distribution of production workers by straight-time hourly earnings¹ in selected occupations, selected localities, September 1979)

Hourly earnings	Pittsburgh								St. Louis							
	All production workers	Chippers and grinders ²	Core-makers, hand	Laborers, general foundry	Mechanics, maintenance	Molders floor	Pourers, metal	Shakeout workers	All production workers	Chippers and grinders ²	Core-makers, hand	Laborers, general foundry	Mechanics, maintenance	Molders, machine, squeeze	Pourers, metal	Shakeout workers
Number of workers	1,576	186	46	87	42	75	23	50	1,377	147	32	146	55	82	61	58
Average hourly earnings ¹	\$8.00	\$8.04	\$7.76	\$7.08	\$8.66	\$8.06	\$8.43	\$7.09	\$5.91	\$5.79	\$6.76	\$5.68	\$7.08	\$7.01	\$5.95	\$5.81
Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Under \$4.00 .....	.1	-	-	-	-	-	-	-	4.2	-	-	-	-	-	-	-
\$4.00 and under \$4.20	-	-	-	-	-	-	-	-	3.3	-	-	-	-	-	-	-
\$4.20 and under \$4.40	-	-	-	-	-	-	-	-	.1	-	-	-	-	-	-	-
\$4.40 and under \$4.60 .....	.4	-	-	3.4	-	-	-	-	.1	.7	-	-	-	-	-	-
\$4.60 and under \$4.80	-	-	-	-	-	-	-	-	2.3	-	-	.7	-	-	-	-
\$4.80 and under \$5.00	1.6	3.8	-	2.3	-	-	-	14.0	-	-	-	-	-	-	-	-
\$5.00 and under \$5.20	2.7	5.9	-	8.0	-	-	17.4	4.0	2.8	-	-	-	-	-	-	1.7
\$5.20 and under \$5.40	2.2	3.8	4.3	1.1	-	-	-	6.0	12.3	23.1	3.1	44.5	-	2.4	-	15.5
\$5.40 and under \$5.60	4.9	9.1	2.2	8.0	-	2.7	13.0	20.0	17.1	39.5	-	8.2	-	-	42.6	36.2
\$5.60 and under \$5.80	3.4	1.6	6.5	6.9	2.4	8.0	-	-	12.5	4.1	-	11.0	-	19.5	6.6	8.6
\$5.80 and under \$6.00	2.2	8.1	2.2	-	-	1.3	-	-	7.2	.7	21.9	4.8	-	17.1	9.8	10.3
\$6.00 and under \$6.20	3.2	-	15.2	-	2.4	-	4.3	6.0	6.8	2.7	18.8	6.8	1.8	3.7	14.8	1.7
\$6.20 and under \$6.40	1.2	-	-	-	2.4	1.3	4.3	-	9.8	21.1	15.6	19.9	7.3	4.9	3.3	17.2
\$6.40 and under \$6.60	2.2	-	-	4.6	-	9.3	-	-	4.8	1.4	12.5	4.1	18.2	2.4	9.8	-
\$6.60 and under \$6.80	1.6	.5	-	-	2.4	1.3	-	4.0	2.6	1.4	3.1	-	3.6	8.5	4.9	1.7
\$6.80 and under \$7.00	6.7	12.4	43.5	-	11.9	10.7	-	4.0	1.4	1.4	-	-	5.5	2.4	1.6	1.7
\$7.00 and under \$7.20	1.6	-	-	-	-	2.7	-	-	1.5	.7	3.1	-	1.8	1.2	4.9	3.4
\$7.20 and under \$7.40	2.1	.5	-	-	11.9	-	4.3	-	3.3	.7	-	-	50.9	2.4	1.6	-
\$7.40 and under \$7.60	3.6	-	-	11.5	-	-	-	2.0	1.9	.7	3.1	-	7.3	1.2	-	-
\$7.60 and under \$7.80	4.1	1.1	-	14.9	-	-	-	-	.9	.7	3.1	-	-	3.7	-	-
\$7.80 and under \$8.00	6.7	26.3	4.3	-	-	-	-	-	.8	.7	3.1	-	3.6	2.4	-	1.7
\$8.00 and under \$8.20	9.3	-	-	39.1	-	5.3	-	-	.7	.7	-	-	-	6.1	-	-
\$8.20 and under \$8.40	6.2	3.8	-	-	-	-	13.0	12.0	.7	-	-	-	-	3.7	-	-
\$8.40 and under \$8.60	5.9	-	2.2	-	-	17.3	13.0	-	.4	-	-	-	-	3.7	-	-
\$8.60 and under \$8.80	8.4	-	-	-	14.3	-	-	-	.5	-	-	-	-	4.9	-	-
\$8.80 and under \$9.00	1.0	-	-	-	-	-	-	-	.4	-	3.1	-	-	1.2	-	-
\$9.00 and under \$9.20	1.8	-	-	-	-	34.7	-	-	.4	-	3.1	-	-	-	-	-
\$9.20 and under \$9.40 .....	.4	-	2.2	-	-	-	-	-	.1	-	-	-	-	-	-	-
\$9.40 and under \$9.60	1.3	-	-	-	9.5	-	-	-	.2	-	-	-	-	-	-	-
\$9.60 and under \$9.80	1.3	-	-	-	4.8	-	-	-	.3	-	-	-	-	2.4	-	-
\$9.80 and under \$10.00	1.8	-	-	-	38.1	-	-	-	.1	-	3.1	-	-	1.2	-	-
\$10.00 and under \$10.40	-	-	-	-	-	-	-	-	.3	-	-	-	-	3.7	-	-
\$10.40 and under \$10.80 .....	.1	-	-	-	-	-	-	-	.1	-	3.1	-	-	-	-	-
\$10.80 and under \$11.20 .....	.6	-	-	-	-	-	-	14.0	.1	-	-	-	-	1.2	-	-
\$11.20 and under \$11.60	1.7	-	-	-	-	5.3	-	-	.1	-	-	-	-	-	-	-
\$11.60 and under \$12.00	1.5	-	-	-	-	-	8.7	-	.1	-	-	-	-	-	-	-
\$12.00 and under \$12.40	1.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
\$12.40 and under \$12.80	5.0	23.1	-	-	-	-	21.7	2.0	-	-	-	-	-	-	-	-
\$12.80 and under \$13.20	1.4	-	17.4	-	-	-	-	-	-	-	-	-	-	-	-	-
\$13.20 and over .....	.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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

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

Table 8. Gray iron foundries, except pipe and fittings: Occupational averages by size of community

(Number of workers and average straight-time hourly earnings¹ in selected occupations, United States and selected regions, September 1979)

Occupation	United States ²				New England		Middle Atlantic		Southeast				Great Lakes				Middle West	
	Metropolitan areas		Nonmetropolitan areas		Metropolitan areas		Metropolitan areas		Metropolitan areas		Nonmetropolitan areas		Metropolitan areas		Nonmetropolitan areas		Metropolitan areas	
	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	Number of workers	Average hourly earnings
Chippers and grinders ³	7,162	\$7.01	3,342	\$6.76	199	\$6.21	947	\$6.08	289	\$4.88	562	\$3.98	4,196	\$7.79	2,058	\$7.99	212	\$6.07
Grinders	2,468	6.42	824	6.13	85	6.23	255	5.36	211	4.64	220	4.02	1,136	7.32	-	-	133	6.47
Chippers and grinders	3,672	7.14	2,127	6.79	80	6.54	635	6.36	-	-	-	-	2,332	7.75	1,252	7.95	-	-
Core assemblers and finishers	2,638	8.13	1,079	7.74	13	5.61	105	6.04	-	-	-	-	2,398	8.34	913	8.18	17	6.59
Coremakers, hand ³	1,167	6.89	185	5.66	76	6.77	298	6.76	35	5.59	52	4.45	467	7.49	46	6.48	53	6.77
Bench	602	7.09	111	5.30	38	5.76	129	6.94	-	-	-	-	288	7.75	46	6.48	26	6.30
Coremakers, machine ³	971	7.41	569	6.78	18	6.10	85	6.15	-	-	105	4.68	557	8.24	343	7.88	-	-
Core-blowing machine	519	7.08	316	6.38	14	6.13	47	5.96	-	-	-	-	226	8.33	169	7.33	-	-
Crane operators, electric bridge ³	1,077	7.47	204	6.34	-	-	241	7.71	-	-	24	4.62	657	7.73	88	7.78	31	6.23
Under 20 tons	474	6.96	156	6.59	-	-	79	6.55	-	-	-	-	263	7.41	82	7.86	22	6.58
Cupola tenders	452	6.76	190	6.95	29	5.67	60	6.17	17	5.94	8	4.54	247	7.59	152	7.41	25	7.20
Electricians, maintenance	1,030	9.62	398	8.83	-	-	78	8.43	-	-	34	6.14	865	9.92	325	9.33	27	7.75
Furnace tenders, electric	522	7.07	333	7.33	-	-	63	6.11	47	5.82	42	4.60	289	7.72	244	8.02	29	6.78
Inspectors, class B	569	7.32	305	6.74	-	-	96	5.76	17	5.74	-	-	406	7.87	169	8.05	7	6.62
Inspectors, class C	1,204	7.44	673	6.51	21	5.10	88	5.53	-	-	100	4.10	880	8.03	494	7.24	-	-
Laborers, general foundry	5,733	6.63	1,836	5.96	95	5.72	720	5.48	362	4.74	310	3.68	3,413	7.47	1,147	6.94	129	5.82
Mechanics, maintenance	1,620	8.81	541	7.03	9	6.18	89	7.15	-	-	92	5.36	1,281	9.19	348	7.74	54	7.63
Molders, machine, automatic	664	7.54	514	6.92	-	-	77	6.42	-	-	64	5.25	354	7.94	390	7.37	-	-
Molders, machine, semi-automatic ³	2,482	7.41	732	6.63	144	7.89	407	6.65	271	5.85	307	5.89	1,178	8.24	297	7.53	157	7.12
Squeeze	1,168	7.05	518	6.54	79	7.61	126	6.82	170	5.84	250	5.66	484	7.71	243	7.51	116	6.93
Pourers, metal	2,165	7.23	950	6.42	46	5.81	183	6.58	213	5.17	214	4.35	1,425	8.00	549	7.61	67	5.75
Repairers, wood patterns	206	6.57	89	5.68	6	5.25	38	5.71	-	-	-	-	114	6.65	74	5.74	15	7.63
Sand- or shot-blast operators	611	6.75	299	6.97	8	6.20	73	5.47	59	4.90	33	4.06	396	7.42	237	7.57	13	6.47
Sand mixers	820	6.78	327	6.33	19	5.95	114	6.06	55	5.25	61	4.40	494	7.41	221	7.08	44	5.77
Shakeout workers	2,599	6.90	742	6.04	73	5.77	338	5.85	217	5.13	106	3.92	1,592	7.71	466	6.94	101	5.96
Shell-mold and/or shell-core machine operators	930	7.52	936	6.52	-	-	64	5.69	42	5.38	-	-	619	8.22	702	7.06	40	5.84
Truckers, power ³	2,233	7.10	752	6.64	18	5.15	158	5.99	122	5.68	107	4.24	1,580	7.66	562	7.27	67	5.76
Forklift	1,985	7.16	691	6.75	-	-	136	5.92	92	5.65	92	4.27	1,419	7.74	528	7.34	43	5.62
Tumbler operators	169	7.29	137	5.97	-	-	6	5.77	-	-	40	4.07	144	7.48	78	7.21	-	-
Welders, hand	499	7.70	113	6.39	9	5.88	37	7.95	-	-	12	4.69	388	7.89	47	7.95	10	6.20

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

² Includes data for regions in addition to those shown separately.

³ Includes data for workers in classification in addition to those shown separately.

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

Table 9. Gray iron foundries, except pipe and fittings: Occupational averages by size of establishment

(Number of workers and average straight-time hourly earnings¹ in selected occupations, United States and selected regions, September 1979)

Occupation	United States ²				New England		Middle Atlantic				Border States	
	Establishments with—											
	50-249 workers		250 workers or more		50-249 workers		50-249 workers		250 workers or more		50-249 workers	
	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
Carpenters, maintenance	68	\$7.26	57	\$9.23	10	\$6.48	10	\$6.35	9	\$7.50	-	-
Charging-machine operators	151	5.83	237	7.87	-	-	17	5.31	19	6.45	-	-
Chippers and grinders	4,458	5.77	6,046	7.78	141	6.58	719	5.58	279	7.31	102	\$5.57
Chippers	393	6.41	1,020	8.52	-	-	48	6.09	-	-	-	-
Grinders	1,545	5.68	1,747	6.94	43	6.71	183	5.31	-	-	-	-
Chippers and grinders	2,520	5.72	3,279	8.00	83	6.62	488	5.63	198	8.02	49	4.98
Core assemblers and finishers	732	5.84	2,985	8.55	15	5.53	50	5.89	58	6.19	-	-
Coremakers, hand ³	1,043	6.51	309	7.45	63	7.13	268	6.44	51	8.28	42	5.90
Bench	512	6.58	201	7.42	25	6.13	92	6.77	37	7.35	24	6.07
Coremakers, machine ³	654	6.05	886	8.00	15	6.32	48	5.63	37	6.84	-	-
Core-blowing machine	474	5.93	361	7.99	-	-	33	5.32	14	7.48	-	-
Turn-over-draw machine	73	6.22	72	7.43	-	-	-	-	-	-	-	-
Crane operators, electric bridge	714	6.71	567	8.02	24	5.96	136	6.44	132	8.70	29	6.20
Under 20 tons	415	6.79	215	7.02	23	5.97	60	6.74	25	6.02	13	6.07
20 tons and over	299	6.60	352	8.64	-	-	76	6.21	107	9.32	-	-
Cupola tenders	322	6.02	320	7.62	24	5.79	45	5.74	18	6.94	21	5.32
Electricians, maintenance	232	7.80	1,196	9.71	-	-	33	8.03	45	8.72	8	7.70
Furnace tenders, electric	394	6.41	461	7.82	-	-	38	6.13	34	6.12	17	6.77
Furnace tenders' helpers	277	6.42	74	6.91	-	-	31	5.36	-	-	-	-
Helpers, trades, maintenance	226	6.22	363	7.40	-	-	-	-	-	-	-	-
Inspectors, class B	110	5.68	764	7.32	-	-	29	5.61	67	5.82	-	-
Inspectors, class C	418	5.76	1,459	7.49	16	5.05	32	5.32	59	5.57	-	-
Laborers, general foundry	2,886	5.27	4,683	7.21	94	5.67	518	4.96	304	5.83	39	4.71
Laborers, material handling	185	6.14	631	7.36	33	5.68	36	6.64	-	-	-	-
Mechanics, general	624	6.36	953	8.09	29	6.23	127	6.49	73	7.63	-	-
Mechanics, maintenance	674	6.93	1,487	9.02	-	-	49	5.77	43	8.54	-	-
Molders, floor	1,204	7.02	239	8.58	67	7.64	210	6.69	92	8.90	41	6.40
Molders, hand, bench	191	5.78	37	9.16	-	-	42	6.13	-	-	-	-
Molders, machine, automatic	549	6.67	629	7.79	-	-	53	5.84	36	6.66	-	-
Molders, machine, semi-automatic ³	1,966	6.72	1,248	8.03	123	7.81	311	6.23	111	7.81	52	6.82
Squeeze	1,156	6.62	530	7.49	69	7.75	80	6.38	46	7.59	-	-
Patternmakers, metal	40	7.52	796	10.65	7	6.22	-	-	-	-	-	-
Patternmakers, wood	205	8.18	184	9.25	-	-	56	6.91	36	8.79	17	6.58
Pourers, metal	1,297	6.26	1,818	7.50	31	5.76	112	5.70	110	6.86	18	6.23
Repairers, wood patterns	231	6.18	64	6.76	-	-	29	5.81	-	-	-	-
Sand- or shot-blast operators	400	5.81	510	7.61	8	6.20	59	5.34	17	5.66	6	5.24
Sand-slinger operators	129	6.00	86	8.02	-	-	-	-	16	8.88	-	-
Sand mixers	551	5.83	596	7.40	17	6.07	79	5.89	35	6.45	15	5.69
Shakeout workers	1,676	5.69	1,665	7.73	70	5.81	251	5.46	105	6.54	60	5.42
Shell-mold and/or shell-core machine operators	531	6.08	1,335	7.39	-	-	47	4.85	26	6.60	-	-
Truckers, power	672	5.63	2,313	7.38	12	5.07	76	5.64	82	6.31	-	-
Forklift	535	5.53	2,141	7.44	-	-	58	5.50	78	6.24	-	-
Other than forklift	137	6.01	172	6.62	-	-	18	6.11	-	-	-	-
Tumbler operators	135	5.68	171	7.51	-	-	-	-	-	-	-	-
Welders, hand ³	291	6.44	321	8.38	-	-	25	6.37	18	9.67	7	6.25

See footnotes at end of table.

Table 9. Gray iron foundries, except pipe and fittings: Occupational averages by size of establishment—Continued

(Number of workers and average straight-time hourly earnings¹ in selected occupations, United States and selected regions, September 1979)

Occupation	United States ²				New England		Middle Atlantic				Border States	
	Establishments with—											
	50-249 workers		250 workers or more		50-249 workers		50-249 workers		250 workers or more		50-249 workers	
	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
Repairers	112	\$7.17	164	\$8.28	-	-	17	\$6.26	-	-	-	-
	Southeast				Great Lakes				Middle West		Pacific	
	Establishments with—											
	50-249 workers		250 workers or more		50-249 workers		250 workers or more		50-249 workers		50-249 workers	
Carpenters, maintenance	-	-	-	-	38	\$8.13	46	\$9.76	-	-	-	-
Charging-machine operators	-	-	-	-	82	6.18	-	-	15	\$6.35	11	\$5.49
Chippers and grinders	298	\$4.53	553	\$4.15	1,976	6.21	4,278	8.62	376	5.40	379	6.69
Chippers	-	-	-	-	133	6.65	924	8.95	24	6.36	123	6.91
Grinders	216	4.39	215	4.26	648	6.25	965	8.18	173	5.92	134	6.33
Chippers and grinders	-	-	-	-	1,195	6.13	2,389	8.67	179	4.76	122	6.85
Core assemblers and finishers	-	-	-	-	472	6.01	2,839	8.67	-	-	18	7.66
Coremakers, hand ³	41	5.01	46	4.82	378	6.97	135	8.59	67	6.43	95	7.55
Bench	-	-	-	-	222	7.01	112	8.70	40	5.90	50	8.02
Coremakers, machine ³	126	5.09	-	-	206	6.74	694	8.51	-	-	29	7.70
Core-blowing machine	117	5.25	-	-	101	6.71	294	8.31	-	-	15	7.14
Turn-over-draw machine	-	-	-	-	-	-	-	-	16	4.99	-	-
Crane operators, electric bridge	-	-	48	5.48	410	7.16	335	8.44	40	6.04	33	6.71
Under 20 tons	-	-	-	-	221	7.39	124	7.74	29	6.30	27	6.91
20 tons and over	-	-	-	-	189	6.88	211	8.86	-	-	-	-
Cupola tenders	-	-	-	-	128	6.77	271	7.88	27	7.06	28	6.26
Electricians, maintenance	-	-	51	6.60	151	7.92	1,039	10.02	-	-	-	-
Furnace tenders, electric	44	5.68	45	4.83	171	6.72	362	8.40	37	6.60	27	7.27
Furnace tenders' helpers	-	-	-	-	166	7.21	37	8.38	13	5.41	-	-
Helpers, trades, maintenance	-	-	-	-	116	6.49	329	7.58	-	-	15	6.25
Inspectors, class B	-	-	-	-	51	5.95	524	8.12	8	6.40	-	-
Inspectors, class C	-	-	171	4.99	209	6.09	1,165	8.05	82	5.34	36	6.80
Laborers, general foundry	258	3.84	414	4.51	1,347	5.61	3,213	8.06	103	5.71	320	6.13
Laborers, material handling	-	-	-	-	64	7.22	448	7.96	12	5.67	-	-
Mechanics, general	89	6.27	-	-	244	6.40	626	8.45	78	6.12	14	7.92
Mechanics, maintenance	-	-	154	6.15	464	7.05	1,165	9.61	22	7.95	61	7.71
Molders, floor	61	5.35	26	7.18	640	7.49	-	-	29	7.52	75	8.19
Molders, hand, bench	-	-	-	-	47	7.63	20	9.70	-	-	-	-
Molders, machine, automatic	45	4.58	67	5.76	259	6.58	485	8.20	-	-	44	8.32
Molders, machine, semi-automatic ³	304	5.83	274	5.91	702	7.23	773	8.88	194	6.89	149	7.64
Squeeze	208	5.83	212	5.64	485	6.90	242	9.12	127	6.76	121	7.59
Patternmakers, metal	-	-	-	-	23	7.79	745	10.87	-	-	-	-
Patternmakers, wood	-	-	38	5.71	82	9.32	94	11.19	16	7.45	8	11.36
Pourers, metal	185	4.65	242	4.84	631	7.34	1,343	8.15	136	5.26	53	6.54
Repairers, wood patterns	-	-	-	-	146	6.05	42	7.13	19	6.88	14	7.40
Sand- or shot-blast operators	45	4.62	47	4.58	202	6.20	431	8.07	14	6.31	34	6.62
Sand-slinger operators	-	-	-	-	34	6.65	35	8.28	14	5.94	-	-

See footnotes at end of table.

Table 9. Gray iron foundries, except pipe and fittings: Occupational averages by size of establishment—Continued(Number of workers and average straight-time hourly earnings¹ in selected occupations, United States and selected regions, September 1979)

	Southeast				Great Lakes				Middle West		Pacific	
	Establishments with—											
	50-249 workers		250 workers or more		50-249 workers		250 workers or more		50-249 workers		50-249 workers	
Sand mixers	48	\$4.49	68	\$5.03	273	\$6.18	442	\$8.00	58	\$5.58	28	\$6.25
Shakeout workers	155	4.66	168	4.80	735	6.19	1,323	8.28	168	5.32	129	6.51
Shell-mold and/or shell-core machine operators	30	4.77	122	4.14	280	6.61	1,041	7.87	72	5.63	41	7.09
Truckers, power	51	5.13	178	4.97	371	5.88	1,771	7.91	47	5.49	43	6.39
Forklift	30	4.92	154	4.97	297	5.77	1,650	7.97	38	5.38	40	6.44
Other than forklift	-	-	24	4.96	74	6.31	121	7.10	9	5.93	-	-
Tumbler operators	-	-	24	4.60	86	6.15	136	8.17	16	4.98	-	-
Welders, hand ³	-	-	10	4.77	166	6.79	269	8.59	33	5.71	20	7.87
Repairers	-	-	-	-	64	8.08	139	8.64	-	-	9	6.96

¹ Excludes premium pay for overtime and for work on weekends, holidays, and late shifts.² Includes data for regions in addition to those shown separately.³ Includes data for workers in classification in addition to those shown separately.

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

Table 10. Gray iron foundries, except pipe and fittings: Occupational averages by labor-management contract coverage

(Number of workers and average straight-time hourly earnings¹ in selected occupations, United States and selected regions, September 1979)

Occupation	United States ²				New England		Middle Atlantic		Border States		Southeast		Great Lakes		Middle West		Pacific	
	Establishments with—																	
	Majority of workers covered		None or minority of workers covered		Majority of workers covered													
	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	Number of workers	Average hourly earnings
Carpenters, maintenance	114	\$8.40	11	\$5.74	-	-	19	\$6.89	-	-	-	-	84	\$9.02	-	-	-	-
Charging-machine operators	322	7.34	66	5.78	-	-	24	5.64	-	-	18	\$4.50	253	7.91	-	-	11	\$5.49
Chippers and grinders	9,032	7.25	1,472	4.96	132	\$6.67	891	6.12	887	\$6.31	509	4.54	5,893	7.98	233	\$5.11	356	6.76
Chippers	1,284	8.27	129	4.60	-	-	41	6.09	-	-	-	-	1,052	8.67	24	6.24	123	6.91
Grinders	2,623	6.74	669	4.84	55	6.86	168	5.27	-	-	171	4.71	1,560	7.45	38	6.05	111	6.51
Chippers and grinders	5,125	7.25	674	5.15	71	6.62	682	6.33	406	6.62	-	-	3,281	8.00	171	4.73	122	6.85
Core assemblers and finishers	3,527	8.15	190	5.50	15	5.53	95	6.28	85	6.00	-	-	3,225	8.37	-	-	-	-
Coremakers, hand ³	1,079	7.07	273	5.33	60	7.25	280	6.72	85	6.32	35	6.53	485	7.44	39	6.01	85	7.61
Bench	533	7.32	180	5.31	22	6.31	90	7.00	23	6.33	-	-	306	7.67	30	5.75	50	8.02
Bench and floor	392	6.74	74	5.14	-	-	126	6.34	57	6.42	33	6.63	121	6.85	-	-	26	7.14
Coremakers, machine ³	1,226	7.47	314	6.01	15	6.32	73	6.20	102	6.57	111	5.18	800	8.34	39	5.39	27	7.76
Core-blowing machine	600	7.04	235	6.24	-	-	45	5.98	-	-	-	-	311	8.41	27	5.20	13	7.17
Turn-over-draw machine	112	7.25	33	5.36	-	-	15	7.09	-	-	-	-	-	-	12	5.83	-	-
Crane operators, electric bridge ³	1,178	7.44	103	5.55	24	5.96	268	7.55	65	6.12	43	5.48	708	7.83	29	5.60	33	6.71
Under 20 tons	531	7.12	99	5.52	23	5.97	85	6.53	37	6.11	-	-	308	7.72	18	5.76	27	6.91
Cupola tenders	511	7.11	131	5.67	24	5.67	54	6.12	28	5.67	16	5.61	352	7.65	10	5.24	25	6.48
Electricians, maintenance	1,366	9.49	62	7.23	-	-	76	8.47	50	7.53	41	6.47	1,164	9.83	-	-	-	-
Furnace tenders, electric	707	7.44	148	5.92	-	-	48	6.40	19	6.90	52	5.56	515	7.87	27	6.12	23	7.40
Furnace tenders' helpers	268	6.87	83	5.39	-	-	32	5.87	-	-	32	4.63	175	7.65	-	-	-	-
Helpers, trades, maintenance	424	7.43	165	5.70	-	-	23	7.74	-	-	-	-	349	7.73	-	-	15	6.25
Inspectors, class A	186	8.60	11	7.01	-	-	-	-	-	-	-	-	149	9.29	-	-	-	-
Inspectors, class B	794	7.27	80	5.57	-	-	60	5.93	42	6.63	-	-	557	7.98	6	6.02	-	-
Inspectors, class C	1,703	7.32	174	5.03	13	5.57	53	5.55	41	6.08	144	5.17	1,353	7.78	41	5.30	36	6.80
Laborers, general foundry	6,637	6.76	932	4.39	87	5.73	632	5.53	694	5.56	418	4.62	4,371	7.43	101	5.64	308	6.15
Laborers, material handling	748	7.29	68	4.79	28	5.60	74	7.01	-	-	-	-	512	7.86	-	-	-	-
Machinists, maintenance	292	8.76	56	6.57	-	-	16	7.24	-	-	-	-	213	9.42	-	-	-	-
Mechanics, general	1,329	7.62	248	6.24	30	6.24	192	6.91	-	-	74	6.46	752	8.15	53	5.94	-	-
Mechanics, maintenance	2,028	8.48	133	6.58	-	-	87	7.18	72	7.32	138	6.23	1,571	8.97	-	-	61	7.71
Molders, floor	991	7.52	452	6.75	55	7.84	248	7.32	36	6.52	30	6.62	510	7.66	29	7.20	73	8.20
Molders, machine, automatic	816	7.51	362	6.72	-	-	64	6.46	17	5.91	57	5.95	620	7.79	9	5.65	44	8.32
Molders, machine, semi-automatic ³	2,488	7.54	726	6.17	83	8.07	322	6.36	77	7.65	351	5.94	1,352	8.27	134	6.79	133	7.72
Roll-over	578	7.60	138	6.81	31	7.99	183	6.13	-	-	-	-	302	8.43	24	7.78	-	-
Squeeze	1,180	7.31	506	5.91	50	8.18	75	6.60	-	-	232	5.90	628	7.90	82	6.59	109	7.67
Patternmakers, wood	347	8.89	42	7.00	-	-	84	7.63	26	7.05	39	6.16	176	10.32	12	7.93	8	11.36
Pourers, metal	2,564	7.36	551	5.23	30	6.35	139	6.51	87	6.32	276	4.97	1,860	7.99	87	5.47	49	6.59
Repairers, wood patterns	197	6.35	98	6.21	-	-	29	5.81	-	-	-	-	134	6.38	-	-	13	7.58
Sand- or shot-blast operators	799	7.07	111	5.06	8	6.20	61	5.35	17	5.88	44	5.14	610	7.52	8	5.70	33	6.65
Sand-slinger operators	166	7.32	49	5.07	-	-	27	8.21	-	-	-	-	61	7.51	15	5.96	-	-
Sand mixers	928	6.96	219	5.33	16	6.16	100	6.18	-	-	65	5.19	630	7.51	38	5.58	23	6.36
Shakeout workers	2,657	7.12	684	5.09	59	5.63	261	5.91	64	5.99	196	5.23	1,810	7.77	122	5.19	125	6.58
Shell-mold and/or shell-core machine operators	1,629	7.28	237	5.25	-	-	62	5.65	110	7.18	56	4.94	1,246	7.64	55	5.47	-	-

See footnotes at end of table.

Table 10. Gray iron foundries, except pipe and fittings: Occupational averages by labor-management contract coverage—Continued(Number of workers and average straight-time hourly earnings¹ in selected occupations, United States and selected regions, September 1979)

Occupation	United States ²		New England		Middle Atlantic		Border States		Southeast		Great Lakes		Middle West		Pacific			
	Establishments with—																	
	Majority of workers covered		None or minority of workers covered		Majority of workers covered													
	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	Number of workers	Average hourly earnings
Truckers, power ³	2,722	\$7.13	263	\$5.41	14	\$5.09	144	\$6.03	217	\$5.90	179	\$5.20	2,051	\$7.60	60	\$5.55	39	\$6.44
Forklift	2,447	7.22	229	5.33	-	-	122	5.97	217	5.90	139	5.15	1,878	7.67	37	5.42	38	6.47
Tumbler operators	238	7.10	68	5.32	-	-	6	5.77	-	-	19	4.03	184	7.65	17	5.44	-	-
Welders, hand ³	548	7.73	64	5.09	-	-	43	7.75	-	-	-	-	435	7.90	18	5.88	20	7.87
Repairers	256	8.07	20	4.71	-	-	19	6.30	-	-	-	-	203	8.46	6	6.68	9	6.96
Combination	206	7.08	42	5.31	-	-	20	9.07	-	-	-	-	164	6.87	-	-	-	-

¹ Excludes premium pay for overtime and for work on weekends, holidays, and late shifts.² Includes data for regions in addition to those shown separately.³ Includes data for workers in classification in addition to those shown separately.

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

Table 11. Gray iron foundries, except pipe and fittings: Occupational averages by method of wage payment

(Number of workers and average straight-time hourly earnings¹ in selected occupations, United States and selected regions, September 1979)

Occupation	United States ²				New England		Middle Atlantic				Border States	
	Timeworkers		Incentive workers		Timeworkers		Timeworkers		Incentive workers		Timeworkers	
	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
Charging-machine operators	324	\$7.10	64	\$6.98	-	-	22	\$5.54	14	\$6.49	-	-
Chippers and grinders	7,205	6.68	3,299	7.46	118	\$5.51	777	5.56	221	7.82	72	\$5.28
Chippers	1,243	7.95	170	7.84	34	5.42	26	5.98	31	6.28	-	-
Grinders	1,787	5.73	1,505	7.09	41	4.96	206	5.15	49	6.20	-	-
Chippers and grinders	4,175	6.72	1,624	7.76	-	-	545	5.70	141	8.73	49	4.98
Core assemblers and finishers	3,164	8.08	553	7.62	19	4.95	64	5.56	44	6.76	-	-
Coremakers, hand	858	6.31	494	7.44	54	5.89	199	6.21	120	7.61	36	5.58
Bench	411	6.44	302	7.33	34	5.60	41	6.74	88	7.03	14	5.65
Floor	144	6.71	29	8.31	17	6.29	51	6.19	-	-	-	-
Bench and floor	303	5.95	163	7.50	-	-	107	6.01	19	8.18	17	5.70
Coremakers, machine ³	911	7.14	629	7.23	12	5.95	60	5.57	25	7.56	-	-
Core-blowing machine	479	6.69	356	6.99	-	-	41	5.41	6	9.74	-	-
Turn-over-draw machine	56	6.66	89	6.93	-	-	-	-	-	-	-	-
Crane operators, electric bridge ³	1,155	7.08	126	9.19	25	5.88	221	6.80	-	-	59	6.03
Under 20 tons	579	6.84	51	7.23	-	-	71	6.09	-	-	31	5.92
Cupola tenders	583	6.71	59	7.86	26	5.57	61	6.01	-	-	30	5.61
Furnace tenders, electric	772	7.04	83	8.38	-	-	68	6.13	-	-	13	6.62
Inspectors, class B	722	6.95	152	7.92	-	-	92	5.62	-	-	-	-
Inspectors, class C	1,604	7.03	273	7.55	16	5.05	91	5.48	-	-	41	6.08
Laborers, general foundry	7,276	6.46	293	6.56	92	5.47	822	5.28	-	-	712	5.52
Mechanics, general	1,546	7.40	31	7.56	33	6.17	188	6.73	-	-	-	-
Molders, floor	957	6.78	486	8.27	41	6.38	213	6.99	89	8.25	30	5.88
Molders, hand, bench	148	5.32	80	8.19	-	-	18	5.37	-	-	-	-
Molders, machine, automatic	604	6.84	574	7.72	-	-	47	5.41	42	7.02	17	5.91
Molders, machine, semi-automatic	1,068	6.61	2,146	7.54	15	6.04	194	5.56	228	7.57	12	5.33
Jarring	35	7.32	155	8.05	-	-	-	-	-	-	-	-
Roll-over	196	5.56	520	8.16	-	-	-	-	65	8.18	-	-
Squeeze	424	6.05	1,262	7.17	12	6.12	-	-	101	7.27	8	5.40
Other (single) machine	42	6.02	131	7.72	-	-	-	-	-	-	-	-
Combination (operates more than one type of machine)	371	7.80	78	8.01	-	-	-	-	10	6.45	-	-
Patternmakers, wood	375	8.68	14	8.72	-	-	87	7.51	-	-	21	6.88
Pourers, metal	1,994	6.57	1,121	7.73	25	5.33	138	5.55	84	7.46	-	-
Repairers, wood patterns	281	6.30	14	6.38	6	5.25	38	5.71	-	-	-	-
Sand- or shot-blast operators	760	6.68	150	7.56	8	6.20	74	5.41	-	-	19	5.87
Sand-slinger operators	149	6.37	66	7.80	-	-	19	6.78	10	10.36	-	-
Sand mixers	1,016	6.49	131	7.89	19	5.95	94	5.53	20	8.56	-	-
Shakeout workers	2,629	6.41	712	7.81	72	5.55	294	5.46	62	7.29	39	5.45
Shell-mold and/or shell-core machine operators	1,084	6.62	782	7.57	-	-	63	5.21	10	7.13	-	-
Truckers, power	2,887	6.99	98	6.72	22	4.97	158	5.99	-	-	219	5.90
Forklift	2,618	7.06	58	7.04	-	-	136	5.92	-	-	219	5.90
Other than forklift	269	6.36	40	6.27	-	-	22	6.38	-	-	-	-
Tumbler operators	192	5.98	114	7.92	-	-	-	-	-	-	-	-
Welders, hand ³	577	7.37	35	8.90	10	5.92	35	6.84	-	-	-	-
Repairers	255	7.81	21	8.10	-	-	19	6.30	-	-	-	-
Combination	234	6.58	14	10.11	-	-	12	7.29	-	-	-	-

See footnotes at end of table.

Table 11. Gray iron foundries, except pipe and fittings: Occupational averages by method of wage payment—Continued

(Number of workers and average straight-time hourly earnings¹ in selected occupations, United States and selected regions, September 1979)

	Southeast		Great Lakes				Middle West				Pacific	
	Timeworkers		Timeworkers		Incentive workers		Timeworkers		Incentive workers		Timeworkers	
	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
Charging-machine operators	27	\$4.31	240	\$7.73	35	\$7.62	9	\$6.56	-	-	-	-
Chippers and grinders	836	4.29	4,321	7.79	1,933	8.01	261	4.89	125	\$6.58	365	\$6.61
Chippers	-	-	936	8.71	121	8.31	18	5.94	-	-	123	6.91
Grinders	416	4.34	787	6.94	826	7.85	-	-	-	-	131	6.33
Chippers and grinders	-	-	2,598	7.71	986	8.11	173	4.73	-	-	111	6.61
Core assemblers and finishers	14	3.81	2,906	8.33	405	8.06	-	-	16	6.62	18	7.66
Coremakers, hand	72	4.55	271	7.36	242	7.44	32	5.53	37	7.33	95	7.55
Bench	45	3.62	154	7.66	180	7.51	30	5.47	-	-	50	8.02
Floor	-	-	42	7.91	-	-	-	-	-	-	-	-
Bench and floor	-	-	75	6.42	46	7.56	-	-	-	-	36	7.12
Coremakers, machine ²	169	5.17	536	8.41	364	7.65	36	4.83	-	-	29	7.70
Core-blowing machine	115	5.27	215	8.49	180	7.20	-	-	-	-	15	7.14
Turn-over-draw machine	-	-	-	-	-	-	16	4.99	-	-	-	-
Crane operators, electric bridge ³	53	5.40	680	7.67	-	-	40	6.04	-	-	33	6.71
Under 20 tons	35	5.91	322	7.58	23	6.68	29	6.30	-	-	27	6.91
Cupola tenders	25	5.49	365	7.48	34	8.03	10	5.24	-	-	29	6.24
Furnace tenders, electric	86	5.27	478	7.69	55	9.35	37	6.60	-	-	27	7.27
Inspectors, class B	-	-	446	7.88	129	8.08	6	6.02	-	-	-	-
Inspectors, class C	177	4.95	1,121	7.75	253	7.72	90	5.39	-	-	36	6.80
Laborers, general foundry	670	4.26	4,373	7.35	187	7.18	101	5.71	-	-	324	6.12
Mechanics, general	121	6.74	870	7.88	-	-	69	5.92	-	-	14	7.92
Molders, floor	-	-	438	7.25	304	8.33	-	-	22	7.77	73	7.99
Molders, hand, bench	-	-	41	8.00	26	8.63	-	-	-	-	-	-
Molders, machine, automatic	87	5.20	403	7.44	341	7.87	17	5.35	-	-	24	7.76
Molders, machine, semi-automatic	223	5.87	337	8.25	1,138	8.05	49	5.96	160	7.20	136	7.53
Jarring	-	-	34	7.35	-	-	-	-	-	-	-	-
Roll-over	-	-	14	6.90	296	8.44	-	-	37	7.82	-	-
Squeeze	119	5.89	52	6.16	675	7.75	37	5.96	99	7.10	117	7.56
Other (single) machine	-	-	-	-	-	-	-	-	-	-	10	6.13
Combination (operates more than one type of machine)	-	-	-	-	-	-	-	-	-	-	-	-
Patternmakers, wood	47	6.33	176	10.32	-	-	16	7.45	-	-	8	11.36
Pourers, metal	425	4.76	1,068	7.83	906	7.96	103	5.17	52	5.80	53	6.54
Repairers, wood patterns	-	-	188	6.29	-	-	13	7.20	-	-	15	7.38
Sand- or shot-blast operators	92	4.60	496	7.44	137	7.62	8	5.61	-	-	34	6.62
Sand-slinger operators	-	-	49	7.49	20	7.44	14	5.94	-	-	-	-
Sand mixers	115	4.81	616	7.20	99	7.95	60	5.54	-	-	30	6.21
Shakeout workers	322	4.73	1,528	7.30	530	8.22	138	5.00	49	6.46	126	6.44
Shell-mold and/or shell-core machine operators	146	4.19	718	7.45	603	7.78	-	-	26	6.30	41	7.09
Truckers, power	229	5.00	2,086	7.57	-	-	50	5.43	-	-	43	6.39
Forklift	184	4.96	1,911	7.63	36	7.63	41	5.41	-	-	40	6.44
Other than forklift	45	5.19	175	6.84	-	-	9	5.53	-	-	-	-
Tumbler operators	40	4.07	121	6.79	101	8.10	16	4.98	-	-	-	-
Welders, hand ³	12	4.69	414	7.88	21	8.28	34	5.76	-	-	20	7.87
Repairers	-	-	186	8.46	17	8.43	6	6.68	-	-	9	6.96
Combination	-	-	160	6.85	-	-	-	-	-	-	-	-

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

² Includes data for regions in addition to those shown separately.

³ Includes data for workers in classification in addition to those shown separately.

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

Table 12. Gray iron pipe and fittings foundries: Average hourly earnings by selected characteristics

(Number and average straight-time hourly earnings¹ of production workers by selected characteristics, United States and selected regions, September 1979)

Characteristic	United States ²		Middle Atlantic		Southeast	
	Number of workers	Average hourly earnings	Number of workers	Average hourly earnings	Number of workers	Average hourly earnings
All production workers	15,204	\$6.00	1,063	\$6.26	8,799	\$5.99
Size of community:						
Metropolitan areas ³	13,214	5.90	1,063	6.26	8,027	6.02
Nonmetropolitan areas	1,990	6.62	-	-	-	-
Size of establishment:						
50-249 workers	904	5.46	-	-	-	-
250 workers or more	14,300	6.03	999	6.30	8,371	6.06
Labor-management contract coverage:						
Establishments with--						
Majority of workers covered	8,992	6.16	1,063	6.26	5,902	5.71
None or minority of workers covered	6,212	5.77	-	-	-	-
Type of foundry ownership:						
Commercial ⁴	14,984	6.03	1,063	6.26	8,799	5.99

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

² Includes data for regions in addition to those shown separately.

³ Standard Metropolitan Statistical Areas as defined by the U.S. Office of Management and Budget through

February 1974.

⁴ For definition of commercial and captive foundries, see appendix A.

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

Table 13. Earnings distribution: Gray iron pipe and fittings foundries

(Percent distribution of production workers, United States and selected regions, September 1979)

Hourly earnings	United States ¹	Middle Atlantic	Southeast	Hourly earnings	United States ¹	Middle Atlantic	Southeast
Number of workers	15,204	1,063	8,799	\$5.60 and under \$5.80	8.3	4.1	12.1
Average hourly earnings ²	\$6.00	\$6.26	\$5.99	\$5.80 and under \$6.00	5.9	2.8	9.6
Total	100.0	100.0	100.0	\$6.00 and under \$6.20	5.1	16.6	4.6
Under \$4.00	5.3	.3	1.1	\$6.20 and under \$6.40	7.2	6.1	7.6
\$4.00 and under \$4.20	1.7	.2	.4	\$6.40 and under \$6.60	3.6	10.7	1.8
\$4.20 and under \$4.40	2.1	1.1	.9	\$6.60 and under \$6.80	4.4	12.1	3.3
\$4.40 and under \$4.60	3.1	.8	1.2	\$6.80 and under \$7.00	6.1	3.6	6.2
\$4.60 and under \$4.80	2.6	2.2	2.5	\$7.00 and under \$7.20	6.3	9.0	7.7
\$4.80 and under \$5.00	3.7	3.1	5.4	\$7.20 and under \$7.40	2.2	1.0	2.2
\$5.00 and under \$5.20	7.6	10.5	7.9	\$7.40 and under \$7.60	2.2	5.6	1.1
\$5.20 and under \$5.40	7.1	1.6	10.5	\$7.60 and under \$7.80	2.0	4.0	1.3
\$5.40 and under \$5.60	5.5	3.0	7.5	\$7.80 and under \$8.00	1.2	.4	.2
				\$8.00 and under \$8.20	3.2	-	4.5
				\$8.20 and over	3.5	1.1	.6

¹ Includes data for regions in addition to those shown separately.² Excludes premium pay for overtime and for work on weekends, holidays, and late shifts.

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

Table 14. Gray iron pipe and fittings foundries: Occupational averages

(Number and average straight-time hourly earnings in selected occupations, United States¹ and selected regions, September 1979)

Occupation	United States				Middle Atlantic				Southeast				
	Number of workers	Hourly earnings ²			Number of workers	Hourly earnings ²			Number of workers	Hourly earnings ²			
		Mean	Median	Middle range		Mean	Median	Middle range		Mean	Median	Middle range	
Air-set operators	15	\$5.39	\$4.71	\$4.54 - \$6.57	-	-	-	-	-	-	-	-	-
Carpenters, maintenance	57	6.91	6.52	6.29 - 8.02	-	-	-	-	37	\$7.01	\$6.88	\$6.29 - \$8.02	-
Centrifugal-casting-machine operators, pipe	189	6.77	6.73	6.14 - 7.43	-	-	-	-	99	6.43	6.23	5.91 - 6.87	-
Metal molds	147	6.87	6.87	6.23 - 7.62	-	-	-	-	77	6.47	6.23	5.91 - 6.90	-
Sand-lined molds	42	6.44	6.40	6.00 - 6.72	-	-	-	-	22	6.30	6.31	5.91 - 6.61	-
Charging-machine operators	87	5.42	5.02	4.79 - 6.08	-	-	-	-	45	5.34	5.16	4.63 - 5.94	-
Chippers and grinders	769	5.61	5.47	4.98 - 6.48	31	\$6.02	\$5.40	\$4.92 - \$6.63	441	5.49	5.47	5.35 - 5.94	-
Grinders	491	5.56	5.47	4.98 - 6.27	29	6.06	6.30	4.83 - 6.63	305	5.39	5.47	4.99 - 5.47	-
Chippers and grinders	250	5.72	5.94	4.97 - 6.50	-	-	-	-	119	5.80	5.94	5.94 - 5.94	-
Coremakers, hand	152	6.19	6.28	5.48 - 6.81	17	6.17	6.36	6.19 - 6.46	-	-	-	-	-
Bench	55	5.74	5.28	4.68 - 6.27	-	-	-	-	46	5.59	5.27	4.73 - 6.09	-
Coremakers, machine	153	6.02	5.31	5.19 - 7.06	-	-	-	-	54	6.41	5.86	5.41 - 8.02	-
Core-blowing machine	120	5.52	5.19	5.19 - 5.49	-	-	-	-	42	5.94	5.49	5.41 - 6.29	-
Turn-over-draw machine	27	8.10	8.02	7.84 - 8.95	-	-	-	-	-	-	-	-	-
Crane operators, electric bridge	278	6.71	6.80	6.19 - 7.04	-	-	-	-	171	6.49	6.61	6.08 - 7.04	-
Under 20 tons	218	6.86	7.04	6.22 - 7.04	18	6.32	6.59	5.47 - 6.79	-	-	-	-	-
20 tons and over	60	6.17	6.28	5.66 - 6.54	-	-	-	-	36	6.15	6.24	5.38 - 6.39	-
Cupola tenders	67	6.07	5.79	5.34 - 6.63	9	6.18	-	-	37	5.69	5.68	5.55 - 5.93	-
Electricians, maintenance	274	7.28	7.41	6.82 - 7.87	28	7.32	7.41	7.17 - 7.66	197	7.20	7.10	6.82 - 7.73	-
Furnace tenders, electric	33	6.35	6.16	5.51 - 7.46	-	-	-	-	26	6.44	6.16	5.43 - 7.46	-
Helpers, trades, maintenance	75	5.83	5.88	4.98 - 6.55	-	-	-	-	38	5.85	5.88	5.79 - 5.88	-
Inspectors, class A	73	6.49	6.09	5.66 - 7.10	-	-	-	-	21	6.52	6.09	5.70 - 7.77	-
Inspectors, class B	81	6.06	6.08	5.58 - 6.80	-	-	-	-	60	6.04	6.01	5.67 - 6.12	-
Inspectors, class C	224	5.88	5.38	5.38 - 6.72	-	-	-	-	212	5.84	5.38	5.38 - 6.38	-
Laborers, general foundry	1,583	4.84	4.89	3.95 - 5.79	113	5.50	5.67	5.05 - 6.05	878	5.23	5.16	4.81 - 5.79	-
Laborers, material handling	352	4.76	5.04	3.96 - 5.23	24	4.98	5.10	5.06 - 5.10	181	5.24	5.23	5.09 - 5.23	-
Machinists, maintenance	260	7.05	6.85	6.72 - 7.10	44	7.07	6.79	6.79 - 7.66	166	6.95	6.91	6.82 - 7.10	-
Mechanics, general	124	7.30	7.09	6.63 - 7.91	-	-	-	-	33	6.62	6.63	6.63 - 6.84	-
Mechanics, maintenance	665	6.81	6.82	6.29 - 7.10	-	-	-	-	429	6.80	6.82	6.39 - 7.10	-
Molders, floor	61	6.79	6.39	5.39 - 8.02	8	6.94	-	-	-	-	-	-	-
Molders, machine, semi-automatic	302	6.47	5.98	5.21 - 8.02	-	-	-	-	222	6.09	5.98	4.75 - 6.95	-
Jarring	42	7.98	8.02	7.62 - 8.42	-	-	-	-	21	7.94	8.02	7.51 - 8.44	-
Roll-over	47	6.49	6.13	5.39 - 7.76	-	-	-	-	-	-	-	-	-
Squeeze	164	6.20	5.67	4.38 - 7.79	-	-	-	-	133	5.87	5.21	4.38 - 6.65	-
Other (single) machine	12	5.75	-	-	-	-	-	-	-	-	-	-	-
Patternmakers, metal	64	7.17	6.92	6.74 - 6.94	-	-	-	-	-	-	-	-	-
Patternmakers, wood	49	7.41	7.75	6.76 - 7.88	-	-	-	-	33	7.41	7.88	6.59 - 8.08	-
Pourers, metal	240	6.04	6.01	5.27 - 6.68	23	6.30	6.29	6.26 - 6.54	146	5.78	5.71	5.25 - 6.27	-
Repairers, wood patterns	12	6.56	-	-	-	-	-	-	-	-	-	-	-
Sand- or shot-blast operators	39	5.61	5.56	5.30 - 6.31	-	-	-	-	23	5.16	5.47	5.15 - 5.51	-
Sand-slinger operators	29	6.69	6.56	6.45 - 7.00	-	-	-	-	7	6.37	-	-	-
Sand mixers	60	5.85	5.87	5.38 - 5.94	-	-	-	-	42	5.59	5.65	5.46 - 5.94	-

See footnotes at end of table.

Table 14. Gray iron pipe and fittings foundries: Occupational averages—Continued

(Number and average straight-time hourly earnings in selected occupations, United States¹ and selected regions, September 1979)

Occupation	United States					Middle Atlantic					Southeast				
	Number of workers	Hourly earnings ²			Number of workers	Hourly earnings ²			Number of workers	Hourly earnings ²					
		Mean	Median	Middle range		Mean	Median	Middle range		Mean	Median	Middle range			
Shakeout workers	137	\$5.71	\$5.50	\$5.25 - \$6.27	-	-	-	-	-	86	\$5.53	\$5.35	\$5.24 - \$5.70		
Shell-mold and/or shell-core machine operators	226	5.66	5.80	4.75 - 6.19	-	-	-	-	-	127	5.80	5.82	5.39 - 6.08		
Truckers, power	481	5.51	5.41	4.90 - 6.16	56	5.54	5.15	4.98 - 6.42	287	5.51	5.56	5.11 - 5.79			
Forklift	421	5.52	5.41	4.84 - 6.31	51	5.46	5.15	4.98 - 6.36	233	5.56	5.70	5.11 - 5.99			
Other than forklift	60	5.41	5.17	4.96 - 5.70	-	-	-	-	-	54	5.29	5.15	4.96 - 5.70		
Welders, hand	106	6.91	7.04	6.87 - 7.14	-	-	-	-	-	52	7.08	7.05	6.78 - 7.46		
Repairers	19	6.57	6.54	5.89 - 6.93	-	-	-	-	-	-	-	-	-		

¹ Includes data for regions in addition to those shown separately.

² See appendix A for definition of means, medians and middle ranges.

Medians and middle ranges are not provided for entries with fewer than 15 workers.

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

Table 15. Occupational earnings for selected localities : Gray iron pipe and fittings foundries

(Percent distribution of production workers by straight-time hourly earnings¹ in selected occupations, selected localities, September 1979)

Hourly earnings	Alabama								Birmingham						
	All production workers	Chippers and grinders ²	Core-makers, machine	Laborers, general foundry	Mechanics, maintenance	Molders, machine, squeeze	Pourers, metal	Shake-out workers	All production workers	Chippers and grinders ²	Core-makers, machine	Laborers, general foundry	Mechanics, maintenance	Pourers, metal	Shake-out workers
Number of workers	7,344	301	46	808	332	123	134	80	5,528	197	42	615	237	69	53
Average hourly earnings ¹	\$6.01	\$5.50	\$6.56	\$5.28	\$6.84	\$5.71	\$5.73	\$5.51	\$6.21	\$5.69	\$6.62	\$5.47	\$7.14	\$5.91	\$5.56
Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Under \$3.40 .....	.9	1.3	-	1.6	-	-	-	-	-	-	-	-	-	-	-
\$3.40 and under \$3.60 .....	.1	.3	-	-	-	-	.7	-	-	-	-	-	-	-	-
\$3.60 and under \$3.80 .....	.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
\$3.80 and under \$4.00 .....	.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
\$4.00 and under \$4.20 .....	.4	-	-	2.5	.6	1.6	-	-	-	-	-	-	-	-	-
\$4.20 and under \$4.40	1.1	-	-	1.7	1.2	39.0	-	-	.3	-	-	2.3	-	-	-
\$4.40 and under \$4.60 .....	.7	-	-	2.4	.3	1.6	1.5	-	.5	-	-	2.4	-	1.4	-
\$4.60 and under \$4.80	2.8	11.0	-	11.4	-	1.6	.7	-	1.3	2.5	-	6.5	-	-	-
\$4.80 and under \$5.00	5.6	9.0	-	14.6	-	1.6	16.4	5.0	5.6	11.7	-	14.0	-	2.9	-
\$5.00 and under \$5.20	8.6	5.3	-	12.9	-	5.7	2.2	17.5	6.3	7.6	-	5.2	-	4.3	24.5
\$5.20 and under \$5.40	9.0	19.6	2.2	3.1	-	7.3	16.4	36.2	6.1	8.6	2.4	4.1	-	23.2	30.2
\$5.40 and under \$5.60	6.4	4.7	37.0	1.0	-	.8	14.2	12.5	5.6	3.0	40.5	1.3	-	14.5	13.2
\$5.60 and under \$5.80	12.6	5.0	6.5	47.5	-	-	9.7	8.7	15.0	2.0	7.1	62.4	-	13.0	9.4
\$5.80 and under \$6.00	9.5	39.9	8.7	.9	6.0	10.6	10.4	5.0	10.3	58.9	-	1.1	-	7.2	3.8
\$6.00 and under \$6.20	4.3	1.7	-	.1	-	3.3	2.2	6.3	5.0	2.0	-	.2	-	2.9	5.7
\$6.20 and under \$6.40	7.1	.7	-	.2	19.0	3.3	10.4	-	6.2	1.0	-	.3	-	7.2	-
\$6.40 and under \$6.60	1.8	.3	2.2	-	1.5	2.4	2.2	-	1.7	.5	2.4	-	-	1.4	-
\$6.60 and under \$6.80	2.9	-	-	-	.9	.8	4.5	8.7	3.4	-	-	-	1.3	5.8	13.2
\$6.80 and under \$7.00	6.0	.7	-	-	26.2	.8	1.5	-	7.8	1.0	-	-	36.7	2.9	-
\$7.00 and under \$7.20	8.8	-	4.3	-	32.2	-	-	-	11.3	-	4.8	-	45.1	-	-
\$7.20 and under \$7.40	2.6	.3	2.2	-	-	-	-	-	3.3	.5	2.4	-	-	-	-
\$7.40 and under \$7.60 .....	.9	-	2.2	-	-	-	6.7	-	1.0	-	2.4	-	-	13.0	-
\$7.60 and under \$7.80	1.5	.3	2.2	-	-	.8	-	-	2.0	.5	2.4	-	-	-	-
\$7.80 and under \$8.00 .....	.1	-	-	.1	-	2.4	-	-	.1	-	-	.2	-	-	-
\$8.00 and under \$8.20	5.3	-	32.6	-	12.0	7.3	-	-	7.0	-	35.7	-	16.9	-	-
\$8.20 and over .....	.5	-	-	-	-	8.9	-	-	.2	-	-	-	-	-	-

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

chippers and grinders.

² Includes workers classified separately as chippers, grinders, and combination of

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

Table 16. Gray iron pipe and fittings foundries: Occupational averages by method of wage payment(Number of workers and average straight-time hourly earnings¹ in selected occupations, United States and selected regions, September 1979)

Occupation	United States ²				Middle Atlantic		Southeast			
	Timeworkers		Incentive workers		Timeworkers		Timeworkers		Incentive workers	
	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
Centrifugal-casting-machine operators, pipe ³	79	\$6.34	110	\$7.09	-	-	56	\$6.30	43	\$6.61
Metal molds	62	6.38	85	7.23	-	-	39	6.35	38	6.60
Chippers and grinders ³	547	5.31	222	6.35	26	\$5.68	342	5.45	-	-
Grinders	403	5.43	88	6.15	24	5.70	262	5.35	-	-
Chippers and grinders	142	4.97	108	6.70	-	-	-	-	-	-
Coremakers, hand	50	5.90	102	6.34	-	-	36	6.01	-	-
Coremakers, machine	119	5.61	34	7.47	-	-	39	6.44	-	-
Cupola tenders	54	5.84	13	7.02	9	6.18	30	5.67	-	-
Molders, floor	43	6.21	18	8.18	-	-	-	-	7	8.47
Molders, machine, semi-automatic	137	5.64	165	7.15	-	-	133	5.65	89	6.75
Pourers, metal	101	5.65	139	6.32	-	-	56	5.54	90	5.93
Sand- or shot-blast operators	33	5.50	6	6.23	-	-	20	5.08	-	-
Sand mixers	47	5.57	13	6.83	-	-	38	5.62	-	-
Shakeout workers	42	4.94	95	6.05	-	-	30	5.55	-	-
Shell-mold and/or shell-core machine operators	100	5.42	126	5.84	-	-	-	-	55	6.39
Truckers, power ³	443	5.41	38	6.71	56	5.54	272	5.50	-	-
Forklift	390	5.40	31	7.02	51	5.46	225	5.55	-	-

¹ Excludes premium pay for overtime and for work on weekends, holidays, and late shifts.² Includes data for regions in addition to those shown separately.³ Includes data for workers in classification in addition to those shown separately.

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

Table 17. Malleable iron foundries, except pipe and fittings: Average hourly earnings by selected characteristics

(Number and average straight-time hourly earnings¹ of production workers by selected characteristics, United States and selected regions, September 1979)

Characteristic	United States ²		Middle Atlantic		Great Lakes	
	Number of workers	Average hourly earnings	Number of workers	Average hourly earnings	Number of workers	Average hourly earnings
All production workers	13,145	\$7.49	2,519	\$6.15	8,794	\$8.28
Size of community:						
Metropolitan areas ³	9,992	7.99	1,873	6.36	7,498	8.58
Nonmetropolitan areas	3,153	5.92	-	-	-	-
Size of establishment:						
50-249 workers	2,184	6.40	-	-	-	-
250 workers or more	10,961	7.71	2,374	6.14	7,620	\$8.49
Labor-management contract coverage:						
Establishments with--						
Majority of workers covered	11,713	7.70	2,519	6.15	-	-
Type of foundry ownership:						
Commercial ⁴	7,476	6.81	1,706	5.75	3,938	7.84
Captive	5,669	8.40	-	-	4,856	8.63

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

² Includes data for regions in addition to those shown separately.

³ Standard Metropolitan Statistical Areas as defined by

the U.S. Office of Management and Budget through February 1974.

⁴ For definition of commercial and captive foundries, see appendix A.

Table 18. Earnings distribution: Malleable iron foundries

(Percent distribution of production workers, United States and selected regions, September 1979)

Hourly earnings	United States ¹	Middle Atlantic	Great Lakes	Hourly earnings	United States ¹	Middle Atlantic	Great Lakes
Number of workers	13,145	2,519	8,794	\$7.00 and under \$7.20	2.2	4.0	1.4
Average hourly earnings ²	\$7.49	\$6.15	\$8.28	\$7.20 and under \$7.40	3.1	5.7	2.3
Total	100.0	100.0	100.0	\$7.40 and under \$7.60	2.2	3.7	2.1
				\$7.60 and under \$7.80	2.0	3.1	2.0
				\$7.80 and under \$8.00	7.1	3.2	9.5
Under \$3.40	(³)	-	-	\$8.00 and under \$8.20	5.8	1.9	8.0
\$3.40 and under \$3.60 .....	.1	-	-	\$8.20 and under \$8.40	2.7	1.0	3.7
\$3.60 and under \$3.80 .....	.1	-	-	\$8.40 and under \$8.60	3.1	.8	4.3
\$3.80 and under \$4.00	(³)	-	(³)	\$8.60 and under \$8.80	14.3	.8	21.0
				\$8.80 and under \$9.00	4.2	.8	6.0
\$4.00 and under \$4.20 .....	.1	.1	-	\$9.00 and under \$9.20	3.2	.5	4.6
\$4.20 and under \$4.40	1.4	5.2	(³)	\$9.20 and under \$9.40	3.2	.4	4.6
\$4.40 and under \$4.60 .....	.4	1.1	-	\$9.40 and under \$9.60	2.0	.3	2.9
\$4.60 and under \$4.80	4.3	8.0	-	\$9.60 and under \$9.80 .....	.6	.3	.8
\$4.80 and under \$5.00	1.9	6.0	.5	\$9.80 and under \$10.00 .....	.7	.2	1.0
\$5.00 and under \$5.20	3.6	6.7	2.8	\$10.00 and under \$10.20 .....	.7	-	1.0
\$5.20 and under \$5.40	6.3	10.7	1.8	\$10.20 and under \$10.40	1.0	-	1.4
\$5.40 and under \$5.60	3.4	5.3	.9	\$10.40 and under \$10.60	2.8	.3	4.1
\$5.60 and under \$5.80	1.6	2.1	.9	\$10.60 and under \$10.80 .....	.4	-	.6
\$5.80 and under \$6.00	3.5	6.8	1.4	\$10.80 and under \$11.00 .....	.2	(³)	.2
\$6.00 and under \$6.20	2.7	6.6	1.9	\$11.00 and over	1.4	.6	1.9
\$6.20 and under \$6.40	2.5	2.5	2.1				
\$6.40 and under \$6.60	2.1	3.0	1.8				
\$6.60 and under \$6.80	1.7	4.3	1.2				
\$6.80 and under \$7.00	1.5	4.1	1.0				

¹ Includes data for regions in addition to those shown separately.² Excludes premium pay for overtime and for work on weekends, holidays, and late shifts.³ Less than 0.05 percent.

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

Table 19. Malleable iron foundries: Occupational averages

Number and average straight-time hourly earnings¹ of workers in selected occupations, United States and selected regions, September 1979)

Occupation	United States ²					Middle Atlantic					Great Lakes				
	Number of workers	Hourly earnings ¹			Number of workers	Hourly earnings ¹			Number of workers	Hourly earnings ¹					
		Mean	Median	Middle range		Mean	Median	Middle range		Mean	Median	Middle range			
Carpenters, maintenance	27	\$7.94	\$7.99	\$5.56 - \$10.39	10	\$6.21	-	-	-	16	\$9.19	\$10.39	\$7.99 - \$10.39		
Charging-machine operators	19	6.25	7.10	5.09 - 7.17	-	-	-	-	-	12	6.83	-	-		
Chippers and grinders ³	1,294	7.45	8.26	5.75 - 8.67	205	6.29	\$5.85	\$5.02 - \$7.60	869	8.22	8.67	7.66 - 8.77			
Chippers	366	7.87	8.67	7.37 - 8.67	-	-	-	-	-	-	-	-			
Grinders	851	7.46	7.82	5.98 - 8.75	165	6.49	6.16	5.41 - 7.82	533	8.23	8.60	7.28 - 8.96			
Core assemblers and finishers	324	7.29	8.02	5.94 - 8.02	-	-	-	-	-	-	-	-			
Coremakers, hand	155	8.37	7.55	5.80 - 11.53	22	5.97	5.80	5.80 - 6.07	103	9.61	11.53	7.13 - 11.53			
Bench	92	6.82	6.00	5.70 - 7.55	21	6.00	5.80	5.80 - 6.07	41	7.94	7.13	6.66 - 9.06			
Coremakers, machine ³	155	7.95	8.25	7.25 - 8.73	26	6.34	5.99	5.56 - 7.16	118	8.52	8.62	7.69 - 8.82			
Core-blowing machine	62	7.22	7.23	5.86 - 8.50	-	-	-	-	-	31	8.21	8.52	7.31 - 8.95		
Crane operators, electric bridge	98	7.35	7.09	5.97 - 8.71	-	-	-	-	-	64	7.96	8.07	6.56 - 8.91		
Under 20 tons	88	7.21	6.57	5.95 - 8.07	-	-	-	-	-	54	7.85	7.66	6.48 - 8.71		
20 tons and over	10	8.55	-	-	-	-	-	-	-	10	8.55	-	-		
Cupola tenders	28	6.37	6.36	5.96 - 6.49	-	-	-	-	-	13	6.68	-	-		
Electricians, maintenance	249	9.26	9.31	8.32 - 10.59	23	7.03	7.62	5.93 - 7.86	202	9.78	10.08	9.31 - 10.59			
Furnace tenders, electric	204	7.75	8.16	6.45 - 9.07	32	6.16	5.65	5.35 - 6.84	143	8.33	8.55	7.47 - 9.07			
Furnace tenders, helpers	86	6.80	6.13	5.20 - 8.34	8	6.52	-	-	-	-	-	-			
Inspectors, class C	384	6.99	7.03	5.25 - 8.67	196	5.81	5.25	5.19 - 6.70	-	-	-	-			
Laborers, general foundry	1,460	6.68	7.92	5.25 - 7.92	252	5.06	4.71	4.30 - 6.19	1,046	7.36	7.92	6.56 - 7.92			
Laborers, material handling	110	5.94	6.19	5.06 - 6.19	-	-	-	-	-	-	-	-			
Mechanics, general	150	7.42	7.42	7.11 - 7.71	12	6.43	-	-	-	-	-	-			
Mechanics, maintenance	489	8.68	9.31	8.07 - 9.31	41	6.12	5.67	5.56 - 6.52	-	-	-	-			
Molders, floor	85	6.11	5.80	5.80 - 5.97	-	-	-	-	-	12	8.28	-	-		
Molders, hand, bench	282	8.25	8.63	7.89 - 8.80	-	-	-	-	-	-	-	-			
Molders, machine, automatic	142	7.36	7.12	5.80 - 8.50	-	-	-	-	-	68	8.81	8.62	7.75 - 9.08		
Molders, machine, semi-automatic ³	524	7.57	7.55	5.90 - 9.01	185	6.81	6.56	5.39 - 8.15	240	8.53	8.39	7.38 - 9.30			
Squeeze	369	7.25	7.13	5.81 - 8.25	176	6.88	6.71	5.56 - 8.20	120	7.91	7.56	6.81 - 8.25			
Patternmakers, metal	162	9.14	9.43	8.48 - 9.43	23	7.20	7.12	6.76 - 8.08	-	-	-	-			
Patternmakers, wood	24	8.72	8.86	8.75 - 8.97	-	-	-	-	-	-	-	-			
Pourers, metal	431	7.53	7.50	6.26 - 9.00	74	7.35	7.46	5.80 - 8.05	278	8.05	8.35	7.50 - 9.00			
Repairers, wood patterns	32	7.29	7.39	5.80 - 9.54	-	-	-	-	-	17	8.09	9.54	5.78 - 9.54		
Sand- or shot-blast operators	113	7.41	7.68	5.41 - 9.56	22	5.51	5.35	5.02 - 5.41	89	7.94	8.14	7.25 - 9.56			
Sand mixers	108	6.61	5.72	5.20 - 7.72	24	5.16	4.92	4.91 - 5.41	64	7.57	7.28	6.25 - 8.81			
Shakeout workers	256	6.18	5.70	5.20 - 7.36	142	6.52	7.26	5.25 - 7.38	42	7.60	7.62	6.75 - 8.29			
Shell-mold and/or shell-core machine operators	214	7.05	6.80	5.23 - 8.87	47	6.18	6.53	4.86 - 7.12	103	8.45	8.87	7.34 - 8.96			
Truckers, power	631	7.38	7.98	6.36 - 8.67	94	5.53	5.41	4.79 - 6.40	463	8.12	8.49	7.98 - 8.67			
Forklift	581	7.53	7.98	6.76 - 8.67	75	5.60	5.54	4.79 - 6.76	454	8.14	8.58	7.98 - 8.67			
Other than forklift	50	5.56	5.08	4.79 - 5.50	-	-	-	-	-	-	-	-			
Tumbler operators	63	6.15	6.28	5.31 - 7.22	-	-	-	-	-	32	6.54	6.57	5.31 - 7.28		
Welders, hand ³	86	7.44	7.74	6.41 - 8.29	-	-	-	-	-	-	-	-			
Repairers	63	7.15	6.65	6.41 - 7.79	-	-	-	-	-	-	-	-			

¹ See appendix A for definition of means, medians, and middle ranges. Medians and middle ranges are not provided for entries with fewer than 15 workers.

² Includes data for regions in addition to those shown separately.

³ Includes data for workers in classification in addition to those shown separately.

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

Table 20. Malleable iron foundries: Occupational averages by method of wage payment(Number of workers and average straight-time hourly earnings¹ in selected occupations, United States and selected regions, September 1979)

Occupation	United States ²				Middle Atlantic				Great Lakes			
	Timeworkers		Incentive workers		Timeworkers		Incentive workers		Timeworkers		Incentive workers	
	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
Chippers and grinders ³	-	-	854	\$7.48	40	\$4.91	165	\$6.63	-	-	533	\$8.25
Chippers	-	-	104	8.25	-	-	-	-	-	-	92	8.57
Grinders	158	\$7.03	693	7.56	-	-	145	6.68	-	-	441	8.18
Core assemblers and finishers	-	-	77	6.35	-	-	-	-	-	-	-	-
Coremakers, hand ³	-	-	150	8.38	-	-	21	6.00	-	-	99	9.65
Bench	-	-	90	6.77	-	-	21	6.00	-	-	39	7.89
Coremakers, machine ³	38	6.97	117	8.27	-	-	-	-	-	-	94	8.79
Core-blowing machine	16	6.44	46	7.49	-	-	-	-	-	-	27	8.37
Crane operators, electric bridge ³	73	7.03	25	8.30	-	-	-	-	48	\$7.73	-	-
Under 20 tons	63	6.78	25	8.30	-	-	-	-	38	7.51	-	-
Furnace tenders, electric	176	7.54	28	9.06	26	5.64	-	-	127	8.13	-	-
Furnace tenders' helpers	56	6.64	30	7.09	-	-	-	-	-	-	-	-
Inspectors, class C	292	6.84	92	7.49	-	-	-	-	-	-	-	-
Molders, hand, bench	28	8.26	254	8.25	-	-	-	-	-	-	-	-
Molders, machine, automatic	-	-	118	7.51	-	-	-	-	-	-	54	9.12
Molders, machine, semi-automatic ³	-	-	497	7.53	-	-	184	6.82	-	-	218	8.48
Squeeze	-	-	369	7.25	-	-	176	6.88	-	-	120	7.91
Pourers, metal	209	6.90	222	8.12	-	-	48	8.31	136	7.50	142	8.58
Sand- or shot-blast operators	102	7.56	11	6.02	15	5.62	-	-	85	7.97	-	-
Sand mixers	94	6.26	14	8.91	24	5.16	-	-	50	7.20	14	8.91
Shakeout workers	121	6.58	135	5.83	-	-	-	-	18	8.39	24	7.01
Shell-mold and/or shell-core machine operators	95	6.83	119	7.23	22	5.51	-	-	-	-	60	8.38
Tumbler operators	33	5.40	30	6.97	-	-	-	-	-	-	-	-

¹ Excludes premium pay for overtime and for work on weekends, holidays, and late shifts.² Includes data for regions in addition to those shown separately.³ Includes data for workers in classification in addition to those shown separately.

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

Table 21. Steel foundries: Average hourly earnings by selected characteristics

(Number and average straight-time hourly earnings¹ of workers in steel foundries, United States and selected regions, September 1979)

Item	United States ²		New England		Middle Atlantic		Southeast		Southwest		Great Lakes		Middle West		Pacific	
	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
All production workers	52,550	\$7.01	1,530	\$5.41	10,943	\$7.85	2,031	\$5.68	3,694	\$5.46	22,375	\$7.37	3,445	\$6.84	7,032	\$6.45
Size of community:																
Metropolitan areas	47,635	7.14	1,294	5.47	10,943	7.85	1,601	5.80	3,273	5.38	19,681	7.56	2,311	7.34	7,032	6.45
Nonmetropolitan areas	4,915	5.81	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Size of establishment:																
50-249 workers	11,298	6.02	665	5.63	1,876	6.02	821	5.34	1,001	4.71	-	-	-	-	2,316	6.55
250 workers or more	41,252	7.29	-	-	9,067	8.22	-	-	2,693	5.74	18,985	7.56	2,910	6.87	4,716	6.40
Labor-management contract coverage:																
Establishments with--																
Majority of workers covered	43,200	7.27	-	-	10,588	7.96	1,515	5.77	2,816	5.70	18,855	7.55	3,213	6.82	4,600	6.68
None or minority of workers covered	9,350	5.85	1,171	5.36	-	-	-	-	-	-	3,520	6.39	-	-	-	-

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

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

² Includes data for regions in addition to those shown separately.

Table 22. Earnings distribution: Steel foundries

(Percent distribution of production workers, by straight-time hourly earnings¹ United States and selected regions, September 1979)

Hourly earnings	United States ²	New England	Middle Atlantic	Southeast	Southwest	Great Lakes	Middle West	Pacific
Number of workers	52,550	1,530	10,943	2,031	3,694	22,375	3,445	7,032
Average hourly earnings ¹	\$7.01	\$5.41	\$7.85	\$5.68	\$5.46	\$7.37	\$6.84	\$6.45
Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Under \$3.40	2.1	3.3	.4	.9	6.8	.2	-	9.6
\$3.40 and under \$3.60 .....	.3	.5	.3	.2	.9	(³)	-	1.4
\$3.60 and under \$3.80 .....	.4	.8	.2	.6	.3	(³)	-	1.0
\$3.80 and under \$4.00 .....	.9	3.7	.3	3.5	.8	.3	-	3.0
\$4.00 and under \$4.20 .....	.8	2.5	.8	2.8	1.3	.4	.4	1.4
\$4.20 and under \$4.40	1.3	6.7	.3	5.1	.8	1.4	.4	1.2
\$4.40 and under \$4.60	1.7	5.2	1.4	4.5	2.5	1.5	.2	1.8
\$4.60 and under \$4.80	1.8	7.0	.7	2.5	7.9	1.2	.3	1.6
\$4.80 and under \$5.00	2.4	9.7	.5	6.5	10.9	1.9	1.1	.5
\$5.00 and under \$5.20	2.9	8.0	1.2	4.5	9.7	1.8	4.3	3.1
\$5.20 and under \$5.40	2.7	9.5	1.1	6.0	7.1	1.8	6.0	2.0
\$5.40 and under \$5.60	3.6	9.9	2.1	4.8	13.6	1.4	9.8	1.0
\$5.60 and under \$5.80	4.1	5.3	3.4	12.6	6.7	2.0	10.5	3.7
\$5.80 and under \$6.00	3.4	3.0	3.5	9.2	4.3	1.9	5.8	1.6
\$6.00 and under \$6.20	4.7	4.2	5.5	6.6	5.8	2.6	11.6	4.1
\$6.20 and under \$6.40	4.2	2.9	2.6	4.9	3.2	4.8	6.0	3.6
\$6.40 and under \$6.60	4.3	2.0	4.3	5.4	3.4	4.6	7.0	2.7
\$6.60 and under \$6.80	6.1	3.0	3.7	8.9	3.6	8.3	5.5	5.2
\$6.80 and under \$7.00	6.6	2.2	3.9	2.5	2.0	10.7	3.6	5.0
\$7.00 and under \$7.20	4.3	2.7	5.8	1.2	1.2	5.2	2.0	3.8
\$7.20 and under \$7.40	6.0	1.2	7.0	3.5	1.2	5.3	2.8	13.1
\$7.40 and under \$7.60	4.4	.7	5.2	.1	.4	5.2	1.6	6.1
\$7.60 and under \$7.80	3.9	1.3	4.5	.5	1.4	5.3	1.9	2.6
\$7.80 and under \$8.00	2.3	.5	2.1	.9	.7	3.5	1.3	1.4
\$8.00 and under \$8.20	2.8	1.0	3.8	.3	1.3	2.3	1.5	5.9
\$8.20 and under \$8.40	2.0	1.0	3.2	.5	.8	2.5	.9	.8
\$8.40 and under \$8.60	2.0	.3	2.2	.3	.1	2.5	1.0	3.1
\$8.60 and under \$8.80	2.9	.1	1.9	.1	.3	3.9	1.2	5.0
\$8.80 and under \$9.00	2.7	1.0	1.4	.2	.1	4.9	.8	2.0
\$9.00 and under \$9.20	1.5	.5	2.1	-	.3	2.3	.7	.2
\$9.20 and under \$9.40	1.2	.1	1.3	-	.1	1.9	.3	.8
\$9.40 and under \$9.60 .....	.7	.1	1.6	.2	(³)	.9	.3	.1
\$9.60 and under \$9.80 .....	.6	-	1.2	-	.1	.7	1.0	(³)
\$9.80 and under \$10.00	1.1	-	3.0	-	(³)	.8	1.7	.1
\$10.00 and under \$10.20	1.1	-	4.0	-	.1	.5	.7	(³)
\$10.20 and under \$10.40 .....	.7	-	1.6	.1	.1	.6	1.0	.2
\$10.40 and under \$10.60 .....	.9	-	.7	-	.1	1.6	.6	.1
\$10.60 and under \$10.80	1.0	-	2.7	-	.1	1.1	.3	-
\$10.80 and under \$11.00 .....	.4	-	.6	(³)	(³)	.5	1.0	-
\$11.00 and over	3.1	-	8.2	-	.1	2.1	5.2	1.2

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

² Includes data for regions in addition to those shown separately.

³ Less than 0.05 percent.

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

Table 23. Steel foundries: Occupational averages

(Number and average straight-time hourly earnings¹ of workers in selected occupations in steel foundries, United States and selected regions, September 1979)

Occupation	United States ²					New England					Middle Atlantic					Southeast				
	Number of workers	Hourly earnings ³			Number of workers	Hourly earnings ³			Number of workers	Hourly earnings ³			Number of workers	Hourly earnings ³						
		Mean	Median	Middle range		Mean	Median	Middle range		Mean	Median	Middle range		Mean	Median	Middle range				
Air-set operators	141	\$6.58	\$6.64	\$5.81 - \$7.31	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Arc-air scarfers	569	7.21	7.25	6.09 - 7.68	-	-	-	-	-	104	\$7.28	\$7.06	\$5.73 - \$8.61	25	\$5.40	\$5.32	\$4.99 - \$5.91	-	-	
Carpenters, maintenance	119	8.00	7.96	6.86 - 9.25	-	-	-	-	-	36	8.94	9.94	8.30 - 9.94	-	-	-	-	-	-	
Charging machine operators	42	7.37	8.15	5.89 - 8.91	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Chippers and grinders	6,082	6.95	6.81	5.60 - 7.56	161	\$5.29	\$5.16	\$5.03 - \$5.58	1,316	7.54	7.15	5.97 - 8.88	349	5.31	5.78	4.80 - 5.78	-	-	-	
Chippers	1,233	7.39	7.27	5.76 - 8.60	-	-	-	-	-	522	8.52	8.23	7.33 - 10.02	-	-	-	-	-	-	
Grinders	1,958	6.67	6.81	5.41 - 7.29	93	5.12	5.21	4.70 - 5.58	468	7.00	7.06	5.56 - 7.33	-	-	-	-	-	-	-	
Chippers and grinders	2,891	6.96	6.71	5.63 - 7.53	-	-	-	-	-	326	6.72	6.63	5.47 - 7.52	314	5.37	5.78	4.88 - 5.78	-	-	
Core assemblers and finishers	423	6.78	6.31	5.46 - 7.57	-	-	-	-	-	98	6.81	6.20	5.76 - 7.31	16	4.67	4.78	4.24 - 5.06	-	-	
Coremakers, hand	1,034	7.71	7.73	6.55 - 8.74	17	6.89	6.88	6.63 - 7.13	171	7.82	7.52	6.44 - 8.84	58	6.78	6.67	5.95 - 7.37	-	-	-	
Bench	531	7.62	7.39	6.57 - 8.69	-	-	-	-	-	70	7.53	7.31	6.15 - 8.15	-	-	-	-	-	-	
Floor	234	8.31	8.63	6.83 - 9.21	-	-	-	-	-	65	8.55	8.87	7.03 - 9.41	-	-	-	-	-	-	
Bench and floor	269	7.37	7.47	6.39 - 8.08	-	-	-	-	-	36	7.06	7.47	5.97 - 7.52	-	-	-	-	-	-	
Coremakers, machine	698	7.67	7.33	6.21 - 8.63	-	-	-	-	-	205	9.16	9.21	7.33 - 10.02	-	-	-	-	-	-	
Core-blowing machine	498	7.53	7.33	6.50 - 8.44	-	-	-	-	-	125	8.43	7.33	7.33 - 10.02	-	-	-	-	-	-	
Turn-over-draw machine	111	6.97	6.87	5.00 - 8.09	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Crane operators, electric bridge	1,610	7.23	7.28	6.25 - 7.73	-	-	-	-	-	487	7.67	7.42	6.81 - 8.59	92	5.94	6.18	6.03 - 6.18	-	-	
Under 20 tons	879	6.91	6.88	6.24 - 7.48	-	-	-	-	-	172	7.52	7.42	7.31 - 7.81	87	5.96	6.18	6.07 - 6.18	-	-	
20 tons and over	731	7.61	7.55	6.75 - 8.47	-	-	-	-	-	315	7.76	7.72	6.09 - 8.96	-	-	-	-	-	-	
Cupola tenders	32	8.45	8.91	7.99 - 8.91	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Electricians, maintenance	717	8.26	8.14	7.37 - 9.10	-	-	-	-	-	181	8.69	8.39	7.40 - 10.18	-	-	-	-	-	-	
Furnace tenders, electric	688	7.25	7.31	6.33 - 8.09	-	-	-	-	-	134	7.83	7.43	6.68 - 8.23	33	6.22	6.47	5.85 - 6.64	-	-	
Furnace tenders, helpers	441	6.43	6.37	5.29 - 7.43	-	-	-	-	-	81	7.00	6.53	5.81 - 7.98	25	5.22	4.93	4.48 - 5.93	-	-	
Helpers, trades, maintenance	180	6.04	6.21	4.74 - 7.13	-	-	-	-	-	-	-	-	-	13	4.69	-	-	-	-	
Inspectors, class A	496	7.34	7.28	6.68 - 7.83	17	6.83	6.82	6.48 - 6.82	71	7.88	8.38	6.27 - 9.35	-	-	-	-	-	-	-	
Inspectors, class B	918	7.01	6.74	6.74 - 7.48	23	6.05	5.95	5.71 - 6.42	138	7.01	7.31	7.20 - 7.63	-	-	-	-	-	-	-	
Inspectors, class C	533	5.72	5.90	5.00 - 6.35	43	4.69	4.69	4.31 - 5.03	51	6.84	7.13	6.35 - 7.74	-	-	-	-	-	-	-	
Laborers, general foundry	3,211	6.03	6.33	5.09 - 6.84	32	4.98	4.94	4.77 - 5.20	544	7.06	7.20	6.58 - 7.96	154	4.32	4.14	3.88 - 4.71	-	-	-	
Laborers, material handling	546	7.68	7.94	6.65 - 8.76	11	5.34	-	-	-	-	-	-	-	26	5.16	5.17	5.17 - 5.56	-	-	
Machinists, maintenance	356	8.81	8.78	7.37 - 9.04	-	-	-	-	-	-	-	-	-	54	6.75	6.67	6.67 - 7.20	-	-	
Mechanics, general	492	7.20	7.23	6.40 - 7.82	30	6.46	6.32	5.99 - 6.72	66	7.46	7.23	7.23 - 7.69	59	6.37	6.67	6.26 - 6.91	-	-	-	
Mechanics, maintenance	1,376	7.65	7.55	6.64 - 8.29	-	-	-	-	-	254	7.81	7.55	6.16 - 9.09	-	-	-	-	-	-	
Molders, floor	886	7.55	7.29	6.59 - 8.47	-	-	-	-	-	254	7.88	7.55	7.18 - 8.36	78	6.40	6.60	5.95 - 6.80	-	-	
Molders, hand, bench	179	8.32	6.46	5.50 - 13.87	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Molders, machine, automatic	181	6.91	6.64	6.17 - 7.20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Molders, machine, semi-automatic	1,215	7.62	7.75	6.30 - 8.85	-	-	-	-	-	152	7.74	7.11	6.16 - 8.74	67	6.36	6.21	4.93 - 7.35	-	-	
Jarring	129	8.60	8.63	7.67 - 9.22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Roll-over	379	6.98	6.67	5.86 - 8.18	-	-	-	-	-	58	7.58	6.54	6.54 - 8.34	-	-	-	-	-	-	
Squeeze	466	7.58	7.75	6.22 - 8.63	-	-	-	-	-	12	6.23	-	-	29	6.57	6.67	4.83 - 7.35	-	-	
Other (single) machine	79	8.13	7.65	6.86 - 9.60	-	-	-	-	-	28	9.47	10.09	6.89 - 10.46	-	-	-	-	-	-	
Combination (operates more than One type of machine)	162	8.23	8.85	8.53 - 9.00	-	-	-	-	-	27	8.26	8.58	7.31 - 8.74	-	-	-	-	-	-	
Patternmakers, metal	250	10.52	11.03	9.04 - 11.39	-	-	-	-	-	74	9.63	9.04	8.77 - 11.03	-	-	-	-	-	-	
Patternmakers, wood	343	9.06	8.84	7.25 - 10.82	-	-	-	-	-	80	8.52	8.77	7.91 - 9.04	9	6.95	-	-	-	-	
Pourers, metal	950	6.78	6.70	5.44 - 7.78	43	5.67	5.44	5.29 - 6.03	134	7.99	8.14	6.53 - 9.61	56	5.39	5.73	4.95 - 5.85	-	-	-	
Repairers, wood patterns	225	6.81	6.40	5.46 - 7.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Sand-shot-blast operators	574	6.70	6.39	5.47 - 7.49	-	-	-	-	-	126	7.91	8.11	6.22 - 10.61	26	5.43	5.78	4.99 - 5.78	-	-	
Sand-slinger operators	265	7.65	7.82	6.15 - 8.60	-	-	-	-	-	51	8.71	8.89	6.00 - 10.30	-	-	-	-	-	-	
Sand mixers	452	6.43	6.35	5.72 - 7.26	-	-	-	-	-	80	7.19	7.04	6.66 - 7.60	32	5.38	5.26	4.99 - 5.93	-	-	

See footnotes at end of table.

Table 23. Steel foundries: Occupational averages—Continued

(Number and average straight-time hourly earnings¹ of workers in selected occupations in steel foundries, United States and selected regions, September 1979)

Occupation	United States ²				New England				Middle Atlantic				Southeast				
	Number of workers	Hourly earnings ³			Number of workers	Hourly earnings ³			Number of workers	Hourly earnings ³			Number of workers	Hourly earnings ³			
		Mean	Median	Middle range		Mean	Median	Middle range		Mean	Median	Middle range		Mean	Median	Middle range	
Shakeout workers	868	\$6.60	\$6.73	\$5.44 - \$7.39	12	\$5.65	-	-	-	214	\$7.44	\$7.39	\$6.56 - \$7.72	47	\$5.20	\$5.44	\$5.26 - \$5.44
Shell-mold and/or shell-core machine operators	388	6.91	7.06	5.57 - 7.76	-	-	-	-	69	7.51	7.52	6.10 - 8.19	28	4.90	4.61	4.22 - 4.99	
Truckers, power	1,075	6.72	6.53	5.79 - 7.33	-	-	-	-	201	7.70	7.39	6.63 - 8.70	35	5.28	5.52	5.20 - 5.52	
Forklift	895	6.54	6.53	5.75 - 7.28	-	-	-	-	113	7.09	7.24	6.52 - 7.53	28	5.23	5.20	5.15 - 5.65	
Other than forklift	180	7.61	7.49	6.73 - 8.92	-	-	-	-	-	-	-	-	-	-	-	-	
Tumbler operators	169	6.86	7.26	5.03 - 7.94	-	-	-	-	44	7.59	7.33	6.60 - 9.75	-	-	-	-	
Welders, hand	2,542	7.31	7.33	6.13 - 8.00	47	6.30	\$5.79	\$5.49 - \$7.48	478	7.54	7.20	6.26 - 8.22	135	6.12	6.47	5.91 - 6.64	
Assemblers	473	7.45	7.38	6.44 - 8.40	-	-	-	-	129	8.21	7.88	7.02 - 9.44	-	-	-	-	
Repairers	1,239	7.16	6.90	6.01 - 7.73	-	-	-	-	244	7.72	7.60	6.81 - 8.27	88	6.14	6.64	5.91 - 6.64	
Combination	830	7.46	8.00	6.33 - 8.00	31	6.85	7.28	5.58 - 7.63	105	6.32	6.26	5.97 - 6.64	-	-	-	-	
	Southwest				Great Lakes				Middle West				Pacific				
	Number of workers	Hourly earnings ³			Number of workers	Hourly earnings ³			Number of workers	Hourly earnings ³			Number of workers	Hourly earnings ³			
		Mean	Median	Middle range		Mean	Median	Middle range		Mean	Median	Middle range		Mean	Median	Middle range	
Air-set operators	35	\$5.37	\$5.81	\$5.81 - \$5.81	35	\$7.03	\$7.50	\$6.96 - \$7.50	-	-	-	-	-	-	-	-	-
Arc-air scarfers	46	5.89	6.05	5.10 - 6.13	224	7.82	7.53	6.73 - 8.95	44	\$6.73	\$6.26	\$5.68 - \$6.99	110	\$7.21	\$7.52	\$7.06 - \$7.66	
Carpenters, maintenance	-	-	-	-	57	7.77	7.96	6.97 - 8.69	-	-	-	-	11	7.80	-	-	-
Chippers and grinders	485	5.15	4.98	4.98 - 5.56	2,294	7.65	7.49	6.25 - 8.68	343	7.46	6.39	5.60 - 8.04	892	6.35	7.00	5.63 - 7.26	
Chippers	-	-	-	-	357	6.86	6.15	6.15 - 7.90	-	-	-	-	79	6.25	5.66	5.35 - 7.27	
Grinders	150	5.17	4.98	4.75 - 5.54	540	7.42	7.23	6.59 - 8.68	123	8.29	7.25	6.09 - 10.26	494	6.11	6.81	5.13 - 7.26	
Chippers and grinders	209	5.22	5.46	5.00 - 5.78	1,397	7.94	7.49	6.75 - 9.31	115	6.18	6.39	5.60 - 6.47	319	6.76	7.23	5.66 - 7.26	
Core assemblers and finishers	36	5.42	5.08	5.05 - 5.85	208	7.16	7.13	6.05 - 8.52	44	7.06	6.18	5.47 - 7.50	12	6.59	-	-	
Coremakers, hand	63	5.85	5.78	5.62 - 6.32	428	8.07	7.82	7.07 - 9.09	102	8.29	8.50	6.85 - 8.99	163	7.62	8.09	6.39 - 8.63	
Bench	46	5.41	5.76	5.48 - 6.04	254	7.93	7.84	7.07 - 9.01	58	8.18	8.34	6.68 - 9.23	64	8.05	8.54	7.18 - 8.63	
Floor	-	-	-	-	104	8.38	8.86	6.64 - 9.39	-	-	-	-	-	-	-	-	
Bench and floor	-	-	-	-	-	-	-	-	15	7.61	7.45	6.24 - 8.26	80	7.10	6.39	6.33 - 8.54	
Coremakers, machine	-	-	-	-	256	7.55	7.33	6.88 - 8.17	28	7.23	6.81	6.02 - 6.85	69	8.15	8.09	8.09 - 8.63	
Core-blowing machine	-	-	-	-	228	7.49	7.33	6.93 - 8.03	24	7.32	6.81	6.02 - 6.85	45	8.19	8.63	8.09 - 8.63	
Crane operators, electric bridge	94	5.93	5.68	5.56 - 6.05	633	7.46	7.52	6.88 - 7.78	113	6.59	6.17	5.72 - 6.54	144	7.17	7.28	7.23 - 7.33	
Under 20 tons	94	5.93	5.68	5.56 - 6.05	330	7.10	6.93	6.80 - 7.73	54	7.14	6.54	5.94 - 6.73	98	7.14	7.28	7.28 - 7.30	
20 tons and over	-	-	-	-	303	7.85	7.55	7.38 - 8.47	59	6.08	6.17	5.56 - 6.48	-	-	-	-	
Electricians, maintenance	60	7.10	6.66	6.62 - 8.01	322	8.55	8.68	7.96 - 9.24	56	6.93	6.71	6.01 - 6.76	40	8.83	9.24	8.32 - 9.24	
Furnace tenders, electric	49	6.23	6.33	6.00 - 6.33	233	7.33	7.38	6.45 - 8.51	32	7.32	6.73	6.29 - 7.72	160	7.18	7.66	6.73 - 8.09	
Furnace tenders, helpers	50	5.03	4.89	4.89 - 5.37	162	7.04	6.98	6.86 - 7.63	29	6.80	6.01	5.76 - 6.73	62	5.86	6.73	3.95 - 7.26	
Helpers, trades, maintenance	13	4.31	-	-	91	6.39	7.13	4.41 - 7.68	-	-	-	-	-	-	-	-	
Inspectors, class A	58	5.98	5.58	5.58 - 5.98	244	7.36	7.45	6.68 - 7.63	-	-	-	-	77	8.21	8.09	7.37 - 8.19	
Inspectors, class B	26	5.62	5.68	5.46 - 6.02	628	6.99	6.74	6.74 - 7.08	57	7.81	6.50	6.11 - 11.48	36	7.90	7.48	6.82 - 7.68	
Inspectors, class C	28	4.37	4.20	3.44 - 5.09	273	5.88	5.90	5.88 - 6.20	-	-	-	-	66	5.04	4.76	3.22 - 6.12	
Laborers, general foundry	426	4.45	4.79	4.48 - 4.89	1,370	6.34	6.49	5.74 - 6.84	189	5.77	5.70	5.28 - 6.24	362	6.32	6.73	6.16 - 6.80	
Laborers, material handling	-	-	-	-	323	7.61	7.39	6.91 - 8.76	24	7.07	6.83	5.46 - 8.92	-	-	-	-	
Machinists, maintenance	-	-	-	-	148	8.62	8.97	8.78 - 8.97	-	-	-	-	14	8.24	-	-	
Mechanics, general	44	6.65	6.91	6.48 - 7.14	204	7.33	7.30	6.40 - 7.87	-	-	-	-	54	8.31	8.54	7.71 - 8.84	
Mechanics, maintenance	127	6.75	6.66	6.45 - 6.66	565	8.01	8.03	7.35 - 8.78	143	7.01	6.64	6.16 - 7.09	169	7.67	7.55	7.25 - 8.54	

See footnotes at end of table.

Table 23. Steel foundries: Occupational averages—Continued

(Number and average straight-time hourly earnings¹ of workers in selected occupations in steel foundries, United States and selected regions, September 1979)

Occupation	Southwest				Great Lakes				Middle West				Pacific			
	Number of workers	Hourly earnings ²			Number of workers	Hourly earnings ²			Number of workers	Hourly earnings ²			Number of workers	Hourly earnings ²		
		Mean	Median	Middle range		Mean	Median	Middle range		Mean	Median	Middle range		Mean	Median	Middle range
Molders, floor	-	-	-	-	138	\$8.07	\$8.10	\$6.64 - \$8.47	105	\$7.72	\$7.21	\$6.60 - \$8.08	185	\$7.90	\$8.54	\$6.96 - \$8.63
Molders, hand, bench	20	\$6.15	\$5.98	\$5.50 - \$6.40	29	6.27	6.46	5.50 - 6.46	-	-	-	-	-	-	-	-
Molders, machine, automatic	30	5.84	5.91	5.56 - 6.05	57	7.32	6.74	6.64 - 7.20	-	-	-	-	20	8.30	8.54	7.74 - 8.54
Molders, machine, semi-automatic	103	5.27	5.56	4.18 - 5.76	611	8.18	8.20	7.19 - 9.11	57	7.48	6.85	6.05 - 8.59	172	7.88	8.09	7.04 - 8.63
Jarring	-	-	-	-	73	9.53	9.13	8.26 - 10.05	-	-	-	-	-	-	-	-
Roll-over	35	5.13	5.76	4.25 - 5.76	188	7.06	6.81	6.14 - 7.77	11	6.93	-	-	-	-	-	-
Squeeze	55	5.77	5.76	5.10 - 5.76	242	8.35	7.75	7.75 - 9.36	21	7.07	6.73	6.05 - 7.00	85	7.59	7.40	7.10 - 8.09
Combination (operates more than One type of machine)	-	-	-	-	-	-	-	-	-	-	-	-	19	8.11	8.54	7.04 - 8.65
Patternmakers, metal	-	-	-	-	144	11.28	11.17	10.94 - 13.00	-	-	-	-	-	-	-	-
Patternmakers, wood	25	7.86	8.17	6.48 - 8.65	129	10.09	10.82	7.51 - 13.00	41	7.13	6.89	6.11 - 7.61	37	10.62	11.63	9.00 - 11.63
Pourers, metal	90	5.36	5.19	5.10 - 5.85	441	7.21	7.55	6.35 - 8.51	71	6.58	6.48	5.51 - 7.33	77	6.07	7.10	5.19 - 7.23
Repairers, wood patterns	49	5.50	5.46	5.46 - 5.77	107	6.90	7.25	6.31 - 7.75	12	6.36	-	-	20	9.88	11.63	7.37 - 11.63
Sand- shot-blast operators	38	5.09	5.28	4.88 - 5.61	277	6.73	6.64	6.13 - 7.49	32	6.24	5.47	5.47 - 6.15	47	6.43	6.08	5.70 - 7.25
Sand-slinger operators	-	-	-	-	134	8.20	8.60	7.82 - 8.75	10	5.68	-	-	6	7.71	-	-
Sand mixers	41	5.16	5.25	5.19 - 5.73	171	6.48	6.61	6.02 - 6.98	38	6.39	6.01	5.72 - 6.02	65	6.95	7.26	7.10 - 7.29
Shakeout workers	50	5.06	5.22	4.86 - 5.48	311	7.02	6.88	6.15 - 8.36	56	6.55	6.13	5.44 - 7.72	129	5.85	6.16	5.10 - 6.73
Shell-mold and/or shell-core machine operators	49	5.18	5.48	5.00 - 5.76	156	7.28	7.43	7.03 - 7.45	26	8.68	7.66	5.96 - 11.59	-	-	-	-
Truckers, power	112	5.14	4.99	4.98 - 5.48	505	6.90	6.78	6.53 - 7.33	72	6.58	6.17	5.38 - 6.41	81	6.87	7.26	6.84 - 7.29
Forklift	99	5.14	4.98	4.98 - 5.49	445	6.85	6.53	6.30 - 7.33	66	6.51	6.17	5.38 - 6.17	77	6.84	7.26	6.84 - 7.26
Other than forklift	-	-	-	-	60	7.22	7.49	7.18 - 7.49	-	-	-	-	-	-	-	-
Tumbler operators	-	-	-	-	73	7.00	7.65	4.92 - 8.10	-	-	-	-	17	6.97	7.26	7.26 - 7.26
Welders, hand	336	6.04	5.77	5.40 - 6.90	1,083	7.77	8.00	6.92 - 8.05	163	7.17	6.49	6.05 - 7.56	251	7.69	8.09	6.49 - 8.63
Assemblers	-	-	-	-	216	7.97	7.90	7.38 - 8.70	-	-	-	-	-	-	-	-
Repairers	216	6.51	6.13	5.56 - 7.24	448	7.22	7.04	5.83 - 7.73	66	7.66	6.40	6.00 - 9.54	114	8.06	8.54	7.10 - 8.63
Combination	-	-	-	-	-	-	-	-	77	7.00	6.98	6.37 - 7.71	122	7.61	8.09	6.33 - 8.09

¹ See appendix A for definition of means, medians, and middle ranges. Medians and middle ranges are not provided for entries with fewer than 15 workers.

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

³ Includes data for regions in addition to those shown separately.

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

Table 24. Occupational earnings for selected localities : Steel foundries

(Percent distribution of production workers in selected occupations, selected localities, September 1979)

Hourly earnings	Los Angeles-Long Beach							
	All production workers	Chippers and grinders ¹	Coremakers, hand	Furnace tenders, electric	Laborers, general foundry	Mechanics, maintenance	Molders, machine, squeeze	Welders, hand
Number of workers	1,967	220	45	36	51	51	19	63
Average hourly earnings ²	\$4.64	\$5.06	\$6.30	\$5.43	\$5.06	\$6.92	\$6.87	\$6.15
Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
\$2.90 and under \$3.00	5.4	-	-	-	-	-	-	-
\$3.00 and under \$3.10	11.1	-	-	-	-	-	-	-
\$3.10 and under \$3.20	9.0	3.2	-	-	-	-	-	-
\$3.20 and under \$3.30	5.7	5.0	-	-	-	-	-	-
\$3.30 and under \$3.40	3.1	3.2	-	-	-	-	-	-
\$3.40 and under \$3.50	2.3	2.3	-	-	-	-	-	-
\$3.50 and under \$3.60	2.5	1.8	-	-	-	-	-	-
\$3.60 and under \$3.70	1.3	.9	-	-	-	-	-	-
\$3.70 and under \$3.80	2.1	2.3	-	-	-	-	-	3.2
\$3.80 and under \$3.90	1.6	.9	-	-	-	-	-	-
\$3.90 and under \$4.00	1.9	3.2	-	-	-	-	-	-
\$4.00 and under \$4.20	1.9	.5	-	25.0	-	-	-	-
\$4.20 and under \$4.40	1.7	.9	-	-	2.0	-	-	1.6
\$4.40 and under \$4.60	1.8	.5	-	-	3.9	-	-	-
\$4.60 and under \$4.80	2.3	.5	-	-	7.8	-	-	1.6
\$4.80 and under \$5.00	1.5	1.8	-	16.7	5.9	-	-	-
\$5.00 and under \$5.20	5.4	.9	-	19.4	68.6	-	-	-
\$5.20 and under \$5.40	4.2	16.4	-	8.3	3.9	-	-	1.6
\$5.40 and under \$5.60	1.7	4.5	-	-	3.9	2.0	-	-
\$5.60 and under \$5.80	8.3	48.6	-	-	2.0	2.0	-	-
\$5.80 and under \$6.00	2.1	-	-	-	2.0	-	-	-
\$6.00 and under \$6.20	3.1	.5	22.2	5.6	-	-	31.6	15.9
\$6.20 and under \$6.40	9.2	1.4	77.8	5.6	-	-	15.8	76.2
\$6.40 and under \$6.60	1.3	-	-	-	-	15.7	-	-
\$6.60 and under \$6.80	2.1	.5	-	-	-	51.0	-	-
\$6.80 and under \$7.00 .....	.4	-	-	-	-	2.0	-	-
\$7.00 and under \$7.20	1.7	-	-	-	-	-	-	-
\$7.20 and under \$7.40	1.4	-	-	-	-	-	42.1	-
\$7.40 and under \$7.60	1.3	.5	-	-	-	13.7	-	-
\$7.60 and under \$7.80 .....	.7	-	-	13.9	-	-	-	-
\$7.80 and under \$8.00 .....	.8	-	-	5.6	-	2.0	-	-
\$8.00 and under \$8.20 .....	.1	-	-	-	-	-	-	-
\$8.20 and under \$8.40 .....	.6	-	-	-	-	11.8	-	-
\$8.40 and under \$8.60 .....	.1	-	-	-	-	-	10.5	-
\$8.60 and under \$8.80 .....	.2	-	-	-	-	-	-	-
\$8.80 and under \$9.00 .....	.1	-	-	-	-	-	-	-
\$9.00 and over .....	.1	-	-	-	-	-	-	-

See footnotes at end of table.

Table 24. Occupational earnings for selected localities : Steel foundries—Continued

(Percent distribution of production workers by straight-time hourly earnings² in selected occupations, selected localities, September 1979)

Hourly earnings	Milwaukee							
	All production workers	Chippers and grinders ¹	Coremakers, hand	Laborers, general foundry	Mechanics, maintenance	Molders, machine, squeeze	Pourers, metal	Shakeout workers
Number of workers	2,691	210	53	87	97	38	58	75
Average hourly earnings ²	\$7.31	\$8.13	\$8.42	\$6.09	\$7.77	\$9.29	\$6.90	\$7.20
Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Under \$5.00	4.9	4.3	-	2.3	-	-	1.7	2.7
\$5.00 and under \$5.20	2.3	1.9	1.9	-	-	-	6.9	-
\$5.20 and under \$5.40	1.4	.5	1.9	1.1	-	-	1.7	5.3
\$5.40 and under \$5.60	2.6	7.1	3.8	-	-	-	-	-
\$5.60 and under \$5.80	3.9	1.4	-	17.2	-	5.3	3.4	2.7
\$5.80 and under \$6.00	5.0	3.3	3.8	43.7	-	2.6	5.2	5.3
\$6.00 and under \$6.20	5.4	3.8	1.9	6.9	-	-	1.7	9.3
\$6.20 and under \$6.40	5.1	3.3	9.4	8.0	1.0	2.6	5.2	4.0
\$6.40 and under \$6.60	3.5	2.4	1.9	1.1	-	-	3.4	1.3
\$6.60 and under \$6.80	6.9	12.4	-	4.6	1.0	5.3	8.6	5.3
\$6.80 and under \$7.00	9.8	3.3	1.9	13.8	-	2.6	5.2	18.7
\$7.00 and under \$7.20	6.2	1.4	9.4	1.1	4.1	-	13.8	-
\$7.20 and under \$7.40	3.8	-	5.7	-	12.4	-	6.9	4.0
\$7.40 and under \$7.60	3.6	2.4	3.8	-	12.4	5.3	-	2.7
\$7.60 and under \$7.80	5.8	1.4	7.5	-	27.8	5.3	31.0	4.0
\$7.80 and under \$8.00	3.6	3.3	-	-	21.6	2.6	-	-
\$8.00 and under \$8.20	2.4	1.4	1.9	-	1.0	-	-	-
\$8.20 and under \$8.40	2.7	3.8	-	-	6.2	10.5	1.7	10.7
\$8.40 and under \$8.60	2.3	1.4	1.9	-	6.2	-	3.4	13.3
\$8.60 and under \$8.80	1.6	3.3	1.9	-	-	5.3	-	-
\$8.80 and under \$9.00	2.0	1.4	1.9	-	-	-	-	10.7
\$9.00 and under \$9.20	2.7	1.0	3.8	-	6.2	13.2	-	-
\$9.20 and under \$9.40	1.6	7.1	-	-	-	-	-	-
\$9.40 and under \$9.60	1.2	2.9	3.8	-	-	-	-	-
\$9.60 and under \$9.80 .....	.8	1.9	1.9	-	-	-	-	-
\$9.80 and under \$10.00	1.5	4.3	1.9	-	-	-	-	-
\$10.00 and under \$10.20	1.0	1.0	5.7	-	-	-	-	-
\$10.20 and under \$10.40 .....	.6	2.9	1.9	-	-	-	-	-
\$10.40 and under \$10.60 .....	.6	1.9	-	-	-	7.9	-	-
\$10.60 and under \$10.80 .....	.9	.5	5.7	-	-	-	-	-
\$10.80 and under \$11.00 .....	.3	1.0	-	-	-	-	-	-
\$11.00 and under \$11.20 .....	.6	-	-	-	-	5.3	-	-
\$11.20 and under \$11.40 .....	.6	1.0	7.5	-	-	-	-	-
\$11.40 and under \$11.60 .....	.3	-	3.8	-	-	5.3	-	-
\$11.60 and under \$11.80 .....	.8	1.4	-	-	-	15.8	-	-
\$11.80 and under \$12.00 .....	.3	1.9	-	-	-	-	-	-
\$12.00 and over	1.4	7.6	3.8	-	-	5.3	-	-

See footnotes at end of table.

Table 24. Occupational earnings for selected localities : Steel foundries—Continued

(Percent distribution of production workers by straight-time hourly earnings² in selected occupations, selected localities, September 1979)

Hourly earnings	Pittsburgh							
	All pro- duction workers	Chippers and grinders ¹	Coremakers, hand	Laborers, general foundry	Mechanics, maintenance	Molders floor	Pourers, metal	Welders, hand
Number of workers	1,848	308	21	67	27	87	15	110
Average hourly earnings ²	\$7.91	\$7.78	\$8.51	\$7.22	\$8.19	\$8.66	\$8.99	\$8.06
Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Under \$6.00 .....	.3	-	-	4.5	-	-	-	-
\$6.00 and under \$6.20 .....	.6	-	-	-	-	-	-	-
\$6.20 and under \$6.40	1.4	-	-	6.0	-	-	-	-
\$6.40 and under \$6.60	2.2	-	-	-	-	-	-	-
\$6.60 and under \$6.80	4.1	8.8	-	-	-	-	-	-
\$6.80 and under \$7.00	8.4	2.6	-	35.8	-	-	13.3	14.5
\$7.00 and under \$7.20	8.3	21.4	-	-	-	21.8	-	.9
\$7.20 and under \$7.40	11.6	18.8	14.3	-	14.8	1.1	-	.9
\$7.40 and under \$7.60	10.9	17.9	4.8	41.8	11.1	9.2	-	-
\$7.60 and under \$7.80	12.9	3.2	19.0	6.0	22.2	-	-	50.9
\$7.80 and under \$8.00	4.0	1.3	-	-	-	6.9	-	1.8
\$8.00 and under \$8.20	6.5	1.9	28.6	-	-	17.2	40.0	-
\$8.20 and under \$8.40	3.9	2.9	-	3.0	14.8	6.9	-	1.8
\$8.40 and under \$8.60	3.7	1.6	-	3.0	-	-	-	1.8
\$8.60 and under \$8.80	2.9	1.3	-	-	3.7	-	-	.9
\$8.80 and under \$9.00	2.2	1.3	4.8	-	-	-	-	7.3
\$9.00 and under \$9.20	2.2	1.6	-	-	33.3	2.3	-	2.7
\$9.20 and under \$9.40	2.4	3.2	9.5	-	-	2.3	-	2.7
\$9.40 and under \$9.60	1.3	1.3	-	-	-	2.3	-	2.7
\$9.60 and under \$9.80	1.4	4.9	-	-	-	2.3	-	.9
\$9.80 and under \$10.00	2.1	1.6	-	-	-	1.1	-	1.8
\$10.00 and under \$10.20 .....	.8	.6	-	-	-	6.9	-	-
\$10.20 and under \$10.40	2.2	.6	-	-	-	-	46.7	-
\$10.40 and under \$10.60 .....	.5	.6	-	-	-	-	-	.9
\$10.60 and under \$10.80	1.0	1.3	19.0	-	-	-	-	7.3
\$10.80 and under \$11.00	1.1	.6	-	-	-	19.5	-	-
\$11.00 and over	1.4	.3	-	-	-	-	-	-

¹ Includes workers classified separately as chippers, grinders, and combination of chippers and grinders.

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

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

Table 25. Steel foundries: Occupational averages by size of community

(Number of workers and average straight-time hourly earnings¹ in selected occupations, United States and selected regions, September 1979)

Occupation	United States ²				New England		Southeast		Southwest		Great Lakes		Middle West		Pacific	
	Metropolitan areas		Nonmetropolitan areas													
	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
Arc-air scarfers	496	\$7.37	73	\$6.13	-	-	17	\$5.79	25	\$5.80	203	\$7.93	21	\$7.34	110	\$7.21
Chippers and grinders ³	5,511	7.12	571	5.34	94	\$5.45	-	-	402	5.10	2,023	7.95	276	7.77	892	6.35
Grinders	1,877	6.72	81	5.62	68	5.14	-	-	150	5.17	519	7.41	123	8.29	494	6.11
Chippers and grinders	2,495	7.29	396	4.90	-	-	-	-	126	5.08	1,174	8.54	115	6.18	319	6.76
Core assemblers and finishers	347	7.07	76	5.47	-	-	-	-	27	5.28	168	7.66	29	7.10	12	6.59
Coremakers, hand ³	954	7.77	80	7.03	17	6.89	58	6.78	54	5.76	384	8.29	75	8.15	163	7.62
Bench	490	7.74	41	6.15	-	-	-	-	40	5.30	222	8.22	55	8.14	64	8.05
Coremakers, machine ³	649	7.82	49	5.76	-	-	-	-	-	-	230	7.79	27	7.19	69	8.15
Core-blowing machine	469	7.67	29	5.31	-	-	-	-	-	-	207	7.74	23	7.28	45	8.19
Crane operators, electric bridge	1,515	7.33	95	5.61	-	-	84	5.93	81	5.95	591	7.60	81	7.00	144	7.17
Under 20 tons	824	7.01	55	5.44	-	-	-	-	81	5.95	306	7.26	44	7.52	98	7.14
20 tons and over	691	7.71	40	5.84	-	-	-	-	-	-	285	7.96	-	-	-	-
Electricians, maintenance	646	8.44	71	6.55	-	-	-	-	51	6.92	290	8.79	34	7.47	40	8.83
Furnace tenders, electric	619	7.40	69	5.91	-	-	24	6.27	35	5.95	195	7.70	24	7.73	160	7.18
Furnace tenders' helpers	390	6.46	51	6.24	-	-	19	5.36	50	5.03	122	7.20	24	7.04	62	5.86
Inspectors, class A	461	7.37	35	6.83	14	7.00	-	-	58	5.98	218	7.42	-	-	77	8.21
Inspectors, class B	855	7.08	63	6.02	23	6.05	-	-	-	-	593	7.04	39	8.67	36	7.90
Inspectors, class C	494	5.77	39	5.11	38	4.69	-	-	25	4.27	246	5.94	-	-	66	5.04
Laborers, general foundry	2,948	6.12	263	5.00	26	5.07	124	4.32	389	4.41	1,204	6.50	165	5.89	362	6.32
Mechanics, general	451	7.26	41	6.51	24	6.68	39	6.45	44	6.65	189	7.33	-	-	54	8.31
Mechanics, maintenance	1,249	7.77	127	6.50	-	-	-	-	90	6.46	526	8.15	92	7.52	169	7.67
Molders, floor	854	7.55	32	7.39	-	-	72	6.45	-	-	133	8.10	87	7.67	185	7.90
Molders, hand, bench	150	8.79	29	5.90	-	-	-	-	20	6.15	21	6.60	-	-	-	-
Molders, machine, semi-automatic	1,042	7.77	173	6.72	-	-	67	6.36	103	5.27	440	8.74	55	7.55	172	7.88
Patternmakers, metal	235	10.71	15	7.63	-	-	-	-	-	-	131	11.61	-	-	-	-
Patternmakers, wood	305	9.40	38	6.35	-	-	9	6.95	-	-	121	10.37	22	8.01	37	10.62
Pourers, metal	857	6.85	93	6.12	31	5.76	42	5.44	84	5.28	380	7.34	71	6.58	77	6.07
Repairers, wood patterns	201	6.90	24	6.08	-	-	-	-	49	5.50	83	7.14	12	6.36	20	9.88
Sand- or shot-blast operators	463	6.90	111	5.88	-	-	23	5.44	31	5.05	184	7.09	32	6.24	47	6.43
Sand mixers	412	6.51	40	5.55	-	-	24	5.55	38	5.09	142	6.64	38	6.39	65	6.95
Shakeout workers	781	6.77	87	5.03	12	5.65	-	-	44	5.03	249	7.51	47	6.82	129	5.85
Shell-mold and/or shell-core machine operators	349	7.17	39	4.56	-	-	14	5.52	47	5.19	133	7.73	26	8.68	-	-
Truckers, power ³	979	6.85	96	5.34	-	-	23	5.48	95	5.09	460	7.03	50	7.19	81	6.87
Forklift	799	6.68	96	5.34	-	-	16	5.49	82	5.08	400	7.01	-	-	77	6.84
Welders, hand ³	2,265	7.42	277	6.45	38	6.49	88	6.14	270	5.80	962	7.97	129	7.25	251	7.69
Repairers	1,045	7.34	194	6.16	-	-	-	-	150	6.28	344	7.65	66	7.66	114	8.06

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

² Includes data for regions in addition to those shown separately.

³ Includes data for workers in classification in addition to those shown separately.

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

Table 26. Steel foundries: Occupational averages by size of establishment

(Number of workers and average straight-time hourly earnings¹ in selected occupations, United States and selected regions, September 1979)

Occupation	United States ²		Middle Atlantic				Southeast		Southwest				Great Lakes		Middle West		Pacific					
	Establishments with—																					
	50-249 workers		250 workers or more		50-249 workers		250 workers or more		50-249 workers		50-249 workers		250 workers or more		50-249 workers		250 workers or more		50-249 workers		250 workers or more	
	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	Number of workers	Average hourly earnings	Number of workers	Average hourly earnings	Number of workers	Average hourly earnings
Arc-air scarfers	143	\$6.39	426	\$7.48	-	-	91	\$7.57	18	\$5.39	17	\$5.39	-	-	192	\$7.90	41	\$6.69	48	\$6.82	62	\$7.52
Carpenters, maintenance	10	6.20	109	8.16	-	-	34	9.15	-	-	-	-	-	57	7.77	-	-	-	-	-	-	-
Chippers and grinders	1,919	5.94	4,163	7.42	329	\$5.85	987	8.10	151	4.85	123	4.66	362	\$5.32	1,712	8.07	275	7.70	427	6.28	465	6.42
Chippers	274	5.99	959	7.79	-	-	467	8.84	-	-	-	-	-	-	266	7.18	-	-	79	6.25	-	-
Grinders	606	5.79	1,352	7.07	123	5.84	345	7.42	-	-	-	-	123	5.58	417	7.83	100	8.64	181	6.23	313	6.04
Chippers and grinders	1,039	6.01	1,852	7.49	151	5.85	175	7.47	137	4.96	95	5.06	114	5.35	1,029	8.40	74	6.05	167	6.37	-	-
Core assemblers and finishers	141	5.64	282	7.35	55	6.01	43	7.84	16	4.67	17	4.88	19	5.90	187	7.35	30	7.71	12	6.59	-	-
Coremakers, hand	290	6.74	744	8.09	36	6.76	135	8.10	26	6.07	21	4.99	42	6.28	371	8.25	88	8.52	103	7.14	60	8.44
Bench	153	6.57	378	8.04	-	-	46	8.01	-	-	21	4.99	25	5.76	226	8.20	-	-	41	7.83	-	-
Floor	19	6.03	215	8.52	-	-	63	8.57	-	-	-	-	-	-	97	8.58	-	-	-	-	-	-
Bench and floor	118	7.08	151	7.60	10	6.85	26	7.14	14	5.97	-	-	-	-	-	-	-	-	62	6.68	-	-
Coremakers, machine ³	77	6.52	621	7.81	-	-	203	9.17	-	-	-	-	-	-	215	7.67	24	7.30	-	-	-	-
Core-blowing machine	57	6.26	441	7.70	-	-	123	8.44	-	-	-	-	-	-	198	7.71	20	7.43	-	-	-	-
Crane operators, electric bridge	258	6.60	1,352	7.35	-	-	434	7.87	25	5.81	20	5.39	74	6.07	583	7.44	104	6.58	66	7.04	78	7.28
Under 20 tons	166	6.83	713	6.93	9	7.52	163	7.52	20	5.86	20	5.39	74	6.07	297	6.96	54	7.14	52	7.02	-	-
20 tons and over	92	6.18	639	7.81	-	-	271	8.07	-	-	-	-	-	-	286	7.95	-	-	-	-	-	-
Electricians, maintenance	90	7.48	627	8.37	6	6.69	175	8.76	-	-	17	6.65	43	7.28	287	8.69	52	6.89	-	-	19	8.79
Furnace tenders, electric	254	6.40	434	7.74	40	6.69	94	8.32	18	5.94	23	5.68	26	6.72	159	7.85	22	7.23	71	6.63	89	7.62
Furnace tenders' helpers	158	5.60	283	6.90	28	5.65	53	7.70	16	4.93	20	4.43	30	5.43	115	7.28	26	6.92	38	5.52	24	6.40
Helpers, trades, maintenance	29	4.87	151	6.26	-	-	-	-	-	-	-	-	7	5.17	86	6.46	-	-	-	-	-	-
Inspectors, class A	46	6.66	450	7.40	-	-	66	7.98	-	-	-	-	50	6.00	229	7.40	-	-	-	-	75	8.23
Inspectors, class B	110	6.76	808	7.04	25	5.84	113	7.27	-	-	-	-	24	5.71	575	6.97	53	7.86	15	7.45	21	8.22
Inspectors, class C	135	5.00	398	5.96	-	-	50	6.87	8	5.04	-	-	-	-	216	6.21	-	-	21	6.37	-	-
Laborers, general foundry	752	5.27	2,459	6.27	63	5.82	481	7.23	61	4.44	211	4.06	215	4.83	1,222	6.48	159	5.65	192	6.52	170	6.09
Laborers, material handling	107	6.25	439	8.02	-	-	-	-	-	-	-	-	-	-	266	7.75	17	7.82	-	-	-	-
Machinists, maintenance	68	6.88	288	9.26	-	-	-	-	-	-	-	-	-	-	144	8.63	-	-	-	-	-	-
Mechanics, general	147	7.03	345	7.27	15	7.93	-	-	33	6.10	-	-	39	6.96	177	7.36	-	-	31	8.24	-	-
Mechanics, maintenance	300	6.85	1,076	7.88	-	-	192	8.28	-	-	18	6.52	109	6.79	445	8.35	137	6.98	78	7.44	91	7.86
Molders, floor	291	6.97	595	7.83	71	6.95	183	8.24	44	6.17	-	-	-	-	97	7.59	79	8.14	64	6.76	-	-
Molders, hand, bench	77	5.56	102	10.40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Molders, machine, automatic	36	7.24	145	6.82	-	-	-	-	-	-	-	-	22	5.82	48	7.42	-	-	-	-	-	-
Molders, machine, semi-automatic ³	410	7.27	805	7.81	32	7.18	120	7.88	27	5.38	-	-	71	5.97	467	8.17	39	7.47	123	7.67	49	8.40
Jarring	53	9.70	76	7.84	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Roll-over	91	6.21	288	7.22	-	-	46	7.69	-	-	-	-	25	5.71	153	7.23	9	6.35	-	-	-	-
Squeeze	200	7.31	266	7.78	-	-	-	-	17	5.69	-	-	44	6.15	163	8.46	-	-	64	7.42	-	-
Patternmakers, metal	29	7.99	221	10.85	-	-	60	9.81	-	-	-	-	-	-	140	11.40	-	-	-	-	-	-
Patternmakers, wood	71	7.47	272	9.47	12	7.39	68	8.72	-	-	6	6.36	19	8.33	113	10.66	33	6.99	16	9.29	-	-
Pourers, metal	351	6.03	599	7.21	26	5.81	108	8.52	26	5.19	20	4.78	70	5.52	278	7.84	38	6.66	41	6.94	-	-
Repairers, wood patterns	62	6.13	163	7.07	-	-	-	-	-	-	-	-	37	5.64	71	7.14	12	6.36	-	-	-	-
Sand- or shot-blast operators	154	5.61	420	7.10	17	5.74	109	8.25	10	5.25	9	4.09	29	5.39	217	7.02	16	6.71	24	6.26	23	6.60
Sand-slinger operators	34	6.31	231	7.85	-	-	41	9.39	-	-	-	-	-	-	118	8.44	10	5.68	-	-	-	-
Sand mixers	145	5.86	307	6.70	10	6.25	70	7.33	11	5.15	9	4.10	32	5.45	121	6.82	26	6.58	38	6.68	27	7.32
Shakeout workers	211	5.77	657	6.86	21	6.30	193	7.56	14	4.92	12	4.14	38	5.35	242	7.31	35	6.76	51	5.95	78	5.78

See footnotes at end of table.

Table 26. Steel foundries: Occupational averages by size of establishment—Continued(Number of workers and average straight-time hourly earnings¹ in selected occupations, United States and selected regions, September 1979)

Occupation	United States ²				Middle Atlantic				Southeast		Southwest		Great Lakes		Middle West		Pacific					
	Establishments with—																					
	50-249 workers		250 workers or more		50-249 workers		250 workers or more		50-249 workers		50-249 workers		250 workers or more		50-249 workers		250 workers or more		50-249 workers		250 workers or more	
	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	Number of workers	Average hourly earnings	Number of workers	Average hourly earnings	Number of workers	Average hourly earnings
Shell-mold and/or shell-core machine operators	122	\$6.37	266	\$7.16	21	\$6.99	-	-	-	-	-	-	33	\$5.30	112	\$7.34	-	-	9	\$7.54	-	-
Truckers, power	137	5.85	938	6.84	10	7.19	191	\$7.73	13	\$5.22	21	\$4.93	91	5.18	461	7.01	66	\$6.57	30	6.52	51	\$7.07
Forklift	125	5.79	770	6.66	9	7.13	104	7.09	12	5.23	20	4.96	79	5.19	401	6.98	63	6.50	26	6.40	51	7.07
Other than forklift	12	6.47	168	7.69	-	-	-	-	-	-	-	-	-	-	60	7.22	-	-	-	-	-	-
Tumbler operators	65	5.86	104	7.48	-	-	34	8.17	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Welders, hand	546	6.53	1,996	7.52	-	-	409	7.78	34	5.33	43	5.57	293	6.11	889	8.01	121	7.25	120	7.10	131	8.23
Assemblers	46	6.80	427	7.52	-	-	129	8.21	-	-	-	-	-	-	202	7.91	-	-	-	-	-	-
Repairers	316	6.41	923	7.42	-	-	194	8.18	17	5.46	28	6.06	188	6.57	299	7.54	65	7.71	44	7.18	70	8.61
Combination	184	6.68	646	7.68	-	-	86	6.22	-	-	-	-	-	-	-	-	-	-	66	7.20	-	-

¹ Excludes premium pay for overtime and for work on weekends, holidays, and late shifts.² Includes data for regions in addition to those shown separately.³ Includes data for workers in classification in addition to those shown separately.

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

Table 27. Steel foundries: Occupational averages by labor-management contract coverage

(Number of workers and average straight-time hourly earnings¹ in selected occupations, United States and selected regions, September 1979)

Occupation	United States ²		Middle Atlantic		Southeast		Southwest		Great Lakes		Middle West		Pacific					
	Establishments with—																	
	Majority of workers covered		None or minority of workers covered		Majority of workers covered								None or minority of workers covered		Majority of workers covered			
	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	Number of workers	Average hourly earnings
Arc-air scarfers	484	\$7.29	85	\$6.75	104	\$7.28	17	\$5.79	37	\$6.17	186	\$7.91	38	\$7.39	41	\$6.69	85	\$7.20
Carpenters, maintenance	98	8.34	21	6.43	36	8.94	-	-	-	-	42	8.43	-	-	-	-	-	-
Chippers and grinders	5,132	7.21	950	5.55	1,283	7.64	-	-	381	5.37	1,996	7.87	298	6.18	305	7.55	591	6.60
Chippers	1,230	7.40	-	-	522	8.52	-	-	-	-	357	6.86	-	-	-	-	79	6.25
Grinders	1,354	7.21	604	5.46	435	7.27	-	-	57	6.26	497	7.48	43	6.76	101	8.62	193	6.48
Chippers and grinders	2,548	7.12	343	5.73	326	6.72	-	-	199	5.32	1,142	8.35	255	6.08	101	6.07	319	6.76
Core assemblers and finishers	358	7.07	65	5.17	98	6.81	-	-	32	5.66	160	7.71	-	-	43	7.06	12	6.59
Coremakers, hand	948	7.77	86	7.07	171	7.82	55	6.82	55	6.22	388	8.08	40	7.96	97	8.32	143	7.70
Bench	463	7.73	68	6.87	70	7.53	-	-	38	5.85	220	7.96	34	7.68	56	8.29	44	8.52
Floor	225	8.32	9	8.17	65	8.55	-	-	-	-	98	8.30	6	9.59	-	-	-	-
Bench and floor	260	7.37	9	7.47	36	7.06	-	-	-	-	-	-	-	-	12	7.16	80	7.10
Coremakers, machine ³	592	7.94	106	6.17	205	9.16	-	-	-	-	220	7.57	36	7.42	28	7.23	61	8.31
Core-blowing machine	449	7.57	49	7.15	125	8.43	-	-	-	-	194	7.49	34	7.48	24	7.32	-	-
Crane operators, electric bridge ³	1,524	7.28	86	6.30	487	7.67	84	5.93	92	5.99	557	7.60	76	6.42	113	6.59	144	7.17
Under 20 tons	805	6.95	74	6.46	172	7.52	-	-	92	5.99	266	7.22	64	6.62	54	7.14	98	7.14
Electricians, maintenance	649	8.31	68	7.77	181	8.69	-	-	46	6.89	291	8.64	31	7.71	55	6.89	28	8.84
Furnace tenders, electric	532	7.49	156	6.43	130	7.93	23	6.19	40	6.40	194	7.56	39	6.21	25	7.21	79	7.73
Furnace tenders' helpers	342	6.74	99	5.37	77	7.14	18	5.25	36	5.45	124	7.16	38	6.65	28	6.90	31	6.90
Helpers, trades, maintenance	121	6.67	59	4.75	-	-	13	4.69	-	-	-	-	-	-	-	-	-	-
Inspectors, class A	401	7.28	95	7.57	69	7.95	-	-	57	5.96	219	7.29	25	8.00	-	-	-	-
Inspectors, class B	806	7.12	112	6.22	127	7.22	-	-	22	5.70	575	7.03	53	6.45	54	7.84	19	8.84
Inspectors, class C	420	5.97	113	4.78	47	7.13	-	-	8	5.60	244	5.95	29	5.26	-	-	58	5.02
Laborers, general foundry	2,761	6.27	450	4.59	541	7.09	119	4.29	264	4.84	1,215	6.50	155	5.06	169	5.69	308	6.56
Laborers, material handling	502	7.91	44	5.03	-	-	26	5.16	-	-	291	7.89	32	5.04	18	7.75	-	-
Mechanics, general	386	7.22	106	7.10	60	7.51	36	6.30	-	-	196	7.29	-	-	-	-	31	8.24
Mechanics, maintenance	1,279	7.68	97	7.37	254	7.81	-	-	126	6.75	497	8.12	68	7.21	137	6.98	153	7.66
Molders, floor	786	7.72	100	6.17	254	7.88	64	6.33	-	-	127	8.11	11	7.63	102	7.79	173	7.95
Molders, machine, semi-automatic ³	1,017	7.76	198	6.93	152	7.74	65	6.41	79	5.89	474	8.38	-	-	48	7.24	148	8.00
Squeeze	407	7.54	59	7.85	12	6.23	27	6.69	50	6.04	222	8.20	-	-	14	6.32	61	7.76
Patternmakers, metal	199	10.90	51	9.04	66	9.76	-	-	-	-	125	11.78	19	8.03	-	-	-	-
Patternmakers, wood	307	9.15	36	8.24	80	8.52	-	-	15	6.85	119	10.40	-	-	37	7.00	-	-
Pourers, metal	795	6.89	155	6.21	125	8.19	42	5.44	71	5.44	394	7.25	47	6.89	60	6.44	57	5.73
Repairers, wood patterns	184	6.93	41	6.28	-	-	-	-	38	5.57	80	6.93	27	6.80	12	6.36	20	9.88
Sand- or shot-blast operators	435	7.00	139	5.78	112	8.45	23	5.44	28	5.40	187	6.94	90	6.31	30	6.28	34	6.54
Sand-slinger operators	255	7.64	10	7.92	51	8.71	-	-	-	-	125	8.20	-	-	10	5.68	6	7.71
Sand mixers	390	6.50	62	5.98	80	7.19	23	5.44	28	5.43	150	6.43	21	6.84	33	6.38	57	6.95
Shakeout workers	725	6.85	143	5.31	214	7.44	-	-	43	5.33	251	7.32	60	5.76	48	6.57	86	6.22
Shell-mold and/or shell-core machine operators	299	7.29	89	5.62	69	7.51	14	5.52	37	5.37	123	7.55	33	6.28	22	8.87	-	-
Truckers, power	997	6.82	78	5.42	201	7.70	22	5.50	100	5.15	460	7.03	45	5.53	68	6.57	81	6.87
Forklift	824	6.64	71	5.33	113	7.09	16	5.49	87	5.15	403	7.00	-	-	65	6.50	77	6.84
Other than forklift	173	7.66	7	6.33	-	-	-	-	-	-	57	7.27	-	-	-	-	-	-

See footnotes at end of table.

Table 27. Steel foundries: Occupational averages by labor-management contract coverage—Continued(Number of workers and average straight-time hourly earnings¹ in selected occupations, United States and selected regions, September 1979)

Occupation	United States ²		Middle Atlantic	Southeast	Southwest	Great Lakes		Middle West	Pacific									
	Establishments with—																	
	Majority of workers covered		None or minority of workers covered		Majority of workers covered								None or minority of workers covered		Majority of workers covered			
	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	Number of workers	Average hourly earnings
Tumbler operators	150	\$7.10	19	\$4.91	38	\$8.11	-	-	-	-	73	\$7.00	-	-	-	-	-	-
Welders, hand ³	2,280	7.38	262	6.75	473	7.56	88	\$6.14	327	\$6.10	959	7.88	124	\$6.95	148	\$7.13	217	\$7.65
Repairers	1,057	7.20	182	6.89	239	7.76	-	-	216	6.51	330	7.29	118	7.03	65	7.71	80	8.11
Combination	783	7.52	47	6.45	105	6.32	-	-	-	-	-	-	-	-	63	6.82	122	7.61

¹ Excludes premium pay for overtime and for work on weekends, holidays, and late shifts.² Includes data for regions in addition to those shown separately.³ Includes data for workers in classification in addition to those shown separately.

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

Table 28. Steel foundries: Occupational averages by method of wage payment

(Number of workers and average straight-time hourly earnings¹ in selected occupations, United States and selected regions, September 1979)

Occupation	United States ²				Middle Atlantic				Southwest		Great Lakes				Middle West		Pacific	
	Timeworkers		Incentive workers		Timeworkers		Incentive workers		Timeworkers	Timeworkers	Timeworkers		Incentive workers		Timeworkers	Timeworkers		
	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	Number of workers	Average hourly earnings
Arc-air scarfers	386	\$6.57	183	\$8.57	69	\$6.25	35	\$9.30	43	\$5.60	112	\$6.88	112	\$8.76	-	-	110	\$7.21
Chippers and grinders	4,079	6.04	2,003	8.82	817	6.27	499	9.62	444	4.97	990	6.46	1,304	8.55	184	\$6.11	892	6.35
Chippers	642	6.03	591	8.87	161	6.67	361	9.35	-	-	224	6.10	-	-	-	-	79	6.25
Grinders	1,575	6.11	383	8.96	384	6.20	84	10.69	118	4.61	335	7.01	205	8.10	61	6.16	494	6.11
Chippers and grinders	1,862	5.97	1,029	8.74	272	6.12	-	-	205	5.18	431	6.23	966	8.70	110	6.11	319	6.76
Core assemblers and finishers	277	5.79	146	8.67	69	6.04	29	8.64	33	5.13	115	5.86	93	8.76	23	5.93	12	6.59
Coremakers, hand	529	6.88	505	8.58	104	6.87	-	-	49	5.50	110	6.89	318	8.47	27	6.41	163	7.62
Bench	239	6.66	292	8.39	46	6.71	24	9.10	46	5.41	-	-	226	8.20	20	6.39	64	8.05
Floor	91	6.93	143	9.19	24	6.99	-	-	-	-	-	-	70	9.25	-	-	-	-
Bench and floor	199	7.11	70	8.12	34	7.00	-	-	-	-	-	-	-	-	-	-	80	7.10
Coremakers, machine ³	444	6.66	254	9.43	-	-	118	10.71	-	-	126	6.84	130	8.24	23	6.45	69	8.15
Core-blowing machine	329	6.87	169	8.82	-	-	-	-	-	-	-	-	105	8.27	19	6.40	45	8.19
Turn-over-draw machine	73	6.02	38	8.81	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Crane operators, electric bridge	1,371	6.93	239	8.95	375	7.15	-	-	76	5.64	535	7.26	98	8.54	102	6.12	144	7.17
Under 20 tons	756	6.69	123	8.24	146	7.34	-	-	76	5.64	262	6.87	68	7.99	43	6.17	98	7.14
20 tons and over	615	7.21	116	9.70	229	7.03	-	-	-	-	273	7.64	-	-	59	6.08	-	-
Furnace tenders, electric	608	7.00	80	9.18	109	7.19	25	10.64	49	6.23	184	7.05	49	8.40	28	6.74	160	7.18
Furnace tenders' helpers	390	6.09	51	9.07	69	6.45	12	10.12	45	4.72	135	6.71	27	8.67	22	5.87	62	5.86
Inspectors, class A	473	7.28	23	8.45	68	7.83	-	-	50	5.70	232	7.29	-	-	-	-	77	8.21
Inspectors, class B	840	6.88	78	8.40	134	6.97	-	-	24	5.49	574	6.93	54	7.56	39	6.30	36	7.90
Inspectors, class C	498	5.60	35	7.41	38	6.41	-	-	26	4.17	253	5.79	-	-	-	-	66	5.04
Laborers, general foundry	3,130	6.00	81	7.46	481	6.99	-	-	426	4.45	1,358	6.34	-	-	183	5.73	362	6.32
Mechanics, maintenance	1,277	7.51	99	9.57	173	6.89	81	9.77	127	6.75	547	7.99	-	-	143	7.01	169	7.67
Molders, floor	672	7.13	214	8.86	191	7.19	63	9.98	-	-	91	7.42	47	9.34	45	6.60	185	7.90
Molders, machine, automatic	157	6.58	24	9.02	-	-	-	-	30	5.84	46	6.80	-	-	-	-	20	8.30
Molders, machine, semi-automatic ³	638	7.01	577	8.30	97	6.57	55	9.79	86	4.83	195	7.94	416	8.29	35	6.27	156	7.97
Jarring	46	7.23	83	9.36	-	-	-	-	-	-	-	-	73	9.53	-	-	-	-
Roll-over	159	6.31	220	7.46	-	-	18	9.62	31	4.96	-	-	164	7.34	9	6.35	-	-
Squeeze	264	6.90	202	8.47	12	6.23	-	-	42	5.12	-	-	157	8.68	17	6.33	69	7.73
Other (single) machine	30	6.77	49	8.97	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pourers, metal	784	6.41	166	8.50	65	6.55	-	-	86	5.28	360	7.08	81	7.83	59	6.17	77	6.07
Sand- or shot-blast operators	422	5.98	152	8.73	53	5.48	73	9.68	33	4.92	208	6.35	69	7.89	28	5.73	47	6.43
Sand-slinger operators	142	6.35	123	9.16	26	6.85	25	10.64	-	-	38	6.60	96	8.83	10	5.68	6	7.71
Sand mixers	389	6.19	63	7.90	62	6.80	18	8.55	33	4.99	138	6.16	33	7.79	34	5.96	65	6.95
Shakeout workers	715	6.27	153	8.14	167	6.99	47	9.03	37	4.79	241	6.74	70	7.97	33	5.45	129	5.85
Shell-mold and/or shell-core machine operators	292	6.27	96	8.86	30	6.60	-	-	49	5.18	110	6.71	46	8.65	15	6.25	-	-
Tumbler operators	101	5.75	68	8.50	28	6.41	-	-	-	-	26	4.97	-	-	-	-	17	6.97
Welders, hand ³	1,580	6.64	962	8.41	363	6.85	115	9.75	288	5.80	349	6.68	734	8.29	98	6.56	251	7.69
Assemblers	290	6.54	183	8.89	67	7.06	62	9.45	-	-	-	-	-	-	-	-	-	-
Repairers	884	6.70	355	8.30	191	7.06	53	10.10	168	6.22	215	6.58	233	7.82	-	-	114	8.06

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

² Includes data for regions in addition to those shown separately.

³ Includes data for workers in classification in addition to those shown separately.

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

Table 29. Method of wage payment—All foundries

(Percent of production workers in establishments by method of wage payment,¹ United States and selected regions, September 1979)

Method of wage payment	United States ²	New England	Middle Atlantic	Border States	South-east	South-west	Great Lakes	Middle West	Mountain	Pacific
All workers	100	100	100	100	100	100	100	100	100	100
Time-rated workers ³	80	82	70	67	89	78	79	75	87	98
Formal plans	77	72	68	65	85	66	78	68	82	86
Single rate	46	13	41	61	29	6	59	16	40	46
Range of rates	30	59	27	5	56	60	20	52	43	40
Individual rates	3	10	2	2	4	12	(⁴)	7	5	12
Incentive workers	20	18	30	33	11	22	21	25	13	2
Individual piecework	10	18	14	9	4	10	10	15	1	1
Group piecework	3	-	10	3	1	1	2	(⁴)	-	-
Individual bonus	5	-	2	16	4	10	5	2	8	1
Group bonus	3	(⁴)	3	6	3	1	3	8	4	1

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

² Includes data for regions in addition to those shown separately.

³ Includes data for workers on stint work not shown separately.

⁴ Less than 0.5 percent.

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

Table 30. Scheduled weekly hours—All foundries

(Percent of production workers in establishments by scheduled weekly hours,¹ United States and selected regions, September 1979)

Weekly hours	United States ²	New England	Middle Atlantic	Border States	South-east	South-west	Great Lakes	Middle West	Mountain	Pacific
All workers	100	100	100	100	100	100	100	100	100	100
Under 40 hours	2	5	1	7	8	-	2	-	-	-
40 hours	91	73	97	87	89	71	92	92	100	97
Over 40 and under 45 hours	1	5	-	-	-	8	1	4	-	-
45 hours	3	18	-	-	3	13	3	4	-	-
Over 45 hours	2	-	1	7	-	8	2	-	-	3

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

² Includes data for regions in addition to those shown separately.

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

Table 31. Shift differential provisions—All foundries

(Percent of production workers in establishments by shift differential provisions,¹ United States and selected regions, September 1979)

Shift differential	United States ²	New England	Middle Atlantic	Border States	South-east	South-west	Great Lakes	Middle West	Mountain	Pacific
Second shift										
Workers in establishments with second-shift provisions	96.8	83.3	95.4	95.9	96.3	94.5	98.8	94.0	94.0	92.9
With shift differential	95.6	82.0	95.4	95.9	90.7	86.8	98.5	94.0	94.0	92.9
Uniform cents per hour	73.3	64.4	89.0	68.0	90.7	86.8	64.4	91.4	71.0	70.1
Under 10 cents	16.4	2.0	10.9	6.8	33.4	27.8	12.1	30.9	2.5	29.1
10 cents	13.7	2.0	10.9	1.1	25.8	27.8	9.7	20.4	2.5	29.1
11 cents .....	.6	-	-	-	1.9	1.0	.6	-	-	-
12 cents	3.6	-	6.9	2.2	9.2	2.9	1.7	-	25.8	4.0
13 cents .....	.1	-	-	-	-	-	-	-	-	1.4
14 cents	2.4	-	2.8	-	-	-	3.5	-	-	2.7
15 cents	16.1	8.6	19.1	5.9	22.0	43.3	11.0	28.9	2.9	22.1
16 cents	4.0	-	2.7	-	13.0	-	4.1	-	-	-
17 cents	3	-	.5	-	2.3	-	-	-	-	-
18 cents	3.3	-	1.1	-	6.2	-	4.1	-	17.0	-
20 cents	15.6	34.0	38.3	53.1	-	8.0	11.8	27.9	-	5.5
Over 20 and under 25 cents .....	.7	-	-	-	-	-	1.2	-	6.4	-
25 cents	4.6	5.4	3.7	-	1.8	-	6.0	3.7	16.4	4.1
Over 25 and under 30 cents .....	.1	-	-	-	1.0	-	-	-	-	-
30 cents .....	.7	7.6	2.9	-	-	3.8	-	-	-	-
Over 30 and under 35 cents .....	.1	-	-	-	-	-	-	-	-	1.1
35 cents	2.5	-	-	-	-	-	4.6	-	-	-
Over 35 cents	2.2	6.7	-	-	-	-	3.7	-	-	-
Uniform percentage	20.6	17.6	6.4	27.9	-	-	33.2	2.6	23.0	-
5 percent	17.2	9.1	-	-	-	-	31.3	-	-	-
6 percent	1.4	-	-	27.9	-	-	.9	-	-	-
7 or 7.5 percent .....	.6	-	1.2	-	-	-	-	2.6	23.0	-
10 percent	1.0	8.4	4.7	-	-	-	.5	-	-	-
15 percent .....	.3	-	-	-	-	-	.5	-	-	-
Over 15 percent .....	.1	-	.5	-	-	-	-	-	-	-
Other formal paid differential	1.8	-	-	-	-	-	.8	-	-	22.8
Third or other late shift										
Workers in establishments with third-shift provisions	91.0	55.8	90.8	93.6	85.2	79.7	95.2	92.4	80.9	87.1
With shift differential	91.0	55.8	90.8	93.6	85.2	79.7	95.2	92.4	80.9	87.1
Uniform cents per hour	70.5	43.6	86.0	65.7	85.2	79.7	65.0	84.4	57.9	57.9
Under 10 cents .....	.3	-	-	3.9	-	-	-	5.1	-	-
10 cents	4.4	-	6.2	-	3.7	-	5.5	5.3	-	1.4
12 cents	2.5	-	.2	1.8	2.5	14.7	2.4	-	-	-
13 cents .....	.1	-	-	-	.8	-	-	-	-	-
14 cents .....	.5	-	.4	2.2	2.4	-	-	2.6	-	-
15 or 15.5 cents	14.0	-	10.6	-	30.9	35.4	10.1	20.3	-	17.0
16 cents	1.9	-	1.1	-	-	1.0	3.2	-	-	-
17 cents	1.1	-	.7	-	1.3	-	1.0	-	25.8	-
18 cents	1.8	-	6.3	-	-	-	1.4	3.1	-	2.7
19 cents	1.5	-	.6	-	-	-	2.5	-	-	-
20 cents	14.6	5.6	15.3	57.8	33.4	7.7	7.3	36.0	-	20.8
Over 20 and under 25 cents	4.3	-	5.6	-	8.0	-	4.6	-	-	5.2
25 cents	9.3	9.2	19.0	-	1.2	12.3	9.4	12.0	6.4	4.1
Over 25 and under 30 cents .....	.6	-	-	-	1.0	-	.5	-	17.0	-

See footnotes at end of table.

Table 31. Shift differential provisions—All foundries—Continued(Percent of production workers in establishments by shift differential provisions,¹ United States and selected regions, September 1979)

Shift differential	United States ²	New England	Middle Atlantic	Border States	South-east	South-west	Great Lakes	Middle West	Mountain	Pacific
Uniform cents per hour—Continued										
30 cents	8.5	28.8	18.8	-	-	8.7	8.5	-	8.7	5.5
Over 30 and under 35 cents .....	.1	-	-	-	-	-	-	-	-	1.1
35 cents	2.3	-	-	-	-	-	4.2	-	-	-
40 cents .....	.2	-	1.2	-	-	-	-	-	-	-
45 cents .....	.6	-	-	-	-	-	1.2	-	-	-
Over 50 cents	1.8	-	-	-	-	-	3.4	-	-	-
Uniform percentage	18.1	12.2	4.8	27.9	-	-	29.3	2.6	23.0	-
5 percent .....	.3	-	-	-	-	-	-	-	23.0	-
6 percent	1.4	-	-	27.9	-	-	.9	-	-	-
10 percent	16.1	12.2	3.5	-	-	-	28.4	-	-	-
Over 10 and under 15 percent .....	.2	-	.8	-	-	-	-	2.6	-	-
Over 15 percent .....	.1	-	.5	-	-	-	-	-	-	-
Other formal paid differential	2.3	-	-	-	-	-	.8	5.4	-	29.3

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

² Includes data for regions in addition to those shown separately.

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

Table 32. Shift differential practices—All foundries

(Percent of production workers in establishments employed on late shifts by amount of pay differential, United States and selected regions, September 1979)

Shift differential	United States ¹	New England	Middle Atlantic	Border States	South-east	South-west	Great Lakes	Middle West	Mountain	Pacific
Second shift										
Workers employed on second shift	26.2	16.3	22.7	31.2	23.5	26.0	28.5	20.4	31.1	21.0
Receiving differential	26.0	16.0	22.7	31.2	22.5	24.5	28.4	20.4	31.1	21.0
Uniform cents per hour	18.8	13.7	21.8	20.7	22.5	24.5	17.0	20.4	24.9	15.0
Under 10 cents	3.2	.4	2.6	.8	7.6	6.2	2.0	6.2	-	6.5
10 cents	2.7	.4	2.6	.1	6.9	6.2	1.3	4.6	-	6.5
11 cents .....	.2	-	-	-	.6	.2	.2	-	-	-
12 cents	1.0	-	1.5	.8	1.8	.9	.6	-	12.5	.2
13 cents	(²)	-	-	-	-	-	-	-	-	.3
14 cents .....	.8	-	.8	-	-	-	1.1	-	-	.7
15 cents	4.1	1.0	4.1	.5	5.1	13.6	3.0	5.9	.9	5.8
16 cents	1.2	-	.7	-	4.5	-	1.2	-	-	-
17 cents	(²)	-	.1	-	.2	-	-	-	-	-
18 cents .....	.9	-	.4	-	2.1	-	1.1	-	4.2	-
20 cents	4.4	8.7	10.1	18.6	-	3.1	3.3	7.7	-	.4
Over 20 and under 25 cents .....	.1	-	-	-	-	-	.2	-	2.0	-
25 cents	1.4	.7	.7	-	.4	-	2.1	.6	5.3	1.0
Over 25 and under 30 cents	(²)	-	-	-	.3	-	-	-	-	-
30 cents .....	.2	1.7	.8	-	-	.5	-	-	-	-
35 cents .....	.6	-	-	-	-	-	1.2	-	-	-
Over 35 cents .....	.6	1.3	-	-	-	-	1.0	-	-	-
Uniform percentage	6.7	2.3	1.0	10.5	-	-	11.2	-	6.2	-
5 percent	5.8	2.1	-	10.5	-	-	10.6	-	-	-
6 percent .....	.5	-	-	10.5	-	-	.4	-	-	-
7 or 7.5 percent .....	.1	-	.2	-	-	-	-	-	6.2	-
10 percent .....	.2	.2	.8	-	-	-	.1	-	-	-
15 percent	(²)	-	-	-	-	-	.1	-	-	-
Other formal paid differential .....	.5	-	-	-	-	-	.3	-	-	6.0
Third shift										
Workers employed on third shift	11.4	5.5	11.0	20.0	6.8	14.2	12.5	6.3	7.3	8.0
Receiving differential	11.4	5.5	11.0	20.0	6.8	14.2	12.5	6.3	7.3	8.0
Uniform cents per hour	7.7	4.5	10.9	13.6	6.8	14.2	7.1	6.3	3.7	2.1
Under 10 cents	(²)	-	-	.3	-	-	-	-	-	-
10 cents .....	.6	-	.8	-	.1	-	.8	.4	-	-
12 cents .....	.6	-	-	.1	-	2.8	.8	-	-	-
13 cents	(²)	-	-	-	.2	-	-	-	-	-
14 cents	(²)	-	(²)	-	-	-	-	-	-	-
15 or 15.5 cents	1.0	-	.5	-	1.5	8.0	.5	1.6	-	.3
16 cents .....	.1	-	.1	-	-	.2	.1	-	-	-
17 cents	(²)	-	(²)	-	(²)	-	-	-	-	-
18 cents .....	.1	-	.4	-	-	-	.1	.3	-	.7
19 cents .....	.2	-	.1	-	-	-	.3	-	-	-
20 cents	1.7	.3	1.5	13.2	3.1	.8	.9	3.1	-	1.0
Over 20 and under 25 cents .....	.4	-	.2	-	1.6	-	.4	-	-	(²)
25 cents	1.2	-	4.2	-	.2	2.3	.9	.8	.7	.1
Over 25 and under 30 cents	(²)	-	-	-	.1	-	-	-	3.0	-
30 cents .....	.9	4.3	3.0	-	-	.1	.9	-	-	(²)

See footnotes at end of table.

Table 32. Shift differential practices—All foundries—Continued

(Percent of production workers in establishments employed on late shifts by amount of pay differential, United States and selected regions, September 1979)

Shift differential	United States ¹	New England	Middle Atlantic	Border States	South-east	South-west	Great Lakes	Middle West	Mountain	Pacific
Uniform cents per hour—Continued										
35 cents	0.4	-	-	-	-	-	0.8	-	-	-
40 cents	(²)	-	0.1	-	-	-	-	-	-	-
45 cents	(²)	-	-	-	-	-	(²)	-	-	-
Over 50 cents .....	.3	-	-	-	-	-	.6	-	-	-
Uniform percentage	3.3	1.0	.1	6.4	-	-	5.5	-	3.6	-
5 percent	(²)	-	-	-	-	-	-	-	3.6	-
6 percent .....	.2	-	-	6.4	-	-	-	-	-	-
10 percent	3.0	1.0	.1	-	-	-	5.5	-	-	-
Other formal paid differential .....	.3	-	-	-	-	-	-	-	-	5.9

¹ Includes data for regions in addition to those shown separately.

² Less than 0.05 percent.

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

Table 33. Paid Holidays—All foundries

(Percent of production workers in establishments with formal provisions for paid holidays, United States and selected regions, September 1979)

Number of paid holidays	United States ¹	New England	Middle Atlantic	Border States	South-east	South-west	Great Lakes	Middle West	Mountain	Pacific
All workers	100	100	100	100	100	100	100	100	100	100
Workers in establishments providing paid holidays	99	100	100	100	92	100	100	100	100	100
5 days	1	-	-	-	-	8	-	-	-	-
6 days	2	-	-	-	8	13	-	4	-	3
6 days plus 1 or 2 half days	(²)	-	-	-	-	-	-	-	10	-
7 days	3	5	-	7	11	8	1	-	20	3
7 days plus 1 or 2 half days	1	-	-	-	-	4	1	-	-	-
8 days	4	5	3	7	5	4	2	13	20	3
9 days	11	9	14	7	16	17	4	4	10	23
9 days plus 1 or 2 half days	(²)	-	-	-	-	-	1	-	-	-
10 days	27	55	31	33	29	17	17	38	20	28
10 days plus 1 or 2 half days	1	-	1	-	-	-	-	-	-	3
11 days	30	27	30	47	18	17	35	29	20	36
11 days plus 1 or 2 half days	(²)	-	-	-	-	-	1	-	-	-
12 days	8	-	14	-	3	8	13	4	-	3
12 days plus 1 or 2 half days	(²)	-	1	-	-	-	-	-	-	-
13 days	4	-	4	-	-	-	9	4	-	-
14 days	2	-	1	-	-	-	6	4	-	-
15 days	1	-	-	-	-	-	2	-	-	-
16 days	(²)	-	-	-	-	-	1	-	-	-
20 days	3	-	-	-	-	-	9	-	-	-
Other	2	-	1	-	11	4	-	-	-	-

¹ Includes data for regions in addition to those shown separately.

² Less than 0.5 percent.

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

Table 34. Paid vacations—All foundries

(Percent of production workers in establishments with formal provisions for paid vacations after selected periods of service, United States and selected regions, September 1979)

Vacation policy	United States ¹	New England	Middle Atlantic	Border States	South-east	South-west	Great Lakes	Middle West	Mountain	Pacific
All workers	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
Length-of-time payment	72	73	78	93	63	83	62	50	70	95
Percentage payment	28	27	20	7	37	17	38	50	30	5
Other	(²)	-	1	-	-	-	-	-	-	-
Amount of vacation pay³										
After 1 year of service:										
1 week	69	77	64	80	84	75	51	75	70	92
Over 1 and under 2 weeks	20	-	24	13	13	21	31	21	20	5
2 weeks	7	23	9	7	-	-	12	-	10	-
Over 2 and under 3 weeks	1	-	-	-	-	-	4	-	-	-
3 weeks or more	1	-	1	-	-	-	2	-	-	-
After 2 years of service:										
1 week	46	59	47	60	58	63	35	58	50	28
Over 1 and under 2 weeks	27	14	26	13	13	21	41	25	20	28
2 weeks	22	27	20	27	24	13	18	13	30	38
Over 2 and under 3 weeks	3	-	4	-	3	-	4	4	-	5
3 weeks or more	1	-	1	-	-	-	2	-	-	-
After 3 years of service:										
1 week	10	-	15	40	21	21	2	4	-	5
Over 1 and under 2 weeks	11	14	14	-	16	8	17	4	-	-
2 weeks	57	86	47	40	58	58	42	71	80	90
Over 2 and under 3 weeks	18	-	19	20	3	4	34	21	20	5
3 weeks	2	-	4	-	-	4	3	-	-	-
Over 3 weeks	1	-	1	-	-	-	2	-	-	-
After 5 years of service:										
1 week	2	-	1	-	5	17	-	-	-	-
Over 1 and under 2 weeks	(²)	-	-	-	-	-	-	4	-	-
2 weeks	62	82	53	73	71	54	50	67	50	92
Over 2 and under 3 weeks	23	5	30	13	21	21	31	25	40	5
3 weeks	9	14	15	13	-	8	12	4	10	3
Over 3 weeks	2	-	1	-	-	-	7	-	-	-
After 10 years of service:										
Under 2 weeks	2	-	1	-	8	13	-	-	-	-
2 weeks	11	23	7	20	13	21	3	17	10	23
Over 2 and under 3 weeks	8	18	5	-	8	8	10	8	-	5
3 weeks	53	55	47	60	61	54	46	54	70	67
Over 3 and under 4 weeks	20	-	26	13	11	4	36	21	10	5
4 weeks	3	5	9	7	-	-	1	-	-	-
Over 4 weeks	3	-	4	-	-	-	5	-	10	-
After 15 years of service:										
Under 2 weeks	1	-	1	-	5	8	-	-	-	-
2 weeks	4	-	1	13	13	21	-	-	-	5
Over 2 and under 3 weeks	1	-	-	-	3	4	2	-	-	-
3 weeks	40	64	27	53	42	46	26	54	40	72
Over 3 and under 4 weeks	21	18	22	20	13	17	29	29	10	10
4 weeks	24	18	31	7	18	4	33	17	40	13
Over 4 and under 5 weeks	5	-	11	-	3	-	8	-	10	-

See footnotes at end of table.

Table 34. Paid vacations—All foundries—Continued

(Percent of production workers in establishments with formal provisions for paid vacations after selected periods of service, United States and selected regions, September 1979)

Vacation policy	United States ¹	New England	Middle Atlantic	Border States	South-east	South-west	Great Lakes	Middle West	Mountain	Pacific
Amount of vacation pay²—Continued										
After 15 years of service:—Continued										
5 weeks or more	3	-	7	7	3	-	2	-	-	-
After 20 years of service:										
Under 3 weeks	5	-	3	13	16	25	-	-	-	5
3 weeks	14	32	4	-	18	33	7	17	10	28
Over 3 and under 4 weeks	4	-	1	-	5	-	3	4	-	15
4 weeks	43	64	39	60	42	38	36	54	60	46
Over 4 and under 5 weeks	14	5	24	13	3	4	20	4	20	3
5 weeks	15	-	18	7	11	-	28	21	10	3
Over 5 and under 6 weeks	2	-	4	-	-	-	4	-	-	-
6 weeks or more	3	-	7	7	3	-	2	-	-	-
After 25 years of service: ⁴										
Under 3 weeks	5	-	3	13	16	25	-	-	-	5
3 weeks	10	27	4	-	18	29	4	13	10	10
Over 3 and under 4 weeks	2	-	-	-	5	4	2	-	-	5
4 weeks	30	50	22	27	18	17	23	33	50	69
Over 4 and under 5 weeks	8	-	15	13	-	13	6	13	10	3
5 weeks	29	18	27	40	29	8	44	38	20	8
Over 5 and under 6 weeks	8	5	14	-	3	4	15	-	10	-
6 weeks	4	-	9	7	8	-	3	4	-	-
Over 6 weeks	3	-	7	-	-	-	4	-	-	-

¹ Includes data for regions in addition to those shown separately.

² Less than 0.5 percent.

³ 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.

⁴ Vacation provisions were virtually the same after longer periods of service.

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

Table 35. Health, insurance and retirement plans—All foundries

(Percent of production workers in establishments with specified health, insurance, and retirement plans,¹ United States and selected regions, September 1979)

Type of plan	United States ²	New England	Middle Atlantic	Border States	South-east	South-west	Great Lakes	Middle West	Mountain	Pacific
All workers	100	100	100	100	100	100	100	100	100	100
Workers in establishments providing:										
Life insurance	98	100	100	100	97	96	98	100	90	97
Noncontributory plans	89	77	100	100	84	75	90	71	60	95
Accidental death and dismemberment insurance	88	100	77	80	82	79	94	100	60	97
Noncontributory plans	79	77	77	80	68	67	86	71	40	95
Sickness and accident insurance or sick leave or both ³	82	91	91	87	76	58	98	88	70	33
Sickness and accident insurance	78	91	84	80	76	54	97	83	50	26
Noncontributory plans	71	68	82	80	74	42	89	58	50	26
Sick leave (full pay, no waiting period)	5	9	12	-	3	-	1	4	-	5
Sick leave (partial pay or waiting period)	4	-	-	7	-	13	2	8	20	8
Long-term disability insurance	15	32	19	13	3	8	22	4	10	5
Noncontributory plans	13	23	16	13	3	4	21	-	10	3
Hospitalization insurance										
Covering employees only	100	100	100	100	100	100	100	100	100	100
Noncontributory plans	88	68	99	100	76	79	91	71	80	95
Covering employees and dependents	92	86	93	87	92	75	95	96	90	97
Noncontributory plans	68	45	84	80	53	25	78	63	30	77
Noncontributory for employees; contributory for dependents	24	41	9	7	39	50	17	33	60	21
Surgical insurance										
Covering employees only	100	100	100	100	100	100	100	100	100	100
Noncontributory plans	88	68	99	100	76	79	91	71	80	95
Covering employees and dependents	92	86	92	87	92	75	95	96	90	97
Noncontributory plans	68	45	82	80	53	25	78	63	30	77
Noncontributory for employees; contributory for dependents	24	41	9	7	39	50	17	33	60	21
Medical insurance										
Covering employees only	100	100	100	100	100	100	99	100	100	100
Noncontributory plans	88	68	99	100	76	79	90	71	80	95
Covering employees and dependents	91	86	91	87	92	75	92	96	90	97
Noncontributory plans	67	45	82	80	53	25	75	63	30	77
Noncontributory for employees; contributory for dependents	24	41	8	7	39	50	17	33	60	21
Major medical insurance										
Covering employees only	93	100	92	100	100	96	83	96	100	100
Noncontributory plans	81	68	91	100	76	79	75	67	80	95
Covering employees and dependents	86	86	85	87	92	75	79	96	90	97
Noncontributory plans	63	45	77	80	53	25	64	63	30	77
Noncontributory for employees; contributory for dependents	23	41	8	7	39	50	15	33	60	21
Dental insurance	32	-	34	13	16	4	48	13	10	59
Retirement plans ⁴	90	91	97	87	82	67	93	92	90	87
Pensions	89	91	96	87	82	67	92	92	90	87

See footnotes at end of table.

Table 35. Health, insurance and retirement plans—All foundries—Continued

(Percent of production workers in establishments with specified health, insurance, and retirement plans,¹ United States and selected regions, September 1979)

Type of plan	United States ²	New England	Middle Atlantic	Border States	South-east	South-west	Great Lakes	Middle West	Mountain	Pacific
Workers in establishments providing:										
Noncontributory plans	78	77	84	73	76	54	87	75	90	62
Severance pay	3	-	11	7	-	-	3	-	-	-

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 plans financed entirely by the employer.

² Includes data for regions in addition to those shown separately.

³ Unduplicated total of workers receiving sickness and accident insurance and sick leave shown separately.

⁴ Unduplicated total of workers covered by pension plans and severance pay shown separately.

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

Table 36. Other selected benefits—All foundries

(Percent of production workers in establishments providing selected benefits,¹ United States and selected regions, September 1979)

Type of benefit	United States ²	New England	Middle Atlantic	Border States	South-east	South-west	Great Lakes	Middle West	Mountain	Pacific
Workers in establishments with provisions for:										
Cost of living adjustments	48	41	55	27	16	13	70	50	40	46
Based on CPI	47	41	54	27	13	13	70	46	40	41
Other basis	1	-	1	-	3	-	-	4	-	5
Technological severance pay	95	100	93	100	100	100	88	100	100	100
Funeral leave pay	80	86	93	87	71	50	94	79	60	41
Jury duty pay	82	86	85	80	84	79	87	96	80	54
Daily reporting pay	80	77	86	80	76	67	87	75	50	74
Call in or callback pay	68	64	69	73	68	63	76	67	40	59
Guaranteed weekly wage or weekly hours	6	-	9	-	-	4	11	-	20	-
Earnings protection plan	9	9	14	13	3	4	13	-	-	3
Supplemental unemployment benefits	16	-	22	-	5	-	32	4	10	5
Vacation bonus plans	18	-	34	13	3	-	19	17	20	26
Based on time off	1	-	1	-	-	-	-	-	-	10
Based on fixed flat sum	6	-	12	-	-	-	9	8	-	3
Based on flat sum that varies with length of vacation	6	-	9	13	-	-	6	8	10	5
Based on percent of vacation pay	(³)	-	-	-	-	-	1	-	-	-
Other	5	-	11	-	3	-	4	-	10	8

¹ For definition of items, see appendix A.

² Includes data for regions in addition to those shown separately.

³ 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 iron and steel castings (industry group 332 as defined in the 1972 edition of the *Standard Industrial Classification Manual* prepared by the U.S. Office of Management and Budget). Separate auxiliary units such as central offices were excluded.

Establishments studied were selected from those employing 50 workers or more at the time of reference of the data used in compiling the universe lists. Table A-1 shows the number of establishments and workers estimated to be within the scope of the survey, as well as the number actually studied by the Bureau.

Products

Classification of establishments by product was based on the principal type of casting manufactured. For example, if 60 percent of the total value of an establishment's production was malleable iron castings, and 40 percent was steel castings, all workers in that establishment were considered as producing malleable iron castings.

Method of study

Data were obtained by personal visits of the Bureau's field staff to a probability-based sample of establishments within the scope of the survey. To obtain appropriate accuracy at minimum cost, a greater proportion of large than of small establishments was studied. All estimates are presented, therefore, as relating to all establishments in the industry, excluding only those below the minimum size at the time of reference of the universe data.

Establishment definition

An establishment is defined for this study as a single physical location where manufacturing operations are performed. An establishment is not necessarily identical with a 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 industry's labor force, rather than as precise measures of employment.

Production workers

The terms "production workers" and "production and related workers," used interchangeably in this bulletin, include working supervisors and all nonsupervisory workers engaged in nonoffice activities. Administrative, executive, professional, and technical personnel, and force-account construction employees, who are used as a separate work force on the firm's own properties, are excluded.

Occupational classification

Occupational classification was based on a uniform set of job descriptions designed to take account of interestablishment and interarea variations in duties within the same job. (See appendix B for these descriptions.) The 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 but were included in the data for all production workers.

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. Non-production bonus payments, such as Christmas or year-end bonuses, were excluded.

Average (mean) hourly rates or earnings for each occupation or category of workers, such as production workers, 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 straight-time salary by normal (or standard) hours to which the salary corresponds.

The *median* designates position; that is, one-half of the employees surveyed received more than this rate and one-half received less. The middle range is defined by two rates of pay such that one-fourth of the em-

Table A-1. Estimated number of establishments and employees within scope of survey and number studied, iron and steel foundries, September 1979

Region ¹ and locality	Number of establishments ²		Workers in establishments		
	Within scope of study	Actually studied	Within scope of study		Actually studied
			Total ³	Production workers	
All iron and steel foundries					
United States ⁴	670	349	217,609	177,371	157,280
New England	31	22	4,577	3,728	3,905
Middle Atlantic	108	74	26,937	21,949	22,176
Border States	19	15	6,853	5,930	5,615
Southeast	75	38	23,461	19,260	17,472
Southwest	46	24	13,266	10,452	10,278
Great Lakes	283	103	118,139	96,422	78,577
Middle West	37	24	8,711	7,152	6,811
Mountain	12	10	2,840	2,335	2,393
Pacific	59	39	12,825	10,143	10,053
Gray iron foundries, except pipe and fittings					
United States ⁵	421	174	112,115	93,068	73,562
New England	19	11	1,988	1,624	1,459
Middle Atlantic	59	34	8,798	7,260	5,895
Pittsburgh ⁶	11	11	1,865	1,576	1,865
Border States	15	11	6,328	5,502	5,090
Southeast	45	14	9,829	8,269	5,040
Great Lakes	202	61	73,921	61,039	49,460
Chicago ⁷	11	9	2,060	1,669	1,945
Middle West	25	13	4,180	3,463	2,346
St. Louis ⁸	10	10	1,698	1,377	1,698
Pacific	23	17	2,938	2,479	2,250
Los Angeles-Long Beach ⁹	10	10	1,256	1,082	1,256
Gray iron pipe and fittings foundries					
United States ⁵	33	27	19,188	15,204	17,409
Middle Atlantic	5	5	1,348	1,063	1,348
Southeast	17	13	10,939	8,799	10,235
Alabama	14	10	9,201	7,344	8,497
Birmingham ¹⁰	6	5	6,993	5,528	6,562
Malleable iron foundries					
United States ⁵	37	24	16,328	13,145	12,358
Middle Atlantic	9	7	2,933	2,519	2,515
Great Lakes	21	11	11,154	8,794	7,745
Steel foundries					
United States ⁵	175	122	65,758	52,550	52,375
New England	8	8	1,931	1,530	1,931
Middle Atlantic	34	27	13,604	10,943	12,164
Pittsburgh ⁶	8	7	2,250	1,848	1,821
Southeast	12	10	2,503	2,031	2,007
Southwest	14	12	4,768	3,694	4,245
Great Lakes	55	29	27,786	22,375	19,394
Milwaukee ⁹	9	7	3,427	2,691	2,745
Middle West	11	10	4,201	3,445	4,135
Pacific	32	18	9,113	7,032	7,029
Los Angeles-Long Beach ⁹	9	6	2,292	1,967	1,903

¹ The regions used in this study include *New England*—Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, and Vermont; *Middle Atlantic*—New Jersey, New York, and Pennsylvania; *Southeast*—Alabama, Florida, Georgia, Mississippi, North Carolina, South Carolina, and Tennessee; *Southwest*—Arkansas, Louisiana, New Mexico, Oklahoma, and Texas; *Great Lakes*—Illinois, Indiana, Michigan, Minnesota, Ohio, and Wisconsin; *Middle West*—Iowa, Kansas, Missouri, North Dakota, and South Dakota; *Mountain*—Arizona, Colorado, Idaho, Montana, New Mexico, Utah, and Wyoming; and *Pacific*—California, Nevada, Oregon, and Washington.

² Includes only those establishments with 50 workers or more at the time of reference of the universe data.

³ Includes executive, professional, office, and other workers in addition to the production worker category shown separately.

⁴ Alaska and Hawaii were not included in the study.

⁵ Includes data for regions in addition to those shown separately.

⁶ The Pittsburgh Standard Metropolitan Statistical Area consists of Allegheny, Beaver, Washington, and Westmoreland Counties.

⁷ The Chicago Standard Metropolitan Statistical Area consists of Cook, DuPage, Kane, Lake, McHenry, and Will Counties.

⁸ The St. Louis Standard Metropolitan Statistical Area consists of St. Louis City; Franklin, Jefferson, St. Charles, and St. Louis Counties, Mo.; and Madison and St. Clair Counties, Ill.

⁹ The Los Angeles-Long Beach Standard Metropolitan Area consists of Los Angeles County.

¹⁰ The Birmingham Standard Metropolitan Statistical Area consists of Jefferson, Shelby, and Walker Counties.

employees earned less than the lower of these rates and one-fourth earned more than the higher rate.

Size of community

Tabulations by size of community pertain to metropolitan and nonmetropolitan areas. The term "metropolitan areas," as used in this bulletin, refers to the Standard Metropolitan Statistical Areas as defined by the U.S. Office of Management and Budget through February 1974. Except in New England, a Standard Metropolitan Statistical Area is defined as a county or group of contiguous counties which contains at least one city of 50,000 inhabitants or more. Counties contiguous to the one containing such a city are included in a Standard Metropolitan Statistical Area if, according to certain criteria, they are essentially metropolitan in character and are socially and economically integrated with the central city. In New England, where the city and town are administratively more important than the county, they are the units used in defining Standard Metropolitan Statistical Areas.

Labor-management agreements

Separate wage data are presented, where possible, for establishments that had (1) a majority of the production workers covered by labor-management contracts, and (2) none or a minority of the production workers covered by labor-management contracts.

Type of foundry

Commercial foundries are those producing castings for sale to other firms on a job or order basis. Captive foundries are those primarily producing castings for incorporation into the final products of a parent company.

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 piecework or bonus plans. Piecework is work for which a predetermined rate is paid for each unit of output. Production bonuses are for production in excess of a quota or for completion of a task in less than standard time.

"Stint work" or "task work" is a method of wage payment which provides a fixed daily rate for a predetermined amount of work, regardless of the time required to complete the job. Stint workers were classified as time workers in the earnings tabulations by method of wage payment; their hourly earnings were calculated by dividing their daily rates by daily hours scheduled for the task, rather than actual hours worked.

Scheduled weekly hours

Data on weekly hours refer to the predominant work schedule for full-time production 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.

Establishment practices and supplementary wage provisions

Supplementary benefits in an establishment were considered applicable to all production 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 summary of vacation plans is limited to formal arrangements and excludes 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, 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

severance plans for which the employer pays all or a part of the cost, excluding programs required by law such as workers' compensation and social security. Among plans included are those underwritten by a commercial insurance company and those paid directly by the employer from his current operating funds or from a fund set aside for this purpose.

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

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

Long-term disability insurance plans provide payments to totally disabled employees upon the expiration of sick leave, sickness and accident insurance, or both, or after a specified period of disability (typically 6 months). Payments are made until the end of disability, a maximum age, or eligibility for retirement benefits. Payments may be full or partial, but are almost always reduced by social security, workers' compensation, and private pension benefits payable to the disabled employee.

Medical insurance refers to plans providing for complete or partial payment of doctors' fees. Such 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 or catastrophe 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.

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 pay (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

¹The temporary disability laws in California and Rhode Island do not require employer contributions.

were considered as having both retirement pensions and retirement severance plans; however, establishments having optional plans providing employees a choice of either retirement severance payments or pensions were considered as having only retirement pension benefits.

Paid funeral and jury-duty leave. Data for paid funeral and jury-duty leave relate to formal plans which provide at least partial payment for time lost as a result of attending funerals of specified family members or serving as a juror.

Technological severance pay. Data relate to formal plans providing for payments to employees permanently separated from the company because of a technological change or plant closing.

Cost-of-living adjustments. Provisions for cost-of-living adjustments relate to formal plans by which wage rates are adjusted periodically in keeping with changes in the BLS Consumer Price Index or some other measure.

Supplemental unemployment benefits. Data relate to formal plans designed to supplement benefits paid under State unemployment insurance systems.

Earnings protection plans. Data relate to plans which protect the level of earnings for workers assigned to lower paying jobs due to technological changes. Typical plans increase average earnings in a quarter to a specified percentage of a worker's average earnings during a base period preceding each quarter.

Guaranteed weekly wage or weekly hours. Data relate to formal plans which guarantee an established weekly wage or a specified number of hours per week to an employee who is called to work on the first day of the workweek.

Call-in or callback pay. Data relate to plans which guarantee an amount to an employee recalled to work after completing a regular work shift.

Daily reporting pay. Data relate to formal plans which guarantee a daily minimum wage to an employee who reports to work as scheduled but finds no work available or less work than can be done in a guaranteed period (e.g., 4 hours).

Dental insurance. Data relate to formal plans which cover normal dental services such as fillings, extractions, and X-rays. Excluded were those health insurance plans which provide benefits for certain kinds of oral surgery as a result of an accident.

Vacation bonuses. Data relate to formal plans that grant "bonuses" or extra pay in addition to regular vacation pay. Excluded were plans that provide only seasonal bonuses with no bonus to workers who take time off during popular periods (e.g., summer).

Appendix B. Occupational Descriptions

The primary purpose of preparing job descriptions for the Bureau's wage surveys is to assist its field representatives in classifying into appropriate occupations workers who are employed under a variety of payroll titles and different work arrangements from establishment to establishment and area to area. This classification permits the grouping of occupational wage rates representing comparable job content. Because of this emphasis on interestablishment 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. Unless otherwise indicated, these job descriptions exclude working supervisors, apprentices, learners, beginners, trainees, and handicapped, part-time, temporary, and probationary workers.

Arc-air scarfer

Uses electric arc-air equipment to cut, trim, or scarf and to remove excess material (i.e., gates, riser pads, fins, and sand defects) from casting. Work involves *most of the following*: Positioning of castings by hand or mechanical means such as hoist; adjusting machine for work by checking amperage, voltage, and electrodes; setting jet of gas to blow away molten metal; and removing excess material as required by cutting off chips and spurs and by burning out cracks and holes. May chip using an airhammer and chisel.

Air-set operator

(Air-bake operator, no-bake operator)

Makes air-set sand molds and cores by using air-set sand blenders. Work involves *most of the following*: Preparing for work by obtaining necessary equipment, checking catalyst and blender tanks, checking calibration of machine, and cleaning machine; receiving setup patterns and flasks; checking pattern for proper location of molding material such as gagers, heads, chills, and tittle; using airhose and nozzles to blow off pattern before sand is loaded in flask; and facing and/or making molds and cores with air-set sand. May also attach and remove vibrator from flask, help with setup of pattern, spread sand over pattern, and set and hand pack sand around pouring gate.

Carpenter, maintenance

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

Centrifugal-casting-machine operator, pipe

Casts pipe by operating a centrifugal casting machine. For wage study purposes, workers are to be classified according to the type of molds used as follows:

Metals molds—operates a machine in which pipe is cast centrifugally in water-cooled metal molds that are rotated at comparatively high speeds. Starts machine rotating at specified speed and actuates the controlling mechanism which tilts the casting ladle at a uniform rate to maintain a constant uniform pouring of metal into the mold. The iron flows tangentially onto the surface of the mold, where it is held in place by centrifugal force and forms a homogeneous pipe with a perfectly cylindrical bore. Observes and controls pouring rate of casting ladle, rotating speed, and amount of water supplied.

Sand-lined molds—operates a machine in which pipe is cast centrifugally in sand-lined molds. Directs placement of mold assembly in the casting machine which rotates the flask about the horizontal axis. Starts machine rotating at specified speed and actuates the controlling mechanism which causes the pouring ladle to empty itself into the mold through a trough extending into one end of the mold. Centrifugal force holds the liquid metal on the wall of the sand mold, forming a perfectly cylindrical bore, and spinning is continued until the metal has solidified. Observes and controls proper spinning speed and pouring rate.

Charging machine operator

Loads metal into a furnace or cupola with any type of traveling charging machine. Starts loaded machine and manipulates levers to push the charging box through the open door to dump or charge the metal into the furnace or cupola.

Chipper and grinder

(Airhammer man; bench grinder; chipper; disc grinder; face-grinder operator; portable-grinder operator; power-chisel operator; shaft grinder; snagger; stand grinder; swing-frame grinder)

Operates one or more types of chipping or grinding equipment in removing undesirable projections or surplus metal (fins, burrs, gates, risers, weld seams) from sand or die-castings, forgings, or welded units. The more common types of equipment employed for such operations include pneumatic chisels, portable grinding tools, stand grinders, and swing-frame grinders. A variety of handtools including hammers, cold chisels, files, and saws may also be utilized by the operator in his work.

For wage study purposes, workers are classified according to whether they specialize in either chipping or grinding or perform both operations as follows:

Chipper

Grinder

Chipper and grinder

Core assembler and finisher

(Core paster)

Pastes or sticks together sections of baked sand cores to form completed cores which are used in molds to produce holes or hollows in castings. Fills in any cracks or seams on core with a paste of silica powder and water. Brushes a graphite facing on the surface of the core.

Coremaker, hand

Shapes by hand (on bench or floor) varying types of sand cores placed in molds to form hollows and holes in metal castings. Work requires *most of the following*: Selecting appropriate core boxes and work sequences; cleaning core boxes with compressed air or hand bellows, and dusting parting sand over inside of core box to facilitate removal of finished core; packing and ramming core sand solidly into box, using shovels, hands, and tamping tools; selecting and setting vent wires and reinforcing wire into cores; determining appropriate sand blends and moisture content of sand required for a particular core; removing core box from core and repairing damage to impressions; baking cores to harden them; and assembling cores of more than one section. *Includes workers who specialized in making small- and*

medium-size cores on the bench, large cores or core sections on the foundry floor or in a pit, as well as those who perform both types of work.

For wage study purposes, workers are classified as follows:

Coremaker, hand, bench

Coremaker, hand, floor

Coremaker, hand, bench, and floor

Coremaker, machine

Makes sand cores used in molds to produce holes or hollows in castings. Workers are to be classified according to the type of core-making machine as follows:

Core-blowing machine—places core box in machine. Starts machine and pulls lever or depresses pedal causing machine to blow and compact sand in core box; removes core and places it on a plate to be removed to oven for baking.

Turn-over-draw machine—selects appropriate core box and sets it up on machine table; fills core box with sand and determines appropriate sand blends and moisture content of sand required for a particular core; operates machine by opening compressed-air valve, causing the table to rise and fall repeatedly, thus compressing the sand in the core box; selects and inserts appropriate reinforcing wires in sand; operates lever or handle to cause table to roll over and deposit core box upside down on another table; opens valve to jolt box and loosen core; pushes table down, causing core to be stripped from box; and smooths core and places it on plate to be removed to core oven for baking.

Cupola tender

Operates a cupola furnace used in a foundry to melt pig iron to produce a molten metal that may be poured into molds in order to form castings. Supervises the charging of the furnace with pig iron, scrap, coke, and flux in their proper proportions. Kindles the fire and starts the blower supplying an airblast. Sets quantity of metal melted as instructed. May open or direct the opening or plugging of a taphole to start or stop the flow of molten metal into a receiving ladle. May also patch furnace and ladle lining with refractory clay.

Furnace tender, electric

(Furnace operator; electric furnace operator)

Is responsible for the firing and charging of an electric furnace in which various metals or alloys are melted to be used in making castings. Work involves *most*

of the following: Regulating the temperature of the metal; directing and assisting in charging the furnace with metal and in removing the molten metal when at proper pouring temperature; and observing for proper operation of furnace. May also perform other duties at or near the furnace and direct the activities of other members of the furnace crew. This classification excludes melters who have supervisory duties.

Furnace tender's helper

(Furnace operator helper; electric furnace helper)

Assists the furnace tender in carrying out responsibilities for the proper firing and charging of an electric furnace in which various metals, or alloys, are melted to be used in making castings. Assists in regulating the temperature of the furnace, in directing the charge of the furnace, and the removal of the molten metal when at proper pouring temperature; relieves the furnace tender as necessary. Excludes helpers who perform miscellaneous heavy and unskilled work at or around the furnace.

Helper, trades, maintenance

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

Inspector

Inspects parts, products, and/or processes. Performs such operations as examining parts or products for flaws and defects, checking their dimensions and appearance to determine whether they meet the required standards and specifications. Testers who use electronic and/or mechanical equipment (e.g., X-ray testers, pressure testers, sound testers) to test castings for defects are excluded.

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 he is assigned, including the use of a variety of precision measuring instruments; interpreting drawings and specifications in inspection work on units composed of a large number of component parts; examining a va-

riety of products or processing operations; determining causes of flaws in products and/or processes and suggesting necessary changes to correct work methods; and devising inspection procedures for new products.

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

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

Laborer, general foundry

Performs a variety of unskilled tasks involved in production operations, such as handling sand, castings, scrap, and oil; cleaning tanks, floors, and around machines; and removing debris. May handle patterns, cores, molds, etc., and straighten rods, wires, pipes, etc. Excludes workers performing the duties of material handling laborers, as well as those employed as helpers, who are learning skilled jobs such as molders and coremakers.

Laborer, material handling

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

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

Excludes Foundry laborer (general helpers) assisting in the production operations, such as shifter in floor-mold department and core-transfer man in core-making department.

Mechanic, general

Performs the work of two or more maintenance trades rather than specializing in only one trade or one type of maintenance work. In general, the work of a general mechanic requires rounded training and experience

usually acquired through a formal apprenticeship or equivalent training and experience.

Includes workers who regularly perform two or more types of skilled maintenance work within a section or department of a large establishment, such as welding, machining, machine and equipment repairing, and carpentry. May also do some pipefitting and millwrighting. Also includes workers that maintain and repair machines, mechanical and electrical equipment, and/or the structure of a small establishment where specialization is impractical. Does not include workers who only make minor repairs or adjustments.

Mechanic, maintenance

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

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 machinist's handtools and precision measuring instruments; setting up and operating standard machine tools; shaping of metal parts to close tolerances; making standard shop computations relating to dimensions of work, tooling, feeds, and speeds of machining; knowledge of the working properties of the common metals; selecting standard materials, parts, and equipment required for work; and fitting and assembling parts into mechanical equipment. In general, the machinist's work normally requires a rounded training in machine shop practice usually associated with a formal apprenticeship or equivalent training and experience.

Molder, floor

Shapes large molds or mold sections by hand on the foundry floor or in a pit by ramming or packing sand around patterns placed in flasks. Work involves *most of*

the following: Selecting and assembling appropriate flasks and patterns and positioning patterns in flasks for a variety of molds; determining appropriate sand blends and moisture content of sand required for different molds; packing and ramming sand or loam around patterns; drawing patterns and smoothing molds; selecting and setting in position appropriate cores; determining appropriate gating, venting, reinforcing, and facing required for particular mold; assembling mold sections to form complete molds, using such molder's handtools as riddles, rammers, trowels, slicks, lifters, bellows, and mallets in compacting and smoothing of molds; directing molten metal into molds; and operating a crane in lifting and moving of molds or mold sections.

Molder, hand, bench

Shapes small- and medium-sized molds (or component sections of a ramming mold that are assembled into complete units) by hand on a bench, by ramming and packing sand around patterns placed in flasks. Work involves *most of the following*: Selecting and assembling appropriate flasks and patterns for varying molds; determining appropriate sand blends and moisture content of sand required for different types of molds; packing and ramming green sand or dry sand around patterns; drawing patterns and smoothing molds; selecting and setting cores in position; determining the types of gating necessary for the molds; finishing molds by performing such operations as facing, venting, and reinforcing; assembling mold sections to form complete molds; and selecting and using such molder's handtools as riddles, trowels, slicks, lifters, bellows, and mallets in packing and smoothing of molds or mold sections.

Molder, machine, automatic

(Disamatic operator, Hunter operator, Herman operator)

Sets up, adjusts, and operates an automatic machine to produce a wide variety of molds. Work involves *most of the following*: Setting mold depth in relation to pattern design and adjusting for sand conditions; installing core-setting frame and/or core jig; adjusting blow and squeeze pressure; synchronizing the speed of the machine according to pouring cycle or core setting time; operating controls to start, stop, and hold machine in the cycle desired; and maintaining records of machine operation.

Molder, machine, semiautomatic

Shapes molds or mold sections on any one or a combination of several types of molding machines, such as roll-over, jolt roll-over, jarring, and squeeze machines. Work involves *most of the following*: Selecting and assembling appropriate flasks and patterns and positioning patterns in flasks; filling flasks with sand and ram-

ming of sand around pattern with ramming tool or by mechanical means; determining appropriate sand blends and moisture content of sand required for particular molds; preparing molds for drawing of patterns, and repairing damage to mold impressions in sand; selecting and setting in position appropriate cores; determining appropriate venting, gating, reinforcing, and facing required; assembling upper and lower sections of molds; and guiding or assisting in the pouring of the mold. Excludes operators of Disamatic and Hunter type automatic molding machines.

For wage study purposes, workers are classified by type of machine as follows:

Jarring

Roll-over

Squeeze

Other (single) machine

Combination (operates more than one type of machine)

Molder, pipe (drop-pattern machine)

Shapes molds for cast iron pipe (rarely exceeding 5 feet in length) on a drop-pattern machine. Work involves *most of the following*: Forming cope and drag sections of molds by placing appropriate flasks on drop-pattern machine, filling flask with sand, ramming sand around pattern with ramming tool, and tripping lever on machine causing pattern to drop away from compacted sand; removing filled flasks from machine; placing drag section of mold on floor; setting core in drag mold; placing cope section on top of drag and clamping cope to drag; and pouring molten metal into gates (holes) in cope section of mold. May also make cores of green sand. Workers in this occupation usually work in pairs.

Patternmaker, metal

Performs machine operations on rough metal castings or pieces of metal stock to make metal patterns, core boxes, or match plates. Work involves *most of the following*: Planning and laying out of work from blueprints, drawings, or models; making standard shop computations relating to dimensions of work; using a variety of machines and handtools; and performing hand finishing operations on pattern by filing, filling in low spots with solder, and sometimes painting with aluminum paint.

Patternmaker, wood

Builds wooden patterns, core boxes, or match plates. Work involves *most of the following*: Planning and laying out of work from blueprints, drawings, or models;

making standard shop computations relating to dimensions of work; using a variety of patternmakers' handtools such as saws, planes, chisels, gauges, and mallets; operating various woodworking machines such as bandsaws, circular saws, borers, routers, lathes, planers, drill presses, sanders, and shapers; checking work with calipers, rules, protractors, squares, straight edges, and other measuring instruments; assembling patterns and sections of patterns by gluing, nailing, screwing, and doweling; working to required tolerances and allowances; selecting the materials for the construction of a particular pattern. May also make sweeps (templates) for making molds by the sweep-molding method. In general, the work of the patternmaker requires a rounded training and experience usually acquired through a formal apprenticeship or equivalent training and experience. Workers exclusively engaged in repairing wooden patterns (wooden pattern repairer) are excluded from this classification.

Pourer, metal

Pours molten metal into molds. Work involves *any combination of the following*: Controlling the pouring of molten metal at a rate compatible with the size and structure of the casting; skimming slag from surface of molten metal; transporting metal from furnace to molds; pouring metal into molds and dumping slag from ladle after pouring operation.

Repairer, wooden patterns

Repairs broken or damaged wooden patterns and corrects patterns to compensate for defects in castings. *Work involves*: Building up or repairing patterns by gluing, screwing, or nailing additional pieces of wood to some surfaces; rigging wooden patterns by changing wooden gates and risers on patterns; and dressing down surfaces with scrapers and other handtools. Qualified wooden patternmakers, who are also engaged in repairing wooden patterns, are classified as patternmaker, wood.

Sand mixer

Mixes sand, binders, and water by hand or machine to prepare sand for molders or coremakers. Work involves *any combination of the following*: Transporting sand and binders from storage to mixing area; removing scraps of metal from used molding sand; mixing ingredients to instructions by hand or machine; and testing sample of prepared sand, adding ingredients as necessary to obtain proper mixture.

Sand- or shot-blast operator

Operates sand- or shot-blast equipment to impart specified finish to castings or to clean dirt, scale, and/or other materials from castings. Work involves *most of the following*: Positioning casting and starting blast of abrasive; adjusting mixture of air and abrasive; and turn-

ing casting to blast all surfaces. May service sand- or shot-blast tanks.

Sand-slinger operator

Operates a sand-slinging machine which fills mold flasks with compacted sand to form molds. Moves the head of the sand-slinger impeller back and forth over flasks as sand is thrown at high velocity into flask. May oil and clean machine.

Shakeout worker

Removes castings from molds by hand or mechanical means in which they were cast. Work involves *one or more of the following*: Releasing clamps holding sections of flask together, separating the sections and breaking the sand mold from the castings, using a steel bar or sledge hammer, or removing castings from the sand with the aid of metal hooks; operating a vibrating shakeout screen in removing sand and castings from flasks; using a pneumatic shaker which, when attached to the flask, jars or jolts it until the mold has crumbled; using a vibratory airhammer to remove the sand and castings; shaking loosely adhering sand from castings; and shoveling sand shaken from molds into a pile.

Shell-mold and/or shell-core machine operators

Operates machine which makes shell molds or shell cores by baking a resin and sand mixture on a heated metal pattern. Work involves *some combination of the following*: Starting and stopping machine; installing pattern in machine; preparing or supervising the preparation of the mixture of sand and resin; determining proper curing temperature and timing; removing cope and drag; and pasting together to form mold.

Trucker, power

Operates a manually controlled gasoline- or electric-powered truck or tractor to transport goods and mate-

rials of all kinds about a warehouse, manufacturing plant, or other establishment.

For wage study purposes, workers are classified by types of truck as follows:

Forklift

Other than forklift

Tumbler operator

Operates tumbler to impart specified finish to castings or to clean dirt, scale, or other materials from castings. Work involves *most of the following*: Placing castings in tumbler; loading tumbler with picks, pebbles, sand, sawdust, or other materials; adjusting tumbler for prescribed operating time; and unloading tumbler. May deliver finished castings or parts to storage or shipping areas.

Welder, hand

(Acetylene welder; gas welder; arc welder; electric welder)

Uses oxyacetylene torch or arc welding apparatus to fuse or weld individually cast pieces into completed castings and to repair defective or cracked castings. May cut off excess materials from castings. Must have knowledge of correct handling and adjustment of welding apparatus and the use of welding materials so that welded castings can pass prescribed test.

For wage survey purposes, workers are classified as follows:

Welder, hand (assembling)

Welder, hand (repairing)

Welder, hand (combination)

Industry Wage Studies

The most recent reports providing occupational wage data for industries included in the Bureau's program of industry wage surveys 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. Bulletins that are out of stock are available for reference at leading public, college, or university libraries, or at the Bureau's Washington or regional offices.

Manufacturing

Basic Iron and Steel, 1978-79. BLS Bulletin 2064
Candy and Other Confectionery Products, 1975. BLS Bulletin 1939
Cigar Manufacturing, 1972. BLS Bulletin 1796
Cigarette Manufacturing, 1976. BLS Bulletin 2077
Corrugated and Solid Fiber Boxes, 1976. BLS Bulletin 1921
Drug Manufacturing, 1978. BLS Bulletin 2077
Fabricated Structural Steel, 1974. BLS Bulletin 1935
Fertilizer Manufacturing, 1971. BLS Bulletin 1763
Flour and Other Grain Mill Products, 1977. BLS Bulletin 2026
Fluid Milk Industry, 1973. BLS Bulletin 1871
Footwear, 1975. BLS Bulletin 1946
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Industrial Chemicals, 1976. BLS Bulletin 1978
Iron and Steel Foundries, 1979. BLS Bulletin 2085
Leather Tanning and Finishing, 1973. BLS Bulletin 1835
Machinery Manufacturing, 1978. BLS Bulletin 2022
Meat Products, 1979. BLS Bulletin 2082
Men's Shirts and Separate Trousers, 1978. BLS Bulletin 2035
Men's and Boys' Suits and Coats, April 1979. BLS Bulletin 2073
Millwork, 1979. BLS Bulletin 2083
Miscellaneous Plastics Products, 1974. BLS Bulletin 1914
Motor Vehicles and Parts, 1973-74. BLS Bulletin 1912
Nonferrous Foundries, 1975. BLS Bulletin 1952
Paints and Varnishes, 1976. BLS Bulletin 1973
Paperboard Containers and Boxes, 1970. BLS Bulletin 1719'

Petroleum Refining, 1976. BLS Bulletin 1948
Pressed or Blown Glass and Glassware, 1975. BLS Bulletin 1923
Pulp, Paper, and Paperboard Mills, 1977. BLS Bulletin 2008
Semiconductors, 1977. BLS Bulletin 2021
Shipbuilding and Repairing, 1976. BLS Bulletin 1968
Southern Sawmills and Planing Mills, 1969. BLS Bulletin 1694'
Structural Clay Products, 1975. BLS Bulletin 1942
Synthetic Fibers, 1976. BLS Bulletin 1975
Textile Dyeing and Finishing, 1976. BLS Bulletin 1967
Textiles, 1975. BLS Bulletin 1945
Wages and Demographic Characteristics in Work Clothing Manufacturing, 1972. BLS Bulletin 1858
West Coast Sawmilling, 1969. BLS Bulletin 1704'
Women's and Misses' Coats and Suits, 1970. BLS Bulletin 1728'
Women's and Misses' Dresses, 1977. BLS Bulletin 2007
Wood Household Furniture, 1979. BLS Bulletin 2087

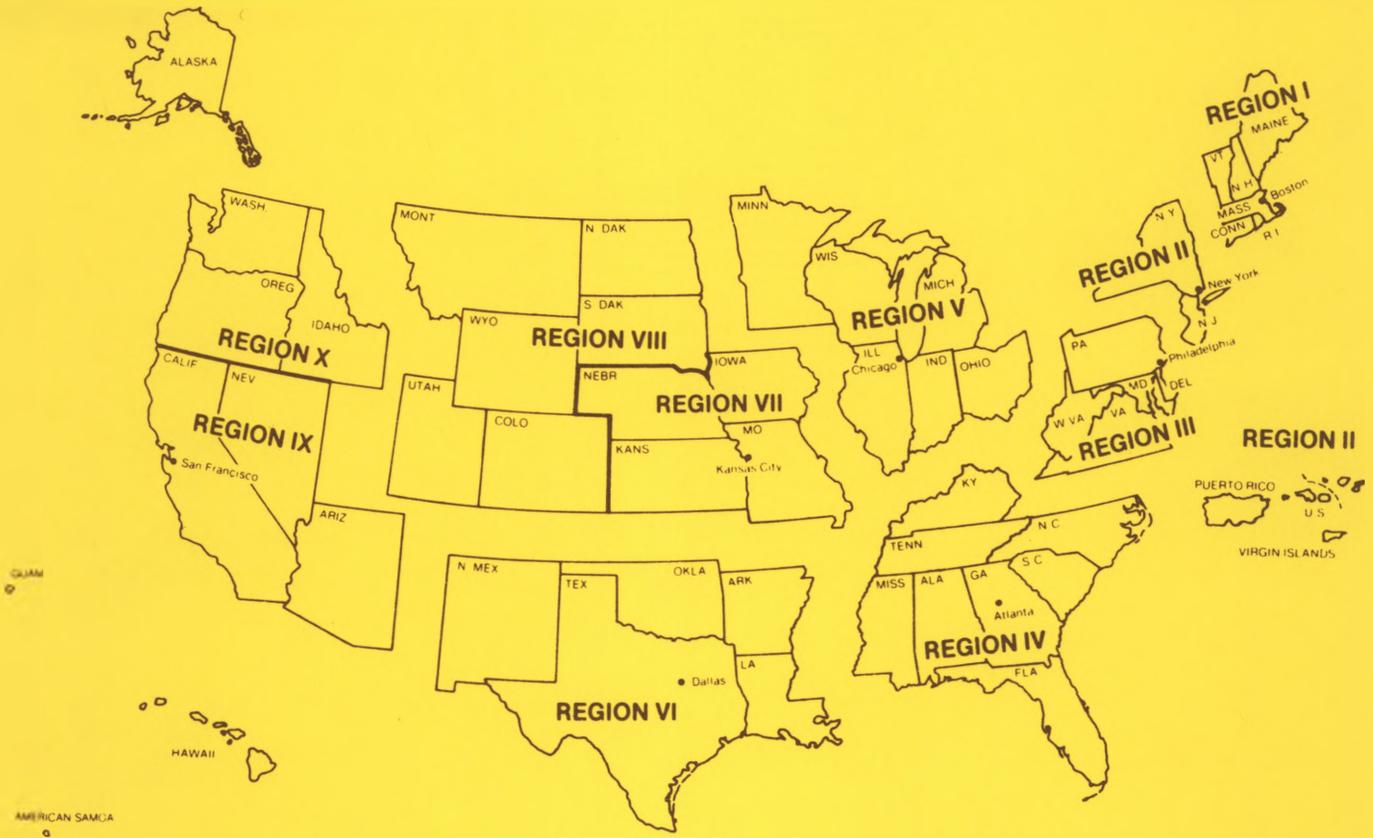
Nonmanufacturing

Appliance Repair Shops, 1978. BLS Bulletin 2067
Auto Dealer Repair Shops, 1978. BLS Bulletin 2060
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Bituminous Coal Mining, 1976. BLS Bulletin 1999
Communications, 1978. BLS Bulletin 2071
Computer and Data Processing Services, 1978. BLS Bulletin 2028
Contract Cleaning Services, 1977. BLS Bulletin 2009
Contract Construction, 1973. BLS Bulletin 1911
Department Stores, 1977. BLS Bulletin 2006
Educational Institutions: Nonteaching Employees, 1968-69. BLS Bulletin 1671'
Electric and Gas Utilities, 1978. BLS Bulletin 2040
Hospitals and Nursing Homes, 1978. BLS Bulletin 2069
Hotels and Motels, 1978. BLS Bulletin 2055
Laundry and Cleaning Services, 1968. BLS Bulletin 1645'
Metal Mining, 1977. BLS Bulletin 2017
Motion Picture Theatres, 1966. BLS Bulletin 1542
Oil and Gas Extraction, 1977. BLS Bulletin 2014
Scheduled Airlines, 1975. BLS Bulletin 1951
Wages and Tips in Restaurants and Hotels, 1970. BLS Bulletin 1712'

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