

**Union Wages and Hours:  
Building Trades  
July 1, 1949**

**Bulletin No. 976**  
**UNITED STATES DEPARTMENT OF LABOR**  
MAURICE J. TOBIN, *Secretary*  
BUREAU OF LABOR STATISTICS  
EWAN CLAGUE, *Commissioner*



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## Letter of Transmittal

UNITED STATES DEPARTMENT OF LABOR,  
BUREAU OF LABOR STATISTICS,  
*Washington, D. C., March 21, 1950.*

The SECRETARY OF LABOR:

I have the honor to transmit herewith the annual report on union wages and hours in the building trades, as of July 1, 1949.

This report was prepared in the Bureau's Division of Wage Statistics by Charles Rubenstein.

EWAN CLAGUE, *Commissioner.*

HON. MAURICE J. TOBIN,  
*Secretary of Labor.*

## Contents

	Page
Summary.....	1
Scope and method of study.....	1
Trends in union wage rates.....	1
Hourly wage scales, July 1, 1949.....	2
City and regional rate variations.....	3
Standard workweek.....	4
Union scales by city and trade.....	14
TABLES:	
1. Indexes of union hourly wage rates in the building trades, 1907-49.....	3
2. Indexes of union hourly wage rates in each building trade, 1907-49.....	5
3. Increases in rates in the building trades, July 1, 1948, to July 1, 1949, and average union hourly wage rates, July 1, 1949.....	6
4. Percent increases in union wage rates and percent of building trade workers affected, July 1, 1948, to July 1, 1949.....	7
5. Cents-per-hour increases in union wage rates and percent of building trade workers affected, July 1, 1948, to July 1, 1949.....	7
6. Increases in union wage rates for major building trade groups, in 77 cities, July 1, 1948, to July 1, 1949.....	8
7. Distribution of union members in the building trades, by hourly wage rates, July 1, 1949.....	9
8. Average union hourly wage rates in the building trades, by city and population group, July 1, 1949.....	10
9. Average union wage rates in the building trades, by region, July 1, 1949.....	11
10. Indexes of union weekly hours in the building trades, 1907-49.....	11
11. Indexes of union weekly hours in each building trade, 1907-49.....	12
12. Distribution of union members in the building trades, by straight-time weekly hours, July 1, 1949.....	13
13. Percent of union members affected by changes in straight-time weekly hours, by trade, July 1, 1949, compared with July 1, 1948.....	14
14. Union scales of wages and hours for building trades in 77 cities, July 1, 1948, and July 1, 1949.....	14





# Union Wages and Hours in the Building Trades, 1949

## Summary

Hourly union wage scales of building-trades workers rose 4 percent between July 1, 1948, and July 1, 1949—the smallest gain for any year since the Second World War ended. During these 12 months, many agreements were extended for another year without any change in wages. Approximately 55 percent of the union workers received wage increases, in contrast to about 95 percent in each of the first 3 years following the end of the war. On July 1, 1949, union wage scales for all building-trades workers averaged \$2.18 an hour, for journeymen \$2.34, and for helpers and laborers \$1.55.

Straight-time weekly hours averaging 39.2 for all building trades, showed no change during the year. The 40-hour standard week was still the most prevalent in the industry and affected 9 of every 10 union building-trades workers.

## Scope and Method of Study

The information presented in this report is based on union scales in effect on July 1, 1949, covering 632,397 journeymen and 157,629 helpers and laborers in 77 cities, having populations ranging from 40,000 to more than 1,000,000. Data were obtained primarily from local union officials by mail questionnaire; for a few locals in some cities, they were secured by personal visit of Bureau representatives.

Union scales are defined as the minimum wage rates or maximum schedules of hours agreed upon through collective bargaining between trade-unions and employers. Rates in excess of the negotiated minimum paid for special qualifications or other reasons are excluded.

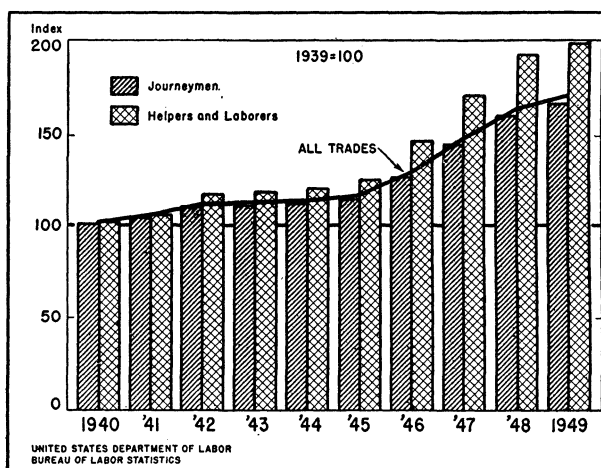
Average hourly scales presented in this report are designed to show current levels and are based on all wage scales reported in effect on July 1, 1949; individual union rates were weighted by the number of union members working at each rate. However, average cents-per-hour and percentage

increases from July 1, 1948, to July 1, 1949, are based on comparable scales for both years. Data for 1948 and 1949 were weighted by membership reported in 1949.

## Trends in Union Wage Rates

Between June 1, 1939, and July 1, 1949, indexes of hourly wage rates for all building trades rose 70.3 percent, for journeymen 66.1 percent, and for helpers and laborers 99.8 percent (table 1).<sup>1</sup> During the same period, the Bureau's consumers' price index advanced 70.9 percent. Although the rise in average rates for journeymen (who constitute four-fifths of the workers studied) was somewhat less than the rise in consumer prices, increases to helpers and laborers substantially exceeded the advance in prices.

Trend of Union Hourly Wage Scales in Building Trades



For the group of cities surveyed in 1949, advances during 1948 were 9 cents an hour for all building-trades workers, 10 cents for journeymen,

<sup>1</sup> In the index series, year-to-year changes in union scales are based on comparable quotations for each trade weighted by the membership for the current year.

and 6 cents for helpers and laborers. (See table 3.) Gains during the year approximated 4 percent in each instance. Slightly more than half of all journeymen and helpers and laborers received increases in their wage scales. Only 5 of the 24 journeyman trades showed advances of 15 cents or more an hour; that is, asbestos workers (16 cents), electricians (20 cents), elevator constructors (15 cents), plasterers (23 cents), and stonemasons (15 cents). Average increases in 9 helper and laborer classifications ranged from 4 to 10 cents an hour.

Upward adjustments in union wage scales between July 1, 1948, and July 1, 1949, were received by 75 percent or more of the workers in only 5 of the 24 journeyman trades and in 2 of the 9 helper and laborer classifications. (See table 4.) During the previous year (July 1, 1947, to July 1, 1948), however, rate advances were received by at least 95 percent of the workers in a large majority of trades, and in only 2 trades were wage increases applicable to fewer than 75 percent of the workers.

Of the journeymen receiving increases from mid-1948 to mid-1949 about two-thirds obtained adjustments ranging from 10 to 20 cents. (See table 5.) Individual contracts, however, provided for rate advances varying from less than 5 to more than 50 cents an hour. Wage increases negotiated for helpers and laborers were generally less than 15 cents an hour; the majority of these workers received rate boosts of either 10 or 12½ cents.

Some journeymen benefited from wage increases in all 77 cities studied, but helpers and laborers in 7 cities were employed at union scales which did not change between July 1, 1948, and July 1, 1949. (See table 6.) Average increases greater than 5 percent were received by journeymen in 32 cities and by helpers and laborers in 42 cities. In terms of cents-an-hour for cities registering rate increases, the averages for journeymen exceeded 10 cents an hour in 36 cities and ranged from less than 1 cent in Buffalo and Miami to 25 cents in Spokane. Spokane also led the helper and laborer group with an upward adjustment of 24 cents. Hourly scale increases for helpers and laborers averaged less than 1 cent in 17 cities but were more than 10 cents in 26 cities.

Union wage scales advanced 47 percent during the 4 years after VJ-day. An almost identical increase (48 percent) occurred in a somewhat similar period after World War I (from May 15, 1918, to May 15, 1922). Between May 15, 1921, and May 15, 1922, however, the level of union scales declined by 6 percent, in contrast to the 4 percent rise in the year ending July 1, 1949. The increase in union rates was accompanied by a decline (5 percent) in the Bureau's index of wholesale prices in building materials between July 1948 and 1949. Unlike the slackening in the fourth year after World War I, building construction during 1949 continued at a high level of activity. Expenditures for new construction in the first 8 months of 1949 were nearly 10 percent greater than in the similar period of 1948.<sup>2</sup>

The rate of wage advance in the building trades slowed considerably in the year starting July 1, 1948, as compared with the previous year. Between July 1, 1947, and July 1, 1948, the rise was at least 10 percent for all but 4 of the 24 journeyman trades and for all 9 helper and laborer classifications. (See table 3.) In the following year, average increases for journeymen ranged from 3 to 9 percent and for helpers and laborers from 3 to 7 percent. The renewal of agreements for journeyman trades in each of the 3 years following VJ-day typically provided for raises of 25 cents an hour; in contrast, the majority of increases negotiated from mid-1948 to mid-1949 were 10, 12½, and 15 cents, each amount affecting approximately an equal number of workers.

### Hourly Wage Scales, July 1, 1949

Wage rates in the building construction industry were higher than those prevailing in most other industries, organized or unorganized. Through the relatively strong and effective organization of the workers, wage scales were obtained which were designed, at least in part, to offset irregularity of employment and to compensate for other conditions that were not encountered by factory workers of comparable skill.

Average union scales for journeymen ranged from \$2.14 an hour for glaziers and paperhangers

<sup>2</sup> Derived from Bureau of Labor Statistics' series on expenditures for new construction.

to \$2.74 for bricklayers. (See table 7.) Other trades which averaged over \$2.50 included plumbers (\$2.52), lathers (\$2.54), stonemasons (\$2.66), and plasterers (\$2.67). Individual journeyman rates, however, were as low as \$1.25 for Jackson, Miss., glaziers, and as high as \$3.25 for New York slate and tile roofers and for Newark bricklayers, cement finishers, plasterers, and stonemasons.

Wage scales of helpers and laborers varied from \$1.31 for composition roofers' helpers to \$1.86 for terrazzo workers' helpers. The spread in individual rates was proportionately greater than that for journeymen, and ranged from an hourly scale of 75 cents for building laborers in Charleston, S. C., to \$2.65 for plasterers' laborers in Oakland, Calif.

TABLE 1.—Indexes of union hourly wage rates in the building trades, 1907-49

[June 1, 1939=100]

Date	All trades	Journeymen	Helpers and laborers	Date	All trades	Journeymen	Helpers and laborers
1907: May 15.....	29.3	29.7	27.3	1929: May 15.....	93.1	93.6	88.8
1908: May 15.....	31.2	31.6	28.5	1930: May 15.....	97.0	97.5	93.3
1909: May 15.....	32.7	33.2	29.5	1931: May 15.....	97.3	97.8	92.8
1910: May 15.....	34.0	34.6	30.5	1932: May 15.....	83.1	83.6	79.2
1911: May 15.....	34.5	35.2	30.6	1933: May 15.....	80.8	81.4	75.7
1912: May 15.....	35.3	36.0	30.9	1934: May 15.....	81.4	81.8	77.9
1913: May 15.....	36.1	36.9	31.8	1935: May 15.....	82.3	82.8	78.3
1914: May 15.....	36.9	37.7	32.1	1936: May 15.....	85.3	85.5	82.9
1915: May 15.....	37.2	38.0	32.4	1937: May 15.....	91.2	91.4	90.1
1916: May 15.....	38.4	39.3	33.5	1938: June 1.....	99.3	99.3	99.2
1917: May 15.....	40.8	41.5	36.8	1939: June 1.....	100.0	100.0	100.0
1918: May 15.....	45.3	45.9	42.6	1940: June 1.....	101.6	101.4	102.0
1919: May 15.....	51.9	52.4	49.3	1941: June 1.....	105.3	105.0	106.8
1920: May 15.....	70.0	70.1	71.5	1942: July 1.....	111.9	110.9	117.5
1921: May 15.....	71.3	71.4	72.2	1943: July 1.....	112.7	111.5	118.9
1922: May 15.....	66.9	67.3	65.7	1944: July 1.....	113.6	112.4	120.3
1923: May 15.....	73.9	74.2	69.7	1945: July 1.....	116.0	114.4	125.9
1924: May 15.....	79.8	80.1	75.4	1946: July 1.....	129.3	126.8	146.3
1925: May 15.....	82.9	83.1	77.9	1947: July 1.....	147.9	144.6	171.1
1926: May 15.....	88.3	88.7	84.9	1948: July 1.....	163.5	159.4	192.7
1927: May 15.....	91.3	91.7	86.4	1949: July 1.....	170.3	166.1	199.8
1928: May 15.....	91.9	92.4	87.3				

The results of postwar adjustments on union scales are reflected in a comparison of rate levels in effect on July 1, 1945, and July 1, 1949. In mid-1949, about a third of all journeymen were working under agreements which stipulated hourly scales of \$2.50 or more, and fewer than 10 percent had rates of less than \$2. In addition, three-fifths of all helpers and laborers had union rates ranging from \$1.50 to \$2.65, and the scales of fewer than 5 percent were under \$1. In 1945, however, only 6 percent of all journeymen had union rates of \$2 and over, whereas wage scales of less than \$1 an hour applied to two-fifths of all helpers and laborers. At that time, only two-tenths of 1 percent of the latter group had scales as high as \$1.50.

### City and Regional Rate Variations

Because collective bargaining is carried on locally, wage scales in the building construction industry have always varied considerably among

cities, except where the union jurisdiction covers a number of important cities. The extent of unionization and the general level of wages in a locality are also factors in rate variations. It is reasonable to assume that high rates in the building trades would prevail in cities having high general wage levels.

Differentials in ranges of union scales in 24 journeyman trades within typical cities in various sections of the country showed considerable variation on July 1, 1949.

City	Scale range	Difference Cents- per- hour	Percent
Atlanta.....	\$1. 50-\$2. 50	100	67
Boston.....	2. 10- 2. 70	60	29
Chicago.....	2. 37½- 2. 90	52½	22
Dallas.....	1. 75- 2. 50	75	43
New York.....	2. 45- 3. 25	80	33
San Francisco.....	2. 00- 3. 00	100	50

Journeyman rates among crafts within a city clearly vary considerably from city to city. The differences in the high and low rates of helpers

and laborers (representing only a fifth of the workers in the industry and grouped into 9 classifications) were sharper than those for journeymen in 5 of the above 6 cities. Boston, where the difference amounted to 11 percent, was the exception. In the other 5 cities, the range was from 34 percent in Chicago to 81 percent in Atlanta.

As in previous years, wage scales for both journeymen and for helpers and laborers averaged highest in the New York metropolitan area. On July 1, 1949, Newark led all cities with hourly rate levels of \$2.89 and \$2.12, respectively, and was immediately followed by New York City with corresponding averages of \$2.80 and \$1.95. (See table 8.) Ranking third was Washington, D. C., for journeymen (\$2.52) and Cleveland for helpers and laborers (\$1.86). Of the 14 cities in which journeymen had average scales under \$2 an hour, 9 were located in the South and 2 in New England. Levels under \$1 an hour applied to helpers and laborers in 10 southern cities.

In general, union scales for both journeymen and helpers and laborers were higher in the larger cities. When the 77 cities are grouped according to population, average hourly rates on July 1, 1949, descended in accordance with city size, that is, scale levels were highest in cities of 1,000,000 and over and lowest in cities from 40,000 to 100,000 in population.

Rate spreads were greatest in cities with populations from 250,000 to 500,000. This group includes Newark, where the journeyman level was 56 cents higher and that for helpers and laborers 29 cents above the average of the next leading city.

With few exceptions, notably Newark and New York, there was no consistent relationship between the scale levels of journeymen and helpers and laborers. Among cities of 500,000 to 1,000,000 population, for example, Washington, D. C., had the highest average for journeymen but next to the lowest (eighth) for helpers and laborers; Cleveland ranked first for helpers and laborers but fourth for journeymen.

On a regional basis, average union wage scales for all building-trades workers on July 1, 1949, varied from \$1.84 in the Southeast to \$2.45 in the Middle Atlantic States. (See table 9.) Other regions with scale levels of less than \$2 were the Southwest and Mountain States. In the 2 most populous regions—Middle Atlantic and Great

Lakes, which embrace 30 of the 77 cities studied—the rate levels exceeded the national average of \$2.18.

Levels of union scales for all journeyman trades combined exceeded \$2 and ranged from \$2.03 in the Southeast to \$2.66 in the Middle Atlantic States. The average rates in the Middle Atlantic States were highest for all 24 trades studied except paperhangers and stonemasons. Levels were generally lowest in the Southeast and the Southwest, but more predominantly in the former region.

Regional hourly averages for 9 helper and laborer classifications combined were as low as \$1 in the Southeast and as high as \$1.72 in the Middle Atlantic States. Levels exceeding \$2 applied to plasterers' laborers on the Pacific Coast (\$2.20) and in the Middle Atlantic States to plasterers' laborers and to tile layers' helpers (\$2.02), and to terrazzo workers' helpers (\$2.06). Building laborers and composition roofers' helpers in the Southeast, with average union scales of 95 and 89 cents, respectively, were the only groups below \$1 an hour.

### Standard Workweek

The changes in straight-time weekly hours between July 1, 1948, and July 1, 1949, had no effect on the average for all building-trades workers—which remained at 39.2, but raised the index a tenth of 1 percent for journeymen. (See table 10.) Decreases in standard weekly hours before overtime rates became effective were virtually offset by the few increases in hours (probably induced by the large volume of available work) from 30 to both 35 and 40 hours a week. Where standard hours were increased, upward adjustments in basic rates were agreed upon to prevent reduction of take-home pay.

On July 1, 1949, the 40-hour standard week covered almost 90 percent of all journeymen and helpers and laborers. A 35-hour week was more often found among bricklayers, carpenters, electricians, lathers, painters, stonemasons, and bricklayers' tenders than among other trades. (See table 12.) Less than 2 percent of all workers had a straight-time workweek of 30 hours. However, from 13 to 31 percent of lathers, plasterers, plumbers, and plasterers' laborers were subject to this work schedule.

TABLE 2.—Indexes of union hourly wage rates in each building trade, 1907-49

[June 1, 1939=100]

Date	Asbes- tos workers	Boiler- makers	Brick- layers	Car- penters	Cem- ent finishers	Electri- cians (inside wire- men)	Eleva- tor con- struc- tors	Gla- ziers	Lath- ers	Ma- chinists	Marble setters	Mosaic and ter- razzo workers	Paint- ers	Paper- hangers	Plas- terers
1907: May 15			37.7	29.8	34.5	27.9					37.1		26.2		37.3
1908: May 15			38.7	31.7	34.4	30.5					37.5		29.0		37.2
1909: May 15			39.5	33.4	35.4	31.5					37.7		31.0		37.5
1910: May 15			40.2	35.0	35.8	32.4					38.2		33.0		37.9
1911: May 15			40.2	35.5	37.2	32.8					38.6		33.6		38.1
1912: May 15			40.8	36.3	37.2	33.1			33.8		38.7		34.0		38.9
1913: May 15			41.5	36.8	38.0	33.8			34.6		41.3		35.5		39.3
1914: May 15			42.5	37.4	38.4	34.9	38.2		35.2		41.7		36.7		39.4
1915: May 15			42.6	37.8	38.8	35.6	38.4		35.7		42.1		36.9		39.6
1916: May 15	36.1		43.0	39.0	39.1	36.3	39.4		36.7		42.3	35.1	40.3		41.0
1917: May 15	38.0		44.5	42.4	41.4	38.7	42.2		38.1		42.3	36.9	41.5		42.2
1918: May 15	42.5		47.8	47.1	45.7	43.0	44.9	40.6	41.2		44.5	39.9	45.8		44.5
1919: May 15	51.7		53.1	54.2	41.2	49.3	52.3	43.4	45.8		49.5	42.9	53.6		51.3
1920: May 15	67.2		72.4	72.5	69.6	65.0	67.2	62.8	65.3		65.4	63.4	73.0		67.0
1921: May 15	68.1		71.9	73.1	71.9	67.3	70.7	63.9	66.3		66.5	64.6	75.1		70.7
1922: May 15	63.4		70.0	67.7	66.7	63.5	66.1	64.0	62.3		65.1	62.7	70.3		67.9
1923: May 15	65.8		79.2	75.5	73.0	65.9	70.2	67.9	68.8		73.6	64.2	77.1		75.6
1924: May 15	73.4		83.8	80.8	80.7	73.6	78.8	71.6	74.2		77.0	75.8	81.2		84.7
1925: May 15	76.4		88.7	82.5	81.1	77.4	82.6	79.6	80.9		78.6	79.7	85.7		86.1
1926: May 15	81.7		94.1	88.5	86.6	81.5	87.0	80.7	83.0		87.9	81.4	90.9		82.4
1927: May 15	85.7		96.4	91.4	90.4	84.9	90.2	86.2	86.3		89.8	84.7	93.9		94.4
1928: May 15	86.3		97.2	91.7	89.5	85.7	91.1	87.2	86.6		90.2	88.7	95.4		94.6
1929: May 15	90.3		99.4	93.2	89.5	89.3	91.3	88.5	85.9		96.6	93.0	95.2		93.5
1930: May 15	95.4		101.8	96.9	95.4	90.9	95.6	92.6	89.6		96.9	97.4	100.6		98.1
1931: May 15	96.4		101.6	97.1	95.8	92.1	96.1	93.2	89.1		97.4	98.2	101.0		97.9
1932: May 15	80.3		87.0	79.6	83.6	87.9	89.4	78.0	80.0		89.2	91.4	85.3		81.4
1933: May 15	80.1		84.7	79.4	81.6	80.3	83.1	77.9	77.1		86.2	83.3	83.6		78.2
1934: May 15	80.0		85.0	80.8	82.4	80.4	83.3	82.5	79.1		85.8	84.5	82.3		79.1
1935: May 15	81.0		83.7	81.8	82.9	84.3	83.4	83.3	80.0		86.4	84.5	82.6		80.0
1936: May 15	84.3		84.2	86.0	85.0	86.5	84.4	84.5	82.0		86.9	84.7	86.8		80.5
1937: May 15	90.8	90.1	90.1	91.6	91.2	90.3	87.7	92.6	87.5	93.7	91.9	88.7	93.0	97.8	88.7
1938: June 1	99.5	99.4	99.5	99.8	99.6	99.5	98.4	99.3	96.8	99.8	99.7	98.6	99.2	99.5	99.2
1939: June 1	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
1940: June 1	101.1	101.5	102.2	102.5	100.9	101.7	101.5	101.1	100.7	100.4	101.6	100.5	100.2	100.8	100.5
1941: June 1	104.8	103.4	104.6	104.8	104.5	106.3	103.8	104.3	104.5	103.2	101.9	101.4	106.9	107.5	102.2
1942: July 1	112.5	109.9	108.3	112.1	110.8	113.5	109.7	108.8	109.1	108.5	103.8	104.6	110.5	112.3	105.0
1943: July 1	112.8	110.1	108.7	112.5	112.0	113.8	110.7	109.6	109.2	111.0	104.3	106.3	112.4	112.6	105.2
1944: July 1	113.3	110.1	110.0	113.4	113.1	114.7	111.3	110.2	110.0	111.6	105.4	107.8	113.5	114.1	105.9
1945: July 1	114.5	111.2	112.7	115.4	114.2	116.9	112.0	112.2	111.5	111.6	109.3	109.8	115.1	114.6	107.6
1946: July 1	125.8	120.0	125.6	129.7	128.2	124.9	119.3	123.4	124.2	124.4	121.4	124.2	127.3	127.4	119.0
1947: July 1	139.7	134.0	145.2	149.6	144.3	140.9	136.6	141.9	144.4	144.0	138.4	145.9	142.4	145.2	139.3
1948: July 1	154.0	150.2	165.6	164.7	161.1	154.4	150.0	155.5	157.8	158.9	154.4	162.3	154.4	153.6	148.2
1949: July 1	165.2	158.6	174.0	169.1	165.8	163.1	159.8	160.5	164.2	167.9	160.4	167.3	162.1	161.9	161.9

TABLE 2.—Indexes of union hourly wage rates in each building trade, 1907-49—Continued

[June 1, 1939=100]

Date	Plumbers	Rodmen	Roofers, composition	Roofers, slate and tile	Sheet-metal workers	Steam and sprinkler fitters	Stonemasons	Structural-iron workers <sup>1</sup>	Tile layers	Bricklayers' tenders	Building laborers	Composition roofers' helpers	Plasterers' laborers	Plumbers' laborers	Tile layers' helpers
1907: May 15	33.3														
1908: May 15	33.7														
1909: May 15	34.2														
1910: May 15	34.5														
1911: May 15	36.5														
1912: May 15	36.7														
1913: May 15	37.9														
1914: May 15	38.4		31.4	35.4											
1915: May 15	38.7		32.3	36.8											
1916: May 15	39.0		32.5	37.8											
1917: May 15	40.4		34.3	40.3											
1918: May 15	44.6		38.9	44.2											
1919: May 15	50.4		43.2	50.3											
1920: May 15	65.2		61.5	65.0											
1921: May 15	68.2		64.4	70.8											
1922: May 15	63.4		61.6	67.7											
1923: May 15	70.0		62.4	75.5											
1924: May 15	76.3		72.3	83.6											
1925: May 15	77.9		74.5	87.5											
1926: May 15	83.9		81.0	90.3											
1927: May 15	85.6		83.3	94.6											
1928: May 15	87.4		85.2	94.8											
1929: May 15	88.1		86.8	95.8											
1930: May 15	91.5		92.0	98.8											
1931: May 15	92.6		92.6	99.1											
1932: May 15	80.5		80.9	86.1											
1933: May 15	79.8		79.2	84.0											
1934: May 15	80.5		80.7	83.5											
1935: May 15	81.8		83.0	85.7											
1936: May 15	83.9		83.5	86.4											
1937: May 15	88.5	90.2	90.0	92.8											
1938: June 1	99.1	99.0	99.7	99.0											
1939: June 1	100.0	100.0	100.0	100.0											
1940: June 1	101.6	101.2	102.3	101.7											
1941: June 1	106.0	106.4	106.5	104.0											
1942: July 1	110.5	111.0	116.1	113.1											
1943: July 1	110.9	111.6	116.6	114.0											
1944: July 1	111.5	112.1	117.3	114.6											
1945: July 1	114.0	114.4	118.8	116.9											
1946: July 1	123.2	126.3	132.3	127.1											
1947: July 1	142.9	142.0	153.8	141.0											
1948: July 1	158.2	158.0	170.5	156.8											
1949: July 1	162.8	165.0	178.4	165.6											

<sup>1</sup> Included rodmen prior to 1940.

TABLE 3.—Increases in rates in the building trades, July 1, 1948, to July 1, 1949, and average union hourly wage rates, July 1, 1949

Trade	Amount of increase July 1, 1948, to July 1, 1949		Range of rates July 1, 1949		Average rate per hour July 1, 1949	Trade	Amount of increase July 1, 1948, to July 1, 1949		Range of rates July 1, 1949		Average rate per hour July 1, 1949
	Per cent	Cents per hour	Low	High			Per cent	Cents per hour	Low	High	
All building trades	4.1	9			\$2.18	Journeyman—Continued					
Journeyman	4.2	10			2.34	Roofers, composition	4.7	10	\$1.28	\$2.85	\$2.19
Asbestos workers	7.3	16	\$1.94	\$2.75	2.37	Roofers, slate and tile	5.6	12	1.50	3.25	2.24
Boilermakers	5.6	13	1.85	2.75	2.39	Sheet-metal workers	3.2	7	1.75	2.75	2.29
Bricklayers	5.1	13	2.05	3.25	2.74	Steam and sprinkler fitters	4.5	11	1.90	2.88	2.46
Carpenters	2.7	6	1.50	3.00	2.25	Stonemasons	5.9	15	2.00	3.25	2.66
Cement finishers	2.9	6	1.60	3.25	2.27	Structural-iron workers	3.7	9	1.95	3.10	2.42
Electricians (inside wiremen)	8.9	20	1.50	3.00	2.49	Tile layers	4.4	11	1.90	3.00	2.49
Elevator constructors	6.5	15	2.05	2.80	2.45	Helpers and laborers	3.7	6			1.55
Glaziers	3.2	7	1.25	2.75	2.14	Bricklayers' tenders	2.6	4	.85	2.25	1.68
Lathers	4.1	10	2.00	3.00	2.54	Building laborers	3.8	5	.75	2.13	1.47
Machinists	5.7	13	2.00	2.75	2.39	Composition roofers' helpers	5.6	7	.80	1.70	1.81
Marble setters	3.9	9	1.90	3.00	2.46	Elevator constructors' helpers	5.8	10	1.44	2.04	1.73
Mosaic and terrazzo workers	3.1	7	1.90	3.00	2.42	Marble setters' helpers	6.2	9	1.00	2.03	1.60
Painters	5.0	10	1.38	3.00	2.19	Plasterers' laborers	3.8	7	.85	2.65	1.80
Paperhangers	5.4	11	1.38	2.50	2.14	Plumbers' laborers	6.7	10	.85	1.95	1.64
Plasterers	9.2	23	2.00	3.25	2.67	Terrazzo workers' helpers	3.8	7	1.05	2.30	1.86
Plumbers	2.9	7	1.90	3.00	2.52	Tile layers' helpers	4.4	8	.85	2.20	1.83
Rodmen	4.4	10	1.60	3.10	2.27						

TABLE 4.—Percent increases in union wage rates and percent of building trade workers affected, July 1, 1948, to July 1, 1949

Trade	Percent of union workers affected by—		Percent of workers affected by increase of—						
	No change	Increase	Less than 5 percent	5 and under 10 percent	10 and under 15 percent	15 and under 20 percent	20 and under 25 percent	25 and under 30 percent	30 percent and over
All building trades.....	45.3	54.7	10.2	30.3	11.0	1.6	1.3	0.3	(1)
Journeymen.....	44.5	55.5	10.8	30.7	10.7	1.4	1.5	.4	(1)
Asbestos workers.....	20.5	79.5	10.0	27.4	38.7	2.4	1.0		
Boilermakers.....	25.8	74.2	10.9	47.3	15.9			.1	
Bricklayers.....	43.7	56.3	5.7	33.6	7.4	.9	3.2	5.5	
Carpenters.....	56.6	43.4	9.9	30.3	2.3	.9		(1)	
Cement finishers.....	48.1	51.9	18.0	30.7	3.0	.2			
Electricians (inside wiremen).....	11.2	88.8	20.3	32.1	15.4	8.0	13.0		
Elevator constructors.....	25.0	75.0	10.5	32.5	23.7	8.3			
Glaziers.....	52.7	47.3	11.2	22.6	11.9	1.6			
Lathers.....	53.4	46.6	7.0	17.2	17.8	.2	4.4		
Machinists.....	24.3	75.7	6.5	48.7	16.5	3.1	.9		
Marble setters.....	42.8	57.2	9.1	36.7	8.7	1.0	1.7		
Mosaic and terrazzo workers.....	54.2	45.8	5.3	31.1	7.6	1.8			
Painters.....	34.8	65.2	7.1	36.4	20.9	.7	(1)	.1	
Paperhangers.....	32.5	67.5	15.8	19.1	31.6	1.0			
Plasterers.....	21.8	78.2	6.2	43.8	17.7	.1	8.2		2.2
Plumbers.....	53.2	46.8	19.1	15.2	12.5				
Rodmen.....	38.1	61.9	12.5	39.4	6.1	.5	.4	3.0	
Roofers, composition.....	34.6	65.4	19.1	24.6	21.7				
Roofers, slate and tile.....	26.8	73.2	22.4	36.2	8.6	6.0			
Sheet-metal workers.....	46.3	53.7	18.2	24.2	11.0	.3			
Steam and sprinkler fitters.....	42.5	57.5	5.1	29.3	22.0	1.1			
Stonemasons.....	55.1	44.9	4.9	11.6	4.4	12.3	4.6	7.1	
Structural-iron workers.....	44.4	55.6	11.4	29.4	14.1		.7		
Tile layers.....	48.5	51.5	2.1	26.5	17.5	5.4			
Helpers and laborers.....	48.5	51.5	7.7	29.1	12.2	2.1	.4	(1)	
Bricklayers' tenders.....	59.6	40.4	3.1	31.6	3.9	1.8			
Building laborers.....	46.8	53.2	9.9	27.7	13.1	1.9	.6		
Composition roofers' helpers.....	41.3	58.7	5.3	28.9	16.3	8.2			
Elevator constructors' helpers.....	30.6	69.4	7.4	25.3	31.6	5.1			
Marble setters' helpers.....	19.6	80.4	1.8	61.3	11.6	4.9	.3	.5	
Plasterers' laborers.....	54.3	45.7	3.6	22.7	17.1	2.3			
Plumbers' laborers.....	22.7	77.3	1.3	56.2	12.6	7.2			
Terrazzo workers' helpers.....	51.1	48.9	5.9	22.9	14.7	1.8	1.8	1.8	
Tile layers' helpers.....	45.1	54.9	1.7	34.6	15.8	1.3	.3	1.2	

<sup>1</sup> Less than 0.05 of 1 percent.

TABLE 5.—Cents-per-hour increases in union wage rates and percent of building trade workers affected, July 1, 1948, to July 1, 1949

Trade	Percent of union workers affected by increase	Percent of workers affected by increase of—								
		Less than 5 cents	5 and under 10 cents	10 and under 15 cents	15 and under 20 cents	20 and under 25 cents	25 and under 30 cents	30 and under 35 cents	35 and under 40 cents	40 cents and over
All building trades.....	54.7	1.2	4.3	23.6	11.5	5.1	5.9	0.7	0.8	1.6
Journeymen.....	55.5	.5	3.5	21.7	13.1	5.7	7.2	.9	1.0	1.9
Asbestos workers.....	79.5		2.4	19.6	15.4		34.8	5.0	2.3	
Boilermakers.....	74.2		(1)	30.3	2.6	25.3	15.9			.1
Bricklayers.....	56.3		2.0	11.9	16.1	4.8	11.3	1.1	.4	8.7
Carpenters.....	43.4	.4	.5	25.2	14.6		2.0		.7	(1)
Cement finishers.....	51.9	.1	5.6	34.7	7.9	1.8	1.6		.2	
Electricians (inside wiremen).....	88.8	1.0	4.4	22.7	17.1	6.9	15.7	1.9	6.1	13.0
Elevator constructors.....	75.0	4.7	5.8	2.5	20.4	24.0	9.3	3.1	.4	4.8
Glaziers.....	47.3		1.3	30.1	4.8	6.6	2.9		1.6	
Lathers.....	46.6	2.1	4.6	4.2	11.0	3.0	15.4		1.9	4.4
Machinists.....	75.7	5.6	.8	6.1	42.6		17.2	.6	1.9	.9
Marble setters.....	57.2		1.6	28.1	14.5	2.6	7.7	1.0		1.7
Mosaic and terrazzo workers.....	45.8		.8	23.3	8.2	5.2	6.4	1.1	.8	
Painters.....	65.2	.4	7.0	19.9	13.5	18.0	6.3		(1)	.1
Paperhangers.....	67.5		15.8	16.9	1.5	28.9	4.4			
Plasterers.....	78.2	.4	2.6	10.3	15.7	21.1	17.7		.1	10.3
Plumbers.....	46.8		4.1	21.5	6.0	2.9	12.3			
Rodmen.....	61.9	.9	5.2	33.7	7.6	6.4	4.7		.4	3.0
Roofers, composition.....	65.4	.4	9.2	25.7	9.2	5.9	15.0			
Roofers, slate and tile.....	73.2	1.4	14.7	25.6	11.9	5.8	7.8			6.0
Sheet-metal workers.....	53.7	.4	17.8	20.6	3.7	4.3	3.4	3.5		
Steam and sprinkler fitters.....	57.5	.4	1.8	5.0	16.6	1.0	16.0	5.6	1.1	

<sup>1</sup> Less than 0.05 of 1 percent.

TABLE 5.—Cents-per-hour increases in union wage rates and percent of building trade workers affected, July 1, 1948 to July 1, 1949—Continued

Trade	Percent of union workers affected by increase	Percent of workers affected by increase of—								
		Less than 5 cents	5 and under 10 cents	10 and under 15 cents	15 and under 20 cents	20 and under 25 cents	25 and under 30 cents	30 and under 35 cents	35 and under 40 cents	40 cents and over
Journeyman—Continued										
Stonemasons.....	44.9		1.2	6.7	4.7	3.7	4.4	0.1	12.4	11.7
Structural-iron workers.....	55.6	0.4	5.8	22.3	8.8	11.4	6.2		.7	
Tile layers.....	51.5		2.1	11.6	14.8	.3	7.6	12.8	2.3	
Helpers and laborers										
Bricklayers' tenders.....	51.5	4.4	7.7	30.9	4.8	2.7	.9	(1)		.1
Building laborers.....	40.4		6.8	30.3	1.1	1.5	.7			
Composition roofers' helpers.....	53.2	6.4	8.1	31.7	4.5	1.7	.8			
Elevator constructors' helpers.....	58.7		5.3	45.2		8.2				
	69.4	5.0	5.6	22.5	30.7	3.4	2.2			
Marble setters' helpers.....	80.4		15.7	44.9	10.0	4.1	5.7			
Plasterers' laborers.....	45.7		6.8	22.2	3.2	11.7				1.8
Plumbers' laborers.....	77.3		6.5	49.5	8.9	7.2	5.2			
Terrazzo workers' helpers.....	48.9		5.9	22.2	13.5	1.8	4.9	.6		
Tile layers' helpers.....	54.9		3.9	19.8	24.4	4.0	2.8			

<sup>1</sup> Less than 0.05 of 1 percent.

TABLE 6.—Increases in union wage rates for major building trade groups in 77 cities, July 1, 1948, to July 1, 1949

City	Percent of increase			Cents-per-hour increase			City	Percent of increase			Cents-per-hour increase		
	All trades	Journeymen	Helpers and laborers	All trades	Journeymen	Helpers and laborers		All trades	Journeymen	Helpers and laborers	All trades	Journeymen	Helpers and laborers
All cities.....	4.1	4.2	3.7	8.7	9.5	5.5	Mobile, Ala.....	3.5	3.3	5.0	6.2	6.6	5.0
Atlanta, Ga.....	2.7	2.9	1.1	4.9	5.6	1.1	Newark, N. J.....	4.2	4.9	0	11.3	13.4	0
Baltimore, Md.....	5.6	6.7	.3	10.8	14.0	.3	New Haven, Conn.....	2.2	2.5	0	4.6	5.5	0
Birmingham, Ala.....	4.8	4.7	5.2	8.2	9.1	5.0	New Orleans, La.....	8.5	8.2	10.9	14.4	15.4	10.5
Boston, Mass.....	6.7	6.7	6.6	13.9	14.9	10.4	New York, N. Y.....	2.3	2.6	.8	6.0	7.0	1.6
Buffalo, N. Y.....	.2	.2	0	.3	.4	0	Norfolk, Va.....	4.8	4.8	7.3	9.3	9.3	10.5
Butte, Mont.....	4.0	4.7	.8	7.7	9.5	1.1	Oakland, Calif.....	2.4	2.3	3.2	5.1	5.1	5.2
Charleston, S. C.....	7.7	8.0	.4	13.4	14.4	.3	Oklahoma City, Okla.....	8.8	6.6	18.8	15.6	13.7	20.0
Charleston, W. Va.....	1.3	.8	3.7	2.6	1.7	4.9	Omaha, Nebr.....	7.0	6.7	8.2	12.5	13.4	10.0
Charlotte, N. C.....	7.7	7.6	9.5	12.6	13.0	7.5	Peoria, Ill.....	3.4	3.0	4.6	7.0	6.8	7.5
Chattanooga, Tenn.....	1.7	2.0	0	3.0	3.8	0	Philadelphia, Pa.....	7.6	7.7	7.5	15.4	17.9	9.8
Chicago, Ill.....	6.2	6.2	5.7	14.2	14.4	9.7	Phoenix, Ariz.....	1.5	2.1	.2	2.7	4.5	.4
Cincinnati, Ohio.....	3.0	2.6	4.9	6.1	5.7	7.4	Pittsburgh, Pa.....	1.2	1.4	.1	2.7	3.6	.1
Cleveland, Ohio.....	5.4	5.1	7.1	11.9	11.9	12.3	Portland, Maine.....	7.3	7.1	8.7	11.7	12.0	10.1
Columbus, Ohio.....	6.1	5.5	9.1	11.9	11.7	12.3	Portland, Oreg.....	9.5	9.1	11.6	18.3	18.4	17.9
Dallas, Tex.....	1.1	1.4	.2	2.1	3.0	.2	Providence, R. I.....	3.8	3.2	7.0	7.1	6.4	9.8
Dayton, Ohio.....	6.3	6.1	8.3	13.2	13.4	12.1	Reading, Pa.....	6.9	6.7	7.5	12.4	13.8	9.9
Denver, Colo.....	2.9	4.3	.4	5.5	9.3	.6	Richmond, Va.....	2.7	2.9	.3	5.0	5.6	.3
Des Moines, Iowa.....	4.3	3.7	7.0	8.1	7.5	9.9	Rochester, N. Y.....	7.6	7.0	10.1	14.8	14.9	14.7
Detroit, Mich.....	4.7	4.5	6.5	10.1	10.0	10.4	Rock Island (Ill.) District 3.....	4.8	4.4	7.3	9.4	9.2	10.4
Duluth, Minn.....	.6	.6	.2	1.0	1.2	.3	St. Louis, Mo.....	4.3	4.7	2.4	9.4	11.2	3.9
El Paso, Tex.....	5.6	6.0	4.2	9.2	11.8	4.1	St. Paul, Minn.....	.6	.8	(1)	1.1	1.7	.1
Erie, Pa.....	4.2	3.7	7.1	7.9	7.3	10.2	Salt Lake City, Utah.....	1.6	2.0	0	2.9	3.9	0
Grand Rapids, Mich.....	2.2	2.5	.3	4.2	5.1	.4	San Antonio, Tex.....	7.9	8.7	.2	14.2	17.0	.2
Houston, Tex.....	1.4	1.6	.2	2.8	3.4	.2	San Francisco, Calif.....	3.6	3.8	2.3	7.5	8.3	3.7
Indianapolis, Ind.....	6.3	5.7	8.4	12.5	12.6	12.2	Savannah, Ga.....	8.6	8.0	12.9	13.4	14.5	10.0
Jackson, Miss.....	7.0	6.4	11.1	11.2	11.8	9.4	Scranton, Pa.....	4.2	3.6	7.0	7.9	7.4	9.1
Jacksonville, Fla.....	8.0	8.1	5.8	13.9	14.6	4.9	Seattle, Wash.....	6.6	6.5	7.6	13.9	14.1	12.9
Kansas City, Mo.....	5.8	5.6	6.6	11.6	11.9	10.0	South Bend, Ind.....	5.3	4.9	6.3	10.4	10.5	10.0
Knoxville, Tenn.....	.8	1.0	(1)	1.4	1.9	(2)	Spokane, Wash.....	13.2	12.5	17.1	24.9	25.1	24.3
Little Rock, Ark.....	4.9	4.7	8.1	8.6	8.8	6.8	Springfield, Mass.....	6.5	6.0	9.2	12.3	12.4	12.1
Los Angeles, Calif.....	1.7	1.9	.2	3.6	4.2	.3	Syracuse, N. Y.....	10.3	8.7	15.8	18.6	18.1	19.8
Louisville, Ky.....	9.3	8.9	11.9	17.3	18.0	15.2	Toledo, Ohio.....	3.9	3.3	5.6	8.0	7.4	9.2
Manchester, N. H.....	4.1	2.9	8.7	6.8	5.4	10.4	Washington, D. C.....	9.5	10.0	6.7	19.3	23.0	8.7
Memphis, Tenn.....	1.3	1.5	0	2.3	2.8	0	Wichita, Kans.....	8.8	8.4	10.6	14.9	15.9	12.4
Miami, Fla.....	.1	.1	.2	.3	.3	.3	Worcester, Mass.....	6.5	6.3	7.6	11.9	12.2	10.2
Milwaukee, Wis.....	2.0	2.4	.3	4.0	4.8	.5	York, Pa.....	.8	1.1	0	1.3	1.9	0
Minneapolis, Minn.....	1.8	2.1	.3	3.5	4.4	.5	Youngstown, Ohio.....	5.9	5.8	6.7	12.0	12.7	9.9

<sup>1</sup> Less than 0.05 of 1 percent.

<sup>2</sup> Less than 1 mill.

<sup>3</sup> Includes Rock Island and Moline, Ill., and Davenport, Iowa.



TABLE 7.—Distribution of union members in the building trades, by hourly wage rates, July 1, 1949

Trade	Average rate per hour	Percent of union journeymen whose rates (in cents) per hour were—																		
		Under 160	160 and under 170	170 and under 180	180 and under 190	190 and under 200	200 and under 210	210 and under 220	220 and under 230	230 and under 240	240 and under 250	250 and under 260	260 and under 270	270 and under 280	280 and under 290	290 and under 300	300 and under 310	310 and under 320	320 and over	
		Journemen.....	\$2.343	0.1	0.7	1.8	2.7	2.4	11.9	13.5	12.1	11.4	12.1	14.4	1.9	8.9	0.9	( <sup>1</sup> )	3.5	0.1
Asbestos workers.....	2.371	-----	-----	-----	-----	.6	2.7	16.5	23.1	11.2	16.7	11.9	8.1	9.2	-----	-----	-----	-----	-----	-----
Boilermakers.....	2.392	-----	-----	-----	( <sup>1</sup> )	-----	-----	( <sup>1</sup> )	34.8	26.4	11.4	15.8	-----	11.6	-----	-----	-----	-----	-----	-----
Bricklayers.....	2.741	-----	-----	-----	-----	-----	-----	2	.3	5.6	.5	2.4	33.9	14.5	6.9	1.7	.4	13.6	.1	19.9
Carpenters.....	2.253	( <sup>1</sup> )	.7	2.7	3.8	4.0	21.1	17.9	8.9	6.9	15.7	4.3	-----	13.0	-----	-----	-----	1.0	-----	-----
Cement finishers.....	2.271	( <sup>1</sup> )	1.0	.7	4.7	1.5	10.1	30.2	14.1	2.0	15.1	9.3	2.2	8.1	-----	-----	-----	-----	-----	1.0
Electricians (inside wiremen).....	2.487	( <sup>1</sup> )	-----	.2	.9	-----	-----	2.2	4.1	11.4	20.7	2.7	34.9	6.6	2.3	-----	-----	14.0	-----	-----
Elevator constructors.....	2.449	-----	-----	-----	-----	-----	.5	1.9	14.7	19.3	35.3	12.1	-----	11.4	4.8	-----	-----	-----	-----	-----
Glaziers.....	2.141	1.0	3.2	5.9	7.3	18.1	22.1	7.4	9.6	1.7	-----	10.8	1.5	11.4	-----	-----	-----	-----	-----	-----
Lathers.....	2.536	-----	-----	-----	-----	-----	1.4	1.3	26.1	5.7	5.0	18.1	5.3	21.9	9.3	-----	-----	5.9	-----	-----
Machinists.....	2.393	-----	-----	-----	-----	-----	8.6	8.0	15.1	4.4	8.7	50.5	.9	3.8	-----	-----	-----	-----	-----	-----
Marble setters.....	2.457	-----	-----	-----	-----	1.2	3.3	4.0	11.8	19.5	18.1	15.0	3.0	23.9	-----	-----	-----	.2	-----	-----
Mosaic and terrazzo workers.....	2.423	-----	-----	-----	-----	1.5	3.9	.5	28.3	12.1	16.7	11.1	6.4	18.7	-----	-----	-----	.8	-----	-----
Painters.....	2.186	.5	2.4	3.4	5.5	2.7	12.8	24.4	10.8	21.5	10.6	4.5	( <sup>1</sup> )	.2	.4	.2	.1	-----	-----	-----
Paperhangers.....	2.138	.9	.5	7.0	6.2	3.8	13.0	26.9	11.5	29.0	.5	.7	-----	-----	-----	-----	-----	-----	-----	-----
Plasterers.....	2.668	-----	-----	-----	-----	-----	2.4	1.2	8.6	1.5	7.0	35.3	8.6	5.2	2.6	-----	7.7	-----	-----	19.9
Plumbers.....	2.518	-----	-----	-----	-----	.2	1.0	1.7	13.1	13.5	20.4	27.5	-----	3.2	6.6	-----	12.8	-----	-----	-----
Rodmen.....	2.271	-----	6.9	.9	3.0	5.0	12.2	22.8	11.9	6.1	13.8	17.2	-----	5.1	-----	-----	-----	-----	-----	-----
Roofers, composition.....	2.190	1.2	6.9	5.5	5.7	7.5	7.5	8.0	23.4	8.7	5.0	9.5	-----	9.5	1.6	-----	-----	-----	-----	-----
Roofers, slate and tile.....	2.243	2.8	4.1	8.5	2.1	8.2	6.8	14.2	20.0	3.4	.5	13.8	-----	7.1	-----	-----	2.5	-----	-----	6.0
Sheet-metal workers.....	2.286	-----	-----	.9	2.1	1.5	10.7	17.6	31.3	9.5	6.0	9.4	.1	10.9	-----	-----	-----	-----	-----	-----
Steam and sprinkler fitters.....	2.460	-----	-----	-----	( <sup>1</sup> )	-----	1.1	1.9	15.9	17.2	7.9	39.7	-----	15.6	.7	-----	-----	-----	-----	-----
Stonemasons.....	2.661	-----	-----	-----	-----	-----	.3	.4	14.9	3.0	4.5	14.8	23.0	10.2	2.5	-----	16.6	-----	-----	9.8
Structural-iron workers.....	2.417	-----	-----	-----	-----	.6	5.6	11.1	11.5	15.9	24.8	13.4	1.8	4.5	3.1	-----	6.8	.9	-----	-----
Tile layers.....	2.493	-----	-----	-----	-----	.6	3.5	.6	15.8	10.4	3.1	35.5	11.0	18.7	-----	-----	.8	-----	-----	-----

Trade	Average rate per hour	Percent of union helpers and laborers whose rates (in cents) per hour were—																
		Under 80	80 and under 90	90 and under 100	100 and under 110	110 and under 120	120 and under 130	130 and under 140	140 and under 150	150 and under 160	160 and under 170	170 and under 180	180 and under 190	190 and under 200	200 and under 210	210 and under 220	220 and under 230	230 and over
		Helpers and laborers.....	\$1.548	( <sup>1</sup> )	1.3	2.2	7.3	0.4	4.5	11.5	14.3	16.2	10.9	11.1	5.4	10.5	0.9	1.8
Bricklayers' tenders.....	1.676	-----	.3	.6	6.1	1.5	4.0	9.0	1.5	8.5	13.0	11.7	10.4	29.2	.8	2.0	1.4	-----
Building laborers.....	1.468	0.1	1.6	3.0	8.5	-----	4.1	14.0	20.4	20.4	10.6	8.8	2.4	5.7	-----	.4	-----	-----
Composition roofers' helpers.....	1.305	-----	15.1	-----	16.8	2.2	8.4	10.3	8.2	23.4	13.2	2.4	-----	-----	-----	-----	-----	-----
Elevator constructors' helpers.....	1.726	-----	-----	-----	-----	-----	-----	-----	.4	13.0	36.7	34.1	-----	9.2	6.6	-----	-----	-----
Marble setters' helpers.....	1.602	-----	-----	-----	16.4	1.6	2.0	2.6	.3	10.8	13.4	27.6	10.3	9.8	5.2	-----	-----	-----
Plasterers' laborers.....	1.797	-----	.4	.5	4.5	.6	11.0	3.6	1.5	1.5	3.3	21.1	12.1	5.3	7.4	14.4	-----	12.8
Plumbers' laborers.....	1.636	-----	2.6	1.8	.4	2.1	1.8	6.1	5.6	17.7	14.7	15.2	8.4	23.6	-----	-----	-----	-----
Terrazzo workers' helpers.....	1.862	-----	-----	-----	3	-----	3.3	1.1	3.5	5.9	6.0	20.3	20.3	6.9	6.5	2.4	22.8	.7
Tile layers' helpers.....	1.830	-----	.2	-----	1.6	-----	2.4	1.3	.1	7.2	7.2	13.8	32.1	15.8	.9	-----	17.4	-----

<sup>1</sup> Less than 0.05 of 1 percent.

TABLE 8.—Average union hourly wage rates in the building trades, by city and population group, July 1, 1949

City and population group	Average hourly rate	City and population group	Average hourly rate
<b>JOURNEYMEN</b>		<b>HELPERS AND LABORERS</b>	
<b>Population group I (1,000,000 and over):</b>		<b>Population group I (1,000,000 and over):</b>	
New York, N. Y.	\$2.801	New York, N. Y.	\$1.948
Philadelphia, Pa.	2.508	Chicago, Ill.	1.808
<i>Average for group I</i>	2.503	<i>Average for group I</i>	1.719
Chicago, Ill.	2.458	Detroit, Mich.	1.715
Detroit, Mich.	2.354	Los Angeles, Calif.	1.586
Los Angeles, Calif.	2.202	Philadelphia, Pa.	1.400
<b>Population group II (500,000 to 1,000,000):</b>		<b>Population group II (500,000 to 1,000,000):</b>	
Washington, D. C.	2.523	Cleveland, Ohio.	1.859
Pittsburgh, Pa.	2.498	Buffalo, N. Y.	1.670
St. Louis, Mo.	2.469	Boston, Mass.	1.665
Cleveland, Ohio.	2.425	St. Louis, Mo.	1.637
Boston, Mass.	2.367	San Francisco, Calif.	1.632
<i>Average for group II</i>	2.364	Milwaukee, Wis.	1.623
Buffalo, N. Y.	2.301	<i>Average for group II</i>	1.602
San Francisco, Calif.	2.277	Pittsburgh, Pa.	1.581
Baltimore, Md.	2.241	Washington, D. C.	1.383
Milwaukee, Wis.	2.083	Baltimore, Md.	1.286
<b>Population group III (250,000 to 500,000):</b>		<b>Population group III (250,000 to 500,000):</b>	
Newark, N. J.	2.889	Newark, N. J.	2.123
Toledo, Ohio.	2.330	Seattle, Wash.	1.831
Seattle, Wash.	2.317	Toledo, Ohio.	1.740
Indianapolis, Ind.	2.316	Portland, Oreg.	1.727
Oakland, Calif.	2.275	Oakland, Calif.	1.673
Cincinnati, Ohio.	2.274	Kansas City, Mo.	1.616
Rochester, N. Y.	2.270	Rochester, N. Y.	1.602
Columbus, Ohio.	2.252	Cincinnati, Ohio.	1.577
Denver, Colo.	2.240	Indianapolis, Ind.	1.571
Kansas City, Mo.	2.223	Denver, Colo.	1.537
<i>Average for group III</i>	2.218	Minneapolis, Minn.	1.515
Louisville, Ky.	2.205	Providence, R. I.	1.512
Portland, Oreg.	2.203	St. Paul, Minn.	1.491
Dallas, Tex.	2.193	Columbus, Ohio.	1.482
Minneapolis, Minn.	2.146	<i>Average for group III</i>	1.478
Houston, Tex.	2.142	Louisville, Ky.	1.428
San Antonio, Tex.	2.129	Houston, Tex.	1.199
St. Paul, Minn.	2.106	Dallas, Tex.	1.106
Providence, R. I.	2.041	San Antonio, Tex.	1.072
Birmingham, Ala.	2.036	New Orleans, La.	1.067
New Orleans, La.	2.019	Birmingham, Ala.	1.016
Atlanta, Ga.	1.995	Memphis, Tenn.	1.001
Memphis, Tenn.	1.978	Atlanta, Ga.	.977
<b>Population group IV (100,000 to 250,000):</b>		<b>Population group IV (100,000 to 250,000):</b>	
Dayton, Ohio.	2.341	Peoria, Ill.	1.710
Youngstown, Ohio.	2.335	South Bend, Ind.	1.673
Peoria, Ill.	2.326	Spokane, Wash.	1.664
South Bend, Ind.	2.269	Dayton, Ohio.	1.588
Spokane, Wash.	2.254	Youngstown, Ohio.	1.585
Syracuse, N. Y.	2.254	New Haven, Conn.	1.576
New Haven, Conn.	2.233	Norfolk, Va.	1.540
Oklahoma City, Okla.	2.208	Rock Island (Ill.) District <sup>1</sup>	1.539
Reading, Pa.	2.201	Erie, Pa.	1.531
Miami, Fla.	2.198	Des Moines, Iowa.	1.515
Rock Island (Ill.) District <sup>1</sup>	2.190	Syracuse, N. Y.	1.452
Springfield, Mass.	2.181	Springfield, Mass.	1.435
Omaha, Nebr.	2.141	Worcester, Mass.	1.434
<i>Average for group IV</i>	2.138	Reading, Pa.	1.425
Scranton, Pa.	2.137	Grand Rapids, Mich.	1.406
Grand Rapids, Mich.	2.124	Scranton, Pa.	1.392
Des Moines, Iowa.	2.106	Duluth, Minn.	1.364
Erie, Pa.	2.075	<i>Average for group IV</i>	1.360
Wichita, Kans.	2.068	Salt Lake City, Utah.	1.340
Worcester, Mass.	2.045	Omaha, Nebr.	1.315
Richmond, Va.	2.024	Wichita, Kans.	1.300
Norfolk, Va.	2.018	Oklahoma City, Okla.	1.267
Knoxville, Tenn.	2.010	Miami, Fla.	1.102
Chattanooga, Tenn.	1.973	Chattanooga, Tenn.	1.022
Jacksonville, Fla.	1.960	Richmond, Va.	.973
Salt Lake City, Utah.	1.938	Knoxville, Tenn.	.957
Duluth, Minn.	1.899	Jacksonville, Fla.	.897
Charlotte, N. C.	1.837	Charlotte, N. C.	.864
<b>Population group V (40,000 to 100,000):</b>		<b>Population group V (40,000 to 100,000):</b>	
Charleston, W. Va.	2.217	Phoenix, Ariz.	1.470
Phoenix, Ariz.	2.211	Butte, Mont.	1.453
Butte, Mont.	2.144	Charleston, W. Va.	1.394
El Paso, Tex.	2.098	Manchester, N. H.	1.291
Mobile, Ala.	2.072	Portland, Maine.	1.265
<i>Average for group V</i>	2.041	<i>Average for group V</i>	1.237
Jackson, Miss.	1.970	York, Pa.	1.120
Little Rock, Ark.	1.958	Mobile, Ala.	1.061
Savannah, Ga.	1.956	El Paso, Tex.	.997
Charleston, S. C.	1.952	Jackson, Miss.	.945
Manchester, N. H.	1.917	Little Rock, Ark.	.909
Portland, Maine.	1.807	Savannah, Ga.	.879
York, Pa.	1.770	Charleston, S. C.	.787

<sup>1</sup> Includes Rock Island and Moline, Ill., and Davenport, Iowa.

TABLE 9.—Average union wage rates in the building trades, by region,<sup>1</sup> July 1, 1949

Trade	United States	Region								
		New England	Middle Atlantic	Border States	South-east	Great Lakes	Middle West	South-west	Moun-tain	Pacific
All building trades	\$2.18	\$2.06	\$2.45	\$2.08	\$1.84	\$2.22	\$2.15	\$1.89	\$1.90	\$2.14
Journey-men	2.34	2.20	2.66	2.29	2.03	2.34	2.32	2.12	2.15	2.24
Asbestos workers	2.37	2.40	2.62	2.23	2.10	2.35	2.38	2.25	2.13	2.29
Boilermakers	2.39	2.45	2.63	2.25	2.25	2.37	2.29	2.25	2.32	2.35
Bricklayers	2.74	2.52	3.06	2.84	2.46	2.53	2.70	2.58	2.84	2.77
Carpenters	2.25	2.00	2.62	2.20	1.90	2.32	2.25	1.99	2.03	2.11
Cement finishers	2.27	2.47	2.59	2.10	1.97	2.27	2.33	2.04	2.12	2.16
Electricians (inside wiremen)	2.49	2.34	2.84	2.32	2.21	2.45	2.41	2.29	2.26	2.46
Elevator constructors	2.45	2.36	2.62	2.60	2.34	2.35	2.42	2.36	2.22	2.48
Glaziers	2.14	2.03	2.44	2.10	1.83	2.22	2.22	1.79	1.87	1.97
Lathers	2.54	2.61	2.75	2.50	2.29	2.48	2.35	2.59	2.46	2.41
Machinists	2.39	2.25	2.55	2.28	2.22	2.42	2.36	2.25	2.07	2.38
Marble setters	2.46	2.32	2.62	2.54	2.39	2.35	2.39	2.36	2.37	2.39
Mosaic and terrazzo workers	2.42	2.26	2.66	2.37	2.39	2.30	2.41	2.26	2.58	2.32
Painters	2.19	1.97	2.37	2.00	1.87	2.22	2.16	1.91	2.00	2.18
Paperhangers	2.14	1.75	2.13	1.82	1.98	2.25	2.14	1.84	2.04	2.15
Plasterers	2.67	2.59	3.05	2.62	2.32	2.50	2.55	2.48	2.48	2.63
Plumbers	2.52	2.35	2.81	2.37	2.36	2.42	2.42	2.31	2.30	2.49
Rodmen	2.27	2.36	2.59	2.25	1.97	2.32	2.40	2.00	2.07	2.16
Roofers, composition	2.19	2.24	2.47	1.82	1.67	2.25	2.19	1.78	1.97	2.23
Roofers, slate and tile	2.24	2.30	2.73	2.15	1.79	2.35	1.96	1.77	2.02	2.21
Sheet-metal workers	2.29	2.36	2.58	2.24	1.95	2.22	2.31	2.20	2.06	2.22
Steam and sprinkler fitters	2.46	2.33	2.67	2.30	2.29	2.43	2.42	2.30	2.29	2.46
Stonemasons	2.66	2.56	2.85	2.89	2.47	2.37	2.56	2.59	2.71	2.73
Structural-iron workers	2.42	2.39	2.73	2.48	2.15	2.37	2.32	2.19	2.08	2.32
Tile layers	2.49	2.35	2.66	2.37	2.34	2.38	2.39	2.29	2.48	2.54
Helpers and laborers	1.55	1.56	1.72	1.35	1.00	1.65	1.56	1.13	1.49	1.64
Bricklayers' tenders	1.68	1.56	1.88	1.43	1.02	1.71	1.64	1.31	1.74	1.93
Building laborers	1.47	1.54	1.59	1.32	.95	1.60	1.48	1.06	1.40	1.56
Composition roofers' helpers	1.31	1.68	1.46	1.45	.89	1.44	1.44	1.05		
Elevator constructors' helpers	1.73	1.66	1.88	1.76	1.63	1.65	1.73	1.65	1.54	1.75
Marble setters' helpers	1.60	1.67	1.71	1.70	1.04	1.76	1.57	1.34	1.60	1.81
Plasterers' laborers	1.80	1.69	2.02	1.56	1.14	1.87	1.78	1.29	1.78	2.20
Plumbers' laborers	1.64		1.69	1.39	1.05	1.72	1.74	1.05	1.66	1.74
Terrazzo workers' helpers	1.86	1.66	2.06	1.59	1.05	1.86	1.62	1.25	1.51	1.85
Tile layers' helpers	1.83	1.68	2.02	1.69	1.02	1.77	1.63	1.27	1.67	1.88

<sup>1</sup> The regions referred to in this study include:

New England	Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, and Vermont.
Middle Atlantic	New Jersey, New York, and Pennsylvania.
Border States	Delaware, District of Columbia, Kentucky, Maryland, Virginia, and West Virginia.
Southeast	Alabama, Florida, Georgia, Mississippi, North Carolina, South Carolina, and Tennessee.
Great Lakes	Illinois, Indiana, Michigan, Minnesota, Ohio, and Wisconsin.
Middle West	Iowa, Kansas, Missouri, Nebraska, North Dakota, and South Dakota.
Southwest	Arkansas, Louisiana, Oklahoma, and Texas.
Mountain	Arizona, Colorado, Idaho, Montana, New Mexico, Utah, and Wyoming.
Pacific	California, Nevada, Oregon, and Washington.

TABLE 10.—Indexes of union weekly hours in the building trades, 1907-49

[June 1, 1939=100]

Date	All trades	Jour-ney-men	Helpers and laborers	Date	All trades	Jour-ney-men	Helpers and laborers	Date	All trades	Jour-ney-men	Helpers and laborers
1907: May 15	124.3	123.8	126.1	1921: May 15	115.0	115.1	114.5	1936: May 15	101.5	101.5	101.4
1908: May 15	122.4	122.0	123.5	1922: May 15	115.0	115.2	114.2	1937: May 15	101.9	101.9	101.8
1909: May 15	120.7	120.5	121.0	1923: May 15	115.1	115.3	114.4	1938: June 1	100.2	100.1	100.2
1910: May 15	119.2	119.1	118.8	1924: May 15	115.1	115.3	114.4	1939: June 1	100.0	100.0	100.0
1911: May 15	118.8	118.7	118.6	1925: May 15	115.1	115.3	114.2	1940: June 1	99.9	100.0	99.4
1912: May 15	118.4	118.3	118.3	1926: May 15	114.9	115.1	113.9	1941: June 1	100.3	100.5	99.7
1913: May 15	118.2	118.0	118.3	1927: May 15	114.7	114.8	113.9	1942: July 1	101.1	101.8	98.8
1914: May 15	117.7	117.7	117.5	1928: May 15	114.0	114.0	113.8	1943: July 1	101.0	102.0	98.1
1915: May 15	117.6	117.6	117.6	1929: May 15	113.0	113.3	111.5	1944: July 1	101.2	102.2	98.1
1916: May 15	117.2	117.1	117.2	1930: May 15	109.8	110.0	109.0	1945: July 1	101.2	102.2	98.1
1917: May 15	116.9	116.9	116.7	1931: May 15	108.5	108.5	108.1	1946: July 1	100.2	101.1	97.4
1918: May 15	116.3	116.2	116.3	1932: May 15	106.5	106.6	105.7	1947: July 1	100.1	100.9	97.4
1919: May 15	115.7	115.7	115.2	1933: May 15	106.2	106.2	105.2	1948: July 1	100.1	101.0	97.3
1920: May 15	115.1	115.2	114.5	1934: May 15	102.3	102.3	101.9	1949: July 1	100.2	101.1	97.3
				1935: May 15	101.5	101.5	101.2				

TABLE 11.—Indexes of union weekly hours in each building trade, 1907-49

[June 1, 1939=100]

Date	Asbestos workers	Boiler-makers	Brick-layers	Car-penters	Cement finishers	Electricians (inside wire-men)	Elevator constructors	Glaziers	Lathers	Machinists	Marble setters	Mosaic and terrazzo workers	Painters	Paper-hangers	Plasterers
1907: May 15			122.9	121.0	122.7	124.2					113.0		133.1		125.8
1908: May 15			120.3	119.2	121.6	123.3					113.0		131.0		125.2
1909: May 15			117.8	117.8	122.5	122.5					111.8		129.2		125.2
1910: May 15			115.6	116.4	122.3	121.8					111.6		127.5		125.1
1911: May 15			115.1	115.8	121.1	121.6					111.1		126.7		125.8
1912: May 15			115.1	115.7	121.1	121.2			121.8		111.1		126.6		124.3
1913: May 15			114.9	115.6	119.8	120.7			121.8		111.1		125.9		124.3
1914: May 15			114.4	115.1	119.0	120.3	114.7		121.8		110.9		125.6		124.2
1915: May 15			114.3	115.1	119.0	119.6	114.2		121.2		110.9		125.6		123.6
1916: May 15	115.1		114.0	115.1	117.2	118.6	114.1		121.2		110.7	118.5	124.7		122.3
1917: May 15	114.6		113.7	115.1	115.9	118.1	113.5		120.6		110.6	118.5	124.6		122.2
1918: May 15	114.0		113.7	113.9	115.3	117.3	113.5	118.0	120.6		110.6	114.3	124.0		121.9
1919: May 15	112.8		113.5	113.2	114.4	116.3	112.7	118.0	120.3		110.1	114.3	123.8		121.9
1920: May 15	112.7		113.4	113.3	113.8	116.0	112.6	117.5	119.6		110.1	114.3	120.2		121.6
1921: May 15	113.0		113.4	113.2	113.8	116.0	112.5	118.0	119.3		110.2	114.3	120.3		121.3
1922: May 15	113.0		113.4	113.3	113.7	116.0	112.2	118.1	119.4		110.2	114.3	121.2		121.4
1923: May 15	112.7		113.4	113.7	113.7	116.0	112.3	117.5	119.8		110.2	114.3	120.9		122.0
1924: May 15	112.8		113.3	113.5	113.7	115.9	112.3	117.5	119.6		110.2	114.4	120.8		122.1
1925: May 15	112.8		113.2	113.5	113.4	115.9	112.2	117.1	119.2		110.2	114.3	121.1		121.7
1926: May 15	112.8		113.3	113.5	113.4	115.9	112.2	117.5	118.9		110.2	114.3	120.7		118.2
1927: May 15	112.7		112.7	113.5	113.0	115.9	112.2	117.9	118.3		110.1	113.9	120.2		117.7
1928: May 15	112.7		112.7	112.9	112.4	115.3	112.2	117.4	117.7		110.1	113.9	117.0		116.7
1929: May 15	111.7		109.8	112.9	112.5	112.6	111.7	116.1	117.1		110.1	114.0	116.7		115.6
1930: May 15	107.6		107.1	109.4	108.1	109.9	108.2	112.4	110.4		104.3	107.8	115.4		113.0
1931: May 15	105.0		105.5	107.7	106.9	108.8	106.1	110.4	109.8		102.4	106.7	114.4		112.1
1932: May 15	103.7		103.1	105.0	105.6	106.2	106.1	107.9	109.3		101.3	102.4	114.2		110.1
1933: May 15	102.6		104.2	103.4	107.6	106.2	103.9	107.9	108.8		101.2	103.8	114.0		112.4
1934: May 15	102.5		102.4	102.5	103.7	99.9	103.0	102.3	102.5		100.1	103.7	99.9		107.6
1935: May 15	101.7		102.3	102.0	103.5	95.8	102.7	101.6	102.3		100.1	103.0	99.8		105.9
1936: May 15	102.0		102.3	102.1	103.0	96.2	103.5	102.0	101.3		100.0	101.9	100.2		104.2
1937: May 15	101.7	105.3	103.3	102.9	103.1	100.9	103.2	102.1	102.7	100.7	102.0	102.6	100.2	100.5	104.3
1938: June 1	100.0	100.0	99.9	100.0	100.0	100.3	102.5	100.2	100.8	100.1	100.0	100.0	100.4	99.8	100.0
1939: June 1	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
1940: June 1	99.4	100.0	99.7	100.0	100.2	100.0	99.6	100.0	99.8	100.0	95.5	100.0	100.5	100.3	99.8
1941: June 1	100.0	100.5	99.9	100.6	100.7	100.6	99.3	100.6	100.7	99.8	95.7	100.3	100.7	100.8	100.1
1942: July 1	100.1	100.6	100.8	100.8	100.6	104.6	99.0	102.0	102.5	99.8	95.7	100.3	106.5	108.0	102.0
1943: July 1	100.1	100.6	100.8	100.8	100.6	104.6	99.0	102.0	103.4	99.8	95.7	100.3	106.5	108.0	106.0
1944: July 1	100.1	100.6	100.8	101.1	100.6	104.6	99.0	102.0	103.0	99.8	95.7	100.3	106.8	108.9	106.1
1945: July 1	100.1	100.6	100.8	101.1	100.6	104.6	99.0	102.0	103.6	99.8	95.7	100.3	106.8	108.9	106.1
1946: July 1	101.2	98.6	100.3	100.3	100.4	100.5	99.0	102.0	102.2	99.3	95.7	100.3	106.1	108.7	104.1
1947: July 1	101.2	98.6	99.8	100.2	100.0	100.5	99.0	103.5	102.2	100.1	95.7	99.3	106.2	109.0	103.0
1948: July 1	101.5	100.0	100.5	100.2	100.0	100.5	99.0	103.5	98.1	100.1	95.8	101.0	106.2	109.0	102.9
1949: July 1	101.5	100.0	100.1	100.2	100.0	102.2	99.0	103.5	98.1	100.1	95.8	101.0	106.2	109.0	103.5

TABLE 11.—Indexes of union weekly hours in each building trade, 1907-49—Continued

[June 1, 1939=100]

Date	Plumbers	Rodmen	Roofers, composition	Roofers, slate and tile	Sheet-metal workers	Steam and sprinkler fitters	Stonemasons	Structural-iron workers <sup>1</sup>	Tile layers	Bricklayers' tenders	Building laborers	Composition roofers' helpers	Plasterers' laborers	Plumbers' laborers	Tile-layers' helpers
1907: May 15	120.6				117.0	120.3	118.4	121.3		118.9	121.6		125.7		
1908: May 15	120.7				116.9	120.3	118.4	118.9		118.9	121.6		125.2		
1909: May 15	120.7				116.9	120.0	118.4	117.3		118.5	121.2		124.9		
1910: May 15	120.5				116.9	119.3	116.6	116.0		117.5	118.3		124.9		
1911: May 15	120.2				116.6	119.2	115.8	115.8		116.9	118.3		124.8		
1912: May 15	119.2				115.1	118.4	115.8	114.6	111.5	116.0	118.3		124.2		126.2
1913: May 15	119.2				114.9	118.0	115.7	114.1	113.9	116.0	118.3		124.2		125.6
1914: May 15	118.8		113.2	112.8	114.8	116.5	115.7	113.9	113.9	114.5	117.9		124.3		125.6
1915: May 15	118.8		113.2	112.8	114.6	116.5	115.6	113.9	113.5	114.5	117.9		124.3		123.7
1916: May 15	118.2		113.2	112.4	114.1	116.1	115.4	113.6	112.9	114.5	117.3		123.1		123.3
1917: May 15	118.1		112.4	110.4	114.0	116.0	115.3	113.4	112.6	114.4	116.0		122.9		122.3
1918: May 15	117.1		111.9	110.4	112.8	114.9	115.3	113.0	112.6	114.4	115.5		122.9		122.3
1919: May 15	116.7		111.9	110.1	112.3	114.8	114.6	112.8	112.1	114.0	113.3		122.4		121.9
1920: May 15	116.7		111.9	110.1	111.9	114.7	114.6	112.8	111.8	113.8	112.1		122.4		121.9
1921: May 15	116.5		109.8	110.0	111.9	114.6	114.7	112.8	111.9	113.8	112.1		121.9		122.1
1922: May 15	116.5		109.8	109.9	111.8	114.6	114.6	112.8	111.7	114.0	111.3		121.9		122.1
1923: May 15	116.5		109.8	110.2	111.8	114.6	114.6	112.8	112.0	114.0	111.0		122.0		123.2
1924: May 15	116.5		109.8	109.8	111.8	114.6	114.3	112.8	112.0	113.9	111.8		121.9		123.2
1925: May 15	116.5		109.8	109.8	111.8	114.6	114.3	112.5	112.0	113.8	111.9		121.8		123.2
1926: May 15	116.5		109.8	109.8	111.8	114.4	114.5	112.8	112.0	113.9	112.1		117.8		123.2
1927: May 15	116.2		109.8	109.8	111.4	114.2	114.3	112.8	111.9	113.9	112.3		117.7		123.2
1928: May 15	116.2		109.7	109.8	111.1	114.2	114.2	112.7	111.6	113.9	112.2		118.0		123.2
1929: May 15	115.2		109.2	108.5	111.0	113.6	110.9	112.2	111.4	107.6	112.1		117.9		122.6
1930: May 15	109.9		104.9	103.8	106.9	105.5	107.1	108.8	105.6	106.9	110.0		114.9		114.7
1931: May 15	108.4		103.6	102.1	105.1	107.4	105.2	107.5	104.2	106.3	108.7		113.9		113.5
1932: May 15	108.0		102.5	102.1	103.6	106.4	104.8	104.8	103.1	104.0	104.9		113.6		112.0
1933: May 15	107.5		103.8	102.1	103.5	105.8	104.0	104.5	102.9	103.4	104.5		111.7		112.1
1934: May 15	106.5		101.1	101.7	102.0	105.1	103.5	103.0	96.0	101.5	99.9		108.3		107.4
1935: May 15	105.8		101.0	100.4	102.1	104.8	103.4	101.8	96.0	101.4	99.8		107.0		93.5
1936: May 15	104.4		101.6	101.3	102.0	105.0	103.4	101.7	95.9	101.2	100.3		105.2		93.5
1937: May 15	105.0	100.1	101.7	101.2	102.1	105.1	103.4	101.2	100.0	101.5	100.6	100.0	105.2		100.0
1938: June 1	99.7	100.1	99.9	100.0	100.0	99.6	100.0	100.1	100.0	100.3	100.1	100.0	100.3	100.0	100.0
1939: June 1	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
1940: June 1	99.0	100.0	99.6	99.9	100.0	100.0	99.9	100.0	100.0	99.9	99.4	99.7	99.6	96.9	100.0
1941: June 1	99.4	100.9	100.3	99.9	100.8	100.6	100.0	100.4	100.4	99.8	99.7	100.3	100.0	96.9	100.4
1942: July 1	99.9	101.9	100.4	101.3	100.9	102.2	103.2	101.1	101.7	98.6	98.8	100.6	100.1	96.6	100.4
1943: July 1	101.8	101.0	100.3	101.1	100.9	102.2	100.2	101.1	100.7	98.4	97.4	100.1	100.7	99.8	100.4
1944: July 1	101.8	101.0	100.2	101.1	100.9	102.2	100.2	101.1	100.7	98.4	97.4	100.1	100.7	99.7	100.4
1945: July 1	101.8	101.0	100.2	101.1	100.9	102.2	100.2	101.1	100.7	98.4	97.4	100.1	100.7	99.7	100.4
1946: July 1	98.3	100.4	99.9	101.1	100.8	101.3	100.0	101.1	100.7	96.9	97.2	100.1	100.0	96.9	100.4
1947: July 1	97.3	99.8	99.9	101.1	100.1	101.3	99.3	101.1	100.7	96.4	97.2	100.1	99.2	96.9	100.4
1948: July 1	97.6	99.8	99.9	101.1	100.1	101.3	101.0	101.1	100.7	96.4	97.2	100.1	97.9	96.9	100.4
1949: July 1	97.6	99.8	98.7	101.1	99.9	101.3	100.8	101.1	100.7	96.4	97.2	100.1	97.9	96.9	100.4

<sup>1</sup> Included rodmen prior to 1940.

TABLE 12.—Distribution of union members in the building trades, by straight-time weekly hours, July 1, 1949

Trade	Average hours per week	Percent of union members having workweeks of—				Trade	Average hours per week	Percent of union members having workweeks of—							
		30 hours	35 hours	40 hours	Over 40 hours			30 hours	35 hours	40 hours	Over 40 hours				
All building trades	39.2	1.7	11.8	86.5	( <sup>1</sup> )	Journeyman—Continued									
Journeyman	39.2	1.7	12.5	85.8	( <sup>1</sup> )	Roofers, composition	39.5		11.1						88.6
Asbestos workers	39.5		9.2	90.8		Roofers, slate and tile	40.0								100.0
Boilermakers	40.0			100.0		Sheet-metal workers	39.5			10.9					89.1
Bricklayers	38.7	1.1	23.4	75.5		Steam and sprinkler fitters	39.4	( <sup>1</sup> )		11.8					88.2
Carpenters	39.3	.2	13.4	86.4		Stonemasons	39.2		.8	13.9					86.3
Cement finishers	39.5	( <sup>1</sup> )	9.2	90.8		Structural-iron workers	39.9			3.0					97.0
Electricians (inside wiremen)	39.3	.1	13.0	86.9		Tile layers	40.0								100.0
Elevator constructors	40.0			100.0		Helpers and laborers	39.4	1.7		9.2					89.0
Glaziers	39.4		11.4	88.6		Bricklayers' tenders	38.6	.1	28.6						71.3
Lathers	37.1	20.4	16.8	62.8		Building laborers	39.7		6.1						93.7
Machinists	40.0			100.0		Composition roofers' helpers	39.8		4.8						95.2
Marble setters	40.0			100.0		Elevator constructors' helpers	40.0								100.0
Mosaic and terrazzo workers	40.0			100.0		Marble setters' helpers	40.0	.3							99.7
Painters	39.0	.1	20.4	79.5		Plasterers' laborers	37.7	22.1	2.1						75.8
Paperhangers	39.9		2.2	97.4	0.4	Plumbers' laborers	40.0								100.0
Plasterers	36.8	31.3	1.5	67.2		Terrazzo workers' helpers	40.0	.1							99.9
Plumbers	38.7	12.9	.5	86.6		Tile layers' helpers	40.0	.1							99.9
Rodmen	39.8		4.7	95.3											

<sup>1</sup> Less than 0.05 of 1 percent.

868451—50—3

TABLE 13.—Percent of union members affected by changes in straight-time weekly hours, by trade, July 1, 1949, compared with July 1, 1948

Trade	Percent of union members affected by—			Trade	Percent of union members affected by—		
	No change	Increase	Decrease		No change	Increase	Decrease
All building trades.....	99.0	0.8	0.2	Journeymen—Continued			
Journeymen.....	98.7	1.0	.3	Roofers, composition.....	90.0		10.0
Asbestos workers.....	100.0			Roofers, slate and tile.....	100.0		
Boilermakers.....	100.0			Sheet-metal workers.....	98.0		2.0
Bricklayers.....	98.0		2.0	Steam and sprinkler fitters.....	100.0		
Carpenters.....	100.0			Stonemasons.....	99.0		1.0
Cement finishers.....	100.0			Structural-iron workers.....	100.0		
Electricians (inside wiremen).....	87.0	13.0		Tile layers.....	100.0		
Elevator constructors.....	100.0			Helpers and laborers:			
Glaziers.....	100.0			Bricklayers' tenders.....	100.0		
Lathers.....	100.0			Building laborers.....	100.0		
Machinists.....	100.0			Composition roofers' helpers.....	100.0		
Marble setters.....	100.0			Elevator constructors' helpers.....	100.0		
Mosaic and terrazzo workers.....	100.0			Marble setters' helpers.....	100.0		
Painters.....	100.0			Plasterers' laborers.....	100.0		
Paperhangers.....	100.0			Plumbers' laborers.....	100.0		
Plasterers.....	98.0	2.0		Terrazzo workers' helpers.....	100.0		
Plumbers.....	100.0			Tile layers' helpers.....	100.0		
Rodmen.....	100.0						

## Union Scales by City and Trade

In table 14, union scales of wages and hours in

effect on July 1, 1948, and July 1, 1949, are shown for individual trades in each of the 77 cities included in the study.

TABLE 14.—Union scales of wages and hours for building trades in 77 cities, July 1, 1948, and July 1, 1949  
[Hours are 40 per week for both years unless otherwise indicated]

Trade or occupation	Rate per hour		Trade or occupation	Rate per hour		Trade or occupation	Rate per hour	
	July 1, 1948	July 1, 1949		July 1, 1948	July 1, 1949		July 1, 1948	July 1, 1949
<b>ATLANTA, GA.</b>			<b>ATLANTA, GA.—Continued</b>			<b>BALTIMORE, MD.—Con.</b>		
<i>Journeymen</i>			<i>Journeymen—Continued</i>			<i>Journeymen—Continued</i>		
Asbestos workers.....	\$1.875	\$2.125	Paperhangers.....	\$2.000	\$2.000	Engineers—Power equipment operators—Continued		
Boilermakers.....	2.000	2.250	Plasterers.....	2.250	2.250	Building construction—Con.		
Bricklayers.....	2.250	2.500	Plumbers.....	2.500	2.500	Medium equipment:		
Carpenters.....	1.775	1.775	Rodmen.....	1.750	1.875	Temporary elevators, concrete pumps, single-drum hoists.....	\$1.750	\$1.875
Millwrights and pile drivers.....	1.900	1.900	Roofers, composition.....	1.500	1.500	Light equipment:		
Cement finishers.....	2.100	2.100	Roofers, slate and tile.....	1.500	1.500	Compressors, pumps.....	1.750	1.875
Electricians (inside wiremen).....	2.000	2.250	Sheet-metal workers.....	1.850	1.850	Bulldozers.....	1.575	1.700
Elevator constructors.....	2.000	2.325	Sign painters.....	2.000	2.000	Heavy construction:		
Engineers—Power equipment operators:			Steam fitters.....	2.500	2.500	Heavy equipment:		
Air compressors:			Stonemasons.....	2.250	2.500	Whirlies, derricks, cranes, shovels, pile drivers.....	2.200	2.400
Portable.....	1.400	1.400	Structural- and ornamental-iron workers.....	2.000	2.125	Medium equipment:		
Stationary.....	1.500	1.500	Tile layers.....	2.250	2.500	Hoists (single drum), compressors, pumps.....	1.750	1.875
Bulldozers:						Light equipment:		
Under 40 horsepower.....	1.400	1.500				Tractors with attachment.....	1.575	1.700
40 horsepower and over.....	1.500	1.600				Glaziers.....	1.925	2.050
Cranes and derricks.....	2.000	2.000				Lathers.....	2.250	2.250
Draglines.....	1.800	2.000				Machinists.....	2.250	2.250
Graders, elevating.....	1.800	2.000				Marble setters.....	2.250	2.500
Hoists:						Mosaic and terrazzo workers.....	2.250	2.250
1 drum.....	1.500	1.750				Painters.....	1.775	1.775
2 drums.....	1.750	1.750				Structural steel.....	1.900	1.900
Locomotives.....	1.675	1.675				Paperhangers.....	1.775	1.775
Mixers:						Plasterers.....	2.250	2.250
Under 10S.....	1.400	1.500				Plumbers.....	2.250	2.250
10S and over.....	1.675	1.675				Rodmen.....	2.100	2.350
Pumps.....	1.400	1.400				Roofers, composition.....	1.650	1.850
Rollers.....	1.400	1.500				Roofers, slate and tile.....	1.900	2.150
Scrapers.....	1.500	1.500				Sheeters and precast slabmen.....	2.000	2.250
Shovels.....	1.800	2.000				Sheet-metal workers.....	2.250	2.250
Tractors:						Sign painters.....	2.000	2.000
40 horsepower and under.....	1.400	1.400				Steam fitters.....	2.250	2.250
Over 40 horsepower.....	1.500	1.500				Stonemasons.....	2.500	3.000
Toumapulls.....	1.800	2.000				Structural-iron workers.....	2.400	2.650
Trenching machines.....	1.800	2.000				Tile layers.....	2.250	2.250
Glaziers.....	1.750	1.750						
Lathers.....	2.000	2.250						
Machinists.....	2.125	2.125						
Marble setters.....	2.250	2.500						
Mosaic and terrazzo workers.....	2.250	2.500						
Painters.....	1.750	1.750						
Structural steel and swinging stage.....	2.000	2.000						

TABLE 14.—Union scales of wages and hours for building trades in 77 cities, July 1, 1948, and July 1, 1949—Continued  
 [Hours are 40 per week for both years unless otherwise indicated]

Trade or occupation	Rate per hour		Trade or occupation	Rate per hour		Trade or occupation	Rate per hour	
	July 1, 1948	July 1, 1949		July 1, 1948	July 1, 1949		July 1, 1948	July 1, 1949
<b>BALTIMORE, MD.—Con.</b>			<b>BOSTON, MASS.—Continued</b>			<b>BUFFALO, N. Y.—Continued</b>		
<i>Helpers and laborers</i>			<i>Journeyman—Continued</i>			<i>Journeyman—Continued</i>		
Bricklayers' tenders	\$1.350	\$1.350	Carpenters	\$2.100	\$2.250	Electricians (inside wiremen)	\$2.365	\$2.400
Building laborers	1.250	1.250	Cement finishers	2.500	2.625	Elevator constructors	2.415	2.415
Elevator constructors' helpers	1.530	1.700	Electricians (inside wiremen)	2.300	2.500	Engineers—Power equipment operators:		
Marble setters' helpers	1.500	1.500	Elevator constructors	2.170	2.400	Building construction:		
Plasterers' laborers	1.350	1.350	Engineers—Power equipment operators:			Heavy equipment:		
Hod carriers	1.500	1.550	Building construction:			Shovels, cranes, derricks	2.400	2.400
Plumbers' laborers	1.250	1.250	Heavy equipment:			Medium equipment:		
Terrazzo workers' helpers	1.500	1.500	Power shovels, pile drivers, hoisting engines	2.450	2.600	Hoists, cranes, trenching machines	2.275	2.275
Tile layers' helpers	1.500	1.500	Medium equipment:			Light equipment:		
<b>BIRMINGHAM, ALA.</b>			Bulldozers, concrete mixers, steamboilers	2.075	2.225	Compressors, mechanical heaters	2.025	2.025
<i>Journeyman</i>			Light equipment:			Pumps	2.150	2.150
Asbestos workers	1.900	2.050	Pumps, compressors, welding machines	2.000	2.150	Heavy construction:		
Bricklayers	2.250	2.500	Heavy construction:			Heavy equipment:		
Carpenters	1.800	1.900	Heavy equipment:			Shovels, cranes, backhoes	2.400	2.400
Millwrights	1.925	2.025	Power shovels, pile drivers, lighters	2.375	2.600	Medium equipment:		
Cement finishers	2.075	2.075	Medium equipment:			Graders, carry-alls, trenching machines	2.275	2.275
Electricians (inside wiremen)	2.250	2.250	Concrete mixers, steam boilers, bulldozers	2.000	2.225	Light equipment:		
Elevator constructors	2.030	2.255	Light equipment:			Compressors, heating boilers	2.025	2.025
Engineers—Power equipment operators:			Pumps, compressors, welding machines	2.000	2.150	Pavers	2.400	2.400
Air compressors	1.625	1.750	Glaziers	2.000	2.100	Glaziers	1.900	2.100
Bulldozers	1.775	1.900	Granite cutters	2.000	2.500	Lathers	2.400	2.400
Cranes, derricks, and draglines	2.000	2.125	Lathers	2.500	2.700	Marble setters	2.350	2.350
Graders:			Machinists	2.250	2.250	Mosaic and terrazzo workers	2.375	2.375
Blade	1.725	1.850	Marble setters	2.250	2.375	Painters	2.125	2.125
Motor	1.875	2.000	Mosaic and terrazzo workers	2.250	2.375	Paperhangers	2.125	2.125
Hoists:			Painters	2.000	2.100	Plasterers	2.400	2.400
1 drum	1.750	1.875	Plasterers	2.500	2.700	Plumbers	2.400	2.400
2 drums	2.000	2.125	Plumbers	2.300	2.450	Rodmen	2.400	2.400
Mixers:			Rodmen	2.400	2.400	Roofers, composition	2.150	2.150
Under 5 bags	1.625	1.750	Roofers, composition	2.150	2.300	Roofers, slate and tile	2.300	2.300
5 bags and over	2.000	2.125	Roofers, slate and tile	2.150	2.300	Sheet-metal workers	2.250	2.250
Pumps	1.625	1.750	Sheet-metal workers	2.150	2.450	Sign painters	2.125	2.175
Rollers	1.750	1.875	Sign painters	1.775	1.775	Pictorial	2.240	2.290
Scrapers	2.000	2.125	Letterers	1.900	1.900	Steam and sprinkler fitters	2.400	2.400
Shovels	2.000	2.125	Pictorial	2.100	2.100	Stonecutters (curb)	2.100	2.250
Tractors	1.750	1.875	Steam fitters	2.300	2.450	Building, fitting, and cutting	2.350	2.360
Trenching machines	2.000	2.125	Sprinkler fitters	2.150	2.300	Stonemasons	2.500	2.500
Glaziers	1.800	1.875	Stone cutters:			Structural-iron workers	2.400	2.400
Lathers	2.000	2.000	Inside	2.050	2.125	Tile layers	2.375	2.375
Mosaic and terrazzo workers	2.000	2.000	Outside	2.500	2.625	<i>Helpers and laborers</i>		
Painters	2.000	2.000	Carvers:			Bricklayers' tenders	1.650	1.650
Spray	2.000	2.000	Inside	2.300	2.375	Building laborers	1.650	1.650
Structural steel, stage and swing stage	2.125	2.250	Outside	2.750	2.875	Elevator constructors' helpers	1.690	1.690
Paperhangers	2.000	2.000	Artificial stone patchers:			Marble setters' helpers	1.675	1.675
Plasterers	2.200	2.300	Inside	1.825	1.900	Plasterers' laborers	1.750	1.750
Plumbers	2.250	2.250	Outside	2.500	2.625	Mortar mixers	1.800	1.800
Rodmen	1.825	1.950	Stonemasons	2.500	2.625	Sprinkler fitters' helpers	1.500	1.500
Rodmen, composition	1.550	1.600	Structural-iron workers	2.400	2.400	Terrazzo workers' helpers	1.675	1.675
Roofers, slate and tile	1.710	1.750	Tile layers	2.250	2.375	Terrazzo grinders	1.750	1.750
Sheet-metal workers	1.900	2.000	<i>Helpers and laborers</i>			Tile layers' helpers	1.675	1.675
Sign painters	2.000	2.000	Bricklayers' tenders	1.550	1.650	<b>BUTTE, MONT.</b>		
Steam fitters	2.250	2.250	Building laborers	1.550	1.650	<i>Journeyman</i>		
Stonemasons	2.250	2.500	Composition roofers' helpers	1.550	1.675	Asbestos workers	\$2.500	\$2.500
Structural and ornamental-iron workers	2.075	2.200	Elevator constructors' helpers	1.520	1.680	Bricklayers	\$2.100	\$2.100
Sheeters	2.325	2.450	Marble setters' helpers	1.650	1.750	Carpenters	\$2.000	\$2.125
Tile layers	2.000	2.000	Plasterers' laborers	1.700	1.800	Cement finishers	\$2.500	\$2.500
<i>Helpers and laborers</i>			Sprinkler fitters' helpers	1.500	1.500	Electricians (inside wiremen)	\$2.250	\$2.417
Bricklayers' tenders	.950	1.000	Terrazzo workers' helpers	1.700	1.825	Elevator constructors	2.220	2.220
Mortar mixers	1.050	1.100	Tile layers' helpers	1.650	1.750	Engineers—Power equipment operators:		
Building laborers	.950	1.000	<b>BUFFALO, N. Y.</b>			Building construction:		
Elevator constructors' helpers	1.420	1.580	<i>Journeyman</i>			Heavy equipment:		
Marble setters' helpers	1.050	1.100	Asbestos workers	2.400	2.400	Shovels—under 1 yard	(1)	2.000
Plasterers' laborers	1.000	1.050	Boilermakers	2.400	2.400	Shovels—1 yard to and including 4 yards	(1)	2.150
Plumbers' laborers	1.050	1.100	Bricklayers	2.500	2.500	Tractors	(1)	2.000
Terrazzo workers' helpers	1.050	1.050	Carpenters	2.250	2.250	Medium equipment:		
Tile layers' helpers	1.050	1.050	Millwrights	2.350	2.350	Hoists—single drum	(1)	1.800
<b>BOSTON, MASS.</b>			Cement finishers	2.230	2.230	Hoists—2 or more drums	(1)	2.000
<i>Journeyman</i>			Swing scaffold	2.500	2.500			
Asbestos workers	2.150	2.450	Machine operators	2.400	2.400			
Boilermakers	2.250	2.450	Swing scaffold	2.650	2.650			
Bricklayers	2.500	2.625						

<sup>1</sup> Information not available for rate and hours on July 1, 1948. <sup>2</sup> 30-hour workweek.

TABLE 14.—Union scales of wages and hours for building trades in 77 cities, July 1, 1948, and July 1, 1949—Continued

[Hours are 40 per week for both years unless otherwise indicated]

Trade or occupation	Rate per hour		Trade or occupation	Rate per hour		Trade or occupation	Rate per hour	
	July 1, 1948	July 1, 1949		July 1, 1948	July 1, 1949		July 1, 1948	July 1, 1949
<b>BUTTE, MONT.—Continued</b>			<b>CHARLESTON, S. C.—Con.</b>			<b>CHARLESTON, W. VA.—Con.</b>		
<i>Journeyman—Continued</i>			<i>Journeyman—Continued</i>			<i>Helpers and Laborers—Continued</i>		
Engineers, power equipment operators—Continued			Structural- and ornamental-iron workers	\$2.000	\$2.000	Plasterers' laborers	\$1.450	\$1.500
Building construction—Con.			Buckers-up	2.125	2.125	Plumbers' laborers	1.300	1.350
Heavy equipment—Con.			Sheeters	2.250	2.250	<b>CHARLOTTE, N. C.</b>		
Air compressors—single	( <sup>1</sup> )	\$1.600	<i>Helpers and laborers</i>			<i>Journeyman</i>		
Air compressors—2 or more	( <sup>1</sup> )	1.750	Bricklayers' tenders	.850	.850	Asbestos workers	1.875	2.050
Mixers concrete—4 bags or over	( <sup>1</sup> )	1.850	Building laborers	.750	.750	Boilermakers	2.000	2.250
Light equipment:			Elevator constructors' helpers	1.330	1.505	Bricklayers	2.000	2.250
Mixers, concrete—3 bags or under	( <sup>1</sup> )	1.650	Plasterers' laborers	.850	.850	Carpenters	1.500	1.650
Scoopmobiles and similar type loaders	( <sup>1</sup> )	1.750	<b>CHARLESTON, W. VA.</b>			Millwrights	2.000	2.000
A-frame truck cranes	( <sup>1</sup> )	1.800	<i>Journeyman</i>			Cement finishers	1.600	1.600
Heavy construction:			Asbestos workers	2.250	2.250	Electricians (inside wiremen)	1.650	1.850
Heavy equipment:			Boilermakers	2.250	2.250	Engineers—Power-equipment operators:		
Shovels—under 1 yard	( <sup>1</sup> )	2.000	Bricklayers	2.500	2.500	Air compressors	1.625	1.625
Shovels—1 yard to and including 4 yards	( <sup>1</sup> )	2.150	Carpenters	2.125	2.125	Bulldozers	1.750	1.750
Cat tractors; all types	( <sup>1</sup> )	2.000	Millwrights	2.250	2.250	Cranes, derricks, and draglines	1.875	1.875
Medium equipment:			Pile drivers	2.125	2.125	Graders, motor	1.750	1.750
Crushers	( <sup>1</sup> )	2.000	Cement finishers	2.000	2.000	Hoists:		
File drivers	( <sup>1</sup> )	2.000	Electricians (inside wiremen) and fixture hangers	2.250	2.300	1 drum	1.625	1.625
Light equipment:			Elevator constructors	2.300	2.335	2 or more drums	1.875	1.875
Air compressors—single	( <sup>1</sup> )	1.600	Engineers—Power equipment operators:			Locomotive	1.625	1.625
Air compressors—2 or more	( <sup>1</sup> )	1.750	Building construction:			Mixers, larger than 105	1.625	1.625
Loaders (Barber Green and similar types)	( <sup>1</sup> )	1.700	Heavy equipment:			Pumps, over 2 inches	1.625	1.625
Glaziers	\$1.625	\$1.688	Cranes	2.250	2.250	Rollers:		
Lathers	*2.500	*2.500	Derricks	2.250	2.250	Asphalt	1.750	1.750
Marble setters	*2.100	*2.100	Shovels	2.250	2.250	Earth	1.625	1.625
Mosaic and terrazzo workers	*2.100	*2.100	Medium equipment:			Scrapers	1.875	1.875
Painters	*2.000	*2.143	Cranes	2.250	2.250	Shovels	1.875	1.875
Paperhangers	*2.000	*2.143	Derricks	2.250	2.250	Tournapulls	1.875	1.875
Plasterers	*2.500	*2.500	Shovels	2.250	2.250	Tractors:		
Plumbers	*2.417	*2.417	Light equipment:			With attachments	1.875	1.875
Rodmen	2.060	2.060	Compressors	2.250	2.250	Without attachments	1.625	1.625
Roofers, composition	*1.650	*1.650	Hoists	2.250	2.250	Trenching machines	1.875	1.875
Sheet-metal workers	2.125	2.125	Welding machines	2.250	2.250	Glaziers	1.500	1.650
Steam fitters	*2.417	*2.417	Heavy construction:			Lathers	2.000	2.250
Stonemasons	*2.100	*2.100	Heavy equipment:			Marble setters	2.000	2.000
Structural-iron workers	2.060	2.060	Cranes	2.250	2.250	Mosaic and terrazzo workers	2.000	2.000
Tile layers	*2.100	*2.100	Draglines	2.250	2.250	Painters	1.500	1.650
<i>Helpers and laborers</i>			Shovels	2.250	2.250	Spray	1.875	2.000
Bricklayers' tenders	( <sup>1</sup> )	*1.750	Medium equipment:			Structural steel and stage work	1.750	1.900
Building laborers	*1.375	*1.375	Cranes	2.250	2.250	Paperhangers	1.750	1.900
Elevator constructors' helpers	1.550	1.550	Draglines	2.250	2.250	Plasterers	1.825	2.250
Marble setters' helpers	*1.650	*1.750	Shovels	2.250	2.250	Plumbers	2.125	2.125
Plasterers' laborers	*1.650	*1.750	Light equipment:			Rodmen	1.750	1.750
Terrazzo workers' helpers	*1.750	*1.750	Bulldozers	1.800	1.800	Sheet-metal workers	1.800	1.800
Tile layers' helpers	*1.750	*1.750	LeTourneaus	1.800	1.800	Steam fitters	2.125	2.125
<b>CHARLESTON, S. C.</b>			Scoops	1.900	2.000	Stonemasons	2.000	2.250
<i>Journeyman</i>			Glaziers	1.900	2.000	Structural- and ornamental-iron workers	2.000	2.000
Asbestos workers	2.000	2.125	Lathers (wood, wire, and metal)	2.125	2.125	Tile layers	2.000	2.000
Boilermakers	2.000	2.250	Marble setters	2.300	2.300	<i>Helpers and laborers</i>		
Bricklayers	2.250	2.250	Mosaic and terrazzo workers	2.300	2.300	Bricklayers' tenders	.850	.925
Carpenters	1.500	1.750	Painters	2.000	2.000	Building laborers	.750	.825
Millwrights	1.750	2.000	Spray	2.250	2.375	Plasterers' laborers	.850	.925
Cement finishers	2.000	2.000	Structural steel	2.250	2.250	<b>CHATTANOOGA, TENN.</b>		
Electricians (inside wiremen):			Paperhangers	2.000	2.000	<i>Journeyman</i>		
Commercial	2.000	2.000	Plasterers	2.250	2.250	Boilermakers	2.000	2.250
Residential	1.500	1.500	Plumbers	2.250	2.375	Bricklayers	2.300	2.500
Elevator constructors	1.900	2.150	Rodmen	2.250	2.375	Carpenters:		
Glaziers	1.500	1.500	Roofers, composition	1.750	1.750	Commercial	1.900	1.900
Painters	1.500	1.500	Roofers, slate and tile	2.050	2.050	Residential	1.750	1.750
Spray	1.625	1.625	Sheet-metal workers	2.125	2.125	Cement finishers	1.850	1.850
Structural steel and swinging stage	2.000	2.000	Sign painters	2.125	2.125	Electricians (inside wiremen)	2.000	2.125
Paperhangers	1.500	1.500	Steam fitters (pipe fitters)	2.250	2.250	Elevator constructors	2.160	2.160
Plasterers	2.250	2.250	Stonemasons	2.500	2.500	Engineers—Power equipment operators:		
Plumbers	2.250	2.250	Structural-iron workers	2.250	2.375	Air compressors:		
Rodmen	1.750	1.750	Finishers	2.250	2.375	1-portable	1.300	1.300
Sheet-metal workers	1.650	1.750	Sheeters	2.250	2.500	2-not more than 3 portable	1.600	1.600
Sign painters	1.500	1.500	Tile layers	2.300	2.300	Bulldozers	1.800	1.800
Steam fitters	2.250	2.250	<i>Helpers and laborers</i>			Cranes, derricks, and draglines	2.000	2.000
			Bricklayers' tenders	1.450	1.500	Graders	1.800	1.800
			On mortar box	1.450	1.500	Hoists:		
			Building laborers	1.300	1.350	1 drum	1.600	1.600
			Elevator constructors' helpers	1.610	1.635	2 drums	1.800	1.800

<sup>1</sup> Information not available for rate and hours on July 1, 1948.<sup>3</sup> 30-hour workweek.<sup>35</sup> 35-hour workweek.<sup>48</sup> 48-hour workweek.



TABLE 14.—Union scales of wages and hours for building trades in 77 cities, July 1, 1948, and July 1, 1949—Continued

[Hours are 40 per week for both years unless otherwise indicated]

Trade or occupation	Rate per hour		Trade or occupation	Rate per hour		Trade or occupation	Rate per hour	
	July 1, 1948	July 1, 1949		July 1, 1948	July 1, 1949		July 1, 1948	July 1, 1949
<b>CHATTANOOGA, TENN.—Continued</b>			<b>CHICAGO, ILL.—Continued</b>			<b>CINCINNATI, OHIO—Con.</b>		
<i>Journeyman—Continued</i>			<i>Journeyman—Continued</i>			<i>Journeyman—Continued</i>		
Engineers—Power equipment operators—Continued			Engineers—Power equipment operators—Continued			Glaziers.....	\$2.050	\$2.300
Locomotives:			Heavy construction—Con.			Lathers, wood and metal.....	2.250	2.325
Under 20 tons.....	\$1.600	\$1.600	Medium equipment:			Machinists.....	1.950	2.350
20 tons and over.....	1.800	1.800	Cranes.....	\$2.150	\$2.350	Marble setters.....	2.500	2.575
Mixers (over 2 bags—not to include central plants)	1.600	1.600	Derricks.....	2.150	2.350	Mosaic and terrazzo workers.....	2.300	2.400
Pumps:			Hoists.....	2.150	2.350	Painters.....	2.000	2.100
1 pump.....	1.300	1.300	Light equipment:			Fresco.....	2.000	2.100
2 not more than 3.....	1.600	1.600	Bulldozers.....	1.850	2.050	Paperhangers.....	2.000	2.100
Rollers.....	1.600	1.600	Le Tourneau scoops.....	2.200	2.200	Plasterers.....	2.375	2.425
Scrapers, pans, scoops, or carryalls (all types)	1.800	1.800	Power blades.....	2.075	2.275	Plumbers.....	2.350	2.400
Shovels.....	2.000	2.000	Glaziers.....	2.450	2.550	Rodmen.....	2.200	2.275
Tournapull (machines over 20 yards)	2.000	2.000	Granite cutters.....	2.375	2.445	Roofers, composition.....	2.000	2.050
Tractors.....	1.600	1.600	Lathers (wood, wire, and metal).....	2.400	2.550	Roofers, slate and tile.....	2.125	2.200
Trenching machines.....	1.800	1.800	Machinists.....	2.350	2.500	Precast slab.....	2.225	2.300
Glaziers.....	1.750	1.750	Marble setters.....	2.350	2.450	Sheet-metal workers.....	2.125	2.200
Lathers.....	1.900	2.000	Mosaic and terrazzo workers.....	2.350	2.450	Sign painters.....	2.100	2.200
Marble setters.....	2.300	2.500	Painters.....	2.150	2.375	Steam fitters.....	2.350	2.400
Mosaic and terrazzo workers.....	2.300	2.500	Paperhangers.....	2.150	2.375	Pipe fitters.....	2.350	2.400
Painters.....	1.750	1.750	Plasterers.....	2.400	2.550	Stonemasons.....	2.500	2.575
Spray.....	2.750	2.750	Plumbers.....	2.350	2.450	Structural-iron workers:		
Structural steel erected, swinging scaffold, scaffold over 30 feet.....	2.000	2.000	Rodmen.....	2.400	2.500	Bridge, structural and ornamental.....	2.350	2.425
Structural steel on ground.....	1.750	1.750	Roofers, composition.....	2.400	2.500	Finishers.....	2.350	2.425
Paperhangers.....	2.000	2.000	Roofers, slate and tile.....	2.400	2.500	Tile layers.....	2.340	2.400
Plasterers.....	2.250	2.250	Sign painters.....	2.500	2.500			
Plumbers.....	2.250	2.250	Steam fitters.....	2.350	2.500	<i>Helpers and laborers</i>		
Rodmen.....	2.000	2.100	Sprinkler fitters.....	2.150	2.500	Bricklayers' tenders.....	1.660	1.735
Roofers, composition.....	1.850	1.850	Stonemasons.....	2.400	2.550	Hod carriers.....	1.660	1.735
Roofers, slate and tile.....	2.000	2.250	Structural-iron workers (erectors).....	2.400	2.500	Building laborers.....	1.460	1.535
Sheet-metal workers.....	2.000	2.000	Ornamental-iron finishers.....	2.350	2.450	Elevator constructors' helpers.....	1.670	1.720
Sign painters.....	1.750	1.750	Tile layers.....	2.350	2.500	Marble setters' helpers.....	1.750	1.825
Steam fitters.....	2.250	2.250	<i>Helpers and laborers</i>			Marble polishers.....	1.900	1.975
Stonemasons.....	2.300	2.500	Bricklayers' tenders.....	1.700	1.800	Floor grinders.....	1.900	1.975
Structural and ornamental-iron workers.....	2.000	2.100	Building laborers.....	1.700	1.800	Plasterers' laborers.....	1.660	1.735
Riggers.....	2.000	2.100	Elevator constructors' helpers.....	1.665	1.665	Plumbers' laborers.....	1.515	1.625
Tile layers.....	2.300	2.500	Marble setters' helpers.....	1.700	1.800	Terrazzo workers' helpers.....	1.750	1.775
			Plasterers' laborers.....	1.825	1.925	Base grinders.....	2.050	2.110
			Terrazzo workers' helpers.....	1.900	2.000	Tile layers' helpers.....	1.615	1.675
			Base-machine operators.....	2.125	2.225			
			Tile layers' helpers.....	1.650	1.800	<b>CLEVELAND, OHIO</b>		
						<i>Journeyman</i>		
			<b>CINCINNATI, OHIO</b>			Asbestos workers.....	2.250	2.400
			<i>Journeyman</i>			Boilermakers.....	2.300	2.300
			Asbestos workers.....	2.200	2.325	Bricklayers.....	2.375	2.575
			Boilermakers.....	2.150	2.250	Caisson and sewer.....	2.625	2.825
			Bricklayers.....	2.500	2.575	Carpenters.....	2.375	2.525
			Carpenters.....	2.200	2.250	Millwrights.....	2.375	2.525
			Millwrights.....	2.250	2.250	File drivers.....	2.375	2.525
			Parquet floor layers.....	2.200	2.200	Floor layers and scrapers.....	2.375	2.525
			Wharf and bridge.....	2.200	2.200	Cement finishers.....	2.250	2.250
			Cement finishers.....	2.100	2.150	Swing scaffold.....	2.375	2.375
			Electricians (inside wiremen).....	2.375	2.450	Electricians (inside wiremen).....	2.375	2.525
			Elevator constructors.....	2.390	2.460	Elevator constructors.....	2.375	2.375
			Engineers—Power equipment operators:			Engineers—Power equipment operators:		
			Building construction:			Building construction:		
			Heavy equipment:			Heavy equipment:		
			Cranes.....	2.250	2.250	Cranes (all types).....	2.375	2.525
			Derricks.....	2.250	2.250	Power shovels.....	2.375	2.525
			Power shovels.....	2.250	2.250	Derricks.....	2.375	2.525
			Medium equipment:			Medium equipment:		
			Power graders.....	2.000	2.000	Power graders.....	2.125	2.275
			Rollers.....	1.875	1.875	Rollers.....	2.000	2.150
			Trenching machines.....	2.000	2.000	Trench machines.....	2.125	2.275
			Light equipment:			Light equipment:		
			Bulldozers.....	2.000	2.000	Bulldozers.....	2.125	2.275
			Compressors.....	1.875	1.875	Pumps, 4-inch and over.....	2.000	2.150
			Pumps, under 4 inch.....	1.500	1.500	Compressors.....	1.850	2.000
			Pumps, 4 inch and over.....	1.875	1.875	Heavy construction:		
			Heavy construction:			Heavy equipment:		
			Heavy equipment:			Cranes (all types).....	2.375	2.525
			Cranes.....	2.250	2.250	Power shovels.....	2.375	2.525
			Derricks.....	2.250	2.250	Derricks.....	2.375	2.525
			Power shovels.....	2.250	2.250	Medium equipment:		
			Medium equipment:			Power graders.....	2.125	2.275
			Power graders.....	2.000	2.000	Rollers.....	2.000	2.150
			Rollers.....	1.875	1.875	Trench machines.....	2.125	2.275
			Trenching machines.....	2.000	2.000	Light equipment:		
			Light equipment:			Bulldozers.....	2.125	2.275
			Bulldozers.....	2.000	2.000	Pumps, 4-inch and over.....	2.000	2.150
			Compressors.....	1.875	1.875	Compressors.....	1.650	1.800
			Pumps, under 4 inch.....	1.500	1.500	Glaziers.....	2.250	2.250
			Pumps, 4 inch and over.....	1.875	1.875			

TABLE 14.—Union scales of wages and hours for building trades in 77 cities, July 1, 1948, and July 1, 1949—Continued

[Hours are 40 per week for both years unless otherwise indicated]

Trade or occupation	Rate per hour		Trade or occupation	Rate per hour		Trade or occupation	Rate per hour	
	July 1, 1948	July 1, 1949		July 1, 1948	July 1, 1949		July 1, 1948	July 1, 1949
<b>CLEVELAND, OHIO—Con.</b>			<b>COLUMBUS, OHIO—Con.</b>			<b>DALLAS, TEX.—Continued</b>		
<i>Journeymen—Continued</i>			<i>Journeymen—Continued</i>			<i>Helpers and laborers—Continued</i>		
Granite cutters (outside).....	\$2.300	\$2.300	Mosaic and terrazzo workers.....	\$2.063	\$2.063	Building laborers.....	\$1.075	\$1.075
Inside (surface machine).....	1.875	1.875	Painters.....	1.875	2.000	Elevator constructors' helpers.....	1.470	1.650
Polishers.....	1.750	1.750	Structural steel and spray.....	1.950	2.075	Plasterers' laborers.....	1.275	1.275
Lathers.....	2.375	2.525	Paperhangers.....	1.875	2.000			
Machinists.....	2.375	2.375	Plasterers.....	2.250	2.375	<b>DAYTON, OHIO</b>		
Marble setters.....	2.250	2.400	Plumbers.....	2.200	2.250	<i>Journeymen</i>		
Mosaic and terrazzo workers.....	2.250	2.400	Rodmen.....	2.250	2.375	Asbestos workers.....	2.000	2.250
Painters.....	2.125	2.250	Roofers, composition.....	1.875	2.000	Boilermakers.....	2.175	2.300
Fresco.....	2.175	2.300	Roofers, slate and tile.....	1.875	2.000	Bricklayers.....	2.325	2.625
Structural steel, spray and swing stage.....	2.250	2.375	Spray gun or dam proofing and par lock work.....	2.050	2.175	Carpenters.....	2.150	2.275
Paperhangers.....	2.125	2.250	Sheet-metal workers.....	2.125	2.250	Millwrights.....	2.150	2.275
Plasterers.....	2.375	2.525	Sign painters.....	1.800	1.800	Parquetry floor layers.....	2.150	2.275
Plumbers.....	2.375	2.575	Steam fitters.....	2.200	2.200	Wharf and bridge.....	2.150	2.275
Rodmen.....	2.375	2.575	Stonecutters (inside).....	2.250	2.500	Cement finishers.....	1.980	2.105
Roofers, composition.....	2.300	2.450	Stonecutters (on buildings).....	( <sup>1</sup> )	2.750	Electricians (inside wiremen) and fixture hangers.....	2.500	2.625
Roofers, slate and tile.....	2.375	2.575	Stonemasons, stone setters, cement blockmen.....	2.500	2.750	Elevator constructors.....	2.390	2.460
Sheet-metal workers.....	2.250	2.250	Structural-iron workers.....	2.250	2.375	Engineers—Power equipment operators:		
Sign painters.....	2.275	2.275	Ornamental.....	2.250	2.375	Building construction:		
Steam and sprinkler fitters.....	2.375	2.375	Tile layers.....	2.063	2.063	Heavy equipment:		
Refrigerator installers.....	2.375	2.375				Cranes (all types).....	2.250	2.375
Stoncutters:						Power shovels.....	2.250	2.375
Inside.....	2.250	2.250				Derricks.....	2.250	2.375
Outside.....	2.250	2.250				Medium equipment:		
Stonemasons.....	2.375	2.575				Power graders.....	2.000	2.125
Structural-iron workers.....	2.375	2.575				Rollers.....	1.875	2.000
Sheeters.....	2.750	2.825				Trench machines.....	2.000	2.125
Sheeters-bucker up.....	2.500	2.625				Light equipment:		
Tile layers.....	2.250	2.375				Bulldozers.....	2.000	2.125
						Pumps—over 4-inch.....	1.875	2.000
						Compressors.....	1.875	2.000
						Heavy construction:		
						Heavy equipment:		
						Cranes (all types).....	2.250	2.375
						Power shovels.....	2.250	2.375
						Derricks.....	2.250	2.375
						Medium equipment:		
						Power graders.....	2.000	2.125
						Rollers.....	1.875	2.000
						Trench machines.....	2.000	2.125
						Light equipment:		
						Bulldozers.....	2.000	2.125
						Pumps, over 4-inch.....	1.875	2.000
						Compressors.....	1.875	2.000
						Glaziers.....	2.000	2.125
						Lathers.....	2.075	2.075
						Machinists.....	2.000	2.000
						Marble setters.....	2.250	2.375
						Mosaic and terrazzo workers.....	2.250	2.375
						Painters.....	2.025	2.150
						Spray.....	2.125	2.250
						Structural steel, iron and bridge.....	2.400	2.525
						Paperhangers.....	2.275	2.400
						Plasterers.....	2.275	2.400
						Plumbers.....	2.300	2.425
						Rodmen and reinforcers.....	2.260	2.360
						Roofers, composition.....	2.150	2.275
						Roofers, slate and tile.....	1.950	2.075
						Sheet-metal workers.....	2.150	2.275
						Sign painters.....	2.150	2.275
						Steam fitters.....	2.200	2.200
						Stonemasons.....	2.260	2.390
						Structural-iron workers:	2.325	2.625
						Finishers.....	2.300	2.425
						Machinery movers and riggers.....	2.300	2.425
						Tile layers.....	2.250	2.375
						<i>Helpers and laborers</i>		
						Bricklayers' tenders and hod carriers.....	1.650	1.775
						Building laborers.....	1.400	1.525
						Elevator constructors' helpers.....	1.670	1.720
						Marble setters' helpers.....	1.450	1.575
						Plasterers' laborers.....	1.650	1.775
						Plumbers' laborers.....	1.400	1.525
						Terrazzo workers' helpers.....	1.450	1.575
						Base grinders.....	1.950	2.075
						Tile layers' helpers.....	1.450	1.575

<sup>1</sup> Information not available for rate and hours on July 1, 1948.

TABLE 14.—Union scales of wages and hours for building trades in 77 cities, July 1, 1948, and July 1, 1949—Continued

[Hours are 40 per week for both years unless otherwise indicated]

Trade or occupation	Rate per hour		Trade or occupation	Rate per hour		Trade or occupation	Rate per hour	
	July 1, 1948	July 1, 1949		July 1, 1948	July 1, 1949		July 1, 1948	July 1, 1949
<b>DENVER, COLO.</b>			<b>DES MOINES, IOWA—Con.</b>			<b>DETROIT, MICH.—Continued</b>		
<i>Journeymen</i>			<i>Journeymen—Continued</i>			<i>Journeymen—Continued</i>		
Asbestos workers.....	\$2.150	\$2.150	Engineers—Power equipment operators:			Engineers—Power equipment operators—Continued		
Boilermakers.....	2.150	2.250	Building construction:			Building construction—Con.		
Bricklayers.....	2.250	3.000	Heavy equipment:			Light equipment:		
Sewer work.....	2.500	3.250	Cranes and shovels—over			Compressors (on steel).....	\$2.400	\$2.400
Carpenters.....	2.100	2.100	¾ yard capacity.....	\$2.100	\$2.200	Compressors (not on steel).....	1.950	2.075
Cement finishers.....	2.250	2.250	Paving mixers.....	2.100	2.200	Hoists (not on steel).....	2.200	2.325
Composition floor layers.....	2.500	2.500	Sideboom tractors.....	2.100	2.200	Heavy construction:		
Electricians (inside wiremen).....	2.250	2.410	Medium equipment:			Single-drum hoists.....	1.925	2.025
Elevator constructors.....	2.220	2.220	Compressors (over 110 cu. ft. capacity).....	1.925	2.025	Compressors (under 110 cu. ft. capacity).....	1.500	1.600
Engineers—Power equipment operators:			Scoops and bulldozers.....	1.925	2.025	Welding machines.....	1.500	1.600
Building construction:			Light equipment:			Heavy construction:		
Heavy equipment:			Compressors (under 110 cu. ft. capacity).....	1.500	1.600	Heavy equipment:		
Derricks, guy and stiff leg.....	2.150	2.150	Compressors (over ¾ yard capacity).....	2.100	2.100	Cranes and shovels (over ¾ yard capacity).....	2.100	2.100
Shovel type.....	2.150	2.150	Eucled motors.....	2.100	2.100	Hoisting engines, steel erection.....	1.950	1.950
Multiple drum hoists.....	2.150	2.150	Hoisting engines, steel erection.....	1.950	1.950	Medium equipment:		
Medium equipment:			Blades, graders.....	2.100	2.100	Blades, graders.....	2.100	2.100
Tractors.....	2.000	2.000	Scoops, dozers, and asphalt rollers.....	2.100	2.100	Scoops, dozers, and asphalt rollers.....	2.100	2.100
Concrete pavers.....	2.000	2.000	Tournapulls and other similar equipment.....	2.100	2.100	Tournapulls and other similar equipment.....	2.100	2.100
Light equipment:			Light equipment:			Barber Green loaders.....	2.100	2.100
One-drum hoists.....	2.000	2.000	Barber Green loaders.....	2.100	2.100	Compressors.....	2.100	2.100
Compressors.....	2.000	2.000	Compressors.....	2.100	2.100	Distributors.....	1.750	1.750
Pumps.....	2.000	2.000	Distributors.....	1.750	1.750	Glaziers.....	1.650	1.800
Heavy construction:			Glaziers.....	1.650	1.800	Lathers.....	2.200	2.200
Shovel type, under 3 yards shovel type, 3 yards and over.....	2.150	2.150	Lathers.....	2.200	2.200	Marble setters.....	2.000	2.000
Eucled loaders.....	2.000	2.000	Marble setters.....	2.000	2.000	Mosaic and terrazzo workers.....	2.000	2.000
Pull type.....	2.000	2.000	Mosaic and terrazzo workers.....	2.000	2.000	Painters.....	1.750	1.850
Medium equipment:			Painters.....	1.750	1.850	Spray.....	2.000	2.100
Tractors.....	2.000	2.000	Spray.....	2.000	2.100	Paperhangers.....	1.750	1.850
Light equipment:			Paperhangers.....	1.750	1.850	Plasterers.....	2.250	2.375
Compressors.....	2.000	2.000	Plasterers.....	2.250	2.375	Plumbers.....	2.250	2.375
Pumps.....	2.000	2.000	Plumbers.....	2.250	2.375	Rodmen.....	2.125	2.250
Core or diamond drills.....	2.000	2.000	Rodmen.....	2.125	2.250	Roofers, composition.....	1.500	1.625
Glaziers.....	1.890	2.000	Roofers, composition.....	1.500	1.625	Roofers, slate and tile.....	1.500	1.625
Inside men.....	1.720	1.750	Roofers, slate and tile.....	1.500	1.625	Sheet-metal workers.....	2.000	2.125
Machine men (inside).....	1.713	1.731	Sheet-metal workers.....	2.000	2.125	Sign painters.....	1.750	1.850
Machine men (outside).....	1.713	1.763	Sign painters.....	1.750	1.850	Steam fitters.....	2.250	2.375
Lathers.....	2.250	2.500	Steam fitters.....	2.250	2.375	Stonemasons.....	2.250	2.875
Machinists.....	2.000	2.150	Stonemasons.....	2.250	2.875	Structural-iron workers.....	2.125	2.250
Marble setters.....	2.250	2.430	Structural-iron workers.....	2.125	2.250	Tile layers.....	2.000	2.000
Mosaic and terrazzo workers.....	2.250	2.430	Tile layers.....	2.000	2.000			
Painters.....	1.925	2.050						
Paperhangers.....	1.925	2.050	<i>Helpers and laborers</i>					
Plasterers.....	2.250	2.500	Bricklayers' tenders.....	1.400	1.500			
Plumbers.....	2.240	2.400	Mortar mixers.....	1.500	1.600			
Rodmen.....	2.000	2.100	Building laborers.....	1.400	1.500			
Roofers, composition.....	2.100	2.100	Elevator constructors' helpers.....	1.600	1.600			
Roofers, slate and tile.....	2.100	2.100	Marble setters' helpers.....	1.400	1.500			
Sheet-metal workers.....	2.000	2.125	Marble polishers and rubbers.....	1.900	2.025			
Sign painters.....	2.125	2.300	Plasterers' laborers.....	1.900	2.100			
Steam fitters.....	2.240	2.400	Plasterers' tenders.....	2.000	2.100			
Stonemasons.....	2.000	2.000	Sprinkler fitters' helpers.....	1.350	1.350			
Structural-iron workers:			Terrazzo workers' helpers.....	1.875	1.950			
Erectors.....	2.000	2.100	Base-machine operators and dry grinders.....	2.150	2.300			
Tile layers.....	2.250	2.430	Tile layers' helpers.....	1.800	1.900			
<i>Helpers and laborers</i>			<b>DETROIT, MICH.</b>			<b>DULUTH, MINN.</b>		
Bricklayers' tenders.....	1.750	1.750	<i>Journeymen</i>			<i>Journeymen</i>		
Building laborers.....	1.400	1.400	Asbestos workers.....	2.400	2.500	Asbestos workers.....	1.850	1.950
Elevator constructors' helpers.....	1.500	1.550	Home insulators.....	1.925	2.025	Boilermakers.....	2.150	2.250
Marble setters' helpers.....	1.425	1.575	Boilermakers.....	2.500	2.450	Bricklayers.....	2.050	2.050
Plasterers' laborers.....	1.750	1.750	Bricklayers.....	2.500	2.625	Carpenters.....	1.800	1.800
Terrazzo workers' helpers.....	1.425	1.425	Carpenters.....	2.200	2.325	Millwrights.....	1.800	1.800
Tile layers' helpers.....	1.425	1.575	Cement finishers.....	2.050	2.175	Pile drivers.....	1.800	1.800
			Electricians (inside wiremen).....	2.400	2.600	Floor sanders (machine).....	1.800	1.800
			Elevator constructors.....	2.250	2.440	Cement finishers.....	1.675	1.675
			Engineers—Power equipment operators:			Electricians (inside wiremen).....	2.100	2.100
			Building construction:			Elevator constructors.....	1.865	2.090
			Heavy equipment:			Engineers—Power equipment operators:		
			Cranes on steel.....	2.400	2.400	Building construction:		
			Pile drivers (not on steel).....	2.200	2.325	Heavy equipment:		
			Shovel combinations.....	2.200	2.325	Derricks.....	2.200	2.270
			Medium equipment:			Cranes, shovels.....	2.200	2.270
			Bulldozers.....	2.200	2.325	Pumpcretes.....	2.100	2.170
			Derricks (on steel).....	2.400	2.400			
			Derricks (not on steel).....	2.200	2.325			



TABLE 14.—Union scales of wages and hours for building trades in 77 cities, July 1, 1948, and July 1, 1949—Continued

[Hours are 40 per week for both years unless otherwise indicated]

Trade or occupation	Rate per hour		Trade or occupation	Rate per hour		Trade or occupation	Rate per hour	
	July 1, 1948	July 1, 1949		July 1, 1948	July 1, 1949		July 1, 1948	July 1, 1949
<b>HOUSTON, TEX.</b>			<b>INDIANAPOLIS, IND.—Con.</b>			<b>JACKSON, MISS.—Con.</b>		
<i>Journeyman</i>			<i>Journeyman—Continued</i>			<i>Journeyman—Continued</i>		
Asbestos workers	\$2.000	\$2.250	Engineers—Power equipment operators:			Engineers—Power equipment operators—Continued		
Boilermakers	2.125	2.250	Building construction:			Pumps	\$1.500	\$1.650
Bricklayers	2.500	2.625	Heavy equipment:			Rollers	1.750	1.900
Carpenters	2.000	2.000	Cranes	\$2.300	\$2.400	Shovels	1.875	2.025
Floor layers, parquetry and resilient	2.125	2.125	Derricks, bull wheels	2.300	2.650	Tournapulls	1.875	2.025
Millwrights	2.125	2.125	Hoists	2.200	2.300	Tractors:		
Cement finishers	2.000	2.000	Medium equipment:			Without power take-off	1.500	1.650
Electricians (inside wiremen)	2.375	2.375	Concrete mixers (21 cu. ft.)	2.150	2.250	With power take-off	1.750	1.900
Elevator constructors	2.175	2.425	Concrete pumps	2.200	2.300	Trenching machines, large	1.875	2.025
Engineers—Power equipment operators:			Tractor shovels	2.200	2.300	Other trenching machines	1.750	1.900
Air compressors	1.875	1.875	Light equipment:			Glaziers	1.250	1.250
Bulldozers:			Air compressors	1.550	1.650	Lathers	1.750	1.750
When cutting to finish grade	2.125	2.125	Pumps, water	1.550	1.650	Marble setters	2.250	2.250
Except when cutting to finish grade	1.875	1.875	Welding machines	1.550	1.650	Mosaic and terrazzo workers	2.250	2.500
Cranes, derricks, and draglines	2.125	2.125	Heavy construction:			Painters	1.750	1.750
Graders, blade and elevating:			Heavy equipment:			Spray	2.000	2.000
Towed	1.875	1.875	Auto patrols	2.200	2.300	Structural steel	1.875	1.875
Self-propelled	2.125	2.125	Cranes	2.300	2.400	Swing stage	2.000	2.000
Hoists:			Scoops	2.200	2.300	Paperhangers	1.750	1.750
1 drum	1.875	1.875	Medium equipment:			Plasterers	2.000	2.150
2 drums or more	2.125	2.125	Bulldozers	2.200	2.300	Plumbers	2.000	2.000
Locomotive	2.125	2.125	Rollers	2.200	2.300	Rodmen	1.750	1.900
Mixers:			Trenching machines	2.200	2.300	Roofers, composition	1.500	1.500
Less than 14 cu. ft.	1.875	1.875	Light equipment:			Roofers, slate and tile	1.500	1.500
14 cu. ft. or over	2.125	2.125	Compressors	1.550	1.650	Sheet-metal workers	1.600	1.800
Pumps, larger than 2 inches	1.875	1.875	Pumps	1.550	1.650	Sign painters	1.750	1.750
Scrapers:			Tractors	2.200	2.300	Steam fitters	2.000	2.000
3 cu. yd. or less	1.875	1.875	Glaziers	2.000	2.000	Stonemasons	2.250	2.250
Over 3 cu. yd.	2.125	2.125	Lathers (wood, wire, and metal)	2.150	2.375	Structural and ornamental-iron workers	2.000	2.150
Tractors	1.875	1.875	Machinists	1.750	2.000	Tile layers	2.250	2.500
Trenching machines, all sizes	2.125	2.125	Marble setters	2.000	2.325			
Glaziers	1.875	1.875	Mosaic and terrazzo workers	2.000	2.000			
Lathers	2.500	2.750	Painters	2.000	2.125			
Machinists	2.250	2.250	Paperhangers	2.300	2.125			
Marble setters	2.250	2.250	Plasterers	2.350	2.500			
Mosaic and terrazzo workers	2.250	2.250	Plumbers	2.300	2.425			
Painters	1.875	1.875	Rodmen	2.325	2.450			
Spray stage, steel spray stage, and steel spray swing stage	2.250	2.250	Roofers, composition	1.680	1.750			
Steel spray and steel brush, swing stage	2.125	2.125	Roofers, slate and tile	1.800	2.000			
Paperhangers	1.875	1.875	Sheet-metal workers	2.125	2.300			
Plasterers	2.500	2.750	Sign painters	1.935	1.935			
Plumbers	2.375	2.375	Steam fitters	2.300	2.425			
Rodmen	2.000	2.000	Stonemasons	1.810	2.060			
Roofers, composition	1.875	1.875	Carvers	1.935	2.310			
Roofers, slate and tile	2.125	2.375	Planermen	1.560	1.685			
Sheet-metal workers	2.375	2.375	Stonemasons	2.400	2.575			
Sign painters	2.120	2.375	Structural-iron workers:					
Steam fitters:			Erectors	2.325	2.450			
Commercial	2.125	2.375	Finishers	2.325	2.450			
Industrial	2.250	2.250	Tile layers	2.200	2.325			
Stonemasons	2.500	2.500						
Structural-iron workers	2.125	2.125						
Tile layers	2.250	2.250						
<i>Helpers and laborers</i>			<i>Helpers and laborers</i>			<i>Helpers and laborers</i>		
Bricklayers' tenders	1.275	1.275	Bricklayers' tenders	1.575	1.700	Bricklayers' tenders	.900	1.000
Hod carriers	1.375	1.375	Building laborers	1.375	1.500	Building laborers	.800	.900
Building laborers	1.075	1.075	Concrete breakers	1.525	1.650	Composition roofers' helpers	.800	.800
Elevator constructors' helpers	1.520	1.700	Composition roofers' helpers	1.230	1.350	Marble setters' helpers	.900	1.000
Marble setters' helpers	1.375	1.375	Elevator constructors' helpers	1.635	1.635	Plasterers' laborers	.900	1.000
Plasterers' laborers	1.275	1.275	Plasterers' laborers	1.875	1.700			
Terrazzo workers' helpers	1.375	1.375	Plumbers' laborers	1.525	1.650			
Tile layers' helpers	1.375	1.375						
<b>INDIANAPOLIS, IND.</b>			<b>JACKSON, MISS.</b>			<b>JACKSONVILLE, FLA.</b>		
<i>Journeyman</i>			<i>Journeyman</i>			<i>Journeyman</i>		
Asbestos workers	2.200	2.350	Bricklayers	2.250	2.250	Asbestos workers	1.880	2.000
Boilermakers	2.350	2.350	Carpenters	1.750	1.900	Boilermakers	2.000	2.250
Bricklayers	2.400	2.575	Millwrights	1.875	2.025	Bricklayers	2.000	2.300
Carpenters	2.175	2.300	Cement finishers	2.000	2.150	Carpenters	1.650	1.750
Cement finishers	1.950	2.075	Electricians (inside wiremen)	2.000	2.000	Millwrights	1.900	2.000
Electricians (inside wiremen)	2.300	2.375	Engineers—Power equipment operators:			Cement finishers	1.500	1.600
Elevator constructors	2.335	2.335	Air compressors	1.500	1.650	Electricians (inside wiremen)	2.000	2.375
			Bulldozers	1.750	1.650	Elevator constructors	2.025	2.235
			Cranes, derricks, and draglines	1.875	2.025	Engineers—Power equipment operators:		
			Graders, elevating and road	1.750	1.900	Air compressors	1.375	1.475
			Hoists	1.750	1.900	Bulldozers	1.375	1.475
			Locomotives	1.750	1.900	Cranes, derricks, and draglines	1.700	1.800
			Mixers	1.750	1.900	Graders	1.375	1.475
						Hoists:		
						1 drum	1.375	1.800
						2 drums	1.700	1.800
						Mixers	1.250	1.475
						Pumps	1.375	1.375
						Rollers	1.375	1.475
						Shovels	1.700	1.800
						Tractors	1.375	1.475
						Glaziers	1.550	1.750
						Lathers	2.000	2.250
						Machinists	1.800	1.800
						Marble setters	2.000	2.300
						Mosaic and terrazzo workers	1.875	2.000
						Painters	1.500	1.625
						Spray	1.875	2.000
						Paperhangers	1.750	1.875
						Plasterers	2.000	2.250
						Plumbers	2.500	2.500
						Rodmen	1.500	1.600
						Roofers, composition	1.500	1.500
						Roofers, slate and tile	1.500	1.500

TABLE 14.—Union scales of wages and hours for building trades in 77 cities, July 1, 1948, and July 1, 1949—Continued  
 [Hours are 40 per week for both years unless otherwise indicated]

Trade or occupation	Rate per hour		Trade or occupation	Rate per hour		Trade or occupation	Rate per hour	
	July 1, 1948	July 1, 1949		July 1, 1948	July 1, 1949		July 1, 1948	July 1, 1949
<b>JACKSONVILLE, FLA.—Con.</b>			<b>KANSAS CITY, MO.—Con.</b>			<b>LITTLE ROCK, ARK.—Con.</b>		
<i>Journeyman—Continued</i>			<i>Helpers and laborers</i>			<i>Journeyman—Continued</i>		
Sheet-metal workers.....	\$1.650	\$1.800	Bricklayers' tenders.....	\$1.650	\$1.750	Engineers—Power equipment operators—Continued		
Sign painters.....	1.875	2.000	Building laborers.....	1.475	1.575	Hoists:		
Steam fitters.....	2.500	2.500	Marble setters' helpers.....	1.525	1.625	1 drum.....	\$1.675	\$1.750
Stonemasons.....	2.000	2.300	Plasterers' laborers.....	1.650	1.750	2 or more drums.....	1.750	2.000
Structural and ornamental-iron workers.....	1.875	2.000	Plumbers' laborers.....	1.525	1.625	Locomotives.....	1.750	2.000
Tile layers.....	1.875	2.000	Sprinkler fitters' helpers.....	1.350	1.350	Mixers:		
<i>Helpers and laborers</i>			Terrazzo workers' helpers.....	1.550	1.650	Less than 10S.....	1.500	1.750
Bricklayers' tenders.....	.850	.850	Tile layers' helpers.....	1.525	1.625	10S or larger.....	1.750	2.000
Mortar mixers.....	.900	1.000	<b>KNOXVILLE, TENN.</b>			Pumps:		
Building laborers.....	.750	.800	<i>Journeyman</i>			2 to 4 inches.....	1.500	1.750
Composition roofers' helpers.....	.850	.850	Boilermakers.....	2.000	2.250	5 inches or larger.....	1.675	1.750
Elevator constructors' helpers.....	1.425	1.565	Bricklayers.....	2.250	2.500	Rollers.....	1.750	2.000
Plasterers' laborers.....	.850	.850	Carpenters.....	1.900	1.900	Scrapers.....	1.750	2.000
Plumbers' laborers.....	.850	.850	Millwrights.....	2.000	2.000	Shovels.....	2.000	2.250
Tile layers' helpers.....	.850	.850	Cement finishers.....	1.850	1.850	Trenching machines.....	1.750	2.000
<b>KANSAS CITY, MO.</b>			Electricians (inside wiremen).....	2.125	2.125	Glaziers.....	1.625	1.625
<i>Journeyman</i>			Elevator constructors.....	1.900	2.185	Marble setters.....	2.500	2.500
Asbestos workers.....	2.000	2.375	Engineers—Power equipment operators:			Mosaic and terrazzo workers.....	2.500	2.500
Boilermakers.....	2.150	2.250	Air compressors:			Painters.....	1.625	1.625
Bricklayers.....	2.500	2.600	1 portable.....	1.250	1.250	Spray.....	2.375	2.500
Carpenters, millwrights, wharf and bridge, pile drivers.....	2.050	2.150	2, not more than 3 portable.....	1.550	1.550	Structural steel and stage.....	1.875	1.875
Cement finishers.....	2.050	2.150	Bulldozers.....	1.750	1.750	Paperhangers.....	1.750	1.750
Composition.....	2.175	2.275	Cranes, derricks, and draglines.....	1.950	1.950	Plasterers.....	2.500	2.500
Electricians (inside wiremen).....	2.150	2.300	Graders.....	1.750	1.750	Plumbers.....	2.000	2.125
Engineers—Power equipment operators:			Hoists:			Rodmen.....	1.750	1.875
Building construction:			1 drum.....	1.550	1.550	Sheet-metal workers.....	1.500	1.750
Heavy equipment:			2 drums.....	1.750	1.750	Sign painters.....	1.500	1.500
Cranes.....	2.275	2.375	Locomotive:			Steam fitters.....	2.000	2.125
Hoists (2 drums or more).....	2.275	2.375	Under 20 tons.....	1.550	1.550	Stonemasons.....	2.500	3.000
Shovels, power.....	2.275	2.375	20 tons and over.....	1.750	1.750	Structural and ornamental-iron workers.....	2.000	2.125
Medium equipment:			Mixers (over 2 bags, not to include central plants).....	1.550	1.550	Tile layers.....	2.500	2.500
Concrete mixers.....	2.050	2.150	Pumps:			<i>Helpers and laborers</i>		
Hoists (single drum).....	2.050	2.150	1 pump.....	1.250	1.250	Bricklayers' tenders.....	1.250	1.250
Shovels, tractors, hi-lift front end.....	2.050	2.150	2, not more than 3.....	1.550	1.550	Building laborers.....	.800	.875
Light equipment:			Rollers.....	1.550	1.550	Plumbers' laborers.....	.800	.875
Firemen.....	1.650	1.775	Scrapers, pans, scoops, or carryalls (all types).....	1.750	1.750	<b>LOS ANGELES, CALIF.</b>		
Oilers and greasers.....	1.550	1.650	Shovels.....	1.950	1.950	<i>Journeyman</i>		
Tractors, less than 50 horsepower.....	1.550	1.650	Tournapulls (machines over 20 yd).....	1.950	1.950	Asbestos workers.....	2.250	2.500
Heavy construction:			Tractors.....	1.550	1.550	Home insulators.....	1.750	1.750
Heavy equipment:			Trenching machines.....	1.750	1.750	Boilermakers.....	2.150	2.350
Draglines and shovels.....	2.275	2.375	Glaziers.....	1.650	1.650	Bricklayers.....	2.625	2.625
Dredges, steam, gas, electric, Diesel.....	2.275	2.375	Marble setters.....	2.250	2.500	Carpenters.....	2.038	2.038
Pile drivers, land and float.....	2.275	2.375	Painters.....	1.650	1.650	Millwrights.....	2.238	2.238
Medium equipment:			Spray, structural steel, swinging stage.....	1.900	1.900	Parquetry floor layers.....	2.238	2.238
Ditching machines.....	2.050	2.150	Paperhangers.....	1.900	1.900	Wharf and bridge.....	2.163	2.163
Patrol blades.....	2.050	2.150	Plasterers.....	2.250	2.250	Shinglers.....	2.163	2.163
Tractors, over 50 horsepower.....	2.050	2.150	Plumbers.....	2.250	2.250	Cement finishers.....	2.113	2.113
Light equipment:			Roofers, composition.....	1.500	1.500	Composition and mastic.....	2.238	2.238
Firemen.....	1.650	1.775	Roofers, slate and tile.....	1.500	1.500	Electricians (inside wiremen) and fixture hangers.....	2.400	2.500
Oilers and greasers.....	1.550	1.650	Sheet-metal workers.....	2.000	2.000	Elevator constructors.....	2.250	2.460
Tractors, less than 50 horsepower.....	1.550	1.650	Sign painters.....	1.900	1.900	Engineers—Power equipment operators:		
Glaziers.....	2.150	2.250	Steam fitters.....	2.250	2.250	Building construction:		
Lathers.....	2.200	2.450	Tile layers.....	2.250	2.500	Heavy equipment:		
Machinists.....	2.050	2.190	<i>Helpers and laborers</i>			Universal equipment (shovels, draglines, derricks, derrick-barges, clamshells, or cranes).....	2.238	2.238
Marble setters.....	2.225	2.350	Bricklayers' tenders.....	1.000	1.000	Pile drivers.....	2.238	2.238
Mosaic and terrazzo workers.....	2.225	2.350	Building laborers.....	.950	.950	Tractors (bulldozers, tampers, scrapers or drag-type shovels, or boom attachments).....	2.038	2.038
Painters.....	2.050	2.050	Elevator constructors' helpers.....	1.370	1.530	Medium equipment:		
Paperhangers.....	2.050	2.050	Plasterers' laborers.....	1.000	1.000	A-Frame-Boom trucks.....	2.038	2.038
Plasterers.....	2.500	2.750	<b>LITTLE ROCK, ARK.</b>			Elevator hoists.....	1.988	1.988
Plumbers.....	2.125	2.375	<i>Journeyman</i>			Motor patrols, including any type of power blade.....	2.162	2.162
Rodmen.....	2.075	2.175	Asbestos workers.....	2.000	2.250	Light equipment:		
Roofers, composition.....	1.900	2.000	Bricklayers.....	2.500	3.000	Air compressors.....	1.788	1.788
Roofers, slate and tile.....	1.900	2.000	Carpenters and millwrights.....	1.750	1.750	Concrete mixers (skip type).....	1.912	1.912
Sheet-metal workers.....	2.300	2.300	Cement finishers.....	2.000	2.000	Heavy construction:		
Residential.....	1.850	1.950	Electricians (inside wiremen).....	1.875	2.000	Heavy equipment:		
Sign painters.....	2.375	2.500	Elevator constructors.....	1.875	2.175	Universal equipment (shovels, draglines, derricks, derrick-barges, clamshells, or cranes).....	2.238	2.238
Steam fitters.....	2.125	2.375	Engineers—Power equipment operators:					
Sprinkler fitters.....	2.125	2.375	Air compressors.....	1.500	1.750			
Stonemasons.....	2.250	2.350	Air compressors in tandem.....	1.750	2.000			
Structural-iron workers.....	2.200	2.300	Bulldozers.....	1.750	2.000			
Finishers and ornamental.....	2.200	2.300	Cranes, derricks, and draglines.....	2.000	2.250			
Tile layers.....	2.225	2.350	Graders, blade and elevating.....	1.750	2.000			

TABLE 14.—Union scales of wages and hours for building trades in 77 cities, July 1, 1948, and July 1, 1949—Continued

[Hours are 40 per week for both years unless otherwise indicated]

Trade or occupation	Rate per hour		Trade or occupation	Rate per hour		Trade or occupation	Rate per hour	
	July 1, 1948	July 1, 1949		July 1, 1948	July 1, 1949		July 1, 1948	July 1, 1949
<b>LOS ANGELES, CALIF.—Con.</b>			<b>LOUISVILLE, KY.—Con.</b>			<b>MANCHESTER, N. H.—Con.</b>		
<i>Journeyman</i> —Continued			<i>Journeyman</i> —Continued			<i>Journeyman</i> —Continued		
Engineers—Power equipment operators—Continued			Engineers—Power equipment operators—Continued			Engineers—Power equipment operators—Continued		
Heavy construction—Con.			Building construction—Con.			Heavy construction—Con.		
Heavy equipment—Con.			Light equipment:			Medium equipment:		
Tractors (bulldozers, tampers, scrapers or drag-type shovels, or boom attachments)	\$2.038	\$2.038	Firemen	\$1.800	\$1.950	Scrapers and tournapulls	\$1.750	\$1.875
Medium equipment:			Oilers	1.550	1.700	Bulldozers	1.700	1.825
Motor patrols, including any type of power blade	2.162	2.162	Pumps	1.550	1.700	Light equipment:		
Concrete mixers (paving type and mobile mixers)	2.138	2.138	Heavy construction:			1-and 2-drum hoists, pumps, boilers, or compressors	1.700	1.825
Light equipment:			Heavy equipment:			Painters	1.450	1.450
Air compressors	1.788	1.788	Bulldozers	2.000	2.150	Paperhangers	1.450	1.450
Skip loaders (wheel type)	1.912	1.912	Cranes	2.000	2.150	Plasterers	2.150	2.500
Glaziers	1.960	1.960	Scoops	2.000	2.150	Plumbers	1.900	2.125
Granite cutters	1.750	1.750	Medium equipment:			Rodmen	2.250	2.250
Lathers	2.250	2.250	Compressors	1.800	1.950	Steamfitters	1.900	2.125
Machinists	2.450	2.450	Derricks	2.000	2.150	Stonemasons	2.150	2.500
Marble setters	2.250	2.400	Tractors	2.000	2.150	Structural-iron workers	2.250	2.250
Mosaic and terrazzo workers	2.400	2.400	Light equipment:			Tile layers	2.150	2.500
Painters	2.000	2.000	Firemen	1.800	1.950			
Spray	2.250	2.250	Oilers	1.550	1.550			
Swing stage, brush	2.125	2.125	Pumps	1.550	1.550	<i>Helpers and laborers</i>		
Swing stage, spray	2.375	2.375	Glaziers	( <sup>1</sup> )	1.900	Bricklayers' tenders	1.350	1.450
Paperhangers	2.125	2.125	Lathers	2.100	2.250	Building laborers	1.150	1.250
Plasterers	2.250	2.500	Machinists	2.000	2.350	Plasterers' laborers	1.350	1.500
Plumbers	2.500	2.500	Marble setters	2.000	2.250			
Lead burners	2.750	2.750	Mosaic and terrazzo workers	2.000	2.250			
Rodmen	1.975	2.113	Painters	1.820	1.860	<b>MEMPHIS, TENN.</b>		
Roofers, composition	2.000	2.250	Structural steel and spray	1.820	1.860	<i>Journeyman</i>		
Roofers, slate and tile	2.000	2.250	Paperhangers	1.500	1.750	Asbestos workers	2.000	2.250
Sheet-metal workers	2.150	2.150	Plasterers	2.250	2.400	Boilermakers	2.000	2.250
Sign painters:			Plumbers	2.100	2.375	Bricklayers	2.500	2.500
Advertising	2.250	2.310	Rodmen	1.900	2.100	Carpenters	1.825	1.825
Commercial	2.250	2.400	Roofers, composition	1.550	1.700	Cement finishers	1.825	1.825
Steam fitters	2.200	2.500	Roofers, slate and tile	1.850	2.100	Machine operators	1.950	1.950
Pipe fitters	2.200	2.500	Sheet-metal workers	1.950	2.100	Electricians (inside wiremen)	2.250	2.375
Refrigeration fitters	2.100	2.100	Sign painters	1.875	1.875	Elevator constructors	2.360	2.360
Sprinkler fitters	2.250	2.500	Steam fitters	2.100	2.375	Engineers—Power equipment operators:		
Stonemasons	2.625	2.625	Stonecutters	1.815	1.925	Air compressors:		
Structural-iron workers	2.100	2.300	Planermen	1.575	1.685	Portable	1.375	1.375
Finishers	1.975	2.175	Stonecarvers	1.925	2.035	Stationary	1.625	1.625
Tile layers	2.500	2.500	Stonemasons	2.500	2.600	Bulldozers	1.750	1.750
			Structural-iron workers and ornamental finishers	2.100	2.300	Cranes, derricks, and draglines	2.000	2.000
			Tile layers	2.000	2.250	Derricks (no boom)	1.750	1.750
						Graders	1.750	1.750
			<i>Helpers and laborers</i>			Hoists:		
			Bricklayers' tenders	1.500	1.650	1 drum	1.625	1.625
			Building laborers	1.250	1.400	2 or more drums	1.875	1.875
			Elevator constructors' helpers	1.515	1.675	Le Tourneaus	1.750	1.750
			Marble setters' helpers	1.200	1.450	Locomotives	1.750	1.750
			Plasterers' laborers	1.500	1.650	Mixers:		
			Plumbers' laborers	1.250	1.400	11S or smaller	1.375	1.375
			Terrazzo workers' helpers	1.200	1.450	Larger than 11S	1.750	1.750
			Base grinders	1.400	1.700	Pumps, under 4-inch discharge	1.125	1.125
			Flat grinders	1.250	1.550	Pumps on excavation, 4-inch and larger	1.375	1.375
			Tile layers' helpers	1.200	1.450	Rollers, top	1.750	1.750
						Sheepfoot	1.750	1.750
						Scrapers:		
						Under 12 yd.	1.625	1.625
						Over 12 yd.	1.750	1.750
						Shovels	2.000	2.000
						Tractors:		
						40 horsepower or less	1.375	1.375
						Over 40 horsepower	1.625	1.625
						Trenching machines	1.750	1.750
						Glaziers	1.625	1.625
						Lathers	2.000	2.000
						Marble setters	2.250	2.250
						Mosaic and terrazzo workers	2.250	2.250
						Painters:		
						Residential	1.750	1.875
						Commercial, spray, structural steel	1.875	2.000
						Paperhangers	1.750	1.875
						Plasterers	2.813	2.813
						Plumbers	2.250	2.250
						Rodmen	1.800	1.800
						Roofers, composition	1.650	1.650
						Roofers, slate and tile	1.900	1.900
						Sheet-metal workers	2.000	2.000
						Sign painters	2.000	2.125
						Steam fitters	2.250	2.250
						Stonemasons	2.500	2.500
						Structural- and ornamental-iron workers	1.950	1.950
						Tile layers	2.250	2.250

<sup>1</sup> Information not available for rate and hours on July 1, 1948.



TABLE 14.—Union scales of wages and hours for building trades in 77 cities, July 1, 1948, and July 1, 1949—Continued

[Hours are 40 per week for both years unless otherwise indicated]

Trade or occupation	Rate per hour		Trade or occupation	Rate per hour		Trade or occupation	Rate per hour	
	July 1, 1948	July 1, 1949		July 1, 1948	July 1, 1949		July 1, 1948	July 1, 1949
<b>MEMPHIS, TENN.—Con.</b>			<b>MILWAUKEE, WIS.—Con.</b>			<b>MINNEAPOLIS, MINN.—Con.</b>		
<i>Helpers and laborers</i>			<i>Journeyman—Continued</i>			<i>Journeyman—Continued</i>		
Bricklayers' tenders.....	\$1.250	\$1.250	Engineers—Power equipment operators—Continued			Engineers—Power equipment operators:		
Building laborers.....	.875	.875	Building construction—Con.			Building construction:		
Elevator constructors' helpers.....	1.650	1.650	Medium equipment—Con.			Heavy equipment:		
Plasterers' laborers.....	1.250	1.250	Tractors or bulldozers over 40 horsepower.....	\$2.200	\$2.200	Cranes, shovels.....	\$2.200	\$2.270
<b>MIAMI, FLA.</b>			Mixers.....	2.000	2.000	Derricks.....	2.200	2.270
<i>Journeyman</i>			Mixers when pavers are used.....	2.200	2.200	Pumpcretes.....	2.100	2.170
Bricklayers.....	2.500	2.500	Highlifts.....	2.200	2.200	Medium equipment:		
Carpenters.....	2.063	2.063	Light equipment:			Hoists.....	2.000	2.070
Floor layers.....	2.100	2.100	Firemen.....	1.700	1.700	Mixers, concrete.....	2.000	2.070
Cement finishers.....	2.500	2.500	Pumps.....	1.750	1.750	Welders, mechanics.....	2.000	2.070
Electricians (inside wiremen).....	2.500	2.500	Air compressors.....	1.800	1.800	Light equipment:		
Elevator constructors.....	2.250	2.500	Heavy construction:			Compressors.....	1.700	1.770
Engineers—Power equipment operators:			Heavy equipment:			Firemen.....	1.550	1.620
Air compressors.....	1.750	1.750	Shovels, cranes, draglines.....	2.350	2.350	Oilers.....	1.450	1.520
Bulldozers.....	1.500	1.500	Trench machines.....	2.350	2.350	Heavy construction:		
Cranes, derricks, and draglines.....	2.000	2.000	Hoes.....	2.350	2.350	Heavy equipment:		
Graders.....	1.500	1.500	Medium equipment:			Derricks.....	2.200	2.270
Hoists:			Tractors or bulldozers under 40 horsepower.....	2.050	2.050	Dredges, engineers.....	2.200	2.270
1 drum.....	2.000	2.000	Tractors or bulldozers over 40 horsepower.....	2.200	2.200	Shovels, cranes.....	2.200	2.270
2 or more drums.....	2.250	2.250	Mixers.....	2.200	2.200	Medium equipment:		
Mixers.....	1.750	1.750	Mixers when pavers are used.....	2.350	2.350	Bulldozers, scrapers.....	2.000	2.070
Pumps.....	1.750	1.750	Scrapers.....	2.200	2.200	Graders, motor patrols.....	1.800	1.870
Rollers.....	1.500	1.500	Light equipment:			Welders, mechanics.....	2.000	2.070
Scrapers.....	1.500	1.500	Air compressors.....	1.900	1.900	Light equipment:		
Shovels.....	2.000	2.000	Pumps.....	1.750	1.750	Finishing machines.....	1.700	1.770
Tractors.....	1.500	1.500	Helpers and oilers.....	1.950	1.950	Loaders, Barber Green operators.....	1.800	1.870
Trenching machines.....	1.500	1.500	Glaziers.....	2.000	2.000	Pumps, compressors.....	1.700	1.770
Glaziers.....	2.000	2.000	Lathers.....	2.000	2.000	Glaziers.....	1.850	1.850
Lathers.....	2.500	2.500	Machinists.....	2.250	2.250	Lathers.....	2.350	2.420
Machinists.....	2.250	2.250	Machinists.....	2.000	2.000	Machinists.....	1.900	1.900
Marble setters.....	2.500	2.500	Marble setters.....	2.100	2.100	Marble setters.....	2.250	2.250
Mosaic and terrazzo workers.....	2.500	2.500	Mosaic and terrazzo workers.....	2.200	2.200	Mosaic and terrazzo workers.....	2.150	2.250
Painters.....	2.063	2.063	Painters.....	1.800	1.950	Painters (including fresco).....	1.950	2.050
Spray and structural steel.....	2.200	2.200	Swing stage.....	1.950	2.100	Structural steel and swing stage.....	2.100	2.200
Paperhangers.....	2.200	2.200	Spray nozzlemen.....	1.925	2.075	Paperhangers.....	1.950	2.050
Plasterers.....	2.500	2.500	Structural iron.....	2.050	2.200	Plasterers.....	2.350	2.500
Plumbers.....	2.500	2.500	Plasterers.....	2.250	2.250	Plumbers.....	2.250	2.250
Rodmen.....	2.350	2.350	Plumbers.....	2.250	2.250	Rodmen.....	2.050	2.050
Roofers, composition.....	1.925	1.925	Rodmen.....	1.914	1.914	Roofers, composition.....	1.900	2.000
Roofers, slate and tile.....	1.925	1.925	Roofers, composition.....	1.900	1.900	Roofers, slate and tile.....	1.900	2.000
Sheet-metal workers.....	2.200	2.200	Roofers, slate and tile.....	2.050	2.050	Sheet-metal workers.....	2.150	2.220
Sign painters.....	2.500	2.500	Sheet-metal workers.....	2.000	2.050	Sign painters.....	2.100	2.175
Stonemasons.....	2.500	2.500	Sign painters.....	2.125	2.125	Steam fitters.....	2.250	2.250
Structural and ornamental-iron workers.....	2.500	2.500	Steam fitters.....	2.250	2.250	Sprinkler fitters.....	2.000	2.200
Tile layers.....	2.500	2.500	Sprinkler fitters.....	2.200	2.200	Stonemasons.....	2.250	2.250
<i>Helpers and laborers</i>			Stonemasons.....	1.810	1.930	Structural-iron workers.....	2.175	2.175
Bricklayers' tenders.....	1.000	1.000	Stonemasons.....	2.200	2.200	Finishers.....	2.175	2.175
Building laborers.....	1.000	1.000	Structural-iron workers.....	2.050	2.050	Tile layers.....	1.900	2.250
Elevator constructors' helpers.....	1.575	1.750	Machine movers and riggers.....	2.050	2.050	<i>Helpers and laborers</i>		
Plasterers' laborers.....	1.250	1.250	Tile layers.....	2.150	2.250	Bricklayers' tenders.....	1.550	1.550
<b>MILWAUKEE, WIS.</b>			<i>Helpers and laborers</i>			Building laborers.....	1.450	1.450
<i>Journeyman</i>			Bricklayers' tenders.....	1.650	1.650	Composition roofers' helpers.....	1.470	1.570
Asbestos workers.....	2.200	2.200	Building laborers.....	1.550	1.550	Elevator constructors' helpers.....	1.550	1.570
Boilermakers.....	2.200	2.200	Composition roofers' helpers.....	1.250	1.250	Marble setters' helpers.....	1.550	1.550
Bricklayers.....	2.200	2.200	Elevator constructors' helpers.....	1.505	1.540	Plasterers' tenders.....	1.950	2.020
Sewer-tunnel and caissons.....	2.250	2.250	Marble setters' helpers.....	1.600	1.600	Plumbers' laborers (first 3 years).....	1.550	1.550
Carpenters.....	2.000	2.000	Plasterers' laborers.....	1.825	1.825	After 3 years.....	1.750	1.750
Wharf and bridge.....	2.025	2.125	Plumbers' laborers:			Sprinkler fitters' helpers.....	1.350	1.500
Millwrights.....	2.000	2.000	First man.....	1.900	1.900	Terrazzo workers' helpers.....	1.550	1.550
Cement finishers.....	1.950	1.950	Second man.....	1.800	1.800	Base-machine operators.....	1.800	1.800
Machine work.....	2.050	2.050	Sprinkler fitters' helpers.....	1.500	1.500	Tile layers' helpers.....	1.550	1.550
Mastic, marbelette, and composition floors and roofs.....	2.050	2.050	Terrazzo workers' helpers.....	1.700	1.800	<b>MOBILE, ALA.</b>		
Electricians (inside wiremen).....	2.000	2.250	Base-machine operators.....	1.850	1.950	<i>Journeyman</i>		
Elevator constructors.....	2.150	2.200	Tile layers' helpers.....	1.600	1.700	Boilermakers.....	2.000	2.250
Engineers—Power equipment operators:			<b>MINNEAPOLIS, MINN.</b>			Bricklayers.....	2.500	2.550
Building construction:			<i>Journeyman</i>			Carpenters.....	1.920	1.960
Heavy equipment:			Asbestos workers.....	2.250	2.320	Millwrights.....	2.170	2.210
Cranes, shovels, draglines.....	2.350	2.350	Boilermakers.....	2.150	2.250	Pile drivers and dock builders:		
Trench machines.....	2.350	2.350	Bricklayers and blocklayers.....	2.250	2.250	Untreated materials.....	2.045	2.085
Derricks.....	2.350	2.350	Carpenters, millwrights, pile drivers.....	2.050	2.050	Treated materials.....	2.175	2.215
Medium equipment:			Cement finishers.....	2.150	2.220	Cement finishers.....	1.920	1.960
Tractors or bulldozers under 40 horsepower.....	2.000	2.000	Composition floor.....	2.400	2.470	Electricians (inside wiremen).....	2.000	2.250
			Electricians (inside wiremen).....	2.210	2.300	Elevator constructors.....	1.925	2.265
			Elevator constructors.....	2.210	2.250	Engineers—Power equipment operators:		
						Air compressors.....	1.800	1.840
						Bulldozers.....	2.050	2.090
						Cranes, derricks, and draglines.....	2.175	2.215
						Hoists:		
						1 drum.....	2.050	2.090
						2 or more drums.....	2.175	2.215



TABLE 14.—Union scales of wages and hours for building trades in 77 cities, July 1, 1948, and July 1, 1949—Continued

[Hours are 40 per week for both years unless otherwise indicated]

Trade or occupation	Rate per hour		Trade or occupation	Rate per hour		Trade or occupation	Rate per hour	
	July 1, 1948	July 1, 1949		July 1, 1948	July 1, 1949		July 1, 1948	July 1, 1949
<b>MOBILE, ALA.—Continued</b>			<b>NEWARK, N. J.—Continued</b>			<b>NEW HAVEN, CONN.—Con.</b>		
<i>Journey men—Continued</i>			<i>Journey men—Continued</i>			<i>Journey men—Continued</i>		
Engineers—Power equipment operators—Continued			Engineers—Power equipment operators—Continued			Engineers—Power equipment operators—Continued		
Locomotives.....	\$2.050	\$2.090	Heavy construction—Con. Heavy equipment—Con.			Heavy construction—Con. Light equipment:		
Mixers:			Pile driving machines.....	\$3.125	\$3.125	Compressors.....	\$1.825	\$1.850
Under 10S.....	1.800	1.840	Back hoes, concrete pavers.....	3.000	3.000	Welding machines.....	2.100	2.200
10S or larger.....	2.050	2.090	Medium equipment:			Small concrete mixers, under 5 bags.....	1.825	1.850
Pumps.....	1.800	1.840	Cassion hoists.....	3.000	3.000	5 bags and over.....	1.825	2.000
Rollers.....	2.050	2.090	Shaft hoists.....	3.000	3.000	Marble setters.....	2.400	2.400
Scrapers.....	2.050	2.090	Excavating carry-all.....	2.750	2.750	Mosaic and terrazzo workers.....	2.400	2.400
Shovels.....	2.175	2.215	Light equipment:			Painters.....	2.000	2.000
Tournapulls.....	2.050	2.090	Small mixers, pumps.....	2.750	2.750	Paperhangers.....	2.000	2.000
Tractors:			Front end loaders and conveyors.....	2.750	2.750	Plasterers.....	2.400	2.400
Without power control attachments.....	1.800	1.840	Concrete pumps.....	2.750	2.750	Plumbers.....	2.250	2.250
With power control attachments.....	2.050	2.090	Glaziers.....	2.250	2.600	Rodmen.....	2.500	2.500
Glaziers.....	1.500	1.700	Lathers.....	2.250	2.750	Roofers, composition.....	2.250	2.250
Lathers.....	2.000	2.040	Machinists.....	2.400	2.400	Roofers, slate and tile.....	2.500	2.500
Marble setters.....	2.500	2.550	Mosaic and terrazzo workers.....	2.750	2.750	Pre-cast slabbers.....	2.750	2.750
Mosaic and terrazzo workers.....	2.500	2.550	Painters.....	2.300	2.500	Sheet-metal workers.....	2.000	2.250
Painters.....	1.800	1.800	Hardwood finishers.....	1.825	2.325	Sign painters.....	2.000	2.000
Spray.....	2.300	2.300	Structural steel.....	2.500	2.750	Steam and sprinkler fitters.....	2.250	2.250
Structural steel.....	1.925	2.050	Paperhangers.....	2.300	2.500	Stonemasons.....	2.400	2.400
Swing stage.....	1.925	1.925	Plasterers.....	2.150	2.250	Structural-iron workers.....	2.500	2.500
Paperhangers:			Plumbers.....	2.500	2.750	Tile layers.....	2.400	2.400
Provided tools are furnished.....	1.800	1.800	Rodmen.....	3.100	3.100	<i>Helpers and laborers</i>		
Provided tools are not furnished.....	1.925	1.925	Roofers, composition.....	2.850	2.850	Bricklayers' tenders.....	1.550	1.550
Plasterers.....	2.000	2.040	Roofers, slate and tile.....	3.000	3.000	Building laborers.....	1.550	1.550
Plumbers.....	2.250	2.250	Sheet-metal workers.....	2.750	2.750	Elevator constructors' helpers.....	1.690	1.690
Rodmen.....	1.950	1.990	Sign painters.....	2.500	2.500	Marble setters' helpers.....	1.650	1.650
Roofers, composition.....	1.800	1.840	Inside.....	1.900	2.150	Plasterers' laborers.....	1.550	1.550
Roofers, slate and tile.....	1.800	1.840	Steam fitters.....	2.500	2.875	Terrazzo workers' helpers.....	1.650	1.650
Sheet-metal workers.....	1.800	1.840	Sprinkler fitters.....	2.375	2.375	Tile layers' helpers.....	1.650	1.650
Steam fitters.....	2.250	2.250	Stonemasons.....	2.150	2.250	<b>NEW ORLEANS, LA.</b>		
Stonemasons.....	2.500	2.550	Structural-iron workers.....	3.100	3.100	<i>Journey men</i>		
Structural- and ornamental-iron workers.....	2.200	2.240	Tile layers.....	2.750	2.750	Asbestos workers.....	2.000	2.250
Riggers, finishers, and sheeters.....	2.450	2.500	<i>Helpers and laborers</i>			Home insulators.....	1.625	1.725
Tile layers.....	2.500	2.550	Bricklayers' tenders.....	2.125	2.125	Boilermakers.....	2.000	2.250
<i>Helpers and laborers</i>			Building laborers.....	2.125	2.125	Bricklayers.....	2.050	2.500
Bricklayers' tenders.....	1.000	1.050	Composition roofers' helpers.....	1.500	1.500	Carpenters.....	1.750	1.875
Mortar mixers.....	1.100	1.150	Elevator constructors' helpers.....	2.035	2.035	Millwrights.....	1.875	2.000
Building laborers.....	1.000	1.050	Plasterers' laborers.....	2.125	2.125	Cement finishers.....	2.000	2.300
Composition roofers' helpers.....	1.000	1.000	Steam fitters' helpers.....	1.625	1.875	Electricians (inside wiremen).....	2.000	2.240
Elevator constructors' helpers.....	1.350	1.585	Sprinkler fitters' helpers.....	1.500	1.500	Elevator constructors.....	2.000	2.240
Marble setters' helpers.....	1.000	1.050	Terrazzo workers' helpers.....	2.200	2.200	Engineers—Power equipment operators:		
Plasterers' laborers.....	1.000	1.050	Tile layers' helpers.....	2.200	2.200	Air compressors.....	1.625	1.875
Tile layers' helpers.....	1.000	1.050	<b>NEW HAVEN, CONN.</b>			Buildoers.....	1.625	1.875
<b>NEWARK, N. J.</b>			<i>Journey men</i>			Cranes, derricks, and draglines.....	1.875	2.125
<i>Journey men</i>			<i>Journey men</i>			Graders, blade.....	1.625	1.875
Asbestos workers.....	2.500	2.625	Asbestos workers.....	2.250	2.325	Hoists:		
Home insulators.....	1.500	1.650	Bricklayers.....	2.400	2.400	1 drum, under 4 stories.....	1.625	1.875
Boilermakers.....	2.750	2.750	Bricklayers.....	2.100	2.100	1 drum, 4 stories and over.....	1.875	2.125
Bricklayers.....	3.150	3.250	Carpenters.....	2.135	2.135	2 drums.....	1.875	2.125
Carpenters.....	2.900	3.000	Cement finishers.....	2.400	2.400	Mixers:		
Millwrights.....	2.900	3.000	Electricians (inside wiremen).....	2.000	2.250	Paving.....	1.875	2.125
Wharf and bridge.....	2.750	2.750	Elevator constructors.....	2.410	2.410	16S and smaller.....	1.625	1.875
Cement finishers.....	3.150	3.250	Engineers—Power equipment operators:			Pumps, over 3 inches.....	1.625	1.875
Electricians (inside wiremen).....	2.750	3.000	Building construction:			Rollers.....	1.875	2.125
Elevator constructors.....	2.750	2.750	Heavy equipment:			Brick and asphalt.....	1.625	1.875
Engineers—Power equipment operators:			Cranes, steel.....	2.250	2.370	Except brick and asphalt.....	1.625	1.875
Building construction:			Shovels.....	2.100	2.200	Scrapers.....	1.625	1.875
Heavy equipment:			Derricks.....	2.100	2.370	Shovels.....	1.875	2.125
Power shovels, cranes.....	3.000	3.000	Medium equipment:			Trenching machines.....	1.875	2.125
Power cranes (steel erection).....	3.250	3.250	Hod-hoists.....	2.100	2.200	Glaziers.....	1.625	1.800
Trench machines, paving mixers.....	3.000	3.000	Compressors.....	1.825	1.850	Lathers.....	2.000	2.175
Medium equipment:			Bulldozers.....	1.700	1.800	Machinists.....	2.000	2.250
Hoists (single or double drum).....	3.000	3.000	Light equipment:			Marble setters.....	2.050	2.500
Central power plants.....	3.000	3.000	Well-points system.....	1.825	1.850	Mosaic and terrazzo workers.....	2.000	2.250
Concrete tower hoists.....	3.175	3.175	Welding machines, steel.....	2.250	2.370	Painters.....	1.625	1.750
Light equipment:			Small concrete mixers, under 5 bags.....	1.825	1.850	Spray, structural steel and swing stage.....	1.875	2.000
Air compressors (single).....	2.750	2.750	5 bags and over.....	1.825	2.000	Paperhangers.....	1.625	1.750
Pumps and small mixers.....	2.750	2.750	Heavy construction:			Plasterers.....	2.000	2.000
Concrete pumps.....	2.750	2.750	Heavy equipment:			Plumbers.....	2.250	2.250
Heavy construction:			Shovels, pile drivers, draglines.....	2.100	2.200	Rodmen.....	1.700	1.950
Heavy equipment:			Medium equipment:			Roofers, composition.....	1.625	1.725
Power shovels, cranes, drag lines.....	3.000	3.000	Pavers.....	1.825	2.200	Roofers, slate and tile.....	1.625	1.725
			Pumps.....	1.825	1.850	Sheet-metal workers.....	1.875	1.925
			Bulldozers.....	1.700	1.800	Sign painters.....	2.000	2.150
						Steam and sprinkler fitters.....	2.250	2.250

1 35-hour workweek.

TABLE 14.—Union scales of wages and hours for building trades in 77 cities, July 1, 1948, and July 1, 1949—Continued

[Hours are 40 per week for both years unless otherwise indicated]

Trade or occupation	Rate per hour		Trade or occupation	Rate per hour		Trade or occupation	Rate per hour	
	July 1, 1948	July 1, 1949		July 1, 1948	July 1, 1949		July 1, 1948	July 1, 1949
<b>NEW ORLEANS, LA.—Con.</b>			<b>NEW YORK, N. Y.—Con.</b>			<b>NORFOLK, VA.—Continued</b>		
<i>Journeyman—Continued</i>			<i>Journeyman—Continued</i>			<i>Journeyman—Continued</i>		
Stonemasons.....	\$2.050	\$2.500	Painters.....	\$2.300	\$2.450	Painters.....	\$1.750	\$1.875
Structural- and ornamental-iron workers.....	2.000	2.250	Brooklyn and Long Island City.....	\$2.300	\$2.500	Spray.....	2.000	2.125
Tile layers.....	2.000	2.250	Jamaica and Flushing.....	\$2.300	\$2.550	Structural steel.....	2.000	2.125
<i>Helpers and laborers</i>			Swing stage.....	\$2.630	\$2.914	Paperhangers.....	1.750	1.875
Bricklayers' tenders.....	1.025	1.125	Decorators and grainers.....	\$3.000	\$3.000	Plasterers.....	2.250	2.500
When mortar is mixed by machine.....	1.125	1.225	Structural steel.....	\$2.550	\$2.800	Plumbers.....	2.000	2.250
Building laborers.....	.925	1.025	Plasterers.....	\$3.000	\$3.200	Rodmen.....	1.750	1.900
Composition roofers' helpers.....	.950	1.050	Plumbers.....	\$3.000	\$3.000	Sheet-metal workers.....	1.750	1.750
Elevator constructors' helpers.....	1.400	1.570	Richmond.....	\$2.857	\$2.857	Sign painters.....	1.750	1.875
Marble setters' helpers.....	1.000	1.250	Brooklyn and Queens.....	\$2.813	\$2.813	Steam fitters.....	2.000	2.250
Plasterers' laborers.....	1.125	1.225	Rodmen.....	\$2.750	\$2.750	Stonemasons.....	2.500	2.500
Plumbers' laborers.....	1.050	1.050	Roofers, composition.....	2.750	\$2.750	Structural- and ornamental-iron workers.....	2.000	2.150
Steam and sprinkler fitters' helpers.....	1.050	1.050	Roofers, slate and tile.....	2.750	2.750	Tile layers.....	2.250	2.250
Terrazzo workers' helpers.....	1.000	1.250	Brooklyn, Queens, and Long Island.....	2.750	3.250	<i>Helpers and laborers</i>		
Tile layers' helpers.....	1.000	1.250	Sheet-metal workers.....	\$2.750	\$2.750	Elevator constructors' helpers.....	1.435	1.540
<b>NEW YORK, N. Y.</b>			Sign painters.....	\$2.527	\$2.527	<b>OAKLAND, CALIF.</b>		
<i>Journeyman</i>			Outdoor advertising.....	\$3.221	\$3.221	<i>Journeyman</i>		
Asbestos workers.....	\$2.750	\$2.750	Steam and sprinkler fitters.....	\$2.750	\$2.750	Asbestos workers.....	1.900	2.160
Boilermakers.....	2.750	2.750	Stonecutters.....	\$2.750	\$2.750	Boilermakers.....	2.150	2.350
Bricklayers.....	\$3.200	\$3.200	Stonemasons.....	\$3.200	\$3.200	Bricklayers.....	2.150	2.813
Carpenters.....	\$2.750	\$2.750	Long Island.....	\$3.000	\$3.000	Carpenters.....	2.160	2.160
Wharf and bridge.....	2.750	2.750	Structural-iron workers.....	3.000	3.000	Floor layers.....	2.285	2.285
Cement finishers.....	\$2.750	\$2.750	Finishers.....	\$2.750	\$2.750	Millwrights.....	2.285	2.285
Electricians (inside wiremen).....	\$2.500	\$3.000	Tile layers.....	2.750	2.750	Shinglers.....	2.285	2.285
Elevator constructors.....	2.750	2.750	<i>Helpers and laborers</i>			Cement finishers.....	2.150	2.150
Engineers—Power equipment operators:			Bricklayers' tenders.....	\$1.950	\$1.950	Composition.....	2.275	2.275
Building construction:			Building laborers.....	\$1.950	\$1.950	Machine men.....	2.275	2.275
Heavy equipment:			Excavating.....	1.700	1.700	Electricians (inside wiremen).....	2.400	2.500
Steel erection (cranes and derricks).....	3.250	3.250	Elevator constructors' helpers.....	2.035	2.035	Elevator constructors.....	2.370	2.530
Hoists and concrete buckets (stone derricks).....	\$3.000	\$3.000	Plasterers' laborers.....	\$2.100	\$2.300	Engineers—Power equipment operators:		
Scrapers and tournapulls.....	2.500	2.500	Brooklyn.....	\$2.400	\$2.400	Building construction:		
Medium equipment:			Plumbers' laborers.....	1.750	1.900	Heavy equipment:		
Welding machines and compressors.....	2.750	2.750	Excavating.....	1.700	1.900	Derricks.....	2.375	2.375
Plaster (platform machines).....	\$3.000	\$3.000	Terrazzo workers' helpers.....	2.200	2.200	Tractor-type shovel loaders.....	2.375	2.375
Bulldozers, tractors, locomotives (10 tons and under), motor patrols, road finishing machines, mixers under 21E.....	2.375	2.375	Tile layers' helpers.....	2.200	2.200	Medium equipment:		
Heavy construction:			<b>NORFOLK, VA.</b>			Material hoists.....	2.125	2.125
Heavy equipment:			<i>Journeyman</i>			Mixermobiles.....	2.275	2.275
Pile drivers and shovels.....	3.125	3.125	Asbestos workers.....	1.875	2.125	Scoopmobiles (when used as hoist).....	2.125	2.125
Cranes (digging bucket).....	3.000	3.000	Bricklayers.....	2.500	2.500	Scoopmobiles (when used as loader).....	2.275	2.275
Scrapers and tournapulls.....	2.500	2.500	Carpenters.....	1.750	1.750	Light equipment:		
Medium equipment:			Millwrights.....	2.100	2.100	Compressors.....	1.875	1.875
Cranes (structural steel).....	3.250	3.250	Cement finishers.....	1.625	1.750	Compressors (more than one).....	2.175	2.175
Mixers (concrete) and power houses.....	2.875	2.875	Electricians (inside wiremen).....	2.000	2.100	Towermobiles.....	2.125	2.125
Bulldozers, tractors, locomotives (10 tons and under), motor patrols, road finishing machines, mixers under 21E.....	2.375	2.375	Elevator constructors.....	2.050	2.200	Concrete mixers (up to 1 yard).....	1.875	1.875
Light equipment:			Engineers—Power equipment operators:			Heavy construction:		
Compressors (portable, 3 or more in battery), double-drum hoists and pumps (concrete).....	2.750	\$2.750	Air compressors.....	1.625	1.750	Heavy equipment:		
Glaziers.....	\$2.750	\$2.750	Bulldozers.....	1.750	1.875	Power shovels (up to and including 1 yard).....	2.525	2.525
Granite cutters:			Cranes, derricks, and draglines.....	1.875	2.125	Power shovels (over 1 yard).....	2.375	2.375
Outside.....	\$2.571	\$2.571	Graders:			Le Tourneau pulls.....	2.375	2.375
Inside.....	\$2.286	\$2.286	Blade.....	1.625	1.750	Highline cableways.....	2.525	2.525
Lathers.....	\$3.000	\$3.000	Motor.....	1.750	1.875	Medium equipment:		
Brooklyn.....	\$2.750	\$2.750	Hoists:			Mucking machines.....	2.350	2.350
Queens and Long Island.....	\$2.857	\$2.857	1 drum.....	1.625	1.750	Dual-drum mixers.....	2.275	2.275
Machinists.....	2.500	2.750	2 or more drums.....	1.875	2.125	Tractors.....	2.225	2.225
Marble setters.....	2.750	2.750	Locomotives.....	1.625	1.750	Light equipment:		
Mosaic and terrazzo workers.....	2.750	2.750	Mixers:			Locomotives.....	1.975	1.975
			10S or smaller.....	1.500	1.625	Locomotives (steam or over 30 tons).....	2.225	2.225
			Larger than 10S.....	1.625	1.750	Truck cranes.....	2.375	2.375
			Pumps:			Glaziers.....	2.000	2.000
			2 inch discharge.....	1.400	1.525	Lathers.....	2.500	3.000
			Over 2 inch discharge.....	1.625	1.750	Mosaic and terrazzo workers.....	2.250	2.250
			Rollers.....	1.625	1.750	Dry-base machine operators.....	2.250	2.250
			Scrapers.....	1.875	2.125	Painters.....	2.150	2.150
			Shovels.....	1.875	2.125	Plasterers.....	2.500	3.000
			Tournapulls.....	1.875	2.125	Plumbers.....	2.375	2.500
			Tractors:			Rodmen.....	1.750	2.150
			Without attachments.....	1.625	1.750	Roofers, composition.....	2.000	2.250
			With attachments.....	1.875	2.125	Sheet-metal workers.....	2.125	2.250
			Trenching machines.....	1.875	2.125	Sign painters.....	2.340	2.400
			Glaziers.....	1.750	1.875	Outdoor advertising.....	2.250	2.310
			Lathers.....	2.250	2.500			
			Marble setters.....	2.250	2.250			
			Mosaic and terrazzo workers.....	2.250	2.250			

\$ 30-hour workweek.      \$ 35-hour workweek.

TABLE 14.—Union scales of wages and hours for building trades in 77 cities, July 1, 1948, and July 1, 1949—Continued

[Hours are 40 per week for both years unless otherwise indicated]

Trade or occupation	Rate per hour		Trade or occupation	Rate per hour		Trade or occupation	Rate per hour	
	July 1, 1948	July 1, 1949		July 1, 1948	July 1, 1949		July 1, 1948	July 1, 1949
<b>OAKLAND, CALIF.—Con.</b>			<b>OMAHA, NEBR.—Continued</b>			<b>PEORIA, ILL.—Con.</b>		
<i>Journeyman—Continued</i>			<i>Journeyman—Continued</i>			<i>Journeyman—Continued</i>		
Steam fitters	\$2.375	\$2.500	Engineers—Power equipment operators—Continued			Engineers—Power equipment operators—Continued		
Stonemasons	2.813	2.813	Heavy construction—Con.			Heavy construction—Con.		
Structural-iron workers	2.400	2.400	Heavy equipment—Con.			Medium equipment:		
Ornamental	2.250	2.250	Scoops	\$1.750	\$1.750	Paving mixers	\$2.250	\$2.500
<i>Helpers and laborers</i>			Shovels	1.900	1.900	Motor-patrols	2.250	2.500
Bricklayers' tenders	2.250	2.250	Medium equipment:			Pile drivers	2.250	2.500
Building laborers	1.525	1.550	Bulldozers	1.750	1.750	Light equipment:		
Elevator constructors' helpers	1.660	1.770	Patrols	1.750	1.750	Air compressors	1.800	2.000
Plasterers' laborers	2.250	2.650	Tractors	1.750	1.750	Mixers, 3 bag and under	1.700	1.800
Terrazzo workers' helpers	1.625	1.785	Light equipment:			Pumps	1.600	1.800
Wet-machine men	1.625	1.785	Blade graders	1.750	1.750	Glaziers	2.125	2.200
Terrazzo polishers	1.625	1.785	Motor graders	1.750	1.750	Lathers	2.250	2.500
<b>OKLAHOMA CITY, OKLA.</b>			Wheel tractors	1.750	1.750	Machinists	2.250	2.325
<i>Journeyman</i>			Glaziers:			Marble setters	2.500	2.575
Asbestos workers	2.000	2.250	Outside	1.700	1.825	Mosaic and terrazzo workers	2.500	2.575
Bricklayers	2.500	3.000	Inside	1.400	1.525	Painters	2.000	2.075
Carpenters	2.000	2.125	Lathers	2.150	2.275	Swing stage	2.250	2.325
Millwrights and pile drivers	2.175	2.300	Machinists:			Paperhangers	2.000	2.075
Cement finishers	2.000	2.250	Outside	2.000	2.000	Plasterers	2.500	2.575
Electricians (inside wiremen)	2.250	2.250	Welders	2.000	2.000	Plumbers	2.375	2.450
Elevator constructors	2.110	2.500	Marble setters	2.100	2.250	Rodmen	2.375	2.450
Glaziers	1.625	1.750	Mosaic and terrazzo workers	2.100	2.250	Roofers, composition	2.125	2.200
Lathers	2.500	3.000	Painters	1.750	1.850	Roofers, slate and tile	2.125	2.200
Marble setters	2.250	2.250	Spray and structural steel	2.000	2.100	Sheet-metal workers	2.250	2.250
Mosaic and terrazzo workers	2.250	2.250	Swing stage	2.000	2.100	Sign painters	2.150	2.250
Painters	1.800	1.875	Paperhangers	1.750	1.850	Steam fitters	2.375	2.400
Spray and structural steel	2.050	2.125	Plasterers	2.250	2.400	Structural-iron workers, erectors and finishers	2.375	2.450
Swing stage and scaffold over 30 feet	2.050	2.125	Plumbers	2.150	2.350	Tile layers	2.500	2.575
Paper hangers	1.800	1.875	Rodmen and reinforcers	2.050	2.175	<i>Helpers and laborers</i>		
Plasterers	2.500	3.000	Roofers, composition	1.625	1.725	Bricklayers' tenders	1.625	1.700
Plumbers	2.250	2.375	Roofers, slate and tile	1.825	1.925	Building laborers	1.625	1.700
Rodmen	1.750	1.125	Sheet-metal workers	1.875	2.000	Elevator constructors' helpers	1.520	1.690
Roofers, composition	1.650	1.650	Steam fitters	2.150	2.350	Marble setters' helpers	1.625	1.625
Roofers, slate and tile	1.650	1.650	Stonemasons	2.250	2.400	Plasterers' laborers	1.750	1.825
Sheet-metal workers	2.000	2.000	Structural-iron workers	2.150	2.175	Mortar mixers	1.625	1.700
Sign painters	1.950	2.000	Tile layers	2.100	2.250	Terrazzo workers' helpers	1.625	1.700
Steam fitters	2.250	2.250	<i>Helpers and laborers</i>			Base-machine operators	1.625	1.700
Stonemasons	2.500	3.000	Bricklayers' tenders and mortar mixers	1.200	1.300	Tile layers' helpers	1.625	1.625
Structural- and ornamental-iron workers	1.750	2.125	Hod carriers	1.325	1.425	<b>PHILADELPHIA, PA.</b>		
Tile layers	2.250	2.250	Building laborers	1.200	1.300	<i>Journeyman</i>		
<i>Helpers and laborers</i>			Elevator constructors' helpers	1.530	1.630	Asbestos workers	2.500	2.625
Bricklayers' tenders	1.150	1.350	Marble setters' helpers	1.450	1.550	Home insulators	1.450	1.550
Building laborers	1.000	1.200	Plasterers' laborers	1.325	1.425	Boilermakers	2.250	2.500
Elevator constructors' helpers	1.480	1.750	Terrazzo workers' helpers	1.450	1.550	Bricklayers:		
Plasterers' laborers	1.150	1.350	Base-machine operators	1.600	1.700	Agreement A	2.750	3.000
Plumbers' laborers	1.150	1.350	Tile layers' helpers	1.450	1.550	Agreement B:		
<b>OMAHA, NEBR.</b>			<b>PEORIA, ILL.</b>			Speculative	2.750	3.000
<i>Journeyman</i>			<i>Journeyman</i>			Operative	2.750	2.860
Asbestos workers	2.150	2.300	Asbestos workers	2.350	2.450	Carpenters	2.250	2.400
Bricklayers	2.250	2.400	Boilermakers	2.300	2.450	Cement finishers	2.250	2.400
Carpenters	1.950	2.075	Bricklayers	2.500	2.575	Residential or speculative	2.250	2.340
Millwrights	2.075	2.200	Carpenters	2.250	2.325	Electricians (inside wiremen)	2.375	2.750
Floor layers	1.950	2.075	Floor layers	2.250	2.325	Residential	2.375	2.450
Cement finishers	1.950	2.075	Bridge and wharf	2.250	2.325	Elevator constructors	2.580	2.730
Electricians (inside wiremen)	2.200	2.350	Millwrights	2.250	2.325	Engineers—Power equipment operators:		
Elevator constructors	2.180	2.335	Cement finishers	2.250	2.375	Building construction:		
Engineers—Power equipment operators:			Electricians (inside wiremen)	2.250	2.375	Heavy equipment:		
Building construction:			Elevator constructors	2.170	2.420	Cranes	2.250	2.500
Heavy equipment:			Engineers—Power equipment operators:			Derricks	2.250	2.500
Cranes	2.150	2.275	Building construction:			Bulldozers	2.250	2.500
Derricks	2.150	2.275	Heavy equipment:			Medium equipment:		
Shovels	2.150	2.275	Cranes	2.250	2.500	Hoists, 2 drum	2.250	2.500
Medium equipment:			Derricks	2.250	2.500	Mixers, 27E and larger	2.250	2.500
Air compressors	1.725	1.825	Bulldozers	2.250	2.500	Air compressors	1.950	2.000
Hoists	1.875	2.000	Medium equipment:			Light equipment:		
Pumps, concrete	1.875	2.000	Hoists, 2 drum	2.250	2.500	Pumps	1.800	2.000
Light equipment:			Mixers, 27E and larger	2.250	2.500	Mixers, 3 bag	1.800	1.800
Air tuggers	1.875	2.000	Air compressors	1.950	2.000	Hoists, 1 drum	1.900	2.000
Boom trucks	1.875	2.000	Light equipment:			Heavy construction:		
Hysters (lumber carrier)	1.875	2.000	Pumps	1.800	2.000	Heavy equipment:		
Heavy construction:			Mixers, 3 bag	1.800	1.800	Cranes	2.250	2.500
Heavy equipment:			Hoists, 1 drum	1.900	2.000	Scoops	2.250	2.500
Draglines	1.900	1.900	Heavy construction:			Bulldozers	2.250	2.500
			Cranes	2.250	2.500			
			Scoops	2.250	2.500			
			Bulldozers	2.250	2.500			

\* 35-hour workweek.

TABLE 14 —Union scales of wages and hours for building trades in 77 cities, July 1, 1948, and July 1, 1949—Continued

[Hours are 40 per week for both years unless otherwise indicated]

Trade or occupation	Rate per hour		Trade or occupation	Rate per hour		Trade or occupation	Rate per hour	
	July 1, 1948	July 1, 1949		July 1, 1948	July 1, 1949		July 1, 1948	July 1, 1949
<b>PHILADELPHIA, PA.—Con.</b>			<b>PHOENIX, ARIZ.—Con.</b>			<b>PITTSBURGH, PA.—Con.</b>		
<i>Journeyman—Continued</i>			<i>Journeyman—Continued</i>			<i>Journeyman—Continued</i>		
Engineers—Power equipment operators—Continued			Engineers—Power equipment operators—Continued			Paperhangers.....	\$2.200	\$2.200
Heavy construction—Con.			Heavy construction—Con.			Plasterers.....	2.625	2.625
Light equipment:			Medium equipment:			Plumbers.....	2.500	2.500
Welding machines.....	\$2.300	\$2.300	Locomotives.....	\$2.150	\$2.150	Rodmen.....	2.500	2.500
Compressors and pumps.....	2.175	2.175	Drilling machines, including water wells.....	2.150	2.150	Roofers, composition.....	2.250	2.250
Glaziers.....	2.090	2.190	Trenching machines.....	2.100	2.100	Roofers, slate and tile.....	2.250	2.500
30 feet or more above ground.....	2.240	2.340	Light equipment:			Sheet-metal workers.....	2.500	2.500
Granite cutters.....	1.928	1.928	Material loaders or conveyors.....	1.775	1.775	Sign painters.....	2.250	2.375
Without shed or cover.....	2.178	2.178	Train handlers (other than engine crews).....	1.650	1.650	Over 70 feet.....	2.500	2.625
Lathers.....	2.500	2.850	Glaziers.....	(1)	1.875	Steam fitters.....	2.500	2.500
Residential, speculative.....	2.250	2.340	Lathers.....	2.250	2.500	Sprinkler fitters.....	2.375	2.375
Machinists.....	2.150	2.400	Marble setters.....	3.000	3.000	Stonemasons.....	2.700	2.700
Marble setters.....	2.450	2.600	Mosaic and terrazzo workers.....	3.000	3.000	Structural-iron workers.....	2.500	2.500
Mosaic and terrazzo workers.....	2.450	2.600	Painters.....	1.850	2.000	Tile layers.....	2.125	2.500
Painters.....	2.050	2.275	Spray.....	2.025	2.000	<i>Helpers and laborers</i>		
Steel, spray, and swing stage.....	2.175	2.275	Swing stage.....	2.000	2.125	Bricklayers' tenders.....	1.750	1.750
Paperhangers.....	2.050	2.132	Structural steel.....	2.100	2.250	Building laborers.....	1.500	1.500
Plasterers.....	2.500	3.000	Paperhangers.....	2.000	2.125	Elevator constructors' helpers.....	1.795	1.795
Residential, speculative.....	2.500	2.600	Plasterers.....	2.500	2.500	Marble setters' helpers.....	1.500	1.500
Plumbers.....	2.500	2.750	Plumbers.....	2.250	2.250	Plasterers' laborers.....	1.750	1.750
Rodmen.....	2.250	2.400	Rodmen.....	2.100	2.100	Plumbers' laborers.....	1.575	1.575
Roofers, composition.....	2.150	2.275	Roofers, composition.....	1.750	1.900	Terrazzo workers' helpers.....	1.750	1.873
Roofers, slate and tile.....	2.550	2.700	Roofers, slate and tile.....	1.750	1.900	Without water.....	1.850	2.000
Sheet-metal workers.....	2.500	2.575	Sheet-metal workers.....	1.750	2.000	Tile layers' helpers.....	1.417	1.500
Sign painters.....	2.050	2.150	Sign painters.....	2.400	2.475	<b>PORTLAND, MAINE</b>		
Outdoor advertising.....	2.145	2.245	Steam fitters.....	2.250	2.250	<i>Journeyman</i>		
Steam fitters.....	2.500	2.750	Stonemasons.....	3.000	3.000	Bricklayers.....	2.000	2.250
Sprinkler fitters.....	2.375	2.375	Structural-iron workers.....	2.225	2.225	Carpenters.....	1.500	1.650
Stonemasons.....	2.400	3.000	Tile layers.....	3.000	3.000	Cement finishers.....	2.000	2.250
Residential, speculative.....	2.250	2.625	<i>Helpers and laborers</i>			Electricians (inside wiremen).....	1.825	1.825
Structural-iron workers.....	2.650	2.800	Bricklayers' tenders.....	1.825	1.825	Elevator constructors.....	1.890	2.060
Tile layers.....	2.400	2.550	Building laborers.....	1.450	1.450	Engineers—Power equipment operators:		
<i>Helpers and laborers</i>			Elevator constructors' helpers.....	1.570	1.730	Building construction:		
Bricklayers' tenders.....	1.250	1.375	Marble setters' helpers.....	1.500	1.750	Heavy equipment:		
Residential.....	1.450	1.510	Plasterers' laborers.....	2.025	2.025	Power shovels, pile drivers, hoisting engines.....	2.450	2.600
Building laborers.....	1.250	1.375	Terrazzo workers' helpers.....	1.500	1.750	Medium equipment:		
Residential.....	1.250	1.300	Tile layers' helpers.....	1.500	1.750	Bulldozers, concrete mixers, steam boilers.....	2.075	2.225
Elevator constructors' helpers.....	1.810	1.910	<b>PITTSBURGH, PA.</b>			Light equipment:		
Marble setters' helpers.....	1.800	1.950	<i>Journeyman</i>			Pumps, compressors, welding machines.....	2.000	2.150
Plasterers' laborers.....	1.775	1.950	Asbestos workers.....	2.250	2.500	Heavy construction:		
Residential.....	1.775	1.845	Boilermakers.....	2.250	2.500	Heavy equipment:		
Sprinkler fitters' helpers.....	1.500	1.500	Bricklayers.....	2.700	2.700	Power shovels, pile drivers, lighters.....	2.375	2.600
Terrazzo workers' helpers.....	1.950	1.950	Carpenters.....	2.500	2.500	Medium equipment:		
Tile layers' helpers.....	1.700	1.850	Cement finishers.....	2.500	2.500	Concrete mixers, steam boilers, bulldozers.....	2.000	2.225
<b>PHOENIX, ARIZ.</b>			Electricians (inside wiremen).....	2.375	2.625	Light equipment:		
<i>Journeyman</i>			Elevator constructors.....	2.565	2.565	Pumps, compressors, welding machines.....	2.000	2.150
Asbestos workers.....	2.000	2.250	Engineers—Power equipment operators:			Marble setters.....	2.000	2.250
Boilermakers.....	2.150	2.350	Building construction:			Mosaic and terrazzo workers.....	2.000	2.250
Bricklayers.....	3.000	3.000	Heavy equipment:			Painters.....	1.375	1.375
Carpenters.....	2.100	2.100	Shovels, cranes, and carry-all scoops.....	2.650	2.650	Paperhangers.....	1.375	1.375
Millwrights.....	2.225	2.225	Medium equipment:			Plasterers.....	2.000	2.000
Parquetry floor layers.....	2.350	2.350	Bulldozers, compressors, and hoists.....	2.550	2.550	Plumbers.....	2.000	2.000
Cement finishers.....	2.100	2.100	Light equipment:			Rodmen.....	1.875	1.125
Electricians (inside wiremen).....	2.250	2.250	Pumps, rollers, and welders.....	2.550	2.550	Steam fitters.....	2.000	2.000
Elevator constructors.....	2.250	2.460	Heavy construction:			Stonemasons.....	2.000	2.225
Engineers—Power equipment operators:			Heavy equipment:			Structural-iron workers.....	2.125	2.375
Building construction:			Shovels, cranes, and ditchers.....	2.475	2.550	Tile layers.....	2.000	2.250
Heavy equipment:			Medium equipment:			<i>Helpers and laborers</i>		
Elevator hoists.....	1.975	1.975	Bulldozers, graders, and carry-all scoops.....	2.300	2.370	Bricklayers' tenders.....	1.200	1.300
Concrete mixers (paving type and mobile mixer).....	2.125	2.125	Light equipment:			Building laborers.....	1.100	1.200
A-frame boom trucks.....	2.075	2.075	Compressors, pumps, and rollers.....	2.050	2.120	Elevator constructors' helpers.....	1.320	1.500
Medium equipment:			Glaziers.....	2.000	2.200	Plasterers' laborers.....	1.300	1.400
Skip loaders (wheel type).....	1.900	1.900	Lathers.....	2.625	2.625	Steam fitters' helpers.....	1.250	1.250
Ross carrier drivers.....	1.900	1.900	Machinists.....	2.500	2.500	Terrazzo workers' helpers.....	1.300	1.400
Concrete mixers (skip type).....	1.900	1.900	Marble setters.....	2.250	2.250	<b>PORTLAND, OREG.</b>		
Light equipment:			Mosaic and terrazzo workers.....	2.500	2.500	<i>Journeyman</i>		
Air compressors.....	1.775	1.775	Painters.....	2.200	2.200	Asbestos workers.....	2.200	2.375
Pumps.....	1.775	1.775	Grainers.....	2.530	2.530			
Heavy construction:			Structural steel.....	2.450	2.450			
Heavy equipment:								
Highline cableways.....	2.150	2.150						
Universal equipment operators (shovels, draglines, derricks, barges, clamshells, or cranes).....	2.225	2.225						

1 Information not available for rate and hours on July 1, 1948.

TABLE 14.—Union scales of wages and hours for building trades in 77 cities, July 1, 1948, and July 1, 1949—Continued

[Hours are 40 per week for both years unless otherwise indicated]

Trade or occupation	Rate per hour		Trade or occupation	Rate per hour		Trade or occupation	Rate per hour	
	July 1, 1948	July 1, 1949		July 1, 1948	July 1, 1949		July 1, 1948	July 1, 1949
<b>PORTLAND, OREG.—Con.</b>			<b>PORTLAND, OREG.—Con.</b>			<b>READING, PA.</b>		
<i>Journeyman—Continued</i>			<i>Journeyman—Continued</i>			<i>Journeyman</i>		
Boilermakers.....	\$2.150	\$2.350	Steam fitters.....	\$2.375	\$2.375	Asbestos workers.....	\$2.000	\$2.000
Bricklayers.....	2.500	2.750	Oil fitters.....	2.075	2.075	Bricklayers.....	2.350	2.500
Carpenters.....	1.925	2.100	Structural-iron workers.....	2.125	2.300	Carpenters.....	2.000	2.150
Millwrights.....	2.175	2.350	Ornamental finishers.....	2.125	2.300	Cement finishers.....	1.950	2.100
Floor layers.....	2.050	2.225	Tile layers.....	2.125	2.375	Electricians (inside wiremen).....	2.125	2.275
Pile drivers, bridge, dock and wharf builders.....	2.025	2.200	<i>Helpers and laborers</i>			Elevator constructors.....	2.300	2.300
Shinglers.....	2.125	2.300	Bricklayers' tenders.....	1.775	2.000	Engineers—Power equipment operators:		
Cement finishers.....	2.000	2.213	Building laborers.....	1.525	1.700	Building construction:		
Composition workers, mastic workers.....	2.125	2.338	Elevator constructors' helpers.....	1.570	1.730	Heavy equipment:		
Electricians (inside wiremen) and fixture hangers.....	2.000	2.350	Marble setters' helpers.....	1.775	2.000	Cranes (all types), derricks, power shovels.....	2.750	2.750
Elevator constructors.....	2.245	2.475	Plasterers' laborers.....	1.775	2.000	Medium equipment:		
Engineers—Power equipment operators:			Plumbers' laborers.....	1.525	1.700	Tournapulls.....	2.375	2.375
Building construction:			Terrazzo workers' helpers.....	1.775	2.000	Carry-alls.....	2.350	2.350
Heavy equipment:			Tile layers' helpers.....	1.755	2.000	Bulldozers and tractors.....	2.125	2.125
Power shovels, draglines, and cranes, under 1 cu. yd.....	(1)	2.250	<b>PROVIDENCE, R. I.</b>			Light equipment:		
Power shovels, draglines, and cranes, 1 cu. yd. and under 5 cu. yd.....	(1)	2.350	<i>Journeyman</i>			Welding machines.....	2.300	2.300
Power shovels, draglines, and cranes, 5 cu. yd. and over.....	(1)	2.700	Asbestos workers.....	2.050	2.350	Compressors and pumps.....	2.175	2.175
Tractors, over 50 horsepower.....	(1)	2.200	Boilermakers.....	2.250	2.450	Heavy construction:		
Medium equipment:			Bricklayers.....	2.450	2.450	Heavy equipment:		
Blades, power.....	(1)	2.200	Tunnel, sewer and caisson.....	2.750	2.750	Cranes (all types), cableways, and power shovels.....	2.750	2.750
Pile drivers.....	(1)	2.300	Carpenters.....	1.900	1.900	Medium equipment:		
Light equipment:			Cement finishers.....	2.000	2.000	Tournapulls.....	2.375	2.375
Hoists, single drum.....	(1)	2.000	Electricians (inside wiremen).....	2.000	2.250	Carry-alls.....	2.350	2.350
Hoists, 2 or more active drums.....	(1)	2.300	Elevator constructors.....	1.990	2.240	Bulldozers and tractors.....	2.125	2.125
Concrete mixers, 1- to 5-bag capacity.....	(1)	1.950	Engineers—Power equipment operators:			Light equipment:		
Concrete mixers, 5-bag capacity and over.....	(1)	2.100	Building construction:			Welding machines.....	2.300	2.300
Derricks, live boom.....	(1)	2.350	Heavy equipment:			Compressors and pumps.....	2.175	2.175
Heavy construction:			Cranes, shovels, draglines, and back hoes.....	2.250	2.500	Glaziers.....	1.780	1.900
Heavy equipment:			Medium equipment:			Lathers.....	2.000	2.150
Power shovels, draglines, and cranes, under 1 cu. yd.....	(1)	2.250	Hoists, pile drivers, and derricks.....	2.250	2.500	Painters.....	1.750	1.875
Power shovels, draglines, and cranes, 1 cu. yd. and under 5 cu. yd.....	(1)	2.350	Light equipment:			Spray.....	2.100	2.225
Power shovels, draglines, and cranes, 5 cu. yd. and over.....	(1)	2.700	Pumps, air compressors, and gas or electric heaters.....	1.925	2.125	Structural steel.....	1.850	1.975
Tractors, over 50 horsepower.....	(1)	2.200	Heavy construction:			Paperhangers.....	1.750	1.875
Medium equipment:			Heavy equipment:			Plasterers.....	2.400	2.500
Blades, power.....	(1)	2.200	Shovels, cranes, and draglines.....	2.250	2.500	Plumbers.....	2.125	2.275
Pile drivers.....	(1)	2.300	Medium equipment:			Rodmen.....	2.300	2.450
Light equipment:			Pile drivers, lighters, and derricks.....	2.250	2.500	Roofers, composition.....	1.800	1.900
Hoists, single drum.....	(1)	2.000	Light equipment:			Roofers, slate and tile.....	1.800	1.900
Hoists, 2 or more active drums.....	(1)	2.300	Mixers, pumps, and air compressors.....	1.925	2.125	Slab.....	2.150	2.250
Concrete mixers, 1- to 5-bag capacity.....	(1)	1.950	Pavers.....	2.250	2.500	Sheet-metal workers.....	2.000	2.025
Concrete mixers 5-bag capacity and over.....	(1)	2.100	Glaziers.....	2.000	2.000	Sign painters.....	1.500	1.500
Derricks, live boom.....	(1)	2.350	Granite cutters.....	1.875	1.875	Outside advertising and swing.....	1.750	1.750
Glaziers.....	1.960	1.960	Lathers.....	2.250	2.500	Steam fitters.....	2.125	2.275
Lathers.....	2.250	2.500	Marble setters.....	1.900	1.900	Stonemasons.....	2.350	2.500
Marble setters.....	2.100	2.400	Mosaic and terrazzo workers.....	1.900	1.900	Structural-iron workers.....	2.500	2.650
Mosaic and terrazzo workers.....	2.000	2.375	Painters.....	1.575	1.850	Tile layers.....	2.250	2.300
Painters.....	1.875	2.100	Structural steel.....	1.825	2.100	<i>Helpers and laborers</i>		
Bridge and structural steel.....	2.025	2.250	Paperhangers.....	1.575	1.850	Bricklayers' tenders.....	1.600	1.700
Spray.....	2.025	2.250	Plasterers.....	2.250	2.500	Building laborers.....	1.250	1.350
Swing stage.....	2.025	2.250	Plumbers.....	2.250	2.250	Elevator constructors' helpers.....	1.610	1.610
Paperhangers.....	2.025	2.250	Rodmen.....	2.250	2.250	Plasterers' laborers.....	1.600	1.600
Plasterers.....	2.350	2.600	Roofers, composition.....	1.800	1.950	Plumbers' laborers.....	1.250	1.350
Plumbers.....	2.375	2.375	Roofers, slate and tile.....	2.000	2.150	<b>RICHMOND, VA.</b>		
Rodmen.....	1.925	2.100	Sheet-metal workers.....	2.000	2.150	<i>Journeyman</i>		
Roofers, composition.....	2.000	2.200	Sign painters.....	1.750	1.750	Asbestos workers.....	1.875	2.125
Roofers, slate and tile.....	2.000	2.200	Steam fitters.....	2.250	2.250	Boilermakers.....	2.250	2.250
Sheet-metal workers.....	1.950	2.150	Stonemasons.....	2.450	2.450	Bricklayers.....	2.500	2.500
Sign painters.....	2.250	2.375	Structural-iron workers.....	2.250	2.250	Carpenters.....	1.800	1.880
			Tile layers.....	1.900	1.900	Millwrights.....	2.050	2.050
			<i>Helpers and laborers</i>			Cement finishers.....	1.750	1.800
			Bricklayers' tenders.....	1.400	1.500	Electricians (inside wiremen).....	2.000	2.100
			Building laborers.....	1.400	1.500	Elevator constructors.....	2.100	2.250
			Elevator constructors' helpers.....	1.390	1.570	Engineers—Power equipment operators:		
			Marble setters' helpers.....	1.350	1.350	Air compressors.....	1.625	1.625
			Plasterers' laborers.....	1.700	1.800	Bulldozers.....	1.750	1.750
			Terrazzo workers' helpers.....	1.350	1.350	Cranes, derricks, and draglines.....	1.875	1.875
			Tile layers' helpers.....	1.350	1.350	Graders:		
						Blade.....	1.625	1.625
						Motor.....	1.750	1.750
						Hoists:		
						1 drum.....	1.625	1.625
						2 or more drums.....	1.875	1.875

1 Information not available for rate and hours on July 1, 1948.    2 35-hour workweek.

TABLE 14.—Union scales of wages and hours for building trades in 77 cities, July 1, 1948, and July 1, 1949—Continued

[Hours are 40 per week for both years unless otherwise indicated]

Trade or occupation	Rate per hour		Trade or occupation	Rate per hour		Trade or occupation	Rate per hour	
	July 1, 1948	July 1, 1949		July 1, 1948	July 1, 1949		July 1, 1948	July 1, 1949
<b>RICHMOND, VA.—Continued</b>			<b>ROCHESTER, N. Y.—Con.</b>			<b>ROCK ISLAND (ILL.) DISTRICT<sup>5</sup>—Continued</b>		
<i>Journeyman—Continued</i>			<i>Journeyman—Continued</i>			<i>Journeyman—Continued</i>		
Engineers—Power equipment operators—Continued			Engineers—Power equipment operators—Continued			Glaziers	\$2.050	\$2.050
Locomotives	\$1.625	\$1.625	Heavy construction—Con.			Lathers	2.250	2.250
Mixers:			Light equipment:			Marble setters	2.000	2.150
10S or smaller	1.500	1.500	Dinky locomotives and pumps (4 inches and over)	\$2.050	\$2.200	Mosaic and terrazzo workers	2.000	2.150
Larger than 10S	1.625	1.625	Compressors (315 cu. ft. and over)	1.800	1.950	Painters	2.025	2.100
Pumps:			Pumps (under 4 inches)	1.450	1.600	Steel	2.150	2.225
2-inch discharge	1.400	1.400	Glaziers	1.825	1.950	Swing stage, triple ladder, window tracks and spray painters	2.150	2.225
Over 2-inch discharge	1.625	1.625	Lathers	2.225	2.375	Paperhangers	2.025	2.100
Rollers	1.625	1.625	Marble setters	2.200	2.410	Plasterers	2.375	2.375
Scrapers	1.875	1.875	Mosaic and terrazzo workers	2.200	2.410	Plumbers	2.250	2.350
Shovels	1.875	1.875	Painters	1.900	2.140	Rodmen	2.130	2.250
Tournapulls	1.875	1.875	Spray	1.900	2.140	Roofers, composition	2.050	2.150
Tractors:			Structural and bridge	2.060	2.240	Roofers, slate and tile	2.050	2.150
Without attachments	1.625	1.625	Paperhangers	1.990	2.200	Sheet-metal workers	2.000	2.200
With attachments	1.875	1.875	Plasterers	2.290	2.500	Sign painters	2.025	2.100
Trenching machines	1.875	1.875	Plumbers	2.250	2.400	Steam fitters	2.250	2.350
Lathers	1.875	1.225	Roofers, composition	1.925	2.100	Structural-iron workers	2.130	2.250
Machinists	2.000	2.250	Roofers, slate and tile	1.925	2.100	Tile layers	2.000	2.150
Marble setters	2.500	2.500	Sheet-metal workers	2.100	2.250			
Mosaic and terrazzo workers	2.250	2.250	Sign painters	2.000	2.000	<i>Helpers and laborers</i>		
Painters	1.625	1.675	Steam fitters	2.250	2.400	Bricklayers' tenders	1.400	1.500
Spray	2.075	2.075	Stonemasons	2.290	2.500	Mortar mixers	1.500	1.600
Structural steel and stage work above 50 feet	1.875	1.875	Tile layers	2.200	2.410	Building laborers	1.400	1.500
Paperhangers	1.625	1.625				Ditch and tunnel work	1.500	1.600
Plasterers	2.250	2.330	<i>Helpers and laborers</i>			Elevator constructors' helpers	1.430	1.590
Plumbers	2.000	2.250	Bricklayers' tenders	1.450	1.600	Marble setters' helpers	1.250	1.500
Rodmen	2.000	2.000	Building laborers	1.450	1.600	Plasterers' laborers	1.750	1.875
Roofers, composition	1.800	1.800	Composition roofers' helpers	1.450	1.600	Mortar mixers	1.750	1.875
Sheet-metal workers	1.875	2.000	Elevator constructors' helpers	1.585	1.695	Plumbers' laborers	1.400	1.500
Sign painters	1.750	1.750	Marble setters' helpers	1.475	1.625	Terrazzo workers' helpers	1.250	1.500
Steam fitters	2.000	2.250	Plasterers' laborers	1.450	1.600	Base grinders	1.250	1.500
Stonemasons	2.500	2.500	Terrazzo workers' helpers	1.475	1.625	Tile layers' helpers	1.250	1.500
Structural and ornamental-iron workers	2.250	2.250	Machine operators and grinders	1.575	1.725			
Tile layers	2.250	2.250	Tile layers' helpers	1.475	1.625	<b>ST. LOUIS, MO.</b>		
						<i>Journeyman</i>		
<i>Helpers and laborers</i>			<b>ROCK ISLAND (ILL.) DISTRICT<sup>5</sup></b>			Asbestos workers	2.250	2.500
Bricklayers' tenders	1.250	1.250	<i>Journeyman</i>			Boilermakers	2.250	2.400
Hod carriers and mortar mixers	1.250	1.250	Asbestos workers	2.000	2.150	Bricklayers	2.750	3.000
Building laborers	.900	.900	Boilermakers	1.850	1.850	Sewer, over 6 feet, open work	3.000	3.450
Elevator constructors' helpers	1.470	1.575	Bricklayers	2.350	2.500	Carpenters	2.450	2.450
			Carpenters	2.025	2.125	Millwrights	2.450	2.450
<b>ROCHESTER, N. Y.</b>			Floor layers	2.025	2.125	Pile drivers, wharf	2.450	2.450
<i>Journeyman</i>			Millwrights	2.025	2.125	Cement finishers	2.375	2.500
Asbestos workers	2.250	2.400	Cement finishers	1.985	2.080	On swinging scaffold	2.500	2.625
Boilermakers	2.400	2.400	Electricians (inside wiremen)	2.250	2.350	Composition	2.625	2.750
Bricklayers	2.290	2.500	Elevator constructors	2.040	2.270	Electricians (inside wiremen)	2.250	2.500
Carpenters	2.060	2.210	Engineers—Power equipment operators:			Elevator constructors	2.300	2.540
Cement finishers	2.290	2.500	Building construction:			Engineers—Power equipment operators:		
Electricians (inside wiremen)	2.250	2.300	Heavy equipment:			Building construction:		
Elevator constructors	2.265	2.420	Concrete mixers	2.120	2.220	Heavy equipment:		
Engineers—Power equipment operators:			2 drum hoists	2.120	2.220	Crane-dragline-shovel combination	2.550	2.550
Building construction:			Shovels, derricks	2.120	2.220	Derricks (all types)	2.550	2.550
Heavy equipment:			Medium equipment:			Pile drivers	2.550	2.550
Cranes, derricks, and pile drivers	2.400	2.550	Concrete pumps	2.000	2.100	Medium equipment:		
Medium equipment:			Front end loaders	2.000	2.100	Boring machines (footing foundation)	2.550	2.550
Holists, high pressure boilers, and pump creek machines	2.250	2.400	Single-drum hoists	2.000	2.000	Combination hoists and concrete mixers	2.550	2.550
Light equipment:			Light equipment:			Tractor shovels, Hi-lift	2.550	2.550
Pumps (under 4 inches) and mixers (14S to 26S)	2.050	2.200	Air compressors	1.650	1.760	Light equipment:		
Pumps (4 inches and over) and mixers (under 14S)	1.800	1.950	Concrete mixers	1.650	1.760	Concrete pumps	2.550	2.550
Compressors (160 cu. ft. and over)	1.750	1.900	Stationary-boiler engineers	1.650	1.760	1 drum hoists	2.000	2.000
Compressors (under 160 cu. ft.)	1.450	1.600	Heavy construction:			Single compressors	2.000	2.000
Heavy construction:			Heavy equipment:			Heavy construction:		
Heavy equipment:			Concrete mixers	2.120	2.220	Heavy equipment:		
Cableways, pile drivers, cranes, and shovels	2.400	2.550	Mechanics	2.120	2.220	Crane-dragline-shovel combination	2.550	2.550
Medium equipment:			Shovels and all attachments	2.120	2.220	Derricks, all types	2.550	2.550
Mucking machines	2.250	2.400	Medium equipment:			Pile drivers	2.550	2.550
Carry-all type scrapers, bulldozers, and graders	2.050	2.200	Dozers, scraper equipment	2.000	2.100	Medium equipment:		
			Equipment greasers	2.000	2.100	Holists	2.000	2.000
			Motor patrols	2.000	2.100	Welding machines	2.000	2.000
			Light equipment:			Single compressors	2.000	2.000
			Air compressors	1.650	1.760			
			Stationary boiler engineers	1.650	1.760			
			Water pumps	1.650	1.760			

<sup>5</sup> Includes Rock Island and Moline, Ill., and Davenport, Iowa. <sup>6</sup> Davenport, Iowa—plumber rate \$2.250.

TABLE 14.—Union scales of wages and hours for building trades in 77 cities, July 1, 1948, and July 1, 1949—Continued

[Hours are 40 per week for both years unless otherwise indicated]

Trade or occupation	Rate per hour		Trade or occupation	Rate per hour		Trade or occupation	Rate per hour	
	July 1, 1948	July 1, 1949		July 1, 1948	July 1, 1949		July 1, 1948	July 1, 1949
<b>ST. LOUIS, MO.—Continued</b>			<b>ST. PAUL, MINN.—Continued</b>			<b>SALT LAKE CITY, UTAH—Continued</b>		
<i>Journeyman—Continued</i>			<i>Journeyman—Continued</i>			<i>Journeyman—Continued</i>		
Engineers—Power equipment operators—Continued			Glaziers	\$1.850	\$1.850	Engineers—Power equipment operators—Continued		
Heavy construction—Con.			Lathers	2.350	2.350	Heavy construction—Con.		
Light equipment:			Machinists	1.900	2.150	Medium equipment—Con.		
Boilers	\$2.000	\$2.000	Marble setters	2.250	2.250	Tractors	\$1.900	\$1.900
Pumps	2.000	2.000	Mosaic and terrazzo workers	2.150	2.250	Motor patrols	2.000	2.000
Concrete-mixing machines	2.000	2.000	Painters	1.900	1.900	Light equipment:		
Glaziers	2.250	2.500	Structural steel and swing stage	2.050	2.050	Engineers, dinkey	1.650	1.650
Lathers:			Spray	2.050	2.050	Engineers, locomotive	1.900	1.900
Wood	2.250	2.250	Paperhangers	1.900	1.900	Truck cranes	2.050	2.050
Metal	2.500	2.500	Plasterers	2.350	2.420	Glaziers	1.560	1.750
Machinists	2.250	2.500	Plumbers	2.250	2.320	Lathers, wood and metal	2.250	2.250
Marble setters	2.250	2.500	Rodmen	2.050	2.050	Machinists	2.000	2.000
Mosaic and terrazzo workers	2.300	2.500	Roofers, composition	1.900	2.000	Marble setters	2.050	2.050
Painters	2.070	2.320	Roofers, slate and tile	1.900	2.000	Mosaic and terrazzo workers	2.050	2.050
Paperhangers	2.070	2.320	Sheet-metal workers	2.150	2.150	Painters	1.750	1.825
Plasterers	2.500	2.500	Sign painters	2.100	2.175	Swing stage	1.875	1.950
Plumbers	2.250	2.500	Steam fitters	2.250	2.250	Spray gun	2.000	2.075
Rodmen	2.425	2.500	Pipe fitters	2.250	2.250	Paperhangers	1.875	1.950
Roofers, composition	2.125	2.375	Sprinkler fitters	2.000	2.200	Plasterers	2.250	2.250
Roofers, slate and tile	2.000	2.125	Refrigeration fitters	2.000	2.000	Plumbers	2.000	2.100
Precast slab	2.000	2.125	Stonemasons	2.250	2.250	Rodmen	1.875	2.000
Sheet-metal workers	2.600	2.500	Structural-iron workers	2.175	2.175	Roofers, composition	1.825	1.825
Sign and pictorial painters	2.365	2.500	Finishers	2.175	2.175	Roofers, slate and tile	1.825	1.825
Steam fitters	2.250	2.500	Tile layers	1.900	2.250	Sheet-metal workers	1.875	2.000
Sprinkler fitters	2.250	2.500				Sign painters	1.850	1.900
Stonemasons	2.750	2.750	<i>Helpers and laborers</i>			Steam fitters	2.000	2.100
Structural-iron workers	2.425	2.500	Bricklayers' tenders	1.450	1.450	Refrigerator fitters	2.000	2.100
Tile layers	2.175	2.500	Mortar mixers	1.550	1.550	Stonemasons	2.250	2.250
			Building laborers	1.450	1.450	Structural-iron workers	2.000	2.000
<i>Helpers and laborers</i>			Composition roofers' helpers	1.470	1.570	Ornamental finishers	2.000	2.000
Bricklayers' tenders (hod carriers)	1.800	1.900	Elevator constructors' helpers	1.550	1.575	Tile layers	2.050	2.050
Building laborers	1.500	1.500	Marble setters' helpers	1.550	1.550			
Wreckers, building	1.375	1.375	Plasterers' laborers	1.950	1.950	<i>Helpers and laborers</i>		
Elevator constructors' helpers	1.610	1.780	Plumbers' laborers	1.450	1.450	Bricklayers' tenders	1.650	1.650
Plasterers' laborers (hod carriers)	2.000	2.000	Sprinkler fitters' helpers	1.350	1.500	Building laborers	1.275	1.275
Plumbers' laborers:			Terrazzo workers' helpers:			Concrete	1.275	1.275
Agreement A	1.625	1.875	Floor-machine operators	1.550	1.550	Elevator constructors' helpers	1.470	1.470
Agreement B	1.625	1.750	Base-machine operators	1.800	1.800	Plasterers' laborers	1.900	1.900
Sprinkler fitters' helpers	1.350	1.500	Tile layers' helpers	1.550	1.550	Plumbers' laborers	1.275	1.275
Terrazzo workers' helpers	1.675	1.675						
Base-machine operators	1.850	1.850	<b>SALT LAKE CITY, UTAH</b>			<b>SAN ANTONIO, TEX.</b>		
Tile layers' helpers	1.500	1.700	<i>Journeyman</i>			<i>Journeyman</i>		
<b>ST. PAUL, MINN.</b>			<i>Journeyman</i>			<i>Journeyman</i>		
<i>Journeyman</i>			<i>Journeyman</i>			<i>Journeyman</i>		
Asbestos workers	2.250	2.250	Asbestos workers	1.840	2.000	Asbestos workers	2.000	2.250
Bricklayers	2.250	2.250	Boilermakers	2.150	2.350	Bricklayers	2.250	2.625
Tuck pointing	2.375	2.375	Bricklayers	2.250	2.250	Carpenters	1.750	2.000
Carpenters	2.050	2.050	Carpenters	1.825	1.825	Millwrights	1.750	2.250
Millwrights	2.050	2.050	Floor layers and scrapers	1.950	1.950	Cement finishers	2.250	2.250
File drivers	2.050	2.050	Millwrights, and saw filers	1.950	1.950	Electricians (inside wiremen)	2.250	2.250
Cement finishers	2.000	2.000	File drivers	2.125	2.250	Elevator constructors	2.175	2.425
Electricians (inside wiremen)	2.210	2.350	Cement finishers	1.825	1.825	Engineers—Power equipment operators:		
Elevator constructors	2.210	2.250	Composition floor layers	1.950	1.950	Air compressors	1.500	1.750
Engineers—Power equipment operators:			Finishing-machine operators	1.950	1.950	Bulldozers:		
Building construction:			Electricians (inside wiremen)	2.000	2.000	When cutting to finish grade	1.750	2.000
Heavy equipment:			Engineers—Power equipment operators:			Except when cutting to finish grade	1.500	1.750
Derricks	2.200	2.270	Building construction:			Cranes, derricks, and draglines	1.750	2.000
Cranes, shovels	2.200	2.270	Heavy equipment:			Graders:		
Pumpcretes	2.100	2.170	Derricks	2.050	2.050	Blade and elevating, self-propelled	1.750	2.000
Medium equipment:			Pile drivers	2.150	2.150	Blade and elevating, towed	1.500	1.750
Hoists	2.000	2.070	Tractors with front end loaders	1.900	1.900	1 drum	1.500	1.750
Concrete mixers	2.000	2.070	Medium equipment:			2 drums or more	1.750	2.000
Mechanics, welders	2.000	2.070	Hoists, 1-drum	1.750	1.750	Locomotives	1.750	2.000
Light equipment:			Hoists, 2-drum (both in use)	1.850	1.850	Mixers:		
Compressors	1.700	1.770	Mixermobiles	1.900	1.900	Under 14 cu. ft.	1.500	1.750
Firemen	1.550	1.620	Tractors, rubber-tired (industrial or farm-type)	1.650	1.650	Over 14 cu. ft. and over	1.750	2.000
Oilers	1.450	1.520	Light equipment:			Pumps, larger than 2 inches	1.500	1.750
Heavy construction:			Air compressors	1.625	1.625	Scrapers:		
Heavy equipment:			Air compressors, 2 or more	1.750	1.750	3 cu. yd. or less	1.500	1.750
Cranes, shovels	2.200	2.270	Concrete mixers, skip type	1.650	1.650	Over 3 cu. yd.	1.750	2.000
Dredges, engineers	2.200	2.270	Heavy construction:			Tractors, crawler type and wheel type (except when hauling material)	1.500	1.750
Derricks	2.200	2.270	Heavy equipment:			Trenching machines	1.750	2.000
Medium equipment:			Cranes, including equipment with boom	2.050	2.050	Glaziers	1.750	1.750
Mechanics, welders	2.000	2.070	Tournapulls or similar types	2.025	2.025	Lathers	2.500	2.750
Bulldozers, scrapers	2.000	2.070	Cableway engineers	2.050	2.050	Machinists	2.120	2.250
Graders, motor patrols	1.800	1.870	Medium equipment:			Marble setters	2.000	2.250
Light equipment:			Mucking machines (underground work)	2.150	2.150	Mosaic and terrazzo workers	2.000	2.250
Pumps, compressors	1.700	1.770	Concrete mixers, paving or batch plant	1.900	1.900			
Loaders, Barber Green	1.800	1.870						
Finishing machines	1.700	1.770						

TABLE 14.—Union scales of wages and hours for building trades in 77 cities, July 1, 1948, and July 1, 1949—Continued

[Hours are 40 per week for both years unless otherwise indicated]

Trade or occupation	Rate per hour		Trade or occupation	Rate per hour		Trade or occupation	Rate per hour	
	July 1, 1948	July 1, 1949		July 1, 1948	July 1, 1949		July 1, 1948	July 1, 1949
<b>SAN ANTONIO, TEX.—Continued</b>			<b>SAN FRANCISCO, CALIF.—Continued</b>			<b>SAVANNAH, GA.—Continued</b>		
<i>Journeyman—Continued</i>			<i>Journeyman—Continued</i>			<i>Journeyman—Continued</i>		
Painters.....	\$1.750	\$1.750	Machinists.....	\$2.270	\$2.270	Stonemasons.....	\$2.000	\$2.250
Spray and structural steel.....	2.000	2.000	Marble setters.....	2.250	2.375	Structural- and ornamental-iron workers.....	2.000	2.000
Swing stage.....	1.875	1.875	Mosaic and terrazzo workers.....	2.250	2.250	Sheeters.....	2.250	2.250
Paperhangers.....	1.750	1.750	Base-machine operators.....	2.250	2.250	Tile layers.....	2.000	2.250
Plasterers.....	2.500	2.750	Painters.....	2.150	2.150	<i>Helpers and laborers</i>		
Plumbers.....	2.125	2.375	Structural steel.....	2.150	2.150	Bricklayers' tenders.....	.850	.950
Rodmen.....	2.000	2.000	Paperhangers.....	2.150	2.150	Building laborers.....	.750	.850
Sheet-metal workers.....	2.250	2.250	Plasterers.....	2.250	2.500	Elevator constructors' helpers.....	1.260	1.435
Sign painters.....	1.063	1.500	Plumbers.....	2.375	2.500	Plasterers' laborers.....	.850	.950
Steam fitters.....	2.125	2.375	Rodmen.....	2.150	2.150	<b>SCRANTON, PA.</b>		
Stonemasons.....	2.250	2.625	Roofers, composition.....	2.160	2.250	<i>Journeyman</i>		
Structural- and ornamental-iron workers.....	2.250	2.250	Roofers, slate and tile.....	2.160	2.250	Asbestos workers.....	1.750	2.125
Tile layers.....	2.000	2.250	Sheet-metal workers.....	2.125	2.250	Bricklayers.....	2.500	2.500
<i>Helpers and laborers</i>			Sign painters.....	2.250	2.310	Carpenters.....	2.000	2.000
Bricklayers' tenders.....	1.170	1.170	Steam fitters.....	2.375	2.500	Millwrights.....	2.250	2.250
Hod carriers and mortar mixers.....	1.430	1.430	High pressures.....	2.375	2.500	Cement finishers.....	2.000	2.150
Building laborers.....	.900	.900	Low pressures.....	2.375	2.375	Electricians (inside wiremen).....	2.125	2.125
Elevator constructors' helpers.....	1.520	1.700	Oil burner fitters.....	2.375	2.500	Elevator constructors.....	2.030	2.320
Plasterers' laborers.....	1.430	1.430	Sprinkler fitters.....	2.375	2.500	<i>Engineers—Power equipment operators:</i>		
Plumbers' laborers.....	.940	.940	Stonemasons.....	2.813	3.000	Building construction:		
<b>SAN FRANCISCO, CALIF.</b>			Structural-iron workers.....	2.400	2.400	Heavy equipment:		
<i>Journeyman</i>			Finishers (ornamental).....	2.250	2.250	Cranes (all types), derricks, power shovels.....	2.750	2.900
Asbestos workers.....	1.900	2.160	Tile layers.....	2.375	2.675	Medium equipment:		
Boilermakers.....	2.150	2.350	<i>Helpers and laborers</i>			Tournapulls.....	2.375	2.525
Bricklayers.....	2.813	3.000	Bricklayers' tenders.....	2.250	2.250	Carry-alls.....	2.350	2.500
Carpenters.....	2.160	2.160	Building laborers.....	1.525	1.550	Bulldozers and tractors.....	2.125	2.275
Floor layers.....	2.285	2.285	Elevator constructors' helpers.....	1.660	1.770	Light equipment:		
Millwrights.....	2.285	2.285	Marble setters' helpers.....	1.650	1.750	Welding machines.....	2.300	2.300
Shinglers.....	2.285	2.285	Plasterers' laborers.....	2.100	2.100	Compressors and pumps.....	2.175	2.175
Cement finishers.....	2.150	2.150	Sprinkler fitters' helpers.....	1.450	1.450	Heavy construction:		
Composition.....	2.275	2.275	Terrazzo workers' helpers.....	1.625	1.785	Heavy equipment:		
Machine operators.....	2.275	2.275	Wet-machine men.....	1.625	1.785	Cranes (all types), power shovels, cableways.....	2.750	2.900
Electricians (inside wiremen) and fixture hangers.....	2.400	2.500	Terrazzo polishers.....	1.625	1.785	Medium equipment:		
Elevator constructors.....	2.370	2.530	Tile layers' helpers.....	1.788	1.970	Tournapulls.....	2.375	2.525
Engineers—Power equipment operators:			<b>SAVANNAH, GA.</b>			Carry-alls.....	2.350	2.500
Building construction:			<i>Journeyman</i>			Bulldozers and tractors.....	2.125	2.275
Heavy equipment:			Asbestos workers.....	1.875	2.125	Light equipment:		
Derricks.....	2.375	2.375	Boilermakers.....	2.000	2.250	Welding machines.....	2.300	2.300
Tractor-type shovel loaders.....	2.375	2.375	Bricklayers.....	2.000	2.250	Compressors and pumps.....	2.175	2.175
Medium equipment:			Carpenters.....	1.650	1.800	Glaziers.....	1.650	1.750
Material hoists.....	2.125	2.125	Cement finishers.....	1.875	1.875	Inside.....	1.400	1.450
Mixermobiles.....	2.275	2.275	Electricians (inside wiremen).....	1.750	2.000	Lathers.....	1.275	2.275
Scopmobiles (when used as hoists).....	2.125	2.125	Elevator constructors.....	1.800	2.050	Marble setters.....	2.250	2.250
Scopmobiles (when used as loaders).....	2.275	2.275	Engineers—Power equipment operators:			Mosaic and terrazzo workers.....	2.250	2.250
Light equipment:			Air compressors.....	1.750	1.750	Painters.....	1.750	1.875
Compressors.....	1.875	1.875	Bulldozers.....	1.750	1.750	Swing.....	1.875	2.000
Compressors (more than one).....	2.175	2.175	Cranes, derricks, and draglines.....	2.000	2.000	Steel.....	1.875	2.250
Towermobiles.....	2.125	2.125	Graders, blade.....	1.500	1.500	Paperhangers.....	1.750	1.875
Concrete mixers (up to 1 yd.).....	1.875	1.875	Hoists:			Plasterers.....	2.250	2.400
Heavy construction:			1 and 2 drums.....	1.750	1.750	Plumbers.....	2.075	2.150
Power shovels (up to and including 1 yd.).....	2.525	2.525	3 or more drums.....	2.000	2.000	Rodmen.....	2.550	2.720
Power shovels (over 1 yd.).....	2.625	2.625	Mixers:			Roofers, composition.....	2.000	2.000
Le Tourneau pulls.....	2.375	2.375	10S or smaller.....	1.500	1.500	Roofers, slate and tile.....	2.000	2.000
Highline cableways.....	2.525	2.525	Larger than 10S.....	1.750	1.750	Sheet-metal workers.....	1.875	2.125
Medium equipment:			Pumps.....	1.500	1.500	Steam fitters.....	2.075	2.150
Mucking machines.....	2.350	2.350	Rollers (road).....	1.750	1.750	Stonecutters.....	1.750	2.000
Dual-drum mixers.....	2.275	2.275	Scrapers, LeTourneau.....	1.750	1.750	Outside (finish).....	2.000	2.500
Tractors.....	2.225	2.225	Shovels.....	2.000	2.000	Stonemasons.....	2.500	2.500
Light equipment:			Trenchers.....	1.500	1.500	Structural-iron workers.....	2.650	2.820
Locomotives.....	1.975	1.975	Trenching machines.....	1.750	1.750	Tile layers.....	2.250	2.250
Locomotives (steam or over 30 tons).....	2.225	2.225	Glaziers.....	1.650	1.650	<i>Helpers and laborers</i>		
Truck cranes.....	2.375	2.375	Lathers.....	1.750	2.000	Bricklayers' tenders.....	1.400	1.500
Glaziers.....	2.000	2.000	Machinists.....	2.000	2.250	Building laborers.....	1.250	1.350
Granite cutters.....	1.875	2.000	Marble setters.....	2.000	2.250	Composition roofers' helpers.....	1.375	1.875
Lathers.....	2.813	2.813	Mosaic and terrazzo workers.....	2.000	2.250	Elevator constructors' helpers.....	1.420	1.620
			Painters:			Marble setters' helpers.....	1.250	1.250
			Commercial and residential.....	1.575	1.650	Plasterers' laborers.....	1.400	1.500
			Spray.....	3.000	3.000	Plumbers' laborers.....	1.250	1.350
			Structural.....	1.825	1.900	Terrazzo workers' helpers.....	1.250	1.250
			Paperhangers.....	1.700	1.775	Machine runners.....	2.000	2.000
			Plasterers.....	2.000	2.000	Tile layers' helpers.....	1.250	1.250
			Plumbers.....	2.250	2.350			
			Rodmen.....	1.750	1.750			
			Sheet-metal workers.....	1.750	1.750			
			Sign painters.....	1.575	1.650			
			Steam fitters.....	2.250	2.350			

\* 30-hour workweek.   \* 35-hour workweek.



TABLE 14.—Union scales of wages and hours for building trades in 77 cities, July 1, 1948, and July 1, 1949—Continued

[Hours are 40 per week for both years unless otherwise indicated]

Trade or occupation	Rate per hour		Trade or occupation	Rate per hour		Trade or occupation	Rate per hour	
	July 1, 1948	July 1, 1949		July 1, 1948	July 1, 1949		July 1, 1948	July 1, 1949
<b>SEATTLE, WASH.</b>			<b>SOUTH BEND, IND.</b>			<b>SPOKANE, WASH.—Continued</b>		
<i>Journey men</i>			<i>Journey men</i>			<i>Journey men—Continued</i>		
Asbestos workers.....	\$2.165	\$2.295	Asbestos workers.....	\$2.150	\$2.250	Bricklayers.....	\$2.250	\$2.500
Boilermakers.....	2.150	2.350	Boilermakers.....	2.350	2.350	Carpenters.....	1.850	2.200
Bricklayers.....	2.365	3.000	Bricklayers.....	2.400	2.575	Millwrights.....	2.260	2.260
Sewer and tunnel.....	2.490	3.125	Ground hog workers, sewer, tunnel, and caisson work.....	2.650	2.825	Cement finishers.....	2.250	2.350
Carpenters.....	2.065	2.195	Carpenters.....	2.100	2.205	Electricians (inside wiremen).....	2.150	2.280
Floor layers.....	2.165	2.295	Millwrights.....	2.100	2.205	Elevator constructors.....	2.200	2.400
Pile drivers, bridge and dock.....	2.115	2.245	Parquetry floor layers.....	2.100	2.205	Engineers—Power equipment op- erators:		
Shinglers.....	2.155	2.285	Wharf and bridge.....	2.100	2.205	Building construction:		
Cement finishers.....	2.065	2.195	Cement finishers.....	2.100	2.208	Heavy equipment:		
Composition and mastic floor layers.....	2.115	2.245	Electricians (inside wiremen) and fixture hangers.....	2.200	2.300	Cranes.....	2.000	2.350
Electricians (inside wiremen) and fixture hangers.....	2.265	2.395	Elevator constructors.....	2.270	2.380	Derricks.....	2.000	2.350
Elevator constructors.....	2.320	2.460	Engineers—Power equipment op- erators:			Hoists, 2 or more drums.....	1.900	2.100
Engineers—Power equipment op- erators:			Building construction:			Medium equipment:		
Building construction:			Heavy equipment:			Mixermobiles.....	1.900	2.150
Heavy equipment:			Shovels.....	2.300	2.415	Pumpcretes (linkbelt or similar).....	1.900	2.100
Shovels and cranes, all crawler and truck types.....	(1)	2.630	Draglines.....	2.300	2.415	Concrete mixers.....	1.650	1.900
Bulldozers, all.....	(1)	2.280	Large mixers.....	2.300	2.415	Light equipment:		
Carry-all type scrapers, single.....	(1)	2.280	Medium equipment:			Compressors, 1 only (port- able).....	1.650	1.750
Carry-all type scrapers, tandem.....	(1)	2.430	Cranes.....	2.300	2.415	Compressors, 2 or more (portable).....	1.650	1.800
Medium equipment:			Derricks.....	2.300	2.415	Pumps.....	1.650	1.750
Hoists.....	(1)	2.330	Hoists (1 drum).....	2.050	2.100	Heavy construction:		
Mixers, other than paving.....	(1)	2.330	Light equipment:			Heavy equipment:		
Pile driver engineers.....	(1)	2.400	Le Tourneau scoops and power blades.....	2.050	2.205	Power shovels and shovel rigged machines (cranes, clamshells, etc.).....	2.000	2.350
Light equipment:			Bulldozers.....	2.050	2.100	Power shovels, 4 yd. and over (factory rating).....	2.350	2.700
Forklifts or lumber stackers (on construction job site).....	(1)	2.280	Heavy construction:			Tractors.....	1.850	2.100
Compressors, excavating.....	(1)	2.080	Heavy equipment:			Highlines (cableway).....	2.000	2.350
Heavy construction:			Shovels.....	2.300	2.415	Medium equipment:		
Heavy equipment:			Draglines.....	2.300	2.415	Locomotives (over 12 tons).....	2.000	2.250
Shovels and cranes, all crawler and truck types.....	(1)	2.630	Large mixers.....	2.300	2.415	Derricks and pile drivers.....	2.000	2.350
Bulldozers, all.....	(1)	2.280	Medium equipment:			Traxcavators and similar loaders.....	1.850	2.100
Carry-all type scrapers, singles.....	(1)	2.280	Cranes.....	2.300	2.415	Light equipment:		
Carry-all type scrapers, tandem.....	(1)	2.430	Derricks.....	2.300	2.415	Compressors, 1 only (port- able).....	1.650	1.750
Medium equipment:			Hoists (1 drum).....	2.050	2.100	Compressors, 2 or more (portable).....	1.650	1.800
Hoists.....	(1)	2.330	Light equipment:			Pumps.....	1.650	1.750
Mixers, other than paving.....	(1)	2.330	Le Tourneau scoops.....	2.050	2.205	Glaziers.....	1.900	1.900
Pile driver engineers.....	(1)	2.400	Bulldozers.....	2.050	2.100	Lathers.....	2.300	2.300
Light equipment:			Power blades and motor patrols.....	2.050	2.205	Marble setters.....	2.100	2.250
Forklifts or lumber stackers (on construction job site).....	(1)	2.280	Glaziers.....	1.900	2.000	Mosaic and terrazzo workers.....	2.000	2.320
Compressors, excavating.....	(1)	2.080	Lathers.....	2.250	2.350	Painters.....	1.850	2.100
Glaziers (outside work).....	1.960	1.960	Marble setters.....	2.400	2.575	Spray.....	2.200	2.450
Inside work.....	1.960	1.960	Mosaic and terrazzo workers.....	2.400	2.575	Structural steel.....	2.100	2.350
Lathers, metal, wood, and wire.....	2.265	2.750	Painters.....	1.950	2.050	Paperhangers.....	1.850	2.100
Machinists.....	2.065	2.390	Paperhangers.....	1.950	2.050	Plasterers.....	2.500	2.500
Marble setters.....	2.265	2.395	Plasterers.....	2.250	2.500	Plumbers.....	2.500	2.500
Mosaic and terrazzo workers.....	2.115	2.245	Plumbers.....	2.200	2.300	Rodmen.....	1.800	2.250
Painters.....	2.065	2.195	Rodmen.....	2.300	2.415	Roofers, composition.....	1.850	2.000
Structural steel.....	2.190	2.320	Roofers, slate and tile.....	2.150	2.250	Roofers, slate and tile.....	1.850	2.000
Spray.....	2.065	2.195	Steeple work.....	2.300	2.400	Sheet-metal workers.....	2.250	2.250
Paperhangers.....	2.065	2.195	Sheet-metal workers.....	2.200	2.300	Steam fitters.....	2.500	2.500
Plasterers.....	2.365	2.495	Sign painters.....	1.900	1.900	Stonemasons.....	2.250	2.500
Plumbers.....	2.500	2.500	Steam fitters.....	2.200	2.300	Structural-iron workers.....	2.000	2.250
Rodmen.....	2.065	2.195	Stonemasons.....	2.400	2.575	Finishers.....	2.250	2.500
Roofers:			Structural-iron workers.....	2.300	2.415	Structural-iron workers.....	2.000	2.250
Composition, flat.....	2.065	2.195	Finishers.....	2.300	2.415	Finishers.....	2.000	2.250
Composition, steep.....	2.155	2.285	Machine movers and riggers.....	2.300	2.415	Tile layers.....	2.000	2.250
Roofers, slate and tile.....	2.155	2.285	Fence erectors.....	2.300	2.415			
Sheet-metal workers.....	2.215	2.345	Tile layers.....	2.400	2.575			
Sign painters.....	2.365	2.495						
Steam fitters.....	2.500	2.500						
Refrigeration.....	2.500	2.500						
Stonemasons.....	2.365	3.000						
Structural-iron workers.....	2.265	2.395						
Finishers.....	2.265	2.395						
Tile layers.....	2.115	2.245						
<i>Helpers and laborers</i>			<i>Helpers and laborers</i>			<i>Helpers and laborers</i>		
Bricklayers' tenders.....	1.915	2.045	Bricklayers' tenders.....	1.550	1.650	Bricklayers' tenders.....	1.550	1.800
Building laborers.....	1.665	1.795	Mortar mixers.....	1.700	1.800	Building laborers.....	1.350	1.600
Elevator constructors' helpers.....	1.624	1.722	Building laborers.....	1.550	1.650	Cement mixers.....	1.550	1.800
Marble setters' helpers.....	1.665	1.795	Composition roofers' helpers.....	1.600	1.700	Marble setters' helpers.....	1.550	1.800
Plasterers' laborers.....	1.915	2.045	Elevator constructors' helpers.....	1.590	1.670	Plasterers' laborers.....	2.100	2.100
Plumbers' laborers.....	1.665	1.795	Marble setters' helpers.....	1.550	1.650	Terrazzo workers' helpers.....	1.550	1.800
Terrazzo workers' helpers.....	1.665	1.795	Plasterers' laborers.....	1.700	1.800	Base- and floor-machine op- erators.....	1.550	1.800
Machine.....	1.715	1.845	Terrazzo workers' helpers.....	1.650	1.800	Tile layers' helpers.....	1.550	1.800
Tile layers' helpers.....	1.665	1.795	Base-machine operators.....	1.750	2.000			
			Tile layers' helpers.....	1.550	1.650			
<b>SPOKANE, WASH.</b>			<b>SPOKANE, WASH.</b>			<b>SPRINGFIELD, MASS.</b>		
<i>Journey men</i>			<i>Journey men</i>			<i>Journey men</i>		
Asbestos workers.....			Asbestos workers.....	1.870	2.250	Asbestos workers.....	2.200	2.325
Boilermakers.....			Boilermakers.....	1.870	2.350	Bricklayers.....	2.325	2.500
						Carpenters.....	1.875	2.000
						Cement finishers.....	2.325	2.500

1 Information not available for rate and hours on July 1, 1948.

TABLE 14.—Union scales of wages and hours for building trades in 77 cities, July 1, 1948, and July 1, 1949—Continued

[Hours are 40 per week for both years unless otherwise indicated]

Trade or occupation	Rate per hour		Trade or occupation	Rate per hour		Trade or occupation	Rate per hour	
	July 1, 1948	July 1, 1949		July 1, 1948	July 1, 1949		July 1, 1948	July 1, 1949
<b>SPRINGFIELD, MASS.—Con.</b>			<b>SYRACUSE, N. Y.—Con.</b>			<b>TOLEDO, OHIO—Continued</b>		
<i>Journeyman—Continued</i>			<i>Journeyman—Continued</i>			<i>Journeyman—Continued</i>		
Electricians (inside wiremen).....	\$2.200	\$2.350	Engineers—Power equipment operators—Continued			Glaziers.....	\$1.900	\$2.000
Elevator constructors.....	2.250	2.270	Heavy construction:			Lathers.....	2.400	2.400
Engineers—Power equipment operators:			Heavy equipment:			Marble setters, caulkers.....	2.400	2.400
Building construction:			Power shovels.....	\$2.400	\$2.550	Mosaic and terrazzo workers.....	2.250	2.250
Heavy equipment:			Power cranes.....	2.400	2.400	Painters.....	2.025	2.025
Cranes, 3 drum hoists and over, power shovels, trenching machines, and pile drivers.....	2.150	2.275	Scrapers.....	2.150	2.200	Spray.....	2.300	2.300
Medium equipment:			Medium equipment:			Brush, over 30 ft.....	2.325	2.325
Scrapers and tournapulls.....	1.750	1.875	Bulldozers.....	1.850	2.050	Spray, over 30 ft.....	2.600	2.600
Bulldozers.....	1.700	1.825	Compressors (over 500 cu. ft.).....	2.200	2.300	Steel.....	2.025	2.025
Light equipment:			Pumps (over 5 inches).....	1.700	1.800	Swing scaffold.....	2.275	2.275
1 and 2 drum hoists, pumps, boilers, or compressors.....	1.700	1.825	Light equipment:			Rigger brush, over 30 ft.....	2.275	2.275
Heavy construction:			Compressors (under 500 cu. ft.).....	1.550	1.650	Paperhangers.....	2.025	2.025
Heavy equipment:			Mixers (under 16S).....	1.700	1.800	Plasterers.....	2.400	2.400
Cranes, 3 drum hoists and over, power shovels, trenching machines, and pile drivers.....	2.150	2.275	Tractors.....	2.150	2.200	Plumbers.....	2.375	2.500
Medium equipment:			Glaziers.....	1.800	1.900	Rodmen.....	2.205	2.205
Scrapers and tournapulls.....	1.750	1.875	Lathers.....	2.250	2.500	Roofers, composition and built-up moppers.....	2.125	2.125
Bulldozers.....	1.700	1.825	Marble setters.....	2.200	2.300	Roofers, slate and tile.....	2.125	2.125
Light equipment:			Mosaic and terrazzo workers.....	2.200	2.300	Sheet-metal workers.....	2.125	2.125
1 and 2 drum hoists, pumps, boilers, or compressors.....	1.700	1.825	Painters.....	1.800	1.900	Sign painters.....	2.100	2.100
Glaziers.....	2.000	2.000	Spray.....	1.950	2.050	Steam fitters.....	2.375	2.500
Lathers.....	2.100	2.225	Structural steel.....	2.050	2.150	Stonemasons.....	2.400	2.400
Marble setters.....	2.325	2.500	Plasterers.....	2.250	2.500	Structural-iron workers.....	2.400	2.400
Mosaic and terrazzo workers.....	2.325	2.500	Plumbers.....	2.250	2.400	Finishers.....	2.400	2.400
Painters.....	1.875	2.000	Roofers, composition.....	2.000	2.200	Tile layers.....	2.250	2.250
Paperhangers.....	1.875	2.000	Roofers, slate and tile.....	2.000	2.200			
Plasterers.....	2.325	2.500	Sheet-metal workers.....	2.000	2.050	<i>Helpers and laborers</i>		
Plumbers.....	2.200	2.350	Sign painters.....	1.950	2.050	Bricklayers' tenders.....	1.720	1.820
Rodmen.....	2.300	2.450	Steam fitters.....	2.250	2.400	Building laborers.....	1.600	1.700
Roofers, composition.....	2.000	2.000	Structural-iron workers.....	2.150	2.400	Elevator constructors' helpers.....	1.680	1.680
Roofers, slate and tile.....	2.200	2.200	Tile layers.....	2.200	2.300	Marble setters' helpers.....	1.600	1.600
Sheet-metal workers.....	2.200	2.200				Plasterers' laborers.....	1.770	1.770
Sign painters.....	1.875	2.000	<i>Helpers and laborers</i>			Terrazzo workers' helpers.....	1.600	1.600
Steam fitters.....	2.200	2.350	Building laborers.....	1.250	1.450	Base grinders.....	1.725	1.725
Stonemasons:			Composition roofers' helpers.....	1.250	1.450	Tile layers' helpers.....	1.600	1.600
Inside.....	1.750	1.750	Elevator constructors' helpers.....	1.550	1.590			
Outside.....	2.100	2.500	Marble setters' helpers.....	1.400	1.550	<b>WASHINGTON, D. C.</b>		
Stonemasons.....	2.325	2.500	Steam fitters' helpers.....	1.400	1.550	<i>Journeyman</i>		
Structural-iron workers.....	2.300	2.450	Terrazzo workers' helpers.....	1.400	1.550	Asbestos workers.....	2.313	2.500
Tile layers.....	2.325	2.500	Tile layers' helpers.....	1.400	1.550	Boilermakers.....	2.250	2.250
						Bricklayers.....	2.375	3.000
<i>Helpers and laborers</i>			<b>TOLEDO, OHIO</b>			Carpenters.....	2.250	2.400
Bricklayers' tenders.....	1.500	1.625	<i>Journeyman</i>			Cement finishers.....	2.100	2.500
Building laborers.....	1.250	1.375	Asbestos workers.....	2.250	2.400	Electricians (inside wiremen).....	2.375	2.600
Elevator constructors' helpers.....	1.590	1.590	Boilermakers.....	2.400	2.500	Elevator constructors.....	2.400	2.800
Marble setters' helpers.....	1.600	1.700	Bricklayers.....	2.400	2.400	Engineers—Power equipment operators:		
Plasterers' laborers.....	1.500	1.625	Carpenters.....	2.175	2.300	Building construction:		
Terrazzo workers' helpers.....	1.600	1.700	Floor layers, pile drivers, wharf and bridge millwrights.....	2.175	2.300	Heavy equipment:		
Tile layers' helpers.....	1.600	1.700	Cement finishers.....	2.400	2.500	Cranes.....	2.375	2.500
			Electricians (inside wiremen).....	2.400	2.500	Shovels.....	2.375	2.500
<b>SYRACUSE, N. Y.</b>			Fixture hangers.....	2.250	2.350	Pile drivers.....	2.375	2.500
<i>Journeyman</i>			Elevator constructors.....	2.395	2.395	Medium equipment:		
Asbestos workers.....	2.250	2.400	Engineers—Power equipment operators:			Hoists (double drum).....	2.375	2.500
Boilermakers.....	2.250	2.500	Building construction:			Trenching machines.....	2.125	2.250
Bricklayers.....	2.350	2.600	Heavy equipment:			Hoists (single drum).....	2.125	2.250
Carpenters.....	1.950	2.200	Cranes (all types).....	2.400	2.500	Light equipment:		
Cement finishers.....	2.000	2.250	Power shovels.....	2.400	2.500	Compressors.....	1.975	2.100
Electricians (inside wiremen).....	2.350	2.475	Derricks.....	2.400	2.500	Pumps.....	1.975	2.100
Elevator constructors.....	2.210	2.270	Medium equipment:			Bulldozers.....	1.775	1.900
Engineers—Power equipment operators:			Power graders.....	2.150	2.250	Heavy construction:		
Building construction:			Rollers, asphalt.....	2.025	2.125	Heavy equipment:		
Heavy equipment:			Trench machines.....	2.150	2.250	Cranes.....	2.375	2.500
Cranes, pile drivers, and 2 and 3 drum hoists.....	2.400	2.600	Light equipment:			Shovels.....	2.375	2.500
Medium equipment:			Bulldozers.....	2.150	2.250	Pile drivers.....	2.375	2.500
1 drum hoists and pumps (4 inches and over).....	2.150	2.350	Pumps over 4 inches.....	2.025	2.125	Medium equipment:		
Compressors.....	1.850	2.050	Compressors.....	2.025	2.125	Hoists (double drum).....	2.375	2.500
Light equipment:			Heavy construction:			Trenching machines.....	2.125	2.250
Welding machines, lighting slants, and Harmon Nelson heaters or their equivalent.....	1.850	2.050	Heavy equipment:			Hoists (single drum).....	2.125	2.250
			Cranes (all types).....	2.400	2.500	Light equipment:		
			Power shovels.....	2.400	2.500	Compressors.....	1.975	2.100
			Derricks.....	2.400	2.500	Pumps.....	1.975	2.100
			Medium equipment:			Bulldozers.....	1.775	1.900
			Power graders.....	2.150	2.250	Glaziers.....	2.090	2.250
			Rollers.....	2.025	2.125	Lathers.....	2.500	2.750
			Trench machines.....	2.150	2.250	Machinists.....	2.250	2.250
			Light equipment:			Marble setters.....	2.625	2.750
			Bulldozers.....	2.150	2.250	Mosaic and terrazzo workers.....	2.375	2.650
			Pumps over 4 inches.....	2.025	2.125	Painters.....	2.180	2.300
			Compressors.....	2.025	2.125	Bridge, structural steel and spray.....	2.500	2.750

\* 35-hour workweek.

TABLE 14.—Union scales of wages and hours for building trades in 77 cities, July 1, 1948, and July 1, 1949—Continued

(Hours are 40 per week for both years unless otherwise indicated)

Trade or occupation	Rate per hour		Trade or occupation	Rate per hour		Trade or occupation	Rate per hour	
	July 1, 1948	July 1, 1949		July 1, 1948	July 1, 1949		July 1, 1948	July 1, 1949
<b>WASHINGTON, D. C.—Con.</b>			<b>WORCESTER, MASS.—Con.</b>			<b>YORK, PA.—Continued</b>		
<i>Journey men—Continued</i>			<i>Journey men—Continued</i>			<i>Journey men—Continued</i>		
Paperhangers.....	\$2.180	\$2.300	Engineers—Power equipment operators—Continued			Stonemasons.....	\$2.125	\$2.125
Plasterers.....	2.500	3.000	Building construction—Con.			Tile layers.....	2.125	2.125
Plumbers.....	2.250	2.500	Medium equipment:			<i>Helpers and laborers</i>		
Rodmen.....	2.200	2.450	Bulldozers, concrete mixers, and steam boilers.....	\$2.075	\$2.225	Bricklayers' tenders.....	1.375	1.375
Roofers, composition.....	1.700	1.900	Light equipment:			Building laborers.....	1.075	1.075
Roofers, slate and tile.....	2.250	2.250	Pumps, compressors, and welding machines.....	2.000	2.150	Composition roofers' helpers.....	.850	1.000
Sheet-metal workers.....	2.500	2.500	Heavy construction:			Marble setters' helpers.....	1.275	1.275
Sign painters.....	2.000	2.000	Heavy equipment:			Plasterers' laborers.....	1.375	1.375
Steam fitters.....	2.250	2.500	Power shovels, pile drivers, and lighters.....	2.375	2.600	Plumbers' laborers.....	1.200	1.200
Refrigeration and oil burner fitters:			Medium equipment:			Terrazzo workers' helpers.....	1.275	1.275
5 horsepower or less.....	1.875	2.000	Concrete mixers, steam boilers, and bulldozers.....	2.000	2.225	Tile layers' helpers.....	1.275	1.275
Over 5 horsepower.....	2.250	2.500	Light equipment:			<b>YOUNGSTOWN, OHIO</b>		
Sprinkler fitters.....	2.000	2.200	Pumps, compressors, and welding machines.....	2.000	2.150	<i>Journey men</i>		
Stonemasons.....	2.750	2.750	Glaziers.....	1.650	1.650	Asbestos workers.....	2.125	2.375
Structural-iron workers.....	2.625	2.750	Lathers.....	2.250	2.500	Bricklayers.....	2.500	2.625
Tile layers.....	2.375	2.650	Marble setters.....	2.350	2.500	Carpenters.....	2.125	2.250
<i>Helpers and laborers</i>			Mosaic and terrazzo workers.....	2.350	2.500	Millwrights.....	2.375	2.525
Bricklayers' tenders.....	1.275	1.350	Painters.....	1.650	1.650	Parquetry floor layers.....	2.125	2.250
Common laborers.....	1.275	1.300	Paperhangers.....	1.650	1.650	Pile drivers.....	2.375	2.525
Building laborers.....	1.250	1.350	Plasterers.....	2.350	2.500	Cement finishers.....	2.000	2.125
Composition roofers' helpers.....	1.250	1.450	Plumbers.....	2.000	2.125	Electricians (inside wiremen).....	2.250	2.375
Elevator constructors' helpers.....	1.680	1.960	Rodmen.....	2.250	2.400	Elevator constructors.....	2.275	2.275
Marble setters' helpers.....	1.500	1.750	Sign painters.....	1.650	1.650	Engineers—Power equipment operators:		
Plasterers' laborers.....	1.750	1.750	Steam fitters.....	2.000	2.125	Building construction:		
Plumbers' laborers.....	1.350	1.500	Structural-iron workers.....	2.250	2.400	Heavy equipment:		
Sprinkler fitters' helpers.....	1.350	1.500	Stonemasons.....	2.350	2.500	Carry-all scoops.....	2.300	2.375
Terrazzo workers' helpers.....	1.750	1.750	Tile layers.....	2.350	2.500	Cranes.....	2.300	2.375
Tile layers' helpers.....	1.750	1.750	<i>Helpers and laborers</i>			Shovels.....	2.300	2.375
<b>WICHITA, KANS.</b>			Bricklayers' tenders.....	1.400	1.500	Medium equipment:		
<i>Journey men</i>			Building laborers.....	1.300	1.400	Bulldozers.....	2.125	2.200
Asbestos workers.....	2.000	2.250	Elevator constructors' helpers.....	1.370	1.530	Compressors.....	1.938	2.013
Bricklayers.....	2.250	2.750	Plasterers' laborers.....	1.400	1.500	Hoists.....	2.300	2.375
Carpenters.....	1.750	1.875	<b>YORK, PA.</b>			Light equipment:		
Cement finishers.....	2.000	2.250	<i>Journey men</i>			Pumps.....	1.938	2.013
Electricians (inside wiremen).....	2.000	2.250	Asbestos workers.....	1.940	1.940	Rollers.....	1.938	2.013
Elevator constructors.....	2.105	2.250	Boilermakers.....	2.090	2.180	Welders.....	1.938	2.013
Lathers.....	2.250	2.250	Bricklayers.....	2.125	2.125	Heavy construction:		
Marble setters.....	2.000	2.000	Carpenters.....	1.625	1.625	Crane.....	2.300	2.375
Mosaic and terrazzo workers.....	2.000	2.000	Cement finishers.....	1.875	1.875	Ditchers.....	2.300	2.375
Painters.....	1.650	1.750	Electricians (inside wiremen).....	1.875	1.875	Shovels.....	2.300	2.375
Spray.....	2.000	2.000	Engineers—Power equipment operators:			Medium equipment:		
Stage and structural steel.....	1.775	1.875	Building construction:			Bulldozers.....	2.125	2.200
Paperhangers.....	1.775	1.875	Heavy equipment:			Graders.....	1.938	2.013
Plasterers.....	2.500	2.500	Cranes (all types), derricks, power shovels.....	2.750	2.900	Scoops, carry-all.....	2.300	2.375
Plumbers.....	2.150	2.250	Medium equipment:			Light equipment:		
Rodmen.....	1.875	2.125	Tournapulls.....	2.375	2.525	Compressors.....	1.938	2.013
Roofers, composition.....	1.750	1.750	Carry-alls.....	2.350	2.500	Pumps.....	1.938	2.013
Roofers, slate and tile.....	1.750	1.750	Bulldozers and tractors.....	2.125	2.275	Rollers.....	1.938	2.013
Sheet-metal workers.....	1.875	2.000	Light equipment:			Glaziers.....	2.000	2.225
Sign painters.....	1.750	1.875	Welding machines.....	2.300	2.300	Lathers (wood, wire and metal).....	2.375	2.500
Steam fitters.....	2.150	2.250	Compressors and pumps.....	2.175	2.175	Marble setters.....	2.000	2.125
Stonemasons.....	2.250	2.750	Heavy construction:			Mosaic and terrazzo workers.....	2.000	2.125
Structural-iron workers.....	1.875	2.125	Heavy equipment:			Painters.....	2.000	2.125
Tile layers.....	2.000	2.000	Cranes (all types), cable-ways, power shovels.....	2.750	2.900	Swing scaffold and structural-iron.....	2.125	2.250
<i>Helpers and laborers</i>			Medium equipment:			Spray.....	2.425	2.600
Bricklayers' tenders.....	1.250	1.375	Tournapulls.....	2.375	2.525	Paperhangers.....	2.000	2.125
Hod carriers.....	1.250	1.375	Carry-alls.....	2.350	2.500	Plasterers.....	2.375	2.500
Building laborers.....	1.125	1.250	Bulldozers and tractors.....	2.125	2.275	Plumbers.....	2.250	2.375
Elevator constructors' helpers.....	1.475	1.555	Light equipment:			Rodmen.....	2.250	2.375
Plasterers' laborers.....	1.250	1.375	Welding machines.....	2.300	2.300	Roofers, composition.....	2.000	2.125
Mortar mixers.....	1.250	1.375	Compressors and pumps.....	2.175	2.175	Roofers, slate and tile.....	2.000	2.125
Tile layers' helpers.....	1.250	1.375	Heavy construction:			Sheet-metal workers.....	2.125	2.250
<b>WORCESTER, MASS.</b>			Heavy equipment:			Sign painters.....	2.000	2.000
<i>Journey men</i>			Cranes (all types), cable-ways, power shovels.....	2.750	2.900	Steam fitters.....	2.250	2.375
Bricklayers.....	2.350	2.500	Medium equipment:			Pipe welders.....	2.250	2.375
Carpenters.....	1.750	2.025	Tournapulls.....	2.375	2.525	Stonemasons.....	2.500	2.625
Cement finishers.....	2.350	2.500	Carry-alls.....	2.350	2.500	Structural-iron workers.....	2.250	2.375
Electricians (inside wiremen).....	2.000	2.200	Bulldozers and tractors.....	2.125	2.275	Finishers, ornamental.....	2.250	2.375
Elevator constructors.....	1.960	2.190	Light equipment:			Electric welders.....	2.250	2.375
Engineers—Power equipment operators:			Welding machines.....	2.300	2.300	Sheeters.....	2.500	2.625
Building construction:			Compressors and pumps.....	2.175	2.175	Tile layers.....	2.000	2.125
Heavy equipment:			Machinists.....	2.090	2.180	<i>Helpers and laborers</i>		
Power shovels, pile drivers, and hoisting engines.....	2.450	2.600	Marble setters.....	2.125	2.125	Bricklayers' tenders.....	1.550	1.650
			Mosaic and terrazzo workers.....	2.125	2.125	Building laborers.....	1.450	1.550
			Painters.....	1.450	1.450	Elevator constructors' helpers.....	1.590	1.590
			Structural steel and pipe.....	1.700	1.700	Marble setters' helpers.....	1.500	1.600
			Spray.....	1.950	1.950	Plasterers' laborers.....	1.650	1.750
			Paperhangers.....	1.450	1.450	Plumbers' laborers.....	1.550	1.650
			Plasterers.....	2.125	2.125	Terrazzo workers' helpers.....	1.500	1.600
			Plumbers.....	1.750	1.900	Tile layers' helpers.....	1.500	1.600
			Roofers, composition.....	1.275	1.275			
			Roofers, slate and tile.....	1.625	1.625			
			Sheet-metal workers.....	2.000	2.025			
			Sign painters.....	1.450	1.450			
			Steam fitters.....	1.750	1.900			