## Monthly Labor Review

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## CONTENTS

## Special Articles

273 Readjustments in Consumer-Goods Industries
278 Great Britain: Employment Policies and Production
284 Selected Excerpts from "The Gift of Freedom"

## Summaries of Studies and Reports

289 Work Injuries in 1948: Preliminary Estimates
290 The Economic Reports of the President and the CEA
294 Obligations and Rights under Collective Bargaining
300 Practical Uses of Trade-Union Records
301 Hosiery Manufacture: Earnings in October 1948
303 Wage Chronology No. 4: Bituminous-Coal Mines, 1933-48
307 Footwear Manufacture: Earnings in October 1948
309 Local City Truck Driving: Union Scales, July 1, 1948
312 First Federal Mediation and Conciliation Service Report
313 Labor-Management Disputes in February 1949

## Technical Note

## 315 Measuring Intercity Differences in Living Costs

## Departments

III The Labor Month in Review
322 Recent Decisions of Interest to Labor
328 Chronology of Recent Labor Events
330 Publications of Labor Interest
336 Current Labor Statistics (list of tables)

## This Issue in Brief . . .

Early in 1949 two types of adjustments in the trends of employment and production in certain industries became discernible. Readjustments in Consumer-Goods Industries (p. 273) traces the trends in employment, man-hours, length of workweek, and turn-over which reflect the changed patterns. These factors indicated that a downward readjustment had begun long before nonfarm employment reached its all-time high late in 1948. The first industries to thus react were in the "luxury" class: entertainment, furs, jewelry, and liquors; but the readjustments (in the form of decreased employment or lowered prices, or both), were not great and did not affect the economy in general. A stronger effect accompanied the 1947 return to prewar seasonal patterns in such industries as textiles, apparel, shoes, radios, furniture, and rubber tires. By early 1949 there was a contraseasonal decline of about 850,000 workers in manufacturing employment, concentrated largely in consumer-goods industries, between September and January. The reports of lay-offs, short workweeks, shutdowns, and price reductions covered such consumer durables as washing machines, heating equipment, and refrigerators, in addition to textiles and apparel.

Another type of employment problem is described in Great Britain: Employment Policies and Production (p. 278). Contrary to expectation, reconversion unemployment, even while a 4 -million-person demobilization program was in process, never reached serious proportions. The problem as it then affected the British economy became one of shifting and expanding the labor force and increasing its output. Specialized (and knotty) problems emerged: e. g., provision of housing, manning the mines, adding shifts to industries critical to the export program. Ultimately (late 1947) it became necessary to reinstate certain controls. As expedients, 171,000 displaced persons were recruited from Europe and an intensive campaign was carried on to
induce women to enter the labor market. The labor force having about reached its potential, efforts are now concentrated on methods to increase productivity through more efficient processes, work methods, and work habits.

So far as economic policy for the United States is concerned, three recent pronouncements are worthy of note. The Economic Reports of the President and the CEA (p. 290) is a summary of the annual reports to the Congress required by the Employment Act of 1946 and of the President's State of the Union Message. A portion of the Council of Economic Advisers' report discusses the general noninterference policy of the Government in arriving at the labor contract. This expression of national policy in labormanagement relations leads to questions as to prerogatives of the parties to labor-management negotiations. Obligations and Rights Under Collective Bargaining (p. 294) takes up the specific problems of management functions and union rights and responsibilities. It is based on an analysis of more than 15,000 collective agreements. Many traditional "prerogatives" of management are now subject to collective bargaining and their scope, at any one time, depends upon the degree of mutual confidence held by union and management. Items found in agreements frequently define and delimit management's right with respect to transfers, promotions, discipline, schedules, removal of establishment, subcontract.

An exceedingly complex contract analysis is found in Wage Chronology No. 4: Bituminous Coal Mines, 1933-48 (p. 303), covering complicated changes in wage rates, the introduction of pay for travel time, holiday and vacation pay, and health and welfare benefits. Contract analysis can be practiced most easily by tradeunions themselves. This is one of the Practical Uses of Trade-Union Records (p. 300), a summary of a paper presented at the 1948 meeting of the American Statistical Association. At least equally important, in the viewpoint of the author, however, is the examination of union records for membership distribution (geographically and industrially) and characteristics, dues collection patterns, and the growth, standing, and turn-over of membership. Financial records are useful in making comparative per capita cost studies for various items of expenditure.

## The Labor Month in Review

Lessening of business activity from postwar peaks, a trend which has been observable in individual industries for a number of months, appeared to become more widespread during February 1949. This tendency, combined with seasonal contraction in some industries, caused a significant decrease in nonagricultural employment between early January and early February. At the same time unemployment increased by over a half million to more than 3 million. Total employment, however, was as high as it was a year ago, and most of the basic heavy industries continued to operate near peak rates.

The net result of wholesale-price movements during the month was relatively minor. A sharp drop in farm and food prices in the early part of February was recovered by the month's end. Consumers' food prices were also lower. As a result of recent declines in consumers' prices, downward wage adjustments were made necessary for employees of a few companies, notably General Motors, whose union contracts tie wage rates to changes in the consumers' price index. In a number of other cases, wage increases were negotiated during February. No strikes of national importance occurred during the month.

## Unemployment at Postwar High

Unemployment increased by 550,000 from early January to early February, bringing the number of jobless to about 3.2 million, according to the Census Bureau's monthly report. The number of persons without jobs is now somewhat larger than at any time since early 1942, but still low in relation to total employment. The unemployed in early February were 5.3 percent of the civilian labor force, compared with 4.4 percent a year ago 12.9 percent in February 1941. The rise in unemployment appeared, on the basis of weekly Unemployment Compensation claims reports, to be losing momentum by the end of the month.

Part of the unemployment increase was due to bad weather and other seasonal factors, with con-
struction, lumbering, and transportation particularly affected. In the latter two industries, layoffs were probably more than seasonal. In industries such as textiles, coal mining, furniture, appliances, and paper, curtailed production as a result of declining demand also caused lay-offs. There is undoubtedly a general easing of the demand for goods after more than 3 years of high production, but for the immediate future the normal spring expansion in outdoor industries will tend to reduce the number of unemployed.

Total employment dropped somewhat between January and February, but was still about the level of a year ago. A further decline in factory employment, a trend since last September, was an important factor in the drop of nearly half a million nonagricultural workers. This was partially offset by a rise of a quarter million on farms. Nonfarm employment, at 50.2 million, was about 200,000 below last year's figure, but considerably above any previous February.

## Price Changes Small

While prices for individual commodities fluctuated considerably during the month, the level of the Bureau's wholesale-price index at the end of February was practically unchanged from the beginning of the month. Prices of farm products were 1 percent higher and foods, about 1.5 percent, but prices of commodities other than farm and food products on the average were almost 1 percent lower. Textile prices declined 1 percent. Fuel and lighting materials and products in the miscellaneous category were down a little more than 1 percent. Building materials were fractionally higher, but for the first time in many months metals and metal products declined slightly.

The sharp break in the prices of farm commodities in the early part of February 1948 was repeated on a smaller scale in the same period this year. Prices of some important farm products fell well below support levels at times. By the end of the month, however, the general levels of farm and food prices were somewhat higher than they were at the end of January.

The Bureau's consumers' price index decreased 0.3 percent between December 15 and January 15, marking the fourth consecutive month of decline. At 170.9 percent of the 1935-39 average, the index was 1.2 percent higher than a year ago and 28.2 percent above the June 1946 level. In contrast to the preceding 3 months, lower prices for apparel
and housefurnishings, rather than lower food prices, were chiefly responsible for the average decrease from mid-December to mid-January.

Apparel and housefurnishings prices dropped 1.9 and 1.1 percent, respectively, over the month. January sales accounted for lower prices for most apparel items, particularly men's overcoats and topcoats, business shirts, shorts, and pajamas; women's coats, wool and rayon street dresses, and nylon hose; children's apparel; and cotton and rayon yard goods. January sales were also reflected in the lower index for houseufnrishings. Reduced prices were reported for sheets, curtains, all items of furniture, and electric washing machines and refrigerators. Many articles featured in January sales were of standard quality, available in an adequate assortment, on which sale prices were in effect long enough to be accessible to consumers generally.

Prices of foods averaged only 0.1 percent lower. The crop losses resulting from freezing weather in the winter fruit and vegetable areas caused a rise of nearly 9 percent in prices of fresh produce, offsetting substantial declines in prices of meats, eggs, and fats.

Rents rose an average of 0.2 percent, increases being reported in all cities surveyed.

Preliminary reports for February indicate further declines in food prices, particularly meats, enough to cause another decline in the over-all index.

## Wage Changes

The economic setting of wage negotiations is more varied than a year ago. In the textile industry, union wage demands which were submitted to arbitration were turned down on the basis of the economic outlook in the industry. Wage raises were negotiated recently in many industries, particularly in public utilities, paper, printing, metalworking, and air transportation. In the mass-production industries, including electrical equipment, rubber, steel, and automobiles, the unions announced that they would seek wage increases and other benefits. Certain employers in these industries, as in similar circumstances last year, indicated that these demands would not be granted.

The wages and salaries of about 340,000 employees of the General Motors Corp. were reduced for the 3-month period beginning in March. This action was the result of the agreements
between the corporation and the United Auto Workers (CIO) and the United Electrical Workers (CIO) to make quarterly wage changes on the basis of changes in the Bureau of Labor Statistics consumers' price index. About 270,000 production workers will receive 2 cents an hour less, and 68,000 salary workers will receive a total of $\$ 10$ less during the 3 -month period. This is still 1 cent above the rate effective in May 1948, when the contract was signed. Additional union contracts with automatic escalator clauses have recently affected workers in a few other companies, including 25,000 employees of the International Shoe Co., where wage adjustments are based upon relatively small changes in the consumers' price index.

Weekly earnings of factory workers declined slightly from December to January to an average of $\$ 54.77$, as a result of a shortening of the average workweek. The loss in pay due to the decline in hours more than offset the small increase in hourly earnings.

The workweek in manufacturing, which averaged 39.6 hours in January 1949, against 40.0 hours in December 1948, was shorter than in any month since January 1941. Most of the decline took place in the nondurable goods industries in which average weekly hours dropped to 38.6 . In this group of industries, the shortest workweek since the end of the war was reported for textiles, apparel, food, tobacco, and paper. The average workweek in the durable goods industries also declined slightly in January to 40.5 hours, 0.4 hour below the January 1948 level. This decline occurred despite a substantial rise in hours worked in automobile assembly plants.

## Industrial Relations

Time lost due to work stoppages resulting from industrial disputes during February does not appear to have been significantly different than the 800,000 man-days reported for the previous month. The only strikes which attracted attention during the month were local in character.

About 11,000 operating employees of the Philadelphia Transportation Co., which runs the city's public transportation system, went on strike on February 11. The union originally asked for a wage increase of 25 cents an hour; the company's offer was 2 cents. After tying up Philadelphia's transportation for about 10 days, the dispute was settled with an increase of 8 cents an hour.

# Readjustments in Consumer-Goods Industries 

Declines in Employment, Man-Hours, and Workweek<br>and Rise in Lay-Off Rates, Have Affected<br>Textiles, Apparel, Shoes, and Selected Consumers' Durables

Sydney Netreba ${ }^{1}$

With the completion of reconversion early in 1946 and with purchasing power and accumulated backlogs of demand at unprecedented levels, production and employment in nonagricultural industries began a general rise which continued until the end of 1948. Nonfarm employment reached an all-time high of 46.1 million in December, with manufacturing attaining a postwar high of 16.7 million somewhat earlier. Despite this over-all trend, the rapidly increasing volume of consumer goods and services started a movement toward certain "readjustments," which first became evident in 1947. Among the first industries to feel the impact of declining demand were those dealing in luxury items, such as entertainment, furs, jewelry, and liquors. Readjustments in these activities, which took the form of decreased employment or lowered prices, or both, were relatively small and had no visible effect on the general economic situation.

The second type of adjustment to changes in postwar demand in 1947 took the form of a reappearance in several consumer-goods industries of prewar seasonal patterns in production and employment. Textiles, apparel, shoes, radios, furniture, and rubber tires showed declines in employment and weekly hours during the spring and early summer months and a sharp pick-up in the fall and winter. By the end of 1947, it was
evident that the radio manufacturing and rubbertire industries were readjusted to somewhat lower levels of demand by employment reduction. The textile, apparel, shoe, and furniture industries, however, had resumed their upward trend, reaching new employment peaks in February and March 1948. These were followed by spring and summer seasonal decreases, which affected the shoe industry with particular severity. The expected upturn appeared in August, but proved to be short-lived. Reversing the usual seasonal pattern, employment in cotton, woolen and worsted textiles, and shoe manufacturing turned downward in September and declined further in October and November. These employment declines were accompanied by even sharper reductions in the length of the workweek.

Probably the most important employment development in late 1948 was the contraseasonal decline in manufacturing employment during the last quarter. Between September and December, these industries dropped about 450,000 workers, in contrast to an increase of 100,000 during the same period of 1947. In January 1949, employment declined by another 400,000 , bringing the total well below the level a year ago. This reduction was largely concentrated in consumer-goods industries, as readjustments spread from soft goods to a number of consumer durables. Between

[^0]October and January there were increasing reports of lay-offs, part-time work, plant shut-downs, and price reductions, in plants producing washing machines, refrigerators, furniture, radios and phonographs, stoves, oil burners, and heating equipment, in addition to the textile and apparel items indicated previously.

Sales data prepared by the United States Department of Commerce reveal that trends in factory employment have corresponded to fluctuations in current demand. For example, retail stores selling household appliances and radios reported consistent increases in sales volume throughout 1946 and 1947, and substantial decreases in the latter part of 1948. Similar trends were shown for retail-furniture and housefurnishing stores; these outlets reported minor advances through the first three quarters of 1948, but significant reductions in sales for the final quarter of the year.

Trade reports further indicate that sales resistance to major appliance and furniture items resulted in increased retail inventories and consequent "promotional" clearances in a number of important cities. Refrigerators, vacuum cleaners, washing machines, gas ranges, automatic irons, radios, furniture, and passenger-car tires were among the items most frequently featured in these clearances. Slackening of orders and caution with respect to forward buying have, of course, influenced the curtailment of manufacturing operations in these lines.

## Selected Nondurable Goods Industries

The Nation's basic cotton-textile industry employed a record number of 529,400 production workers in March 1948. Preliminary data for January 1949 indicate further continuance of an employment level below the 1948 spring peak and more than 28,000 below January 1948. Thus, the industry was unable to rally from the seasonally reduced level of the summer. Average weekly hours for mid-January 1949 showed a drop of more than 4 hours compared to the workweek a year before, and aggregate man-hours were about 17 percent below the March 1948 peak. Reductions of over 11 percent in length of workweek had more effect on curtailed operations in cotton textiles than did employment decreases ( 7.5 percent) over the period.

Labor turn-over rates also reflected the industry's recent decline. Hiring reached a postwar low in December 1948, while lay-offs rose sharply from March to a postwar high of 17 per 1,000 in December. Workweek comparisons by month, August 1948 to December 1948, for northern and southern cotton-textile establishments are shown below:

|  | Average weekly hours |  |
| :---: | :---: | :---: |
|  | North | South |
| 1948: August | 37.9 | 37. 6 |
| September | 37. 8 | 36. 9 |
| October | 35.0 | 37. 3 |
| November | 35. 2 | 37. 4 |
| December. | 36.6 | 37.7 |

Compared to the South, textile mills in the North (i. e., New England) showed greater declines in average weekly hours; Massachusetts and Rhode Island were particularly affected. Differences between North and South were especially marked from September to October. The average workweek for the North dropped sharply by midOctober, but in the South there was a slight increase. Because of the greater number of southern workers who did not receive pay for the Labor Day holiday, the September average for the South was influenced to a greater extent by that holiday than the average for the North.

Trends in woolen and worsted manufacturing followed closely the cotton textile trend. The postwar peak of December 1946 was followed by decreases in aggregate man-hours in the spring and summer months of 1947. The upward movement was resumed, however, and by February 1948 man-hours were only 2.4 percent below the postwar peak. A summer drop occurred, however, which, unlike that of 1947, was followed by a contraseasonal decline that continued to January 1949. Man-hours in mid-January were about 20 percent below the postwar peak and almost 18 percent below January 1948, reductions significantly larger than those in cotton textiles.

Average weekly hours in woolen and worsted mills, which dropped to 39.1 in mid-December 1948, had rallied from the mid-October low but were still substantially below the level of the postwar peak employment months.

Employment in woolen and worsted mills in January 1949 was 32,000 below the record postwar month, according to preliminary data, and about 28,000 below January 1948, reflecting a more severe down-turn than that in cotton textiles.

Hiring reached a postwar low in December 1948, while lay-offs rose to 30 per 1,000 compared with 4 per 1,000 in December 1946.

In the boot and shoe industry, the postwar record of production-worker employment was achieved in February 1948. However, as in cotton and in woolen and worsted textiles, the industry failed to recover in the fall from the seasonal down-turn of the spring and early summer. In January 1949, employment was 8 percent below the postwar peak. The 13-percent drop in total man-hours from the peak employment month resulted from almost equal decreases in employment and in the length of the workweek.

## Weekly Man-Hours Selected Nondurable Goods Industries



The hiring rate in the shoe industry in December 1948, which was only slightly above February, showed definite improvement over October and November. Reports indicated that the industry was preparing to reemploy workers as a result of new orders for the spring season. Some upturn in employment developed in December 1948 and January 1949. Lay-offs in December dropped slightly from October and November, but were nevertheless higher than the February rate of 5 per 1,000.

In the rubber tire and tube industry, the end of World War II made it possible to turn immediately to output for civilian use. By November 1946, production-worker employment reached an all-time high of 118,000 . Gradual subsequent declines reduced employment 30,000 by mid-January 1949. Aggregate weekly man-hours fell by 32 percent over the 2 -year period, resulting largely from the substantial drop in employment. Cutbacks in the average workweek, however, also developed. By the beginning of 1949, average weekly hours were almost 3 hours below the level at the employment peak.

Labor turn-over data further reflect the nature of the readjustment in this industry. The accession rate declined to 8 per 1,000 employees in December 1948, compared with 32 per 1,000 in November 1946. Similarly, the lay-off rate, at a low in November 1946, advanced to 17 per 1,000 in December 1948. Quits, or voluntary separations, declined markedly, from 25 to 11 per 1,000, over the period.

The physical volume of tire and tube production, according to information published by the United States Department of Commerce, corresponds closely in movement with the employment changes. In part, the decline in total output has resulted from a sharp reduction in exports since the first half of 1947. Still more important has been the substantial decrease in production for replacement. Shipments of original equipment to auto-mobile-manufacturing plants have, of course, advanced with the increased output of new vehicles, but shipments to tire and tube dealers, which had increased substantially in the immediate postwar period to meet the large wartime backlog, have since declined sharply.

## Selected Durable Goods Industries

In the refrigerator and refrigeration-equipment industry, postwar production-worker employment continued to advance until June 1948, when it was almost double the level at the war's end. Postwar demand for refrigerators has been particularly insistent, not only because of the wartime backlog, but also because of the record volume of new construction. Employment declines in the third, and especially, in the fourth quarter of 1948, reversed the previous expansion. Reflecting this reduction, total man-hours declined about 16 percent
between June 1948 and January 1949; and weekly hours were also lowered.

In the radio and phonograph industry, which includes the manufacture of television sets, it is not readily possible to distinguish employment trends in individual products in the BLS data for the industry as a whole. Production information shows the rapid strides made in output of television units during the postwar period, with 1948 indicating sustained record levels in that branch. Output of radio sets, on the other hand, has turned downward rather sharply from the 1947 peak. It appears, therefore, that the advance in television has operated to limit the over-all employment decline in the radio industry since December 1946. Reports for a number of States, principally the more important television centers-New York and Pennsylvania-indicate that the rise of this branch has more than offset declining activity in the radio branches.

Nationally, however, the radio and phonograph industry reduced production-worker employment about 14 percent between December 1946 and December 1948. A further reduction reported in January 1949 was largely seasonal in nature. Average weekly hours have changed but slightly over the 2 years. The hiring rate fell from 51 per 1,000 in 1946 to 42 per 1,000 in December 1948. The lay-off rate did not change substantially; quits, however, declined significantly-from 33 to 22 per 1,000.

Production worker employment in the laundryequipment industry-including driers, ironers, washing machines, and wringers, for household use-has decreased, from the postwar peak in February 1948 to December 1948, about 28 percent, or by almost 5,000 workers. Reports of layoffs in several important establishments in the industry have stressed the need to adjust production to declining sales volume. Average weekly hours also dropped substantially-particularly in midDecember 1948. At the end of the year the average workweek was about 4 hours less than the level reported at the employment peak.

In the furniture industry, wartime restrictions resulted in lowered employment levels from 1942 to 1945 . It was possible in 1946, however, to expand employment rapidly to a point above the 1941 peak, owing to the increased availability of labor and materials. Employment expanded further in 1947, reaching a postwar peak in February

## Weekly Man-Hours Selected Durable Goods Industries


1948. After the seasonal reduction in the spring and summer months, some increase developed in the latter part of 1948, but the levels remained below the postwar peak. In January 1949, aggregate weekly man-hours were about 14 percent below February 1948, as a result of an 8-percent decline in employment and a reduction of more than 2 hours in the average workweek.

Lay-offs in furniture-manufacturing lines increased in the more recent months, reflecting the declines in activity. In December 1948, the layoff rate had increased to 35 per 1,000 employeescompared to a rate of 7 per 1,000 in February. The accession rate was substantially reduced over the period, changing from 58 to 23 per 1,000.

Production of cooking stoves reached a postwar peak in the first quarter of 1948. Seasonal declines followed as in preceding years, but, unlike the trends in other postwar years, the recovery in the fall months was not sufficient to reach the earlier levels. Shipments of oil burners and heating equipment also declined somewhat below previous peaks.

Indicating a slackening pace in new orders, the hiring rate for the industry as a whole dropped from 62 per 1,000 in November 1947 to 13 per 1,000 in December 1948, while the lay-off rate advanced sharply over the same period. By January 1949, production-worker employment had, consequently, been reduced by 30,000 from the November 1947 peak. Establishments in this industry also reported a significant decrease in the average
workweek. Aggregate weekly man-hours, largely reflecting employment cut-backs, decreased by
about one-third from November 1947 to the first part of 1949.

Employment, average weekly hours, total weekly man-hours, and labor turn-over rates for selected industries

| Item | Postwar peak employment month ${ }^{1}$ | 1948 |  |  |  |  | 1949 <br> January $^{3}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | August | September | October | November | December ${ }^{2}$ |  |
| Cotton manufactures: |  |  |  |  |  |  |  |
| Employment, production worker- | 529,400 | 521,500 | 516,900 | 511,400 | 508, 900 | 507, 500 | 494, 900 |
| A verage weekly hours..--.--.-...- | 40.7 | 37.7 | 37.1 | 36.9 | 37.0 | 37.5 | 36.3 |
| Total weekly man-hours (in thousands) | 21,550 | 19,660 | 19,180 | 18,920 | 18,830 | 19,030 | 17,960 |
| Accessions (per 100 employees) | 4.8 | 4.7 | 4.4 | 3.8 | 3.2 | 2.5 | 2.9 |
| Lay-offs (per 100 employees) | . 8 | . 8 | . 8 | 1.4 | . 3 | 1.7 | 1. 8 |
| Woolen and worsted manufactures: |  |  |  |  |  |  |  |
| Average weekly hours.......-.-. | 181,700 41.3 | 169,800 39.6 | 165,800 38.8 | 159,600 37.6 | 158,200 38.1 | 157,400 | 149, 100 |
| Total weekly man-hours (in thousands) | 7,450 | 6,720 | 6,430 | 6,000 | 6,030 | 6,154 | 5,830 |
| Labor turn-over: |  |  |  |  | 6,030 | 6,154 | 5,850 |
| Accessions (per 100 employees) | 3.2 | 3.2 | 3.0 | 2.5 | 3.5 | 2.3 | 2.1 |
| Lay-offs (per 100 employees)... | . 4 | 2.2 | 2.2 | 5.1 | ${ }_{2.8}^{3.8}$ | 3.0 | 4. 6 |
| Boots and shoes: <br> Employment, production worker 257,800 244,800 241,000 238,500 229,100 |  |  |  |  |  |  |  |
| Average weekly hours............. | 257,800 38.8 | 244,800 37.4 | 241,000 36.8 | 238,500 35.6 | 229,100 34.4 | 232,100 36.6 | 237,200 36.9 |
| Total weekly man-hours (in thousands) | 10,000 | 9,160 | 8,870 | 8,490 | 7,880 | 8,490 | 8,750 |
| Labor turn-over: |  |  |  |  |  |  |  |
| Accessions (per 100 employees) | 4.0 | 5.1 | 4.4 | 3.3 | 3.3 | 4.1 | 4.2 |
| Lay-offs (per 100 employees) | . 5 | . 8 | . 5 | 1.0 | 1.2 | . 9 | . 7 |
| Rubber tires and inner tubes: |  |  |  |  |  |  |  |
| Average weekly hours....... | 39.0 | 39.5 | 37.7 | 37.2 | 36.2 | 35.6 | 35.4 |
| Total weekly man-hours (in thousands). | 4,600 | 3,610 | 3,440 | 3,350 | 3,300 | 3,190 | 3, 130 |
| Labor turn-over: <br> Accessions (per 100 employees) | 3.2 | 2.0 | 1.9 | 1.5 | 1.2 | . 8 | 1.4 |
| Lay-off's (per 100 employees) | 2 | . 3 | . 5 | 1.1 | 1.3 | 1.7 | 1.3 |
| Refrigerators and refrigeration equipment: |  |  |  |  |  |  |  |
| Employment, production worker | 84, 800 | 82,300 | 81,700 | 81,000 | 79,500 | 79,300 | 76,300 |
| Average weekly hours.- | 40.5 | 39.2 | 39.5 | 40.6 | 40.0 | 40.0 | 39.3 |
| Total weekly man-hours (in thousands) | 3,430 | 3,220 | 3,220 | 3,280 | 3,180 | 3,170 | 2,990 |
| Accessions (per 100 employees) | (5) | (5) | ${ }^{(5)}$ | (5) | (5) | (5) | (8) |
| Lay-offs (per 100 employees).. | (5) | (5) | (5) | (5) | (5) | (5) | (5) |
| Radios and phonographs: |  |  |  |  |  |  |  |
| Employment, production worker | 111,600 | 86, 900 | 89,700 | 93, 100 | 95,900 | 97, 200 | 93,500 |
| A verage weekly hours.-.----.-....-.-- | 40.9 | 39.3 | 39.6 | 39.5 | 40.4 | 40.3 | 39.3 |
| Total weekly man-hours (in thousands). Labor turn-over: | 4,560 | 3,420 | 3,550 | 3,680 | 3,870 | 3,920 | 3,670 |
| Accessions (per 100 employees) | 5.1 | 6.3 | 7.6 | 6.2 | 6.0 | 4.2 | 5.3 |
| Lay-offs (per 100 employees) -- | 1.4 | 1.6 | 7.6 | 1.5 | 1.1 | 1.7 | 5.1 |
| W ashing machines, wringers, and driers, domestic: |  |  |  |  |  |  |  |
| Employment, production worker | 16,500 | 15,600 | 15,700 | 15,700 | 15,500 | 12,500 | 10,200 |
| Average weekly hours. | 41.8 | 41.2 | 39.5 | 41.5 | 40.7 | 35.1 | 37.6 |
| Total weekly man-hours (in thousands) | 690 | 640 | 620 | 650 | 630 | 440 | 385 |
|  |  |  |  |  |  |  |  |
| Accessions (per 100 employees) | (5) | (8) | (5) | ${ }^{(5)}$ | ${ }^{5}$ | ${ }^{(5)}$ | (5) |
| Furniture: |  |  |  |  |  |  |  |
| Employment, production worker | 266, 200 | 249, 700 | 252,500 | 255, 600 | 256, 500 | 254, 100 | 242, 100 |
| A verage weekly hours...- | 41.9 | 40.7 | 40.7 | 41.5 | 40.9 | 41.1 | 39.5 |
| Total weekly man-hours (in thousands) | 11,150 | 10,160 | 10,280 | 10,600 | 10,490 | 10,440 | 9,560 |
| Labor turn-over: ${ }^{1}$ |  |  |  |  |  |  |  |
| Accessions (per 100 employees) | 5.8 | 8.0 | 7.4 | 6.2 | 4.6 | 2.3 | 4.0 |
| Lay-offs (per 100 employees). | . 7 | . 6 | . 9 | 1.0 | 2.2 | 3.5 | 5.5 |
| Stoves, oil burners, and heating equipment: |  |  |  |  |  |  |  |
| Employment, production worker-. | 96, 200 | 88,500 | 92,000 | 93, 300 | 87,600 | 76,400 | 64, 000 |
| Average weekly hours. | 40.1 | 40.5 | 39.5 | 40.9 | 39.0 | 39.2 | 37.4 |
| Total weekly man-hours (in thousands) | 3,860 | 3,580 | 3,630 | 3,810 | 3,410 | 2,990 | 2,390 |
| Labor turn-over: <br> Accessions (per 100 employees) | 6.2 | 7.5 | 7.6 | 4.7 | 3.2 | 1.3 | 3.1 |
| Lay-offs (per 100 employees)... | 1.5 | 7.7 | 1.0 | 2.0 | 5.1 | 11.6 | 7.5 |

[^1]
# Great Britain: Employment Policies and Production 

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British planning during the later stages of the war was designed to prevent unemployment during reconversion, to restore prosperity to the depressed areas, and to maintain full employment in the future; actually, employment remained at a high level throughout. It became apparent during 1947 from the fuel crisis of February and the sterling convertibility crisis of midsummer, that existing resources, including manpower, were not sufficient to perform all the necessary tasks. Consequently, policies were revised, emphasis shifted, and new programs devised. Some employment controls which had been relaxed were re-instituted; capital investment was reduced; and the development programs for depressed areas were slowed down.

## Mid-1945 Manpower Problem

In mid-1945, the total labor force $(21,649,000)^{2}$ was at an all-time peak, equal to 45 percent of the population $(47,791,000)$. The civilian labor force was considerably below the strength of mid-1939 (see table 1) ; almost one-fourth were in the armed forces; and 23 percent were engaged in supplying the armed forces. Less than 1 percent were unemployed, compared to 6 percent in 1939.

In mid-1945 British patterns of civilian employment showed the distortions caused by a war economy. (See table 2.) Compared to mid-1939, there was a great increase in employment in agriculture, and a pronounced decline in building and

[^2]civil engineering, in public utilities, in distribution, in consumers' services. Fewer men were at work in the coal mines. The total employed in manufacturing had risen slightly, but of this total only 6 percent were engaged in manufacturing for export (compared to 15 percent in 1939) and 56 percent were engaged in manufacturing supplies for the armed forces. The manufacturing industries which showed an increase were metals and engineering and chemicals; building materials, textiles, clothing, and food, drink, and tobacco had declined.

Table 1.-Great Britain: Labor force distribution ${ }^{1}$
[In thousands]

| Item | Total number |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | $\begin{gathered} \text { Mid- } \\ 1939 \end{gathered}$ | $\begin{gathered} \text { Mid- } \\ 1945 \end{gathered}$ | End1947 | $\begin{aligned} & \text { Oct. } \\ & 1948 \end{aligned}$ |
| Total labor force | 19,750 | 21,649 | 20,430 | 20, 361 |
| Men. | 14, 656 | 14, 881 | 14, 666 | 14, 575 |
| Women | 5, 094 | 6,768 | 5,764 | 5,786 |
| Armed forces | 480 | 5,090 | 1,119 | 797 |
| Insured unemployed ${ }^{2}$.-....... | 1,270 | 103 | 300 | 322 |
| Forces released, not yet employed |  | 40 | 123 | 33 |
| Civilian labor force (at work) ${ }^{3} 4$ | 18, 000 | 16, 416 | 18, 888 | 19, 209 |
| Men | 13,163 | 10,133 | 13, 253 | 13, 543 |
| Women | 4,837 | 6, 283 | 5, 635 | 5, 666 |
|  | Percentage distribution |  |  |  |
|  | 100 | 100 | 100 | 100 |
|  | 74 | 69 | 72 | 72 |
|  | 26 | 31 | 28 | 28 |
| Armed forces | 26 | $\begin{aligned} & 24 \\ & { }^{24}{ }^{(3)} \\ & \text { (3) } \end{aligned}$ | 62 | (3) ${ }^{4}$ |
| Insured unemployed ${ }^{2}$ |  |  |  |  |
| Forces released, not yet employed |  |  | $\begin{aligned} & 92 \\ & 65 \\ & 27 \end{aligned}$ | ${ }^{(3)}{ }^{4}$ |
| Civilian labor force (at work) ${ }^{34}$ | 926725 | $\begin{aligned} & 76 \\ & 47 \\ & 29 \end{aligned}$ |  | 946628 |
| Men_.-- |  |  |  |  |
| W omen |  |  |  |  |

${ }^{1}$ Figures relate to males aged 14 and under 65 years, and females aged 14 and under 60 years. Two women employed part-time are counted as one worker.
${ }_{2}$ The figures for mid-1939, mid-1945, and end-1947 relate only to persons insured under the Unemployment Insurance Acts. The figures for October 1948 represent the estimated total numbers of unemployed persons on the registers of the employment offices except registered disabled persons who require employment under sheltered conditions.
${ }^{3}$ Including Fire Service, Police, and Civil Defense.

- Less than 1 percent.

Source: Ministry of Labor Gazette, London, December 1948 (p. 418).
The British Government, in its 1944 White Paper on Employment Policy, ${ }^{3}$ foresaw the need for continuing controls-during the reconversion period-over prices, rationing, investment, and to some extent over the allocation of raw materials and labor, "in order to direct the efforts of industry towards the right tasks in the right order." However, "under favorable external conditions" the statement continued, "it may not be very long before production becomes adequate to meet

[^3]the various calls upon it. When that happens, the first aim of employment policy-the maintenance of an adequate level of expenditure on goods and services-will no longer be realized automatically, as a byproduct of the war effort or of reconstruction, but will call for the application of a policy deliberately directed to that end."

During reconversion, the Government concentrated upon "checking the development of localized unemployment;" removing obstacles to labor mobility and providing facilities for training and retraining.

The Distribution of Industry Act in 1945 carried further the prewar policy of diversifying the economy of the depressed areas. This law provided that a district which showed a persistently high volume and rate of unemployment could be scheduled as a development area, and could obtain Government assistance in diversifying its industries in order to utilize available skilled labor.

Table 2.-Great Britain: Employment by industry, mid1989, mid-1945, end-1947, and October 1948
[In thousands]

| Industry |  |  |
| :---: | ---: | ---: | ---: | ---: | ---: |

${ }_{2}^{1}$ Total manpower includes administrative and clerical staff.
${ }^{2}$ Estimated.
Source: Ministry of Labor Gazette, London, December 1948.
Even while 4 million persons were being demobilized and other millions shifted out of war employment, the unemployed did not reach 400,000 in the postwar years (see chart). The only exception was in 1947 when about a million
persons were out of work because of the fuel and power crisis in February; however, not all of these registered at the employment offices. The unemployment data include wholly unemployed and temporarily stopped who register at unemployment offices, but not persons seeking a change of job or the disabled who require special types of employment. After June 1948, the uninsured as well as the insured are included.

## Average Number of Registered Unemployed Great Britain



## Employment Levels and Policies, 1945-47

A marked increase in output of fuel and power, a redistribution of manpower, and as great an addition as practicable to the total labor force were needed at the war's end to rebuild plants and houses, to restore exports, and finally to fill a great backlog of demand in the home market. For a year and a half, it was assumed that labor would be absorbed and redistributed automatically in accordance with the needs of the economy, and that the Government should remove wartime restrictions on changing jobs, watch for unemploy-
ment, and retrain those coming out of the armed forces. During 1945 and 1946, employment controls were lifted except in agriculture and coal mining. Housing and other large-scale investment programs were stimulated, both in the nationalized industries and in private industries.

In February 1947, the Government published its first estimate of how postwar national resources should be allocated to meet national needs. The Economic Survey for 1947 (February) stated: "The central fact of 1947 is that we have not enough resources to do all that we want to do. We have barely enough to do all that we must do." Primary objectives were to expand the nation's labor force, to increase its output, and to insure the placement of labor in the most useful jobs; difficulties in securing reallocation of labor without wartime powers of direction and with existing shortages of accommodations were foreseen by the Government.

Nevertheless, 1947 production and export targets required a net increase in civilian labor force of 278,000 persons. The chief need was to bring the work force up to strength in coal mining, agriculture, and textile manufacture and also to provide for some increase in every major group except public service (in which a decrease of 80,000 was planned). Although an additional 178,000 workers seemed to be in prospect from demobilization, it was recognized that special efforts would be necessary to attract the extra 100,000 . These the Government proposed to recuit from women hitherto outside the labor force, and from abroad. During the year, an intensive campaign was begun to keep women in industry, or to bring them back, if necessary, as part-time workers. The Factories Act was relaxed to permit late shifts in textile mills.

Teams of Ministry of Labor officials visited the displaced persons' camps on the Continent to recruit suitable volunteers.

## Employment Levels and Policies, 1947-48

By autumn, the Government realized that its 1947 survey had been over-optimistic. The fuel crisis in February, the sterling convertibility crisis in the summer of 1947, and the failure of exports to reach the target for mid-1947 all combined to cause a revision of plans.

Two wartime employment controls were rein-
troduced: the Control of Engagement Order in October 1947, and the Registration for Employment Order in December 1947. ${ }^{4}$ These orders together channeled all hiring through the public employment offices (or approved agencies) ; restored the Government's authority to direct workers to take essential employment; and required those engaged in certain nonessential work or not gainfully employed to register for work. Immediate improvement occurred in placements in industries given first preference by the employment service, but the net increase in employment during a year's time (October 1947-October 1948) was 5 percent. The registration order brought few useful new recruits into the labor market. Only 29 persons were directed to jobs; 338 coal miners and 129 agricultural workers were directed to remain in their industries, under pre-existing regulations. Chief reliance was placed on persuading applicants to take essential, rather than nonessential jobs. The obstacles proved to be the relatively unattractive working conditions in textiles, the hazards and insecurity long attached to coal mining, the monotony, poor housing, and other disadvantages of agricultural life. ${ }^{5}$

Late in 1947, the capital investment program was revised downward because of labor and materials shortages; however, the cuts in the housing program announced in December 1947 were not fully carried out, and the program was resumed in 1948.

The pressure to attain a high level of production and the difficulties encountered by the capital investment program raised some doubts during 1948 concerning the economic feasibility of the Development Area Plan. Against the long-run social advantages of new planned towns, industrial diversification, and redistribution of industry, the West Midlands Plan urges the short-run advantage and lower cost of expanding existing cities and industrial facilities. The consultants on the West Midlands Plan point to the pool of labor accustomed to factory work, the concentration of managerial talent, and of service and

[^4]transport facilities in this area. The Government, while adhering to its general plan, has proceeded cautiously in the matter of scheduling for development additional areas which have requested such action. ${ }^{6}$

Table 3.-Great Britain: Production and manpower, for specified industries, end-1947 and end-1948

| Industry | Production |  |  |
| :---: | :---: | :---: | :---: |
|  | End of 1947 <br> Actual | End of 1948 |  |
|  |  | Target | Actual |
| Coal: |  |  |  |
| Total (million tons) --. | 196. 5 | 211.0 | 208.4 |
| Deep mined (million tons) | 186.3 | 200.0 | 196. 7 |
| Open cast (million tons) | 10.2 101 |  | ${ }_{2116}^{11.7}$ |
| Textiles, cotton: |  |  |  |
| Cotton yarn (million lbs.) | 740 | 900 | 890 |
|  |  |  |  |
| Ingots (million tons) | 12.7 | 14.0 | 15.0 |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |  |
|  | 120,000 | 175,000 | 200, 146 |
|  | Manpower |  |  |
| Coal |  |  |  |
| Textiles, cotton Steel | 262, 600 | 325,000 | 2282,700 |
| Shipbuilding------- | $\begin{aligned} & 199,200 \\ & 214,700 \end{aligned}$ |  | 2204,700 2 215,000 |

$11946=100$.
2 October.
3 September
4 The 1947 target had been 1,250,000.
Sources: Great Britain, Economic Survey 1947, Cmd. 7344 and Economic Survey 1948, Cmd. 7368; Monthly Digest of Statistics, Central Statistical Office, London, Dec. 1948; various issues of the New York Times, the London Times, and Daily News Record.

A substantial decline $(323,000)$ was expected in the total labor force during 1948, owing to the exodus of women and to the raising of school leaving age to 15 years. However the Economic Survey for 1948 projected some increase $(133,000)$ in the civilian labor force because of further cuts in the armed forces. This survey set manpower targets for only three industries-coal, agriculture, and textiles. As special measures to aid redistribution and recruitment, the Government planned to concentrate a large part of its 1948 housebuilding in mining and agricultural areas.

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## Situation in Late 1948

Great Britain's civilian labor force at work reached a peak of 19.2 million in October 1948, and exceeded the Economic Survey forecast by 340,000 . The industry distribution of the employed labor force did not quite conform to the budgets of the Economic Survey-some industries having more, others less, than anticipated. Coal and textiles in particular had not met their manpower targets.

For this reason, the coal and cotton yarn industries did not quite meet their 1948 production goals. The deficits amounted to 1.2 percent in each. (See table 3.) In spite of the deficiency in coal output, coal exports were resumed and the steel industry exceeded its target for 1948. In shipbuilding, the building of tanker tonnage exceeded the 1948 target. The October 1948 index of total output for the British economy was 27 percent above the 1946 average.

Exports had in December 1948 reached 148 percent of 1938 volume instead of 160 percent, as had been planned. The current 4 -year plan contemplates exports at 150 percent of the 1938 volume in 1952-53.

## Possibilities for Expanded Production

In mid-1948, Great Britain's labor force was 20.3 million, or 42 percent of the total population. Compared with mid-1939, the percentage of total population gainfully employed had dropped slightly; the percentage of men gainfully employed had dropped rather significantly, from 66 to 62 percent. Changes in population and percent in labor force are shown in the following tabulation:

|  | Number (in thousands) |  |
| :---: | :---: | :---: |
|  | Mid-1939 | Mid-1948 |
| Total population | 46, 467 | 48, 671 |
| Male_ | 22, 332 | 23, 593 |
| Female | 24, 135 | 25, 078 |
| Labor force | 19, 750 | 20, 293 |
| Male. | 14, 656 | 14, 565 |
| Female | 5, 094 | 5, 728 |
| Percent of total population in |  |  |
| labor force: |  |  |
| Total | 43 | 42 |
| Male | 66 | 62 |
| Female | 21 | 23 |

[^6] December 1948.

Because of the stabilization of the British population, the gradual aging of the population, and
the long-range decline in the birth rate, the native labor force is not expected to increase but rather to decline. However, several forecasts have already proved wrong. An expected fall in total population prior to 1948 did not take place, and now seems remote; the 1947 birth rate was higher than in any other year since 1921. Labor force totals in 1947 and 1948 also exceeded forecasts.

The effect of migration on population is, at the moment, unpredictable. After 1946, out-migration exceeded immigration (excluding EVW's, etc.) and thereby reversed a 15 -year trend. The Government reserves the right to check too great a flow of certain types of skilled workers, but has agreed to encourage and facilitate migration to the British Commonwealth countries. Shortages of shipping and housing in the Dominions have hindered migration; nevertheless, in 2 years (1946-48) about 150,000 emigrated to the Dominions. This outward movement has been offset by the introduction of approximately 171,000 foreign workers up to December 1948. (These workers are included in labor force stattiiscs.)

About 78,000 of the foreign workers are European Volunteer Workers (volunteers from displaced persons' camps); 69,000 were members of the Polish Resettlement Corps; 1,6000 are German, and 8,000 are Ukrainian ex-prisoners of war who voluntarily remained to work in agriculture on 1year contracts instead of being repatriated with other prisoners of war prior to July 1, 1948.

Over 29,000 of the EVW's, all men, have been placed in agriculture. Nearly 11,000 men are in the coal mines; over 10,000 women are working in the textile industry; a large number of both men and women (including some German and Austrian women) entered domest service.

Poles have been placed in coal mining (about 8,000 ), agriculture ( 8,000 ), building and civil engineering $(15,000)$, and about 39,000 in a variety of industrial employments. About 20,000 Poles have not yet been placed.

EVW's receive the same rates of pay, rations, clothing coupons, and social insurance rights as British workers, and are subject to the same taxes and contributions for social insurance. They must, however, take only employment approved by the Ministry of Labor, and their stay is subject to good behavior. Certain training programs have been organized.

Prior to the recruiting and placement of foreign
workers from the Continent, the Ministry of Labor reached agreement with the unions and organizations of employers, governing the introduction of such workers into particular industries. Some agreements stipulated that in case of unemployment the foreign workers shall be released first.

Because it is evident that the British labor force has almost reached its upper limit and because it has proved nearly impossible to move workers from nonessential to essential employment, attention is therefore shifting to the potential increase in output obtainable from a rise in productivity, through mechanization and re-equipment, more regular attendance of workers, and improvements in the organization of work.

Hours and Absenteeism. Average weekly hours of work in April 1948 (the latest date for which information is available) were slightly lower than in October 1938, and considerably below wartime averages as the result of shorter hours schedules in a number of industries after hostilities ceased. ${ }^{7}$

The shortened weekly work schedules after mid1945 were offset in some industries having critical labor shortages, by agreements to work overtime, e. g., in the coal and textile industries. However, in general, these two industries have not been able to maintain the longer hours.

By agreement of October 1947 most of the coal miners agreed to work at least some Saturdays or an extra half hour a day. The number of shifts actually worked per wage earner on colliery books has, however, averaged less than 5 . The rate of absenteeism in coal mines during 1948 was 11.55 percent for all workers and 14.13 percent for workers at the coal face. While these percentages show some improvement over the situation prior to May 1947 (when the 5-day week was introduced), the favorable record of the second half of 1947 has not been maintained.

The cotton spinning mills, after trying a $91 / 2$-hour day ( $47 \frac{1}{2}$-hour week) reverted to the 9 -hour day and 45 -hour week, because the women workers could not manage longer hours and family responsibilities. The weaving mills rejected overtime work, by a ballot taken in April 1948. Thus, it would appear that it is not feasible to increase output under current conditions, by lengthening hours.

[^7]Productivity. A more practical approach is to increase output per worker by making changes in equipment and methods of work. ${ }^{8}$ The publication of production indexes for the first time has made possible an estimate of the trend in national productivity and the series will provide a basis for the measurement of any future improvements. Economists at Cambridge University tentatively calculated that average output per worker decreased about 5 percent between 1935 and 1947. During 1948 this loss was made up, according to estimates given by Sir Stafford Cripps in January 1949. Average weekly tonnage of coal produced per man-shift worked in November 1948 (1.15 tons) was slightly above the 1938 annual level ( 1.14 tons). For the year 1948, it was 1.11 tons. An increase in over-all productivity of 2.5 percent a year is assumed as necessary to the achievement of the 4 -year plan submitted to OEEC. Sir Stafford Cripps stressed the fact that to achieve even this increase will require continued vigor.

[^8]A joint Anglo-American Production Council was established in September 1948 to study production problems in Great Britain. The Council recommended measures to assist in increasing productivity, including: (1) plant visits and exchange of production techniques among plants in the United Kingdom and the United States; (2) a joint committee to study particular industries and determine whether the productivity rate is increasing or declining; and (3) a joint committee to reconcile differences of opinion with respect to levels of productivity in the two countries.

The Trades Union Congress had reached agreement at the Margate Congress in September 1948 on the need for improving productivity and is discussing with its member unions specific proposals for raising it. The General Council has asked the unions to study such problems as uneconomic and wasteful use of labor, restrictive labor practices, and joint production committees, and to cooperate more actively in training programs.

## Selected Excerpts From "The Gift Of Freedom" ${ }^{1}$

## Editorial Note. The Gift of Freedom is a 150-

 page study of the social and economic status of American wage earners. While its main purpose is to acquaint workers in other countries with essential facts relating to the well-being of their American counterparts, so much useful and interesting mate-rial-hitherto scattered in scores of documents-has been brought together between its covers that it is invaluable for domestic use as well. The Gift of Freedom is much more than a routine marshalling of facts-it is an extremely literate exposition of social and economic history.To illustrate this latter quality, portions of the Introduction and the final chapter entitled, "The Way of Freedom," are here reproduced. The Introduction exemplifies the general tone of the book and defines its scope and purpose. The concluding chapter points out the general landmarks in the history of civil liberties, but the excerpts reproduced here are concerned primarily with the application of civil rights and duties to wage earners and with the part played by workers in the maintenance and extension of rights and duties.

The Gift of Freedom may be purchased from the Superintendent of Documents, Washington 25, D. C., at 55 cents a copy, after mid-April.

Walt Whitman, the great American poet of democracy, better than any other person has proclaimed the conscience, character, quality, and destiny of the American worker.

> In the labor of engines and trades and the labor of fields I find the developments,
> And find the eternal meanings.

[^9]In the neuter statistical concept economists drably term "labor force", he saw the protoplasm of democracy and pondered the skills, temperament, and aspirations of men, seeking the dynamic principle which made America great.

He envisioned America, some 70 years ago, as an inheritor and protector of world liberty. This responsibility he regarded as both fearsome and sacred, to be accepted in the spirit of humility. This gift of freedom American democracy held only in trust.

The bailment on the gift of freedom has run out, and we in America, by precept to be sure, but no less by other means as well, must make good on our obligation. What objective tests can measure our ability to do so: Have wage earners prospered in a manner commensurate with the productive capacity of the American economy? Is the system flexible enough to permit workers full freedom of movement, choice, conscience, and opportunity? Has the lot of the worker in terms of status and influence progressively improved?

Affirmative or negative answers to these questions can be made by the reader on the basis of the factual information this pamphlet contains. An affirmative answer need not imply more than that it is possible for the American wage earner to enjoy certain political rights, to attain certain economic desires, and to secure certain social tenets. A negative answer means that such achievements are impossible within the American system and that the gift of freedom has been dissipated.

The pamphlet discusses those factors which most basically influence and describe the economic and social welfare of American workers. They can be conveniently and fairly accurately grouped under six main headings:

1. The Work Force. America is a Nation of working people, with as many as 60 million at work out of a total population of 145 million How sustained is this employment, how extensive is unemployment, how mobile is the labor force, how is it distributed industrially and occupationally?
2. Productive Capacity. Here then is a labor force, now regularly at work most of the time. How productive is it and the industrial machine at which it works? Does the national output actually provide adequate levels of consumption among all classes?
3. Purchasing Power and Living Standards. What wages are paid to American workers and what is the wage structure of American industry? What is the trend of wage differentials between occupations and industries and between various sections of the country? What is the purchasing power of wages? What can the typical worker buy in units of labor time? For what commodities and services is family income expended? And finally, in what quantity and quality and in what variety can the low-income and salaried worker in America buy food, clothing, housing, equipment, services, and pleasures, and still live within his income?
4. Social Security. To the wage earner, "typical standards" mean little if he cannot be gainfully employed and thus maintain the standards. How are the American worker and his dependents protected against loss of income due to unemployment, work injury, illness, old age, or death? On the job, are the health and safety of the worker safeguarded? Is the employment of women and young people properly safeguarded? What is the national policy in regard to employment security and full employment?
5. Labor Organization. Trade-unions are the guarantors if not the progenitors of most worker security. They are effective only to the extent they are free. How extensively are American wage earners organized? What kinds of unions have they established? Are they Government or employer controlled? Are they restricted to the point of ineffectiveness? Are they militant or passive? Are they politically conscious and do they have political influence? Are they powerful and astute enough to cope with labor's problems in large-scale industry?
6. Civil Rights. Basic personal and political liberties are guaranteed to the individual by the Federal Constitution and by the constitutions of the 48 States. What are these liberties-of speech, thought, religion; of press, assembly, and political action; a free and secret ballot; freedom from unreasonable search and seizure, arrest, and prosecution? What progress is being made, where there is a breach between ideals and practice, to make these liberties effective in reality? Can a democracy protect itself against anti-
democratic enemies without destroying the basis of its freedom for all?

Let there be no false claims here. It is not an economic and social system alone which guarantees prosperity and security-least of all in America. In America we are thrice blessed with vast natural resources and abundant food supplies, the largest and most efficient industrial plant in the world, and a large, a varied, and adaptable work force.

To Whitman, viewing the seeming failure of nineteenth century democratic movements in certain other countries, only America offered the political and spiritual climate in which land, resources, vigor, and skills could bring democracy to full fruition. Candor calls for acknowledgment of flaws in the operation of the American system. Serious problems of inequality exist. Now and then blunders are committed which jar the sense of justice. But in America we strive and progress; our mistakes impede but do not halt our progress or change our direction.

In America today there is the combination of circumstances-free labor, free unions, social consciousness and social conscience, sacred regard for individual human dignity, and economic capacity-necessary to virile democratic leadership and reconstruction. Americans-and especially American labor-want to exercise that leadership and assistance, not as a largesse but in the spirit of comradeship. We want to share our material treasure, certainly; but we want to share our common political treasures even more, those free institutions of free men which are imbedded in the very marrow of any democratic social structure. That indeed is the gift of freedom.

## Labor Unions as Champions of Civil Liberties.

 Americans of earlier generations thought of liberty mainly in terms of individualism. Governmental functions were few and largely defensive. The most important evolution affecting civil liberties has centered around an enlargement of the positive uses of government and an effort to achieve a more effective linking of rights and responsibilities. These changes have accompanied the growth of cities and of large-scale industry and the increasing interdependence of groups. Wage earners and their unions have played an increasingly vital part in the maintenance and extension of civil rightsand especially in the adaption of traditional liberties to changing industrial conditions.

The influence of organized labor in the preservation and extension of civil liberties goes back to our early history. Unions in the early nineteenth century demanded, for example, the abolition of property qualifications for voting; and the abandonment of these qualifications gave the right to vote to virtually all workingmen except slaves, who were later emancipated. Early laws and court decisions viewed as favoring employers and property owners led to concerted efforts by unions as well as other groups to bring about a change of emphasis from property rights to personal rights. Among the achievements of this movement were several reforms in addition to manhood suffrage. These included universal free education, maintained by taxes on property; the right of workers to file liens on property to secure payment of wages; abolition of imprisonment for debt; and exemption of wages and workers' tools from court action for payment of a wage earner's debt. The importance of these and related reforms was emphasized by an outstanding student of labor history (Prof. John R. Commons), who stated that by the middle of the nineteenth century there came into existence in the United States a "new jurisprudence by which, for the first time in the modern world, manhood suffrage created personal rights superior to property rights."

During the middle decades of the nineteenth century, the labor movement was comparatively ineffective. Unions were weakened by the economic depression of the forties and were diverted from ordinary trade-union activities by other interests.

After the Civil War such changes as the rapid building of railroads, the growth of large-scale industries, the rise of cities, and the increase in the number of immigrants gave a new impetus to labor organizations and at the same time confronted workers with new problems Nation-wide in scope. Out of these conditions various national unions emerged. These were eventually united in the American Federation of Labor. The first national convention of the Federation of Trades and Labor Unions (the origin of the American Federation of Labor) in 1881 pledged the unions to various principles and measures such as compulsory education, abolition of convict "contract"
labor, and the repeal of conspiracy laws which limited the activities of unions.

Repeatedly, in union resolutions and in actions related to specific situations, labor organizations have given vigorous support to virtually the whole range of civil rights and liberties. Typically, the unions have taken the lead in advocating changes later adopted, such as the secret ballot, woman suffrage, the right to strike, and the freeing of unions from early laws against conspiracy. Following is an incomplete list of such measures that have been vigorously and in large part effectively advocated by unions:

Universal free compulsory education.
Freedom of speech.
Freedom of assembly.
Freedom of the press.
Freedom of moving-picture theaters.
Freedom of radio broadcasting.
Freedom of teachers; no censorship of school books.
Free text books in public schools.
Secret ballot.
Extension of the right to vote to women.
Election of the President and of United States Senators by popular vote.
Nomination of party candidates for office in primaries by popular vote.
Regulation of expenditures by political parties.
Legal holidays on election days.
Opportunity for direct legislation through the initiative and referendum.
Right of asylum for political refugees.
Nondiscrimination as to creed, color, sex, nationality, or politics.
Freedom from compulsory labor.
Right to strike.
Measures to limit police interference in labor disputes.
Federal protection against local violation of legal and constitutional rights.
Limitation by law of court injunctions and restraining orders in labor disputes.
Freedom of workers to organize and control their unions.
Collective bargaining and the application of democratic principles to industry.

Freedom of Association for Workers. The maintenance of civil liberty was viewed in our early history as mainly a process of imposing limitations on the actions of government against individuals. Wage earners, however, were confronted early in their history by the problem of interference with their liberties by other individuals, particularly by their employers. The unrestricted right to hire and discharge workers was long
claimed and often asserted by employers. How could employers be prevented from discharging (or refusing to hire) a worker because of union membership, for example, or because of the expression of views opposed to those of an employer?

In meeting the problem of preventing an employer from violating the civil rights of workers, unions have depended on two main types of measures. One of these has been resort to governmental action for the protection of workers; the other has consisted of limitations on the actions of employers by provisions of collective agreement.

A highly important defense against interference with the political activities of workers has been the secret ballot. Unions, by the exercise of their political rights, were able by degrees to throw off various restraints on their activities. Legal protection was obtained for a wide variety of union activities by curbs on the application to unions of laws against conspiracies, monopolies, and combinations in restraint of trade. Various laws afforded positive defenses against interference by employers. The Norris-LaGuardia Act of 1932, for example, outlawed interference by employers with the freedom of workers to join unions, choose their own representatives, and bargain collectively as to the terms and conditions of employment. The act in particular restricted employers in the use of Federal court injunctions, restraining orders, and the police in labor disputes, and denied to employers the right to enforce in the courts any employment contract that interfered with the right to join a union. Later laws, especially the National Labor Relations Act of 1935, not only set forth the general principles of freedom of action by workers but also provide explicit penalties, such as reemployment and back pay for any worker discharged because of union membership or activity. Thus, job tenure is legally independent of the views and activities of workers as members of unions. Another important legal restriction on the power of employers over the tenure of jobs was included in the Selective Training and Service Act of 1940, which required employers to reemploy men called into military service.

The possibility of interference by employers with the civil liberties of their employees has been greatly reduced by the direct action of unions in collective agreements. These agreements between
unions and employers commonly include provisions to the effect that a worker shall not be discharged without cause shown or without a hearing; and the agreements usually provide for union-management grievance committees. Workers also are protected against arbitrary discharge by the usual provisions of union agreements for the union shop and maintenance of union membership.

The group basis of maintaining the individual rights of workers is reinforced by decisions of the United States Supreme Court. The Court declared in 1936, for example, that Congress is justified in protecting employees in their fundamental right to organize, choose their own representatives, and engage in collective bargaining or other activities without restriction or coercion by their employers. The basis of the right, it was stated, is the relative weakness of the individual employee; his inability individually to resist arbitrary and unfair treatment; and his dependence on his union for equality in dealing with his employer.

Personal Rights and the General Welfare. The adaptation of individual liberties to the conditions of large-scale industry and modern group relations has gone far beyond the imposing of limitations on the economic power of employing groups over their employees and the safeguarding of the rights of free association by workers. It has been recognized that the functions of government in securing the "blessings of liberty" under the Constitution can be carried out effectively only in connection with the exercise of extensive functions for promoting "the general welfare." These public "welfare" functions, never absent from the interpretation of the Constitution, have assumed new forms and increasing importance.

These functions are exemplified by recent Federal and State laws and by court decisions and administrative activities giving effect to legislative policies. All political parties have pledged themselves in varying degrees to an extension of these policies. Moreover, the people of the United States have given tangible expression to their desire for international cooperation consistent alike with political liberty and social welfare. They have pledged adherence to the principles of free unionism, free choice of governments, and equality of rights of nations as well as individuals. They have supported international collaboration
through the United Nations and its agencies such as the International Labor Organization. They have shared their resources through such public instrumentalities as lend-lease and the Economic Cooperation Administration and such unofficial agencies as CARE, Inc.

In keeping with the generally accepted principle of freedom of thought, inquiry, and expression, views differ as to economic policies and the most desirable type of economic organization. Early in our history we inherited and widely accepted the views associated with Adam Smith's "system of natural liberty." That "system" opposed the restrictions of guilds and the powers of corporate monopolies as well as the "interference" of governments in economic life. The "system" assumed that the general welfare and the interest of workers and employers, producers, and consumers, would all best be served by automatic adjustments brought about by the free competition of all in the market place.

The increasing imperfections of private enterprise, competitive markets, and automatic adjustments brought about a change in prevailing conceptions of liberalism. The early ideas were no longer viewed as "natural laws." Private enterprise was required to defend itself on rational and social grounds, submit to numerous controls, and yield in part to public enterprise. The existing organization of economic life is not, however, so closely associated with the government that opposition to the economic system is treason to the state. Government is an over-all agency for reconciling differences of views and interests as reflected in the free interchange of thought, inquiry, and expression and in the free association of individuals in groups.

Unions, throughout their history, and their members as individuals, have freely voiced their views in support of a broadening interpretation of the functions of government beyond the protective role of maintaining civil rights and liberties. They were in the forefront of efforts to adopt such varied public measures as workmen's compensation for industrial injuries; safety laws and inspection of
places of work; regulation of hours and workin conditions and reduction of hours; minimum-wag: laws; social insurance; publicly financed housing facilities; public services of various kinds; conservation of natural resources; and public responsibility for maintaining high levels of employment and production. Some unions have advocated varying degrees of public investment and socialization of industry. They have recognized, however, the differences in the views of their own members; and these have retained their rights of party affiliation and expression of individual views.

Workers have thus played a vital role in the evolution of freedom or liberalism in the United States. They have helped to maintain and extend the traditional liberties of the individual; they have effectively championed free unionism and voluntary group action; and they have been in the forefront of the movement which has rapidly expanded the positive uses of government. But workers have insisted that decisions regarding the economic as well as other functions of government must emerge from free discussions and criticisms and that the decisions when made must be generally accepted. Policies, when adopted, remain subject to change, however, by the same process of free discussion, criticism, and popular action, based on the widest possible voluntary participation in the process of social adjustment. Because of differences of opinion, needed changes may be slow or incomplete; but ultimate adaptations by prevailing agreement are more soundly based than changes by arbitrary authority, acting either directly or through the control of opinions. Such an authority can give no valid assurance either of devotion to the general welfare or of wisdom or of permanence.

The methods of freedom and the institutions of free men vary from country to country; freedom, in essence, is a way of life. Workers in the United States have inherited that way of life; they have defended it and have enriched and improved it. Their status as workers and citizens affords them ample reason for cherishing their heritage.

## Jummaries of Studies and Reports

## Work Injuries in 1948: Preliminary Estimates

For the first time in 8 years, the number of disabling work injuries fell below 2 million, according to preliminary information for 1948. This improvement is encouraging, particularly in view of greater employment in almost every in dustry group during the year.

The volume of disabling work injuries in 1948 was estimated by the Bureau of Labor Statistics at about $1,960,000$. This is almost 5 percent under the 1947 total of $2,059,000$ injuries. The absence of any major disaster and the decrease in injury rates of manufacturing, mining, railroads, and a number of other industries account for this favorable showing.

The number of fatalities decreased by about 3 percent, from 17,000 to 16,500 . This was not as marked an improvement as shown in the case of the less serious types of injuries. Permanentpartial impairments decreased 7 percent, and temporary-total disabilities, 4.7 percent. The latter group included the large bulk of all injuries, numbering $1,858,000$. These injuries resulted in an inability to work for at least 1 full day after the day of injury, but involved no permanent ill effects. In contrast, the 83,700 permanent-partial disabilities involved the loss of some member of the body or the impairment of the use of some body part which would disable the workers to some extent for the remainder of their lives. Permanent-total disabilities numbered approximately 1,800 , unchanged from the previous year.

Actual time lost during the year because of work injuries which occurred in 1948 is estimated at about $41,000,000$ man-days, or the equivalent of a year's full-time employment of approximately 135,000 workers. This, however, represents only a part of the total production losses accruing from these injuries. If additional allowance is
made for the future effects of the deaths and permanent physical impairments included in the 1948 total, the economic time loss chargeable to these injuries would amount to about $219,000,000$ man-days -an equivalent of a year's employment of about 730,000 workers.

## Percent Decrease in Disabling Work Injuries 1947 to 1948



Construction was the only industry group to show a major increase in work injuries during 1948. This was due to a considerable increase in employment in this field as well as to an increase in the injury rate. Greater increase in total injuries than in employment is a phenomenon often associated with an expanding activity, particularly when the expansion has about reached the limit of the supply of skilled workmen.

There was a slight increase in the total number of agricultural work injuries, associated with a
slight increase in the number of hired hands and a decrease in the number of family workers. The number of fatalities increased 2.3 percent. These and past estimates of work injuries in agriculture have been based only on fragmentary data. Sample studies of injuries in agriculture are now being conducted by the Bureau of Agricultural Economics, and, when completed, will give a much sounder basis upon which to estimate these work injuries. Preliminary reports indicate that
a considerable upward revision in present and immediately past estimates may be necessary.

The mining group showed an encouraging improvement in its safety record. All this improvement was in coal mining. The number of fatalities in bituminous mines in 1948 was the fourth lowest on record and in anthracite mines was the second lowest on record. The 1948 fatality rates (number of fatalities per million tons mined) for both anthracite and bituminous-coal mining were the

Estimated number of disabling injuries during 1948, by industry group
[Preliminary]

| Industry group | All disabilities |  | Fatalities |  | Permanent-total disabilities |  | Permanent-partialdisabilities |  | Temporary-total disabilities |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total 1 | To employees | Total ${ }^{1}$ | To employees | Total ${ }^{1}$ | To employees | Total ${ }^{1}$ | To employees | Total ${ }^{1}$ | To employees |
| All groups ${ }^{2}$ - | 1,960,000 | 1,536,100 | 16,500 | 12,000 | 1,800 | 1,400 | 83, 700 | 65, 500 | 1,858,000 | 1,457, 200 |
| Agriculture ${ }^{3}$ - | 300, 000 | 72,100 | 4,400 | 1,100 | 400 | 100 | 15, 200 | 3, 600 | 280,000 | 67,300 |
| Mining and quarrying ${ }^{4}$ | 87, 200 | 82, 600 | 1,400 | 1,300 | 200 | 200 | 3,700 | 3,500 | 81,900 | 77, 600 |
| Construction ${ }^{\text {b }}$ | 173,100 469,200 | 121,900 461,500 | 2,500 2,600 | 1,900 2,500 | 300 200 | 200 200 | 4,800 23,700 | 3,400 23,400 | 165,500 442,700 | 116,400 |
| Public utilities. | 27, 400 | 27, 400 | 400 | , 400 | (7) | (7) | 600 | -600 | 26, 400 | 26, 400 |
| Trade ${ }^{5}$ | 347, 300 | 277, 800 | 1,500 | 1, 300 | 100 | 100 | 8,400 | 6,700 | 337, 300 | 269, 700 |
| Railroads ${ }^{8}$ | 62,900 | 62,900 | 700 | 700 | 300 | 300 | 4,400 | 4,400 | 57, 500 | 57,500 |
| Miscellaneous transportation ${ }^{\text {s }}$ | 132, 600 | 110,500 | 800 | 700 | 100 | 100 | 6,300 | 5,200 | 125, 400 | 104, 500 |
| Services, government, and miscellaneous industries ${ }^{5}$. | 360, 300 | 319,400 | 2, 200 | 2,100 | 200 | 200 | 16,600 | 14, 700 | 341, 300 | 302, 400 |

${ }^{1}$ Differences between total number of injuries and injuries to employees represents injuries to self-employed and unpaid family workers.
${ }^{2}$ Does not include domestic servants.
${ }^{3}$ Based on fragmentary data.

- Based largely on U. S. Bureau of Mines data.
${ }^{5}$ Based on small sample studies.
- Based on comprehensive survey.
${ }^{7}$ Less than 50.
8 Based largely on Interstate Commerce Commission data.
lowest in a statistical record extending back to 1910. The nonfatal rate in bituminous-coal mining was the lowest in a statistical history starting in 1930. Other types of mining showed slight increases in the number of injuries during 1948. Although there were no disasters as serious as the Centralia mine explosion of 1947, still 6 disasters which resulted in the death of a total of 49 men were recorded.

In manufacturing industries, preliminary reports indicate a substantial improvement in the injury-frequency rate; although employment increased slightly, total injuries decreased about 13 percent.

In interstate railroads, a decline in injury rates, coupled with a slight decrease in employment, resulted in a net decrease of about 12.5 percent in total injuries.

In utilities, trade, and the service, government, and miscellaneous group, improved safety records resulted in decreases in the total number of injuries, even though there was some increase in
employment. The miscellaneous transportation group showed a slightly greater decrease in injuries than occurred in employment.

Information now available indicates considerable improvement in industrial safety during 1948 in most lines of activity except construction. The record still leaves much to be desired, however. The loss of 730,000 man-years of productive effort is a tremendous cost to society.

## The Economic Reports of the President and the CEA

Sources of the Nation's economic strength and means whereby the American competitive economic system can be kept sound were stressed in three Government documents that were issued in late 1948 and early 1949. These documents are the annual economic reports of the President and
of the Council of Economic Advisers and the President's annual message to Congress on the State of the Union.

## Report of Council of Economic Advisers ${ }^{1}$

The third annual report of the Council of Economic Advisers, submitted to President Truman on December 26, 1948, is largely a discussion of "the environment within which the Council operates." It is a general statement of the economic philosophy which guides the Council in determining the policies that it recommends under the duties assigned to the Council by the Employment Act of $1946 .{ }^{2}$
"Free" and " Competitive" Enterprise. "American sentiment," the report states, "has always been firm in support of a system of free enterprise and in opposition to a planned economy. Yet our political history is replete with accounts of policies adopted by Government for the very purpose of influencing the economy and of restricting or conditioning the choice of a course of private action." The history of United States policy justifies an interpretation of the phrase "freedom of enterprise" broad enough to permit the Council to propose comprehensive programs of taxation, monetary and credit control, public-works construction, regional development, and social welfare.

In defining competitive enterprise, the report continues: "The American definition of a competitive economic system, as drawn from our national policies, is unique. It falls far short of the theoretical standard, but calls for competition far beyond the requirements of the economic system of any other country."
"The assumption in classical [economic] doctrine that the productive resources of capital and labor were so fluid that they flowed readily into any profit-making opening was supported by observable facts. But it is not true today of a large part of American industry, where mass-production methods have led to the creation of great units which alone can exploit the new technology. The requirements of capital and of organization of forces to initiate a new enterprise present a serious obstacle to the appearance of new competitors in many of our most important industries. These

[^10]requirements also affect existing firms, and there has been a steady movement in the direction of increasing size as smaller units are merged into larger ones." The Council believes the better solution for the "administered price problem" can come from voluntary action on the part of industry rather than in legislation.

Determining the Labor Contract. The section on determining the labor contract emphasizes that "one limitation upon the character of policies proposed by the Council, clearly imposed by the Employment Act, is that the fixing of the terms of the labor contract shall in general be left to the voluntary action of management and labor. In the light of our legislative and industrial history the phrase 'free competitive enterprise' cannot be interpreted otherwise. Except in national emergency, it is settled national policy that employers and adult workers shall be permitted to make their own agreements about wages and other features of the labor contract, aside from legislation directed against substandard wages and working conditions."
"Labor and management have both been firm in their opposition to any plan to have the terms of the labor contract fixed by some official authority when the collective-bargaining process has collapsed * * * disputes generally affecting the economy remain a perennial threat to the attainment of economic stabilization and maximum production which is the objective of the Employment Act.
"Settlement by government does not avoid but rather intensifies the need for adequate standards as to what precise decisions will be fair to both parties, acceptable to the public, and consistent with the needs of the whole economy. These standards include a wage structure in relation to prices that will maintain the producing power of industry and the buying power of labor in sound proportion. In the absence of such standards, no forced settlement could be desirable and therefore could not last. If such standards can be developed and win adherents, the prospects for voluntary settlement will become so bright that the need for compulsion would be rare indeed.
"If an attempt is made to make further progress toward the goal of better economic adjustments by organizing a labor-management conference
rather than by establishing such a commission as the President proposed in his State of the Union message in January 1947, preparatory work would be as necessary as in the case of international conferences. The area within which there is some real chance of agreement should be ascertained by extensive preliminary inquiry, and an agenda should be prepared and agreed upon through which fruitful subjects might be carried to a conclusion and the conference not led into disagreements upon points not yet within the area of possible agreement."

Other Problems in Fixing Policy. "A great nation has many objectives, and social and political programs to which the popular voice has assigned supreme importance cannot be set aside in order to simplify the making of purely economic policies. The task is rather to devise those economic policies which will be effective and at the same time to permit other programs to move forward. * * *
"It is not to be expected that abstract theory can produce any rule which determines this stabilizing relationship among wages, prices, and profits or between any two of them. But it is not too much to hope that, through empirical observation, reenforced by economic analysis and judgment, it will be possible to make progress in ascertaining the respective movements which will contribute toward improved stability.
"Early experience under the Employment Act of 1946 has brought into sharp focus the practical difficulties which lie between the initiation of a national economic policy and the adoption of that policy by the Congress. Our American democracy will yield only slowly to the need for the deliberate formulation and integration of national policies in the interest of sustained prosperity."

## The Economic Report of the President

The third annual economic report of the President, submitted to Congress, on January 7, 1949, under the requirement of the Employment Act of $1946,{ }^{3}$ points to the economic advances made during 1948. It cautions, however, that many adjustments in price and income relations are necessary as the economy moves out of a period of war-

[^11]created demands. The report is based on an analysis of the operation of the economy during 1948 made by the Council of Economic Advisers, and printed together with the President's Economic Report.

Situation During 1948. The past year has tested the strength of the country's economy, the President said. In early 1948, the sharp break in grain prices "spread concern throughout the economy. * * * But this break did not set off a train of consequences similar to those which, following World War I, had turned the boom into a deflation."
"Affirmative national policies and greater caution in the business community combined with other developments to make the economy more shock-resistant." Farm price supports guaranteed that the collapse of agricultural prices would not impoverish the farmer nor bring about a chain reaction of price breaks in other markets. The financial and banking structure, the Chief Executive said, is stronger than in the early 1920's, and working groups have greater income and savings. Social security has added to the feeling of stability.
"While the prosperity of the postwar years has been great, it has rested in considerable part on somewhat temporary factors which were the aftermath of war. In 1949 we are entering a period of harder tests."

Employment in 1948 ranged between 57 and 62 million workers and averaged more than 59 million. Production was between 3 and 4 percent higher than in 1947. Prices ceased the broad upward movement which had continued since the removal of price controls. Wages increased during 1948, although disparity was considerable in the increases granted to different workers. Work stoppages were about at the same level as in 1947. Profits in 1948 surpassed all records and kept rising through the year. Money and credit continued to increase, but at a lower rate than in 1947. Consumer income increased, but price increases meant no change in real income for consumers. Investments were generally higher than in 1947, but the export surplus of goods and services was lower than in 1947. Government fiscal transactions were a strong anti-inflationary factor in the early part of 1948 , but lost a substantial part of their effect during the year.

Guides to Economic Policy. Six guides to economic policy were outlined by the President. "We should remember that the goal we seek is the greatest prosperity for the whole country and not the special gain of any particular group. * * * Maximum employment for 1949 means that nearly 1 million additional job opportunities should be provided for the growing labor force.
"We should think and work with a reasonably long look ahead, not keeping our eyes just on the problems of the moment. * * * We must pursue affirmative programs for housing and health, for education, and resource development.
"In order to have a yardstick for appraising strength and weakness in our economy and the adequacy of Government programs, we need concrete objectives for economic growth, and particularly standards for a better balance between production and consumption, income and investment, and prices, profits, and wages which will be conducive to sustained economic progress. * * *
"We are dedicated to the principle that economic stability and economic justice are compatible ends.
"We must fulfill the requirements of our essential programs-national defense, international reconstruction, and domestic improvements and welfare-even if doing so may require the temporary exercise of temporary controls in our economy.
"The vigorous commitment by the Government to an anti-inflation policy should not obscure the fact that the Government is equally committed to an antidepression policy."

Legislative Recommendations. Recommendations for legislative action were also made in the report. The President elaborated on his antiinflation program as outlined in his State of the Union Message (which is also reviewed in the present summary). In addition, he recommended legislation to increase Government revenue from taxation by 4 billion dollars a year.

He recommended that benefits under the Federal old-age and survivors insurance program should be substantially increased, that the minimum wage (under the Fair Labor Standards Act) should be increased to at least 75 cents an hour, and that public assistance for relief should be

Finally, he stated: "We should press forward at once with some programs of high priority needed now to conserve and increase the strength of our Nation." Programs dealing with natural resources, agriculture, international economic relations, housing, urban redevelopment, education, health, and old-age, disability, and unemployment insurance were suggested.

## Presidential Message to Congress ${ }^{4}$

On January 5, 1949, President Truman delivered his message on the state of the Union before a joint session of Congress. He referred to the state of the Union as good and said that during the last 16 years "the American people have been creating a society which offers new opportunities for every man to enjoy his share of the good things of life. * * * But great as our progress has been, we still have a long way to go."

Of the first importance is the need "to protect our economy against the evils of 'boom and bust'." The President again asked that his antiinflation program be enacted, requesting legislation for the following purposes:
(1) To continue present consumer credit control and to increase the power to limit bank credit.
(2) To provide authority to regulate commodity market speculation.
(3) To continue export control authority.
(4) To continue transport priorities and allocation powers.
(5) To authorize priorities and allocation powers for key materials in short supply.
(6) To extend and strengthen rent controls.
(7) To provide "stand-by" authority to impose price ceilings on "scarce commodities which basically affect essential industrial production or the cost of living and to limit unjustified wage increases which would force a break in this ceiling."

The President's recommendations for labor legislation called for the repeal of the Labor Management Relations (Taft-Hartley) Act of 1947 and the re-enactment of the National Labor Relations (Wagner) Act. "However," said the President, "certain improvements which I recommended to the Congress 2 years ago, are needed. Jurisdictional strikes and unjustifiable secondary

[^12]boycotts should be prohibited. The use of economic force to decide issues arising out of interpretation of existing contracts should be prevented. Without endangering our democratic freedoms, means should be provided for setting up machinery for preventing strikes in vital industries which affect the public interest.
"The Department of Labor should be rebuilt and strengthened, and those units properly belonging within that department should be placed in it.
"The health of our economy and its maintenance at high levels further require that the minimum wage fixed by law should be raised to at least 75 cents an hour."

The message contained recommendations on a great variety of other subjects, including fiscal policy, anti-trust legislation, agriculture, public works and natural resources, social security and public health, education, housing, civil rights, and foreign policy.

## Obligations and Rights

 Under Collective BargainingTypical contract clauses on the rights and obligations of the parties to collective agreements are included in one of the Bureau of Labor Statistics bulletin series on Collective Bargaining Provisions. ${ }^{1}$ They are presented in chapters dealing respectively with management functions and union rights, activities, and responsibilities. In the selection of such clauses, the Bureau utilized a file of over 15,000 agreements, and made its choices in order to provide a handbook of sample clauses that would reflect the results of recent negotiations.

## Management Functions

Many of the traditional "prerogatives" of management to direct and operate business have come to be regarded as subject to collective bargaining between unions and management. Management functions at any particular time,

[^13]therefore, appear to depend upon the degree of joint confidence and the fields recognized as within the scope of collective bargaining by union and management. Adoption of the collective-bargaining agreement in a sense constitutes a curb on management's authority; for example, not to discriminate against union members, to pay certain wages, and to subject certain management decisions and actions to review by a grievance procedure. Limitations are also placed on the authority of management in the field of industrial relations by various laws and regulations, such as the Labor Management Relations Act of 1947 and the Fair Labor Standards Act of 1938.

Spokesmen for management at the President's National Labor-Management Conference in November 1945 classified management functions in two groups: absolute functions of management which are not subject to collective bargaining; and prerogatives exercised in situations in which initial management decisions may be reviewed through the grievance procedure. A third area of responsibility involves matters affecting the fundamental nature of the contract relationship and is consequently subject to collective bargaining before final decisions are made.
Some employers believe that a clear demarcation of collective bargaining and management rights is necessary. For this reason, they favor the inclusion in agreements of statements on the powers reserved to management. Because an agreement restricts management prerogatives, they deem it essential to specify those matters which are not limited by agreement and which are necessarily and essentially reserved for management's exclusive authority. In the opinion of these employers, such express statements tend to reduce the area of possible conflict and protect management's rights in the disposition of grievances over disputable issues and in arbitration on matters not specifically covered by agreement. Other employers fear that the specific enumeration of management rights may be interpreted as limiting management to those rights enumerated in the agreement.
Labor members of the National Labor-Management Conference opposed any listing of management functions on the ground that this would tend to cause a rigidity in industrial relations matters subject to collective bargaining. The labor members also pointed out that with the growth of
mutual understanding, a responsibility of one of the parties could well become the joint responsibility of both parties.

Among management-prerogative clauses in agreements, some are detailed and list the specific rights reserved to management; others state broadly that management reserves to itself all rights, powers, and authority not expressly modified or abrogated in the agreement, without specifying these rights. In those agreements that explicitly state management rights, two broad categories are usually included: (1) decisions dealing with the tangible aspects of the business-such as the determination of the number and location of plants, the type of products to be made, technological methods and processes, materials, finance and price policies, business practices, etc. and (2) decisions in the field of employer-employee relationship-such as the direction of the working forces, hiring, transfer, promotion, suspension, or discharge for cause, lay-off for lack of work; and maintenance of discipline; etc.

In analyzing management prerogatives, clauses on this subject must be considered in conjunction with other provisions in the same agreement which may affirm or modify management's stipulated discretionary powers. Frequently, clauses governing management's rights are dispersed throughout the contract: the extent of discretionary powers is stated with respect to specific actions and situations, such as transfers, promotions, demotions, discipline, plant rules, schedule of production; a general listing of management rights is not included.

A typical clause follows which sets forth in very general terms the rights reserved for management.

[^14]Some clauses very definitely limit managerial authority. This is done by a statement that all or part of the management rights listed in the agreement are subject to grievance procedure; by a requirement of consultation with the union in some way; or by a specific exclusion of certain matters, such as wages, hours, and working conditions, from management's authority and a provision that they are subject to change only through collective bargaining.

> Exercise of Management's Listed Rights Subject to Collective Bargaining and Grievance Procedure, but not Arbitration.
> It is agreed that the Company has the right of management, except as expressly limited and modified in this agreement. This includes among other things the right to plan, direct, control, increase and discontinue operations; to change machinery ard types of operations; ;o add or reduce shifts, and to select persons to be hired and promoted. Any complaint as to any action under this section may be made the subject of collective bargaining and grievance procedure up to but not including arbitration.

The enumeration of rights reserved to and retained by management is sometimes qualified by the statement that the exercise of such rights is subject to other provisions of the agreement. Such a proviso is usually implied even if not actually stated. As previously indicated, no definitive statement of management's rights can be made without checking the entire agreement for clauses which might restrict the rights enumerated.

Several "management rights" clauses state that the authority granted shall not be used for the purposes of discrimination because of union membership or activity. In effect, such limitations merely restate the ban on union discrimination contained in the National Labor Relations Act as amended by the Labor Management Relations Act of 1947.

Employers, who are concerned that the listing of topics regarded as management prerogatives jeopardizes any rights not listed, frequently guard against inadvertent omissions. This is accomplished by the inclusion of statements to the effect that the listing of specific rights is not all-inclusive nor does it exclude other rights not listed.

[^15]The Management of the works and the direction of the working forces, including the right to hire, suspend or discharge for proper cause, or transfer, and the right to relieve employees from duty because of lack of work, or for other legitimate reasons, is vested exclusively in the Company provided that this will not be used for purposes of discrimination against any member of the Union nor will it be used contrary to any other provision of this Agreement. It is further understood and agreed that the foregoing statement of Management functions shall not be deemed in any way to exclude other Management functions not specifically enumerated.

In running the business, directing the working force, and maintaining shop discipline, management customarily adopts rules and regulations and lists penalties for failure to observe them. In turn, agreements specifically or tacitly permit management to establish reasonable and necessary plant rules. They rarely give a complete outline of working rules but frequently incorporate them by reference and affirm the company's right to adopt, revise, and enforce such rules. The agreement may also state management's right to discipline employees for infractions.

Quite commonly, the only contract reference is a statement that employees shall be properly informed of company rules, either by posting the regulations or distributing copies to all employees.

A proviso is often made that the exercise of the right to issue and enforce rules must not conflict with the terms of the agreement; or that the rules shall be applied without discrimination. In a number of agreements, the union is granted a voice in promulgating or in changing such rules; it may also be permitted to challenge a rule or its application through the grievance procedure.

[^16]The employer is held responsible for notifying employees of the customs, practices, and rules governing employment conditions in the plant. Commonly, rules and regulations (and revisions) must be posted, but under some agreements each employee must be furnished with a copy. In some instances, the rules and the union contract are distributed to employees at the same time, or in a single document.

Disclipinary action, including discharge for violation of the rules or misconduct, is regularly recognized in agreements as a management function, provided no rights guaranteed in the agreement are abridged thereby. Sometimes, the specific penalty or range of penalties for violation of each rule is also listed. In other instances, the company is authorized to apply appropriate penalties, without listing them in detail. The right to appeal the company's disclipinary action through the grievance procedure is explicitly stated in some agreements; it is implicit in most others.

> Disclipinary Action for Rules Violation Subject to Grievance Procedure.
> Written rules governing the conduct of employees are hereto attached as Exhibit "B." A copy of such rules will be posted on the bulletin boards in the plant or distributed to the employees. All employees are required to observe said rules, but the Union reserves the right to utilize the grievance procedure with reference to any disclipinary action of the Employer for violation of such rules.

Unions sometimes charge employers with attempting to evade the terms of their agreements by moving their plants to nonunion areas. Therefore, some agreements restrict removal of the plant from its existing location. In others, this right is reaffirmed, but provision is made for certain safeguards on employment status and seniority of present employees if the plant is moved. Other types of restrictions include a ban on removal beyond a single fare transportation zone or beyond a specified distance from the existing location. Under some agreements, removal of the plant is allowed only with union consent, or if payment is made for the costs of transfer or moving expenses or for added travel expenses. A limit is sometimes placed on the amount of the difference between the old and new fares which the employer will pay or on the time during which he will make up such difference.

No Move Beyond Metropolitan Area Limits.
The firm agrees not to have its establishment beyond the limit of the metropolitan area during the life of this agreement.

Employees Given Opportunity to Retain Present Job or, if Unavailable, to Transfer to Another Job for Which Qualified.

The Employer agrees that during the life of this agreement it will not move its plant outside the limits of the City of $* * *$ in order to avoid dealing with the Union. If the plant is moved, the employees then employed by the Employer will be given the opportunity to continue their employment in their occupational classification, if it is available, or to apply for transfer to another job for which they are qualified, by virtue of past experience with the Employer, to perform.
Management considers contracting work out to be an exercise of its right to determine the means and method of production. Unions seek to regulate or restrict the practice of subcontracting because it is a potential threat to their job opportunities and working standards.

Few of the agreements which limit contractingout and subcontracting completely prohibit subcontracting. Some specify that the employer has the sole right to contract work out; others require prior union approval. More often, such work is permitted under certain conditions: if employees of the company are fully supplied with work; if it is more economical or expedient to contract out; if the shop is not properly equipped to do the work. Some agreements provide that work contracted out must be done under specified conditions; for example, the contractor must conform with the terms of the agreement; the work must be sent to a shop having an agreement with the union or another union not affiliated with it; the wage rates provided for in the agreement must be paid. Another limitation forbids the employer to subcontract with a firm on strike.

Some agreements also prohibit contracting within the shop or so-called "time contracts" under which workers bid for or are assigned work as contractors instead of receiving fixed hourly or piece-rate earnings. A ban on home work is also written into some agreements.

## Company Retains Right to Subcontract.

The Company shall have the right to subcontract work as the demands of its business require.
Restrictions on Subcontracting: All Employees Must be on Full Time and None Laid Off; Subcontractor Must be Covered by Agreement.

The Employer shall not subcontract any work to any shop not operating under the Union agreement, nor shall any work be subcontracted or performed in a subcontract shop while any of the employees of the principal shop are employed less than full time or are laid off.

## Union Rights, Activities, and Responsibilities

Under collective-bargaining agreements, unions and their officers and members generally are authorized to engage in certain activities on the employer's premises. They are granted access to certain facilities and records of the employer to the extent necessary or useful to the proper exercise of the union's function as bargaining representative.
Both the National Labor Relations Board and the courts have recognized the union's right to carry on certain activities on the employer's property. To safeguard management's property rights and to maintain discipline, some restrictions on or regulations of the kind and extent of activities permitted are generally agreed upon in collective bargaining. Mutual pledges by employers not to discriminate against workers for union membership or activity, and by unions not to intimidate or coerce employees in persuading them to join their ranks, are usually linked in the same clause. In essence, such clauses restate the statutory restrictions imposed on the parties by the Labor Management Relations Act.

A number of agreements contain clauses which forbid employer or union discrimination because of race, creed, or color, in addition to union membership activity. Some of them reiterate obligations imposed by several State fair employment acts.
Unions generally try to obtain as much latitude as possible for their members to distribute literature, to solicit new members, and to collect dues (if there is no check-off system) in the plant during working hours, provided work is not interfered with. However, some union agreements prohibit all union activity, other than the handling of grievances, in the plant on company time. Others state merely that no union activity shall take place during working hours, and this presumably leaves employees free to participate in union activity on their own time on the employer's premises. Some distinguish between union organizational activity and casual conversation on union matters. In
certain cases, union activity is specifically authorized on the employer's property during the employee's free time-a type of activity permitted under National Labor Relations Board rulings. Other agreements prohibit or restrict union solicitation and dues collection on company time but permit such activity on company property. Often agreements contain only a general prohibition of any union activity on company premises which interferes with production.

In some plants, the union is allowed office space for keeping books and records, and, in others, the union may hold elections for officers on company property.

Related clauses deal with the right of employees to wear such union insignia as badges and dues buttons, at work. This right may be expressly set forth; under some agreements, however, the employer's permission must be obtained. Company rules forbid the wearing of union insignia in some establishments.

> Listing of Union Activities Permitted at Specified Times.
> The Company will not interfere with the right of employees to join the Union or engage in Union activities and the Union agrees that its representatives and members will not carry on such activities on Company time or during working hours on Company property or in such manner as to interfere with the efficient operation of the plant. It is, however, permissible to collect Union dues and solicit Union membership before and after working hours or during the dinner period and distribute literature after working hours in the vicinity of the time clocks on Company property.

Often allowance is made by agreements for visits to the plant or office by union representatives who are not employees of the company. Notably in the building trades, union representatives generally can walk in and out of a property under construction, at will. In plants closed to the public, visits by outside union officials may be permitted only under certain conditions and on specific occasions. Generally, the purpose is to avoid interference with production and to insure that only authorized persons have access to the firm's plants and operations.

Requirements may consist of giving notice to the employer or of securing a special pass. The union representative may have to request specific authorization for each visit and perhaps be accompanied by an employer representative. Some agreements allow the union representative
to confer with any employee in a private office. In large mass-production establishments, a shop steward or committee system may be established in order to process grievances and to maintain contact with individual employees. This does not necessarily exclude outside union officials from entry to investigate grievances or to assist the local union in its discussions with management.

In some agreements, the timing of the visits is either not restricted or it is stated merely that visits may come at reasonable times and are not to interfere with production; others limit the number or length of visits. The number of representatives who may be in the plant at one time may be restricted. Where a hazard exists, the agreement may require adequate insurance coverage by the union in order to protect the company against any loss by or injury to the union representative.

Plant visits by union representatives are normally limited to purposes relating to the agrèement or grievances arising in connection with it. Conferences and interference with employees during working hours are not generally permitted. Some agreements state the purposes of plant visits in general terms. Others state that visits are permissible to check compliance with the agreement, to investigate working and sanitary conditions, to study new operations and projects, etc.

> Visits to be Prearranged and Limited to Department in Which Grievances are Involved. May be Accompanied by Company Representative.

The International President of the union or his representatives shall have access to the company's * * * plants in order to contact foremen, employees or members of the Joint Grievance Committee on matters pertaining to any grievance arising under this contract. Such visits to the plants must be pre-arranged with the Director of Industrial Relations or some other representatives designated by the company for such purpose, so as to avoid interference with the operations in any department. The company may designate someone to accompany these representatives on such visits. The company, through plant officials, will provide plant passes in such manner that no such representative of the International Union shall be inconvenienced when he wishes to make such a visit, provided arrangements have been previously made with the Director of Industrial Relations. Such visits shall be confined to departments in which grievances are involved, and shall not extend to departments not covered by this agreement, or to experimental research, testing
and other departments where confidential information is contained.

Many agreements require the employer to make available to the union its records of wage rates, changes in rates, current and new job descriptions, time-keeping records, and other instructions and data relating to hours, wages, or working conditions. In a few industries, the union is accorded the right to examine the employer's books to determine compliance with contract terms as to rates or earnings of the employees, etc. If a bonus or profitsharing system is established by the agreement, the union may be authorized to inspect the financial records of the employer. Other types of information made available to the union include lists of new and discharged employees; information concerning lay-offs, recalls, transfers, demotions, and suspensions; copies of papers showing leaves of absence granted by the company; apprenticeship records, etc.

Entries in an employee's personnel file are sometimes open to inspection by the employee or his union representative and, in some cases, are subject to appeal through the grievance-arbitration procedure.

> All Books and Records Showing Pay Rolls, Labor Cost, and Production Available to Union on Request.

> Upon the request of the Union, the members of the Association shall exhibit for examination all books and records showing pay rolls, labor cost and production for the purpose of ascertaining whether the provisions of this agreement are fully complied with. Such examination shall be made during reasonable business hours. Failure to comply with this request shall be deemed a violation of this agreement.

In plants with large numbers of widely scattered workers, the bulletin board may be the union's only means of communicating with its members. Union agreements reflect widespread adoption of the privilege of unions either to use company bulletin boards or to use special bulletin boards provided by the company for the union's exclusive use. Some agreements prescribe the number and location of the bulletin boards; others stipulate that they shall be "conveniently" or "conspicuously" located; and still others specify that both parties shall agree on their location.

Some clauses provide that only notices officially
approved by the union or by a designated union official may be posted. Posting is subject to prior company approval in some agreements, although others make no reference to such approval. In some cases, notices are posted directly by the union; in others, they must be given to a designated company official for posting.

The nature of the material which can be posted is often restricted to noncontroversial subjects. such as notices of union elections, meetings, and social affairs. Often a description of the types of notice specifically permitted or prohibited is included in the agreements. Penalties may be provided for improper use of the boards.

## Listing of Types of Notices Permitted.

The Union shall have the right to make reasonable use of the bulletin boards for posting notices, but shall be restricted to the following notices:
(a) Notices of meetings of the Union.
(b) Notices of its elections.
(c) Notices of its appointments to offices and the results of its elections.
(d) Notices of its social, educational or recreational affairs.

Numerous agreements contain employer pledges not to interfere with an employee's legal rights to join the union and not to discriminate against him because of union membership or activity, and union pledges not to discriminate against a nonunion worker and not to intimidate or coerce him into joining or remaining in the union. Mutual pledges may be included not to take part in any public demonstrations or give out any publicity which would be harmful to peaceful industrial relations.

## Mutual Noncoercion, No Discrimination Clause.

The individual employee shall be the sole judge of whether or not to become a member of the Union. Neither the employer nor the Union will in any way interfere with, discriminate against or coerce any employee because he is or is not a member of the Union.

When one or both parties agree not to discriminate against any employee because of race, creed, or color, or religious or political beliefs, such pledges are usually extended to persons seeking employment as well as to those actually on the pay roll.

## Practical Uses

## of Trade-Union Records

Union records as statistical sources were discussed in a paper presented at the American Statistical Association meeting at Cleveland in December 1948. ${ }^{1}$ This paper had the twofold advantage of covering a field about which little is known outside the individual trade-unions themselves and of showing the varied uses to which the findings of a particular union-the International Association of Machinists-have been put. The speaker looked "at the union records from the inside," in order to explain to his audience the scope of the IAM statistics dealing with union membership, collective agreements, and union finances. He added that examination of union election records had disclosed interesting facts also, and that if a session of the ASA's annual meeting were devoted to union statistics, much could probably be learned about numerous other tradeunion activities.

## Census Methods and Tools

According to the speaker, the labor statistician is free to conduct a small-scale census. In performing his work he must utilize all appropriate statistical devices and common sense. The extent to which source material is used depends upon the union statistician himself, but he should be equipped with the necessary tools. The IAM's census rests upon a foundation of punched cards ${ }^{2}$ just as the United States Census does.

In each local, the financial secretary collects facts and sends his reports to the national union office. IAM has roughly 1,800 locals and about that many reports reach headquarters each month. Naturally, with such a volume of schedules, the marginally punched card has proved a suitable device for quick processing of records.

## Union Uses of Records

In 1947, the IAM from these cards was able to analyze its membership by type of industry for the first time. The officers' report to the twenty-

[^17]second convention of the IAM shows that in the automotive repair industry, for example, membership grew by 38.2 percent from January 1946 through February 1948 compared with an 11.3percent advance in the union's total membership.

Likewise, an elementary investigation was made to relate the union's strength to the industrial standing of the same community. It showed that eight States accounted for almost two-thirds of the IAM members in continental United States. However, this concentration of membership was only partially accounted for by the industrial rank of the States. From figures for two States, it was also found that the predominance of IAM membership in one State as compared with another is not connected with the level of general union organization.

IAM punched cards were sorted, in another test, to determine whether a seasonal factor affects good standing membership. None was disclosed. But a distinct seasonal variation in dues payments was revealed in one local studied, from a high payment in January, followed by rises and falls, to a low in December when Christmas shopping has prior claim over other payments. The speaker also learned from his investigation that the IAM had 4 percent of the trade-union membership recently as against 1.8 percent of the total in the depth of the depression during the 1930's.

In the analysis of its 11,000 collective agreements, which are received at the rate of 500 a month, IAM found punched cards convenient for coding purposes. Since members of the union make articles as diverse as airplanes and zippers, systematic means obviously were required merely to classify the agreements by industry. In doing this, the Standard Industrial Classification Manual prepared by the Federal Government was valuable.

Agreement information is constantly used by the IAM. A tabulation of wage rates and other provisions of current agreements is published monthly in the union's Research Bulletin. Monthly, quarterly, and annual summaries are prepared of important provisions and characteristics of the agreements.

Academic interest alone is not a valid reason for such activities. The data obtained must serve as a guide to the officers of the union in determining its current operations and future plans.

Valuable information for administrative purposes is contained in the published reports of tradeunions. The author analyzed the financial statement of eight unions to find out what they spent for a particular item compared with the expenditure by IAM. He discovered that the IAM spent 4 to 10 times as much as any other union for this particular service. IAM's outlay represented 17 percent of total expenditures and was greater on a proportionate basis than for any other union.

It may not be necessary to make inter-union comparisons of expenditures. Sometimes, it is sufficient to reduce expenditures to a per capita basis, by city, district, State, or vice presidential territory. One such study for an important item revealed a range from $\$ 4.17$ to $\$ 10.14$ per capita and a per capita average of $\$ 5.04$ for the United States and Canada. Such "cost-accounting" has an obvious value.

## Uses of Records by Others

Some of the collective agreement information compiled by IAM on its punched cards was used by UNESCO. The labor advisory group to the American delegation of UNESCO needed data on equal pay for women. IAM obtained a list of agreements having such provisions, giving the industry group, location, union security number under IAM jurisdiction, and stating whether the agreement was signed jointly with any other union.

The most elaborate study of IAM agreements was made by the union for the benefit of the nonoperating railroad unions which were seeking changes in pay, hours, and working conditions. All firms were listed which paid time and a half for hours worked in excess of 40 a week.

## Hosiery Manufacture: Earnings in October $1948^{1}$

Occupational earnings levels in the fullfashioned and seamless hosiery industries, presented separately in this report, differed substantially in October 1948.

The manufacturing processes used in producing full-fashioned hosiery are more complicated than 824906-49-3
those in seamless hosiery. Use of similar job terms in the two industries (as in the accompanying tables) does not imply identical or equal job requirements. In the major production areas studied, full-fashioned hosiery mills on the average were larger, measured by employment, than seamless hosiery mills. The full-fashioned hosiery industry is also more highly unionized, although comparatively few of the southern mills had agreements with a labor union in October 1948, the date of the Bureau's study. ${ }^{2}$

Women account for three-fifths of the labor force in the full-fashioned hosiery industry and for an even larger proportion in seamless-hosiery production. Nearly all the knitters in full-fashioned hosiery mills are men, whereas in this work in seamless-hosiery mills, women predominate. The highly automatic types of knitting equipment employed in seamless-hosiery manufacture, however, require a proportionately greater number of adjusters and fixers than is needed in full-fashioned hosiery mills. Except for this job group, in which time rates are typical, a majority of the workers in the occupations for which earnings data are here presented are paid on a piece-work basis.
Nearly all establishments studied reported that a 40-hour workweek was scheduled in October 1948. Formal provisions for granting paid vacation leave to mill and office workers had been established by 74 of 81 full-fashioned hosiery establishments, 36 of 52 men's seamless-hosiery mills, and 8 of 21 plants manufacturing children's hosiery. Vacation plans typically provided 1 week with pay to employees with a year of service. A substantial number of employers, however, provided 2 weeks of paid vacation leave to office workers. Paid holidays, generally 5 in number, were provided for mill and office workers by a great majority of the full-fashioned hosiery plants in Philadelphia and Reading. Very few of the other establishments studied provided paid holidays to mill workers, but a majority (except in the men's hosiery industry in Statesville-Hickory, N. C. and the children's hosiery industry in Winston-

[^18]Salem-High Point) provided 2 or more paid holidays to office employees.

## Full-Fashioned Hosiery

Average hourly earnings of men knitters (using single-unit equipment and legger machines fitted with backrack attachments) varied considerably by area, gauge of hosiery, and number of sections in the machine. Knitters producing 45-gauge hosiery ( 24 sections or less) averaged from $\$ 1.61$ in Statesville-Hickory, N. C., to $\$ 2.42$ in Reading, Pa. In contrast, knitters making 51 -gauge hosiery ( 26 or more sections) earned from $\$ 1.97$ in Statesville-Hickory to $\$ 2.75$ in Philadelphia.

Table 1.-Straight-time average hourly earnings ${ }^{1}$ in selected occupations in full-fashioned hosiery industry, in selected areas, October 1948

| Occupation and sex | Burling- <br> ton- <br> Greens- <br> boro, <br> N. C. | Char- <br> lotte, <br> N. C. | Phila- <br> del- <br> phia, <br> Pa. | Read- <br> ing, <br> Pa. | States- <br> ville- <br> Hick- <br> ory, |
| :---: | :---: | :---: | :---: | :---: | :---: |
| N. C. |  |  |  |  |  |

${ }^{1}$ Exclusive of premium pay for overtime and night work.
${ }^{2}$ Insufficient data to justify presentation of an average.
Within an area, Philadelphia showed the greatest variation in earnings among the knitting classifications: knitters making 51 -gauge hosiery ( 26 or more sections) averaged 99 cents an hour more than those producing below 45-gauge hosiery ( 24 sections or less).

Knitting machine adjusters and fixers averaged
$\$ 1.77$ and $\$ 1.90$ an hour, respectively, in Philadelphia and Reading; however, in the three North Carolina areas, earnings ranged from $\$ 1.84$ in Statesville-Hickory to $\$ 2.05$ in Charlotte. Earnings of men boarders (machine) averaged $\$ 1.77$ in Philadelphia and $\$ 1.75$ in Reading, but in North Carolina ranged from $\$ 1.11$ to $\$ 1.35$. Thus, although workers in Philadelphia in these two jobs had similar earnings, and in Reading differed by only 15 cents, average earnings of adjusters and fixers in each of the southern areas exceeded those of boarders by 65 cents or more.

Seamers (major women's job in the industry) earned 98 cents in Statesville-Hickory, $\$ 1.14$ in Burlington-Greensboro, $\$ 1.25$ in Charlotte, $\$ 1.37$ and $\$ 1.39$, respectively, in Philadelphia and Reading. Inter-area differences in earnings were generally smaller in other women's jobs. Hand menders, for example, earned from $\$ 1.10$ in States-ville-Hickory to $\$ 1.33$ in Charlotte. Hosiery inspectors averaged 93 cents in Statesville-Hickory and from $\$ 1.05$ to $\$ 1.17$ among the other areas. Folders, the lowest-paid mill group studied, earned 95 cents in Charlotte and Statesville-Hickory, 99 cents in Reading, $\$ 1.11$ and $\$ 1.13$, respectively, in Burlington-Greensboro and Philadelphia. As in the case of men's jobs (other than adjusters and fixers), Reading and Philadelphia mills generally had the highest earnings and the StatesvilleHickory area the lowest in nearly all jobs.

## Seamless Hosiery

Women knitters operating automatic machines averaged 83 cents an hour in October 1948 in men's seamless hosiery mills in Reading, Pa., and the Statesville-Hickory area of North Carolina. For other women in this job, averages were 98 cents in men's hosiery mills in Winston-SalemHigh Point, N. C., 86 cents in children's hosiery mills in the same area, and 91 cents in children's hosiery mills in Chattanooga. Transfer knitters' earnings ranged from 72 cents in Statesville-Hickory to 92 cents in Chattanooga. Women loopers (the largest job group in the industry) had average earnings ranging from 85 cents to 97 cents. For menders (the lowest-paid job studied) the range was from 64 to 81 cents an hour.

Men knitting-machine adjusters and fixers
earned $\$ 1.21$ in Chattanooga, $\$ 1.26$ in Reading, and $\$ 1.34$ in Statesville-Hickory; in the Winston-Salem-High Point area, they averaged $\$ 1.40$ in children's hosiery mills and $\$ 1.51$ in the men's hosiery division. Men knitters, automatic machines, averaged from 5 to 9 cents an hour more than did women on similar work in the same area.

Table 2.-Straight-time average hourly earnings, ${ }^{1}$ selected occupations in seamless hosiery industry, by type of hosiery and wage area, October 1948

| Occupation and sex | Men's hosiery |  |  | Children's hosiery |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{aligned} & \text { Read- } \\ & \text { ing, } \\ & \text { Pa. } \end{aligned}$ | $\begin{gathered} \text { States- } \\ \text { ville- } \\ \text { Hickory, } \\ \text { N. C. } \end{gathered}$ | Wins-ton-SalemHigh Point, N. C. | Chat-tanooga, Tenn | Wins-ton-SalemHigh Point, N. C. |
| Plant occupations, men | $\begin{array}{r} \$ 1.26 \\ 1.03 \\ .88 \end{array}$ | $\begin{array}{r} \$ 1.34 \\ .90 \\ .90 \end{array}$ | $\begin{array}{r} \$ 1.51 \\ 1.14 \\ 1.07 \end{array}$ | $\begin{gathered} \$ 1.21 \\ .99 \\ \left({ }^{2}\right) \end{gathered}$ | $\begin{array}{r} \$ 1.40 \\ 1.02 \\ .94 \end{array}$ |
| Adjusters and fixers, knitting machines (4 years' or more experience) |  |  |  |  |  |
| Boarders, hand Knitters, automatic. |  |  |  |  |  |
| Plant occupations, women |  |  |  |  |  |
| Boarders, hand | (2).82.75.83(2).86 | $\begin{array}{r}.77 \\ .74 \\ .69 \\ \text { (2) } \\ \text { (23 } \\ \\ \hline .72\end{array}$ | $\begin{array}{r} .98 \\ .94 \\ .89 \\ .98 \\ 1.00 \\ { }^{(2)} \end{array}$ | . 85.92(2).91.84.92 | $\begin{array}{r}.78 \\ .81 \\ .82 \\ .86 \\ (2) \\ \text { ( } \\ \hline\end{array}$ |
| Folders and boxers |  |  |  |  |  |
| Inspectors, hosiery |  |  |  |  |  |
| Knitters, automati |  |  |  |  |  |
| Knitters, string-.. |  |  |  |  |  |
| Knitters, transfer-1.............-- | $\begin{array}{r} .96 \\ .79 \\ .77 \end{array}$ |  | $\begin{aligned} & .97 \\ & .72 \\ & .90 \end{aligned}$ | .88.81.87 | .95.68.79 |
| rience or more) --..............- |  | $\begin{aligned} & .85 \\ & .64 \\ & .71 \end{aligned}$ |  |  |  |
| Menders, hand... |  |  |  |  |  |
| Pairers-...-.-... |  |  |  |  |  |
| Office occupations, women |  |  |  |  |  |
| Clerks, pay roll | (2)$(2)$$(2)$ | .93.77.90 | $\begin{array}{r} 1.01 \\ .93 \\ .98 \end{array}$ | .91.811.34 | (2)(2)(2) |
| Clerk-typists |  |  |  |  |  |
| Stenographers, general |  |  |  |  |  |

${ }_{1}$ Exclusive of premium pay for overtime and night work.
${ }_{2}$ Insufficient data to justify presentation of an average.
Occupational earnings in production of men's seamless hosiery were highest in the Winston-Salem-High Point area and lowest, except in two men's jobs, in the Statesville-Hickory area. In the children's hosiery division, earnings for nearly all the women's jobs were higher in Chattanooga than in Winston-Salem-High Point, but for men adjusters and fixers and for hand boarders, the reverse was true. Wages in men's hosiery mills exceeded those in the production of children's hosiery in the Winston-Salem-High Point area; in 7 of 10 jobs providing a comparison, the wage advantage in favor of men's hosiery workers amounted to 11 or more cents an hour.

## Wage Chronology No. 4: Bituminous-Coal Mines, 1933-48 ${ }^{1}$

The national wage agreement between the United Mine Workers of America (Ind.) and associations representing the operators in the bituminous-coal industry, expiring on June 30, 1949, is an outgrowth of the Appalachian agreements, the first of which was concluded in 1933. This wage chronology covers the period since 1933 and traces the changes in basic wages, work schedules, and related wage practices affecting the major groups of workers in the Appalachian area, as provided by the master agreements. The data presented do not take account of variations in provisions of agreements negotiated in the various districts.

Since this chronology begins with the 1933 agreement, the provisions reported under that date do not necessarily indicate changes in prior conditions of employment. Changes in wages and related conditions have been the outcome of collective bargaining between the operators and the union, except for the November 1943 and May 1946 agreements. In these two months, prolonged disputes between the union and the operators and resulting work stoppages necessitated seizure and operation of the mines by the United States Government and, consequently, the agreements were made between the Government and the UMW.

During the period under consideration, changes in the number of hours worked per day and the number of days worked per week, and the introduction of portal-to-portal pay, were significant factors affecting miners' income. The formalized schedule of mine operation incorporated in the master agreements permitted the tabulation of these changes in this chronology, and made possible the computation of full-time daily and weekly earnings and straight-time hourly earnings for selected groups of workers paid on a time basis (table 4).

[^19]Table 1.-Changes in basic wages and hours in bituminous-coal mines in the Appalachian area, 1933-48
OUTSIDE DAY WORKERS 1

| Effective date | Normal schedule of work ${ }^{2}$ |  |  |  | Amount of wage change | Application, exceptions, and other related matters |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Days per week | Daily hours paid for- |  |  |  |  |
|  |  | Total | Work | Lunch |  |  |
| Oct. 2, 1933_... <br> Apr. 1, 1934.... | 5 5 | 8 | 8 | $\begin{aligned} & 0 \\ & 0 \end{aligned}$ | 40 cents per 7 -hour day increase. | Previous 8-hour pay plus increase established as new rates for 7-hour day. The increase of 40 cents was applied to all the Appalachian area except northern West Virginia, where an increase of 64 cents a day was provided to eliminate a 24 -cent differential between northern West Virginia and the northern Appalachian area. |
| Oct. 1, 1935.. | 5 | 7 | 7 | 0 | 50 cents per day increase. |  |
| $\begin{aligned} & \text { Apr. 1, } 1937 \\ & \text { Apr. 1, } \end{aligned}$ | 5 5 | 7 7 | $\begin{aligned} & 7 \\ & 7 \end{aligned}$ | $\begin{aligned} & 0 \\ & 0 \end{aligned}$ | \$1 per day increase...-- | This increase applied to all the Appalachian area except the South ${ }^{3}$ and to all occupations except slate pickers. An increase of $\$ 1.40$ a day was provided for the South to eliminate a 40 -cent North-South differential. Rates for slate pickers were increased by 75 cents per day in the North and by $\$ 1.15$ in the South. |
| Jan. 1943.- | 5-6 | 7 | 7 | 0 |  | 6 -day week authorized by supplemental agreement. Weekly earnings were increased by added workday paid for at premium rates (see overtime provisions). |
| Apr. 1, 1943 | 5-6 | 7 | 7 | 0 |  | An increase of 85 cents a day for slate pickers only was ordered by National War Labor Board directive order of June 18, 1943. |
| Nov. 3, 1943 | 5-6 | 81/4 | $81 / 4$ | 0 |  | Daily and weekly earnings were increased by lengthened workday, the added $11 / 4$ hours being paid for at premium rates (see overtime provisions). |
| Apr. 1, 1945.-- | 5-6 | $81 / 4$ | 8 |  | \$1.07 per day increase.- | Flat amount added to previous $81 / 4$-hour pay to adjust differentials between earnings of outside and inside workers. |
| $\begin{aligned} & \text { May 22, } 1946 \ldots \\ & \text { July } 1,1947 \end{aligned}$ | 5-6 | $81 / 4$ $71 / 4$ | 88 | $1 / 4$ | $\$ 1.85$ per day increase $\$ 1.20$ per 71/4-hour day | Flat amount added to previous $81 / 4$-hour pay. <br> Previous $81 / 4$ hour pay plus $\$ 1.20$ established as rates for new $71 / 4$-hour day. |
| July 1, 1948 | 5-6 | 71/4 | 63/4 | $1 / 2$ | \$1 per day increase. | Flat amount added to previous 71/4-hour pay. |

INSIDE DAY WORKERS ${ }^{4}$


[^20][^21]Table 1.-Changes in basic wages and hours in bituminous-coal mines in the Appalachian area, 1933-48-Continued INSIDE TONNAGE AND PIECE-RATE WORKERS ${ }^{5}$

${ }^{5}$ Data pertain only to types of work indicated, and also do not take into account variations provided by district agreements.
Table 2.-Changes in pay provisions for overtime and travel time in bituminous-coal mines, Appalachian area, 1933-48 ${ }^{1}$ OVERTIME PAY?

| Effective date | Outside day workers | Inside day workers | Inside tonnage and piecerate workers |
| :---: | :---: | :---: | :---: |
| Oct. 2, | No provision for overtime premium pay. <br> Time and one-half for hours in excess of 7 per day and 35 per week. <br> No change. $\qquad$ | No provision for overtime premium pay <br> Time and one-half for hours in excess of 7 per day and 35 per week (at the face). <br> No change. | No provision for overtime premium pay. Do. |
| Apr. 1, 1937 |  |  |  |
| Jan. $1943{ }^{3}$ |  |  | Time and one-half for work performed after 3 |
| Nov. 3, 1943Apr. 1, 1945 | Time and one-half for hours in excess of 7 per day and 35 per week at straight time rates. Double time for seventh consecutive day. | Time and one-half for productive time after 40 hours (productive and travel time combined) within first 5 days of workweek and for all productive time on sixth day worked. Time and one-half for travel time after 40 elapsed hours during workweek. Double time for seventh consecutive day. | Time and one-half (applied to average productive earnings and special travel rate, separately) for hours in excess of 40 per week (productive and travel time combined). Double time for seventh consecutive day. |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  | Gross daily earnings increased by one-ninth to compensate for travel time and for overtime after 7 hours. Time and one-half after 35 hours (portal-to-portal) worked at straighttime rates within week. Double time for seventh consecutive day. |
|  |  | Time and one-half for eighth hour of 9-hour day and $\$ 1.50$ to all workers for ninth hour. Time and one-half after 35 hours (portal-to-portal) worked at straight-time rates within week. Double time for seventh consecutive day. |  |
|  |  |  |  |
|  |  |  |  |
| May 22, 194 | Added: time and one-half for work on sixth consecutive day. <br> Time and one-half for hours in excess of $71 / 4$ per day and $361 / 4$ per week and for sixth consecutive day. Double time for seventh consecutive day. | Added: time and one-half for work on sixth consecutive day. | Added: time and one-half for work on sixth consecutive day. |
|  |  |  |  |
| July 1, 1947 |  | Time and one-half for hours in excess of 8 per day and 40 per week (portal-to-portal) and for sixth consecutive day. Double time for seventh consecutive day. | Time and one-half for hours in excess of 8 per day and 40 per week (portal-to-portal) and for sixth consecutive day. Double time for seventh consecutive day. |
|  |  |  |  |
|  |  |  |  |

Oct. 2, 1933
Nov. 3, 1943

Apr. 1, 1945 4--

No travel time.
.- do.-
...do.

0 pr
pay.
of 7 per day and 35 per week.

Time and one-half for hours in excess of 7 per day and 35 per week at straight time rates. Double time for seventh consecutive day.


Added: time and one-half for work on sixth consecutive day.
of $71 / 4$ per day and $361 / 4$ per week and or sixth consecutive day. Double time for seventh consecutive day.

PAY FOR TRAVEL TIME
No provision for overtime premium pay.-.-.-.
Time and one-half for hours in excess of 7 per day and 35 per week (at the face).

Time and one-half for productive time after 40 hours (productive and travel time combined) within first 5 days of workweek and for all productive time on sixth day worked. Time
and one-half for travel time after 40 elapsed hours during workweek. Double time for seventh consecutive day.
Time and one-half for eighth hour of 9-hour day and $\$ 1.50$ to all workers for ninth hour. Time and one-half after 35 hours (portal-to-portal) Double time for seventh consecutive day.

Added: time and one-half for work on sixth consecutive day.
and 40 one-half for hours in excess of 8 per day sixth ponsecutive (portal-to-portal) and

## Travel time not paid for

 thirds of regular rate. Subject to overtime provisions.
Travel time considered as working time and paid for accordingly. Subject to overtime provisions.
${ }^{1}$ A pplies only to workers having standard schedule of hours reported in table 1. ${ }^{2}$ P yramiding of overtime pay not required under the provisions. ${ }^{3}$ Supplemental agreement authorizing 6 -day week was carried over by subsequent agreements. The 6-day week was optional.

[^22]Table 3.-Changes in related wage practices in bituminous-coal mines, in the Appalachian area, 1933-48
SHIFT PREMIUM PAY

| Effective date | Provision | Application, exceptions, and other related matters |
| :---: | :---: | :---: |
| Oct. 2, 1933 <br> Apr. 1, 1945 | No provision for shift premiums. Second shift, 4 cents an hour; third shift, 6 cents an hour | For each hour employed, portal-to-portal. |

## HOLIDAY PAY

| Oct. 2, 1933 | No provisions for work on holidays.. | Holidays to be observed are those recognized in district |
| :---: | :---: | :---: |
| Jan. 1943 | Time and one-half for work on specified holidays. | agreements. Do. |

## PAID VACATIONS

| Oct. 2, 1933 | No provision for paid vacati |  |
| :---: | :---: | :---: |
| Apr. 1, 1941 | Employees with 1 year or more of service-10 consecutive calendar days. Vacation pay, $\$ 20$. | Annual mid-year vacation period, during which coal production ceases. No vacation pay for employees with less than a year's service. (The 1941 vacation period was curtailed to |
| Apr. 1, 1943 | Vacation pay increased to \$50 | 1943 and 1944 vacations suspended, but full vacation paymen |
| Apr. 1, 1945 | Vacation pay increased to \$75 | 1945 vacation suspended, but full vacation payment made. |
| May 1946 | Vacation pay increased to $\$ 100$ | For employees with 1 year's service between specified dates. Those entering or leaving employment during qualifying period paid prorated amounts. |

## REPORTING ALLOWANCE

Oct. 2, 1933
Day workers going into mine in morning receive minimum of 2-
hours' pay. hours' pay.

## WORK TOOLS, EQUIPMENT, AND SUPPLIES

Oct. 2, 1933
Apr. 1, 1943 $\qquad$ Necessary tools, blacksmithing, and safety equipment and devices, including electric cap lamps and carbide lamps, to be furnished by operators, except when operator elects to pay worker 6 cents by operators, except when operator elects to pay work
per day for furnishing own carbide lamp and carbide.

Matters affecting cost of explosives, blacksmithing, and electric cap lamps referred to district conferences.
Provision was contained in directive order of National War
Labor Board dated June 18, 1943, and appeared in Nov. 3, 1943, contract for first time. Matters affecting cost of explosives referred to district conferences.

## HEALTH AND WELFARE BENEFITS

Oct. 2, 1933
June 1, 1946

July 1, 1947 $\qquad$

July 1,1948 $\qquad$

No provision for health and welfare benefits
A welfare and retirement fund was established to provide benefit payments to miners and their dependents or survivors in case of sickness, disability, death, or retirement, and for other related purposes. Financed through contributions by operators of 5 cents for each ton of coal produced for use or sale.
A medical and hospital fund was established to be used for medical, hospital, and related purposes. Financed by wage deductions then being made.
The 2 funds were to be used to complement each other
Operators' contributions to welfare and retirement fund increased to 10 cents per ton of coal produced for use or sale.
Medical and hospital fund was combined with welfare and retirement fund.
Operators' contributions to welfare and retirement fund increased to 20 cents per ton of coal produced for use or sale.

Table 4.-Full-time daily and weekly earnings and straight-time hourly earnings ${ }^{1}$ for selected occupations in bituminouscoal mines, Appalachian area, ${ }^{2}$ 1933-48

${ }^{1}$ Full-time daily and weekly earnings reflect gross pay for normal hours in effect at the time (table 1) including straight-time and premium pay for scheduled overtime hours. Straight-time hourly earnings exclude premium pay for overtime. Shift premium pay is excluded from all figures as well as miners' expenses for tools, explosives, etc. Full-time daily earnings reflect week-day pay (Monday through Friday) except for period between Nov. 3, 1943, and Apr. 1, 1945, when premium rates were paid for part of work on fifth day. Full-time weekly earnings for 6 -day week are shown only for period following formal agreement authorizing 6 -day week (optional). These
pay scales were computed on basis of national agreements and do not take account of district variations.
${ }_{2}$ Regional differentials are not shown for years in effect. West Virginia differential was eliminated by 1934 wage agreement and Southern differential ended with 1941 contract.
${ }^{3}$ Wage increases for mobile loading equipment operators exceeded those for other inside day workers during period Oct. 2, 1933, through Apr. 1, 1941. Thereafter, same changes affected all inside day workers for whom data are


## Footwear Manufacture:

 Earnings in October $1948{ }^{1}$In women's cement-process shoe manufacture, average hourly earnings of men cutters (machine) in New England in October 1948 ranged from $\$ 1.42$ in the Auburn-Lewiston area of Maine to $\$ 1.72$ in Boston. Among six New England areas,

[^23]hourly averages of men in other production jobs, also typically paid on a piece-rate basis, ranged as follows: Side lasters (machine), $\$ 1.63$ in Worcester to $\$ 2.05$ in Haverhill, Mass.; bed-machine operators, $\$ 1.55$ in Auburn-Lewiston to $\$ 1.84$ in Haverhill; and treers, $\$ 1.30$ in Worcester to $\$ 1.66$ in Haverhill. Earnings of fancy stitchers, the major women's job studied, ranged from $\$ 1.06$ in Worcester to $\$ 1.38$ in Boston. Earnings of floor girls, paid hourly rates, ranged from 85 cents in Boston to 94 cents in Lynn and Worcester. The highest job averages in New England were generally found in Boston or Haverhill; Worcester and, to a lesser extent, Auburn-Lewiston had the lowest earnings.

Straight-time average hourly earnings ${ }^{1}$ in selected occupations in footwear establishments, by process and wage area October 1948

| Occupation and sex | Women's cement process shoes |  |  |  |  |  |  |  |  |  | Men's Goodyear welt shoes |  |  | Children's welt shoes <br> Southeastern Penn-sylvania ${ }^{3}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | New England |  |  |  |  |  | New York City ${ }^{2}$ | Missouri, except St. Louis | St. Louis, Mo. | $\begin{gathered} \text { Los } \\ \text { Angeles, } \\ \text { Calif. } \end{gathered}$ |  |  |  |  |
|  | Au -burn-Lewiston, Maine | Boston, Mass. | Haverhill, Mass. | Lynn, Mass. | Southeastern New Hampshire | Worcester, Mass. |  |  |  |  | Brockton, Mass. | Worcester, Mass. | Illinois |  |
| Plant occupations: Men |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Assemblers for pullover, machine-- | $\begin{aligned} & \$ 1.64 \\ & 1.55 \\ & (4) \end{aligned}$ | $\$ 1.89$1.591.78 | $\begin{gathered} \$ 1.83 \\ 1.84 \\ (4) \end{gathered}$ | $\begin{array}{r} \$ 1.80 \\ 1.70 \\ 1.67 \end{array}$ | \$1.541.69(4) | \$1. 411.58(4) | \$2. ${ }^{(4)}$ | \$1.191.351.34 | $\$ 1.56$1.60 | (4)(4) |  |  |  |  |
| Bed-machine operators, |  |  |  |  |  |  |  |  |  |  | $\$ 1.71$ 1.48 | $\$ 1.42$ 1.46 | $\$ 1.60$ 1.69 | $\$ 0.99$1.14.91 |
| Cutters, vamp and whole shoe, hand- Cutters, vamp and whole shoe, ma- |  |  |  |  |  |  | 2. 29 | 1.34 | 1.59 | \$1.75 | 1.48 1.52 | ${ }_{(4)}^{1.46}$ | 1.69 1.85 |  |
| chine | $\begin{aligned} & 1.42 \\ & 1.64 \\ & (4) \end{aligned}$ | $\begin{array}{r} 1.72 \\ 2.00 \\ .78 \end{array}$ | 1.631.95.88 | 1.541.80(4) | 1.501.67.79 | 1.491.55 | 2.092.67 | 1.391.39 | (4)1. 65 | $\begin{aligned} & 1.94 \\ & 1.98 \end{aligned}$ | 1.69 | 1. $57 \quad 1.67$ |  | 1. 12 |
| Fdge trimmers, machin |  |  |  |  |  |  |  |  |  |  | 1.81 | 1. 62 | 1.89 |  |
| Good year stitchers |  |  |  |  |  | . 92 | 1.07 | . 85 | . 86 | $\begin{array}{r} 1.98 \\ .94 \end{array}$ | ${ }^{(4)} 1.61$ | ${ }^{(4)} 5$ | (4) | .711.10 |
| Mechanics, maintenance | 1.68 | (4) 1.99 | 1.60 | 1.63 | 1.50 | 1.54 | 1.60 | 1.24 | 1.31 | -1.87-1 | 1.501.48 | $\begin{aligned} & 1.00 \\ & 1.51 \\ & 1.63 \end{aligned}$ |  |  |
| Side lasters, machine | 1.79 |  | 2.05 | 1.69 | 1.72 | 1.63 | 2. 49 | 1.34 | 1.57 |  |  |  | 1.31 1.61 | 1.031.09.84 |
| Sole attachers, cement |  | 1.55 | $\begin{aligned} & 1.63 \\ & 1.66 \\ & (4) \end{aligned}$ | $\begin{aligned} & 1.76 \\ & 1.57 \\ & 1.69 \\ & (4) \end{aligned}$ | $\begin{aligned} & 1.53 \\ & 1.42 \\ & 1.36 \end{aligned}$ | $\begin{aligned} & 1.46 \\ & 1.30 \\ & \text { (4) } \end{aligned}$ | 2. 271. 962. 042. 61 | $\begin{aligned} & 1.19 \\ & 1.29 \\ & 1.25 \\ & 1.06 \end{aligned}$ | $\begin{aligned} & 1.41 \\ & 1.53 \\ & 1.54 \\ & 1.51 \end{aligned}$ | 1. 73(4)(4)(4) | $\begin{aligned} & 1.43 \\ & \text { (4) } \\ & \text { (4) } \end{aligned}$ | $\begin{aligned} & 1.53 \\ & \text { (4) }^{4} \\ & \text { (4) } \end{aligned}$ | $\begin{aligned} & \text { (4) } \\ & (4) \\ & (4) \end{aligned}$ |  |
| Treers | 1. ${ }^{\text {(4) }} 37$1.411.4 | $\begin{aligned} & 1.50 \\ & 1.64 \\ & 1.66 \\ & \text { (i) } \end{aligned}$ |  |  |  |  |  |  |  |  |  |  |  | $\begin{aligned} & .89 \\ & { }_{(4)}^{.85} \\ & { }^{(4)} \end{aligned}$ |
| Wood-heel-seat fitters, hand- |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Wood-heel-seat fitters, machine.....- |  |  | 1.70 |  | 1.33 | 1. 51 |  |  |  |  |  |  |  |  |
| Plant occupations: Women |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Fancy stitchers | $\begin{aligned} & 1.22 \\ & .88 \\ & 1.30 \\ & \left.{ }^{4}\right) \end{aligned}$ | $\begin{aligned} & 1.38 \\ & .85 \\ & 1.68 \\ & \text { (} \left.^{4}\right) \end{aligned}$ | $\begin{aligned} & 1.25 \\ & .90 \\ & 1.38 \\ & 1.09 \end{aligned}$ | $\begin{aligned} & 1.25 \\ & .94 \\ & 1.24 \\ & (4) \end{aligned}$ | $\begin{array}{r} 1.20 \\ .91 \\ 1.17 \\ .97 \end{array}$ | $\begin{array}{r} 1.06 \\ .94 \\ 1.16 \\ 1.17 \end{array}$ | $\begin{aligned} & (4) \\ & (4) \\ & \left(\begin{array}{l} 4 \\ 2 . \\ 1.76 \end{array}\right. \end{aligned}$ | .89.78.921.21 | $\begin{aligned} & 1.12 \\ & .89 \\ & 1.07 \\ & 1.16 \end{aligned}$ | $\begin{aligned} & 1.74 \\ & 1.01 \\ & 1.64 \\ & 1.74 \end{aligned}$ | $\begin{aligned} & 1.12 \\ & .89 \\ & 1.08 \\ & 1.35 \end{aligned}$ | $\begin{array}{r} 1.11 \\ .86 \\ 1.04 \\ 1.22 \end{array}$ | $\begin{aligned} & 1.23 \\ & .83 \\ & 1.32 \\ & 1.28 \end{aligned}$ | .94.74.96.90 |
| Top stitchers.-- |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Vampers.-..- |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Office occupations: Women |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Clerks, pay-roll | $\begin{aligned} & .70 \\ & \stackrel{4}{4}^{70} \end{aligned}$ | $\begin{array}{r} .84 \\ .74 \\ .89 \end{array}$ | .82.72.83 | .81.77.83 | .80.74.82 | (i).76.85 | $\begin{array}{r} 1.02 \\ .99 \\ 1.18 \end{array}$ | .84.77.86 | .87.82.97 | $\begin{aligned} & 1.16 \\ & .93 \\ & 1.11 \end{aligned}$ | .77.67.85 | $\begin{array}{r} .82 \\ .77 \\ .89 \end{array}$ | .93.881.06 | .90.83.86 |
| Clerk-typists.... |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Stenographers, ge |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

${ }^{1}$ Excludes premium pay for overtime and night work.
${ }^{2}$ Study limited to establishments primarily engaged in producing women's
3 Berks, Dauphin, Lancaster, Lebanon, and Schuylkill Counties.
4 Insufficient data to justify presentation of an average street shoes.

Among other women's shoe centers, St. Louis pay levels fell within the New England range, earnings in Missouri (except St. Louis) were generally below the lowest New England areas averages, and job averages for Los Angeles generally matched earnings for similar shop work in Boston and Haverhill. Earnings in New York City, where the study was limited to women's street shoes, were the highest recorded for any of the production jobs. Men edge trimmers (machine), for example, averaged $\$ 1.39$ in Missouri (except St. Louis), $\$ 1.65$ in St. Louis, $\$ 1.98$ in Los Angeles, and $\$ 2.67$ in New York; area averages in New England ranged from $\$ 1.55$ in Worcester to $\$ 2$ in Boston.

In men's Goodyear welt shoe manufacture, vamp and whole shoe cutters (machine) averaged $\$ 1.57$ in Worcester, $\$ 1.67$ in Illinois, and $\$ 1.69$ in Brockton, Mass.; but men Goodyear stitchers averaged $\$ 1.55$ in Worcester, $\$ 1.61$ in Brockton, and $\$ 1.73$ in Illinois. Among the women's jobs studied, vampers were the highest paid, ranging from $\$ 1.22$ in Worcester to $\$ 1.35$ in Brockton; floor girls had a low average of 83 cents in Illinois
and a high of 89 cents in Brockton. The Worcester area had the lowest earnings in 8 of the 11 plant jobs for which averages could be presented for each of the three centers.

An important segment of the children's welt shoe industry is located in southeastern Pennsylvania. The generally lower pay level in this area is reflected by the hourly averages of 71 cents for floor boys and $\$ 1.12$ for men cutters. Edge trimmers were the highest paid men workers covered, averaging $\$ 1.31$ an hour. In women's jobs, earnings ranged from 74 cents for floor girls to 96 cents for top stitchers. Hourly earnings in this area averaged 20 cents or more below those in women's cement-process shoe plants in Missouri (except St. Louis), the second lowest pay area studied, in a majority of the plant jobs for which comparable figures were available.

Office jobs showed smaller differences in earnings from area to area than did plant jobs. Clerktypists averaged from 67 cents in Brockton to 99 cents in New York, and general stenographers from 80 cents in Auburn-Lewiston to $\$ 1.18$ in New York. In contrast to the earnings relation-
ship reported for plant jobs, office pay levels in southeastern Pennsylvania were above those in New England.

## Related Wage Practices

A 40 -hour workweek was scheduled by 180 of the 183 establishments studied in the 13 areas.

Paid holidays were granted to plant workers by 129 of the 139 establishments producing women's cement-process shoes, by 13 of 33 men's Goodyear welt shoe plants, and by only 1 of the 11 children's welt shoe plants surveyed. The most common practice in New York and among the New England shoe centers provided 6 paid holidays; 8 of 10 plants in Los Angeles and half of those in St. Louis paid for 3 holidays. Nearly all establishments granted paid holidays to office employees and the number of paid holidays received by this group generally exceeded the number granted to plant workers in the same establishments.

Vacations with pay were granted to plant workers with a year of service by nearly all establishments. With few exceptions, eligible shop workers received 1 week of paid vacation leave. All or a majority of the women's shoe plants in New York, Missouri (except St. Louis), St. Louis, Los Angeles, and of the men's shoe plants in Brockton and Illinois, provided a 2 -week paid vacation to plant workers with 5 years of service. Office workers with a year of service received 1 week with pay in two-thirds of the establishments and 2 weeks in the remainder. Of 181 establishments employing office workers, 108 provided 2 weeks with pay after 5 years of service.

## Local City Truck Driving: Union Scales, July 1, $1948{ }^{1}$

Organized motortruck drivers and their helpers received an average increase of 9 percent in basic hourly rates between July 1, 1947, and July 1, 1948, according to the Bureau of Labor Statistics

[^24]annual survey. ${ }^{2}$ The over-all increase represented an 11-cent-an-hour gain for both drivers and helpers studied, bringing the respective levels of minimum hourly pay to $\$ 1.43$ and $\$ 1.18$. $^{3}$ The July 1, 1948, index of hourly rates stood at 175.1 of the base-year (June 1, 1939) average. ${ }^{4}$
Although union wage scales advanced 75 percent between June 1, 1939, and July 1, 1948, two-thirds of the increase occurred since VJ-day. In June 1939, agreements providing minimum scales of $\$ 1$ or more an hour applied to only 14 percent of the drivers, whereas in 1945 such rates were received by about half of these workers. By July 1, 1948, two-thirds of the drivers were covered by contracts specifying minimum hourly scales of at least $\$ 1.35$.

Table 1.-Indexes of basic hourly wage rates and maximum straight-time workweeks for union motortruck drivers and helpers, 1936-48
[June 1, 1939=100]

| Year | Drivers and helpers |  | Drivers |  | Helpers |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Wage rates | Hours | Wage rates | Hours | Wage rates | Hours |
| 1936: May 15 | 88.5 | 101.8 | (1) | (1) | (1) | (1) |
| 1937: May 15 | 94.4 | 100.9 | 94.5 | 100.8 | 94.2 | 101.2 |
| 1938: June 1 | 97.8 | 100.9 | 97.9 | 100.8 | 97.5 | 101.2 |
| 1939: June I | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| 1940: June 1 | 102.0 | 99.1 | 102.1 | 99.2 | 102.0 | 98.7 |
| 1941: June 1 | 106. 1 | 98.5 | 105.9 | 98.5 | 107.0 | 98.1 |
| 1942: July 1. | 113.6 | 98.8 | 113.1 | 98.6 | 116.4 | 100.0 |
| 1943: July 1 | 119.8 | 98.6 | 119.2 | 98.4 | 123.0 | 99.8 |
| 1944: July 1 | 122. 6 | 98.5 | 121.9 | 98.3 | 126.8 | 99.8 |
| 1945: July 1 | 125. 2 | 98.3 | 124.5 | 98.1 | 129.8 | 99.7 |
| 1946: July 1 | 139.3 | 96.3 | 138.4 | 96.1 | 145.5 | 97.5 |
| 1947: July 1 | 160.8 | 94.0 | 159.9 | 93.6 | 166.8 | 95.8 |
| 1948: July 1 | 175.1 | 93.2 | 173.9 | 92.9 | 184.3 | 94.5 |

${ }^{1}$ Information not computed separately in 1936.
In 1939, minimum hourly rates for three-fourths of the helpers varied from 50 to 80 cents; in 1945, however, two-thirds of the helpers received basic

[^25]rates of 70 to 95 cents. On July 1, 1948, the majority of helpers had scales ranging from $\$ 1.15$ to $\$ 1.35$; and about 12 percent were employed at rates under 95 cents an hour.

Straight-time weekly hours for union motortruck drivers and helpers dropped approximately 1 percent, between July 1, 1947, and July 1, 1948, as shown by the index. The tendency toward a shorter workweek has been fairly constant since 1937-the first year for which comparable data are available. On July 1, 1948, over two-thirds of the union drivers and helpers studied were covered by agreements stipulating a 40 -hour straight-time workweek. Relatively few contracts (affecting less than 5 percent of the total membership) specified work schedules in excess of 48 hours at straight-time pay. In contrast, workweeks of 48 hours or more before premium rates became effective applied to over half the drivers and helpers in July 1945, and to two-thirds in June 1940.

## Hourly Wage Rates and Weekly Hours: Motortruck Drivers and Helpers



## Wage-Rate Changes, 1947-1948

During the year July 1, 1947, to July 1, 1948 more than three-fourths of the drivers received wage advances resulting from contract negotiations. Basic wage rates of well over half of the drivers ( 56 percent) included in the study were increased from 5 to 15 percent. Agreements covering over 50 percent of the drivers specified minimum scales of at least $\$ 1.45$ an hour on July 1, 1948, whereas on July 1, 1947, only 3 out of 10 drivers had such scales.

Table 2.-Wage-rate changes in union scales for local city trucking, July 1, 1947, to July 1, 1948

| Change in hourly rates | Percent of- |  |  |
| :---: | :---: | :---: | :---: |
|  | Drivers and helpers | Drivers | Helpers |
| No change | 23.0 | 24.0 | 15.6 |
| Increases: Total | 77.0 | 76.0 | 84.4 |
| Less than 5 percent. | 3.4 | 3.3 | 3.9 |
| 5 and under 10 percent. | 26.5 | 25.9 | 31.3 |
| 10 and under 15 percent | 28.9 | 29.8 | 23.6 |
| 15 and under 20 percent- | 10.7 | 10.0 | 15.3 |
| 20 and under 25 percent- | 4.8 | 4.6 | 5.9 |
| 25 and under 30 percent. | 1.9 | 1.9 | 2.0 |
| 30 and under 35 percent | . 6 | . 4 | 2.0 |
| 35 and under 40 percent. |  |  | . 2 |
| 40 and under 45 percent. |  | (1) |  |
| 50 percent and over.-.-- | . 1 | (1) | (1) . 2 |

${ }^{1}$ Less than 0.05 of 1 percent.
Approximately 85 percent of the truck drivers' helpers received wage increases during the 1-year period: for well over half of these helpers the increases varied from 5 to 15 percent, and for more than a fifth, from 15 to 25 percent. On July 1, 1948, the majority of the helpers were working under agreements providing minimum hourly scales of $\$ 1.25$ or more. In the preceding year, such rates applied to only one-fifth of these workers.

Because of variations in size and type of trucks and commodities handled, there is a wide range of rates within a city; classifications of drivers and drivers' helpers also differ considerably from one city to another. These factors account partly for the relative wage-level position of a particular city; other factors are city size and geographical location.

On July 1, 1948, average hourly rates for drivers ranged from 95 cents in New Orleans to $\$ 1.74$ in Oakland (Calif.). The next three top ranking
cities were also located on ${ }^{\text {" }}$ the West Coast-San Francisco (\$1.72), Seattle (\$1.67), and Los Angeles (\$1.60). In nine other cities, the wage levels also exceeded the general national average (\$1.43). Only seven cities-six in the South and one in New England-had average hourly scales of less than $\$ 1$.

Increases in wage levels for drivers between July 1, 1947, and July 1, 1948, ranged from 3 cents in Syracuse (N. Y.) and New Orleans to 24 cents in Phoenix. Cincinnati was the only other city which showed a gain of more than 20 cents. Wage advances of 10 cents or more an hour were
negotiated during the year in 54 of the 77 cities included in the study.

Average hourly rates for helpers on July 1, 1948, varied from 63 cents in Charleston (S. C.) to $\$ 1.64$ in Oakland. Spokane, San Francisco, and Seattle were the only other cities in which average rates exceeded $\$ 1.50$ an hour. In 26 cities, wage levels were higher than the general average of $\$ 1.18$ for all cities.

Between July 1, 1947, and July 1, 1948, average rates for helpers advanced from 1 cent in Syracuse to 22 cents in Spokane; in 49 cities, wage scales increased at least 10 cents an hour.

Table 3.-Average hourly wage rates of union motortruck drivers, ${ }^{1}$ by city, July 1, 1948, and increases over previous year

| City | Average hourly rate, July 1, $1948^{2}$ | Increase from <br> July 1, $1947^{3}$ |  | City | A verage hourly rate, July 1, 1948 ${ }^{2}$ | Increase from July 1, $1947{ }^{3}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Percent | Cents per hour |  |  | Percent | Cents per hour |
| Oakland, Calif | \$1.739 | 8.4 | 13 | Erie, Pa | \$1.258 |  |  |
| San Francisco, Calif | 1.719 | 9.7 | 15 | St. Paul, Minn | \$1.258 | 12.2 4.9 |  |
| Seattle, Wash | 1. 668 | 10.1 | 15 | Manchester, N. H | 1.251 | 4.9 14.1 | 15 |
| Los Angeles, Calif New York, N. Y | 1. 600 | 8.3 | 12 | Louisville, Ky--- | 1. 239 | 13.2 | 14 |
| New York, N. Y | 1. 571 | 7.8 8.5 | 11 | Providence, R. I- | 1. 239 | 7.1 | 8 |
| Spokane, Wash | 1. 526 | 6.5 | 12 9 | Omaha, Nebr | 1. 231 | 10.8 | 12 |
| Phoenix, Ariz | 1. 512 | 19.2 | 24 | Syracuse, N. Y | 1. 219 | 11.0 | 12 |
| Chicago, Ill | 1. 490 | 4.8 | 7 | Des Moines, Iowa | 1. 21219 | 2.8 12.5 | 14 |
| Detroit, Mich | 1. 478 | 8.8 | 12 | Rock Island (III.) district 4 | 1. 208 | 12.5 9.5 | 14 |
| Portland, Oreg | 1. 463 | 10.0 | 13 | Springfield, Mass .......... | 1. 205 | 5.3 | 10 6 |
| Butte, Mont | 1. 462 | 7.8 | 11 | Salt Lake City, Utah | 1. 204 | r. 10.0 | 11 |
| Cleveland, Ohio | 1. 461 | 10. ${ }_{8}$ | 14 | Denver, Colo - .-...- | 1. 195 | 8.4 | 11 9 |
| South Bend, Ind | 1. 1.411 | 8.7 14.0 | 11 | Baltimore, Md.. | 1. 192 | 7.1 | 8 |
| Toledo, Ohio. | 1. 408 | 14.2 | 15 | Korcester, Mass | 1. 184 | 6.3 | 7 |
| Pittsburgh, Pa | 1. 388 | 6.7 | 9 | Kouston, Tex.-- | 1.169 | 6.7 | 7 |
| St. Louis, Mo- | 1. 385 | 10.7 | 13 | Miami, Fla | 1.135 | 12.3 8.5 | 13 |
| Charleston, W. Va | 1. 372 | 11.8 | 14 | Dallas, Tex | 1. 131 | 13.0 | 9 13 |
| Boston, Mass | 1.370 | 15.3 | 18 | El Paso, Tex. | 1.128 | 13.6 7.6 | 13 8 |
| Duluth, M | 1. 365 | 10.4 | 13 | Reading, Pa | 1.128 | 8.6 | 9 |
| Peoria, Ill | 1. 353 | 6. 6 | 8 | Birmingham, Ala | 1.110 | 8. 9 | 10 |
| Milwaukee, W is | 1. 352 | 12.2 | 15 | San Antonio, Tex | 1. 109 | 12.9 | 13 |
| Buffalo, N. Y | 1. 347 | 8. 5 | 11 | Oklahoma City, Okla | 1. 092 | 14.5 | 14 |
| Scranton, Pa Philadelphia, Pa | 1. 347 | 5. 9 | 7 | Atlanta, Ga_.... | 1. 077 | 17.5 | 16 |
| Dayton, Ohio | 1.313 1.310 | 4.8 14.4 | 17 | Norfolk, Va-... | 1. 056 | 7. 6 | 7 |
| Minneapolis, Minn | 1.305 | 14.4 9.6 | 11 | York, Pa | 1. 055 | 8.7 2 | 8 |
| Rochester, N. Y | 1.303 | 11.3 | 13 | Memphis, Tenn | 1. 047 | 11.3 | 11 |
| Cincinnati, Ohio | 1.295 | 22.0 | 23 | Jackson, Miss | 1. 024 | 16.1 | 14 |
| Youngstown, Ohio | 1. 292 | 13.5 | 15 | Jacksonville, Fla | 1. 012 | 11.0 | 10 |
| Wichita, Kans.- | 1. 291 | 14.3 | 16 | Portland, Maine. | . 994 | 12.2 | 11 |
| Columbus, Ohio | 1. 271 | 13.6 | 15 | Savannah, Ga... | . 993 | 10.5 | 9 |
| Indianapolis, Ind.- | 1. 269 | 9.9 | 11 | Chattanooga, Tenn | . 988 | 12.7 | 11 |
| New Haven, Conn | 1. 267 | 4.5 | 5 | Charleston, S. C_ | . 979 | 13.8 | 12 |
| Kansas City, Mo | 1. 266 | 13.6 | 15 | Richmond, Va | . 978 | 6.8 | 6 |
| Mobile, Ala | 1. 261 | 11.7 | 13 | Charlotte, N. C | . 974 | 16.0 | 14 |
| Grand Rapids, Mich_ | 1. 259 | 12.5 | 14 | New Orleans, La | . 952 | 3.6 | 3 |

${ }^{1}$ Does not include drivers paid on a commission or mileage basis.
${ }^{2}$ Based on all rates reported for July 1, 1948; individual rates weighted by number of union members working at each rate.

## Wage-Rate Increases after July 1, $1948{ }^{5}$

Available information, though limited, indicates that numerous increases have become effective since July 1, 1948. For example, between this date and December 31, 1948, wage increases

[^26]${ }^{3}$ Based on comparable rates reported for July 1, 1947, and July 1, 1948 1948 membership used as the weighting factor for both years. ${ }^{1}$ Includes Rock Island and Moline, IIl., and Davenport, Iowa.
ranging from 10 to $22 \frac{1}{2}$ cents an hour were negotiated for approximately 18,000 truck drivers and helpers in New York City. Contract renewals in Newark and Milwaukee advanced the basic hourly rates of 4,500 motortruck workers by 15 cents. Wage scales of 3,000 drivers and helpers employed by Baltimore trucking companies were raised 14 cents an hour. Increases
of 13 cents became effective since July 1, 1948, for members of some local unions in Buffalo, Philadelphia, and Washington, D. C. Wage increases from 7 to $22 \frac{1}{2}$ cents were reported for several other cities.

## First Federal Mediation and Conciliation Service Report ${ }^{~}$

In august 1947, the Federal Mediation and Conciliation Service superseded the former Conciliation Service of the United States Department of Labor. As explained in its first annual report, the purpose for which the assistance of this agency is to be employed, under the Labor Management Relations Act of 1947, is "to prevent or minimize interruption of the free flow of [interstate] commerce growing out of labor disputes." Most of the effort of the Service is expended in mediation of disputes which do not develop into strikes or lock-outs and in improving the relationships of those who represent labor and management.

Although the provisions of the LMRA concerning national emergencies impose no special statutory duties upon the Service, it renders assistance in such situations by furnishing information when called upon. Such assistance has been provided to the President, to boards of inquiry, and to the Attorney General. ${ }^{2}$

In connection with assistance in national emergencies, the Service made some observations concerning use of injunctive orders. Experience during the year indicated that in some instances the order did much toward achievement of a peaceful settlement; in others, a similar statement could not be made. The final report of the board of inquiry in the maritime dispute involving the Pacific Coast longshoremen's union asserted that employers and unions regarded the injunction period as a "warming up" rather than a "cooling

[^27]off" period. The Service concluded from the year's experience that provision for an 80-day period of continued operations under injunctive order of a court tends to delay rather than facilitate settlement of a dispute, since the parties are likely to relax their efforts to reach a settlement and to "wait for the next deadline date * * * to spur them to renewed efforts." The public also, during the period, "appears to be lulled into a sense of false security." Such a condition prevents the awareness of a threat to the common welfare which "would produce a climate of public opinion favorable to settlement." Judgment was reserved as to the desirability of a shorter injunctive period or one of indefinite duration.

## Operations of the Service

In the fiscal year ended June 30, 1948, the Service received 17,401 dispute notices, involving 53,385 establishments, and made 71 percent of its assignments on the basis of these notices. "This procedure," the report states, "provides a method, without the Service having to rely upon an invitation of one or both parties to the dispute or casual newspaper accounts, for bringing to the attention of the Service labor disputes which it might bear a responsibility to mediate." It also provides "knowledge of a disagreement sufficiently in advance of the expiration of the contract to permit the Service to carry on its mediation and conciliation functions most effectively. * * * the notice provisions have permitted the Service to assume its proper obligations in an orderly fashion."

Of 12,208 cases closed by the Service from September 1947 to June 1948, it declined to take jurisdiction in 2,904 . In 63 percent of the latter, either interstate commerce was not affected or the degree to which it was affected was not substantial; in 20 percent, the degree was minor and a State or other mediation agency was available in the region. Other instances in which jurisdiction was not assumed included situations in which grievances were involved that should be settled by means provided in the contract, and cases in

[^28]which a union was not recognized as the bargaining agent.

The part which a commissioner of the Service takes in settlement of a dispute may be active; it may consist only of consultation; or it may be merely of a stand-by nature. Dispute cases that were closed during the period from September 1947 through June 1948, in which the Service had assumed jurisdiction, are classified below according to degree of participation by that agency in settlement.

| Total | Number of cases closed 8, 173 | $\begin{aligned} & \text { Percent } \\ & 100.0 \end{aligned}$ |
| :---: | :---: | :---: |
| Active part taken. | 4, 879 | 59.7 |
| Consultation only | 673 | 8. 2 |
| Stand-by | 2, 621 | 32. 1 |

Wage-issue cases, which made up almost 85 percent of all disputes handled by the Federal Mediation and Conciliation Service in the year reviewed, concerned 87 percent of the workers involved in all cases handled. The union-security issue appeared in only 19 percent. The recognition, grievance, and jurisdiction category had 10 percent of all cases handled, but nearly threefourths of these were dealt with during the first part of the fiscal year; after Service policy on these matters was announced, only a third as many of these cases were taken up.

Work stoppages were involved in only 18 percent of the active cases closed by the Service in the fiscal year 1948. It was stated that of all the threatened work-stoppage situations in which the Service interceded, only 29.8 percent developed into actual work stoppages.

Last Offer Ballots. The Service, under section 203 (c) of the LMRA, "shall seek to induce the parties," before they resort to coercion, to seek other means of settlement "including submission to the employees in the bargaining unit of the employer's last offer of settlement for approval or rejection in a secret ballot."

The report states that "perhaps no provision of the law has been more misunderstood by both unions and employers, and, in the early days of administration of the act, even by commissioners of the Service." As a result, "bona fide ballots on the employer's last offer" were in many instances reported when the ballots actually were taken on ratifications of agreements reached by
unions and employers. Regulations and procedures were issued during the year, which it was hoped would provide accurate statistics as to actual operation of this section of the law. Reasons are set forth, however, to indicate that "indiscriminately proposing a secret ballot in every dispute situation serves no useful purpose, but may on the contrary destroy the usefulness of the secret ballot in those few situations in which it may be successfully utilized to avert a work stoppage."

## Federal-State Cooperation

Progress was made in bringing about better relations between Federal and State mediation and conciliation agencies, despite many problems involved. A detailed written agreement was reached with the State of New York, and either written or oral agreements with other States were consummated. The success of such an agreement for cooperation "depends largely on mutual confidence and the real desire to make it work."

## Labor-Management Disputes in February 1949

Except for the transportation tie-up in Philadelphia, no work stoppage involving as many as 10,000 workers occurred in February 1949. A moderate number of smaller disputes developed, but in the aggregate work stoppages continued at a rather low level for the country as a whole. The transit strike of 11,000 workers in Philadelphia was further complicated by a strike of about 3,800 taxicab drivers during part of the same period. San Francisco also had a taxi strike which continued throughout the month.

A threatened strike of Hudson \& Manhattan Railroad employees-power plant workers, guards, and clerks, members of Utility Workers' Union (CIO) - was averted on February 3, only to be followed a week later by a 4-day strike of station agents and maintenance men, members of the Transport Workers Union (CIO). Early in February representatives of the Nation's railroads and negotiators for the 16 nonoperating railroad unions requested the further services of the 3-man

Presidential Emergency Board to mediate their wage increase and 40 -hour week case. No settlement had been reached, however, by the month's end.

At the U. S. Rubber Co. plant in Detroit a strike of several hundred United Rubber, Cork, Linoleum and Plastic Workers of America (CIO) reportedly kept about 6,000 other employees idle for 2 or 3 days in a dispute over distribution of work hours each week. Nearly 2,000 newspaper employees in Portland, Oreg., were idle for about 3 weeks in February and early March in a dispute over new contract terms for members of the Printing Pressmen and Assistants' Union (AFL).

Part of the prolonged strike of Midwest typographical workers came to an end January 30, when a settlement was effected with the Hammond, Indiana, Times. The new agreement provided for a wage increase of $\$ 12.50$ per week. The strike which has been in effect since November 1947 continued against Chicago newspapers.

Employees of the American Woolen Co., with mills in New England, New York, and Kentucky, and cotton textile workers in Fall River and New Bedford, Mass., were denied wage increases by arbitration awards early in February. In each case the Textile Workers Union (CIO) had demanded an increase of 10 cents an hour.

## Philadelphia Transportation Stoppages

Public transportation in the city of Philadelphia was practically at a standstill during stoppages of transit company employees and taxicab drivers in mid-February. About 11,000 operating and maintenance employees of the Philadelphia Transportation Co. were idle February 11 to 19, primarily in a dispute over wages. The taxicab strike lasted from February 15 to 17 and affected approximately 3,800 workers.

In the transit dispute union negotiators, headed by Michael J. Quill, international president of the Transport Workers' Union (CIO) demanded an increase of 20 cents an hour while the company
countered with an offer of 3 cents just before the strike. Other union demands included "swing pay," sick leave, and improvements in working conditions.

Negotiations for a new contract had been carried on since early in January with the aid of the State Mediation Service. The Federal Mediation and Conciliation Service intervened on the first day of the walk-out. A week before the expiration of the old contract, union members approved a "no contract, no work" resolution which gave the local union authority to call a strike effective at 12:01 a. m., February 11.

Railroads serving suburban areas arranged emergency schedules while many offices and industrial plants organized fleets of trucks, buses, and private cars to transport their employees. Taxicabs were available as usual the first few days of the strike until the unauthorized walk-out of cab drivers occurred on February 15. The drivers and mechanics of the Yellow Cab Co., members of the AFL Taxicab Drivers' Union affiliated with the International Brotherhood of Teamsters, were idle until February 18. They returned to work that day, upon orders of their union president, pending further negotiations with the company on the disputed wage issues.

On the night of February 19, the transport union and company officials agreed on a 1-year contract providing for a wage increase of 8 cents an hour. In addition, the contract provided for fringe benefits which included a sick-leave plan, an allowance for uniforms, and establishment of a guaranteed workweek with no lay-offs. Most rank-and-file members of the union accepted the settlement terms the next day at the second of two mass meetings. A group of union members, however, opposed the settlement and adopted a resolution denouncing the leadership because of the union negotiators' failure to eliminate the "split shift."

Operations of the transit system were resumed late on February 20 and by the next day normal service was being provided.

## Technical Note

## Measuring Intercity Differences in Living Costs ${ }^{1}$

The need for providing an adequate tool for measuring, on a continuing basis, place-to-place variations in living costs of moderate-income families was brought out sharply when the Bureau of Labor Statistics developed the City Worker's Family Budget. ${ }^{2}$ With the extensive wartime shifting of workers to centers of war production, the importance of the problem, particularly for purposes of wage determination, resulted in the Congressional directive to the Bureau to determine the relative differences in living costs among cities and the amount of money needed by the average worker in overalls to live in these cities.

The City Worker's Family Budget consists of a comprehensive list of items in specified quantities ${ }^{3}$ which describes a "modest but adequate" level of living for a family of four persons. In the calculation of the budget costs, quantity weights were varied from city to city only with respect to differences in the climatic requirements for clothing and housing. A comparison of the budget costs for individual cities, therefore, gives a satisfactory measure of intercity differences in the cost of equivalent goods, rents, and services.

Repricing and recalculating the budget in detail at regular intervals is prohibitively costly and the detailed recomputation is too time consuming for practical purposes.

To meet these twin problems of cost and time, the intercity index formula described in this article has been developed. ${ }^{4}$

[^29]
## Development of Intercity Index Formula

Prior to the publication of the City Worker's Family Budget, the Bureau calculated and published an intercity index of differences in the cost of equivalent goods, rents, and services in 33 large cities, based on March 1945 prices of 180 goods and services. ${ }^{5}$ The items and quantity weights used in this index were based on family expenditures in 1941 obtained by the Bureau in its survey of Family Spending and Saving in Wartime.

The development of a shorter list of items and appropriate weights on which reliable intercity indexes could be based went forward concurrently with the development of the City Worker's Family Budget. This work resulted in the selection of the list of goods and services included in the intercity index formula.

Selection of Items. In selecting items for the short list, price relationships among the large cities were analyzed to determine the price of what single item or few items in a category would best reflect the difference in the level of prices for this category as between two cities. Further, the analysis endeavored to show whether the relative difference in the price of the item selected would approximate the relative difference in the average price for the total group.

The most direct approach to a solution of this problem seemed to be offered through correlation analysis of prices among the cities. The use of this procedure rests on the assumption that, among categories of commodities which are homogeneous with respect to use and physical characteristics, the same price-determining factors are in

[^30]operation. Thus, the economic forces which tend to cause the price of milk to be higher in City A than in City B may be expected to operate in a like manner to establish prices for all dairy products at a higher level in City A. Hence, the first step taken in the selection of items for the formula was to ascertain the degree of association in city prices of pairs of items within a category (e. g., price of white bread with price of wheat cereal, pork chops with sliced bacon, inexpensive men's overalls with men's workshirts, etc.); this procedure used price data from 10 to 34 cities and was repeated, using prices for varying dates, in order to determine whether there was stability in the price relationships over time. In order to decrease the volume of clerical work involved, scatter diagrams instead of correlation coefficients were used for most of the groups to determine the degree of association between items. The items within groups were then classified in accordance with the degree of correlation in their prices. From among those items which correlated at least to a fair degree with each other, that item was selected which was most important in terms of total expenditure for the group. Other items were selected if they were important in the total expenditure for the group or if the variance in their prices between cities was significant.

The relatively simple case offered by the correlation analysis of items entering into the cost of transportation for automobile owners will illustrate this procedure. Prices of gasoline and motor oil were found to be fairly well correlated with each other but not with other items in the group; all automobile repair items correlated fairly well with each other but not with gasoline, motor oil, etc. Gasoline and brake relining were therefore two items selected for the transportation group since, among the items with which they showed fair correlation, they were most important in terms of expenditures. Very little correlation was found between insurance fees, automobile registration fees, and operator's permit renewal fees, but each of these items either represents an important part of transportation expenditure or reflects significant intercity price differences; each of these items was therefore included in the index.

To test the selection of items for each category, prices of the selected items for each city were weighted by fixed quantities derived from the expenditure studies, and, for the same cities, the
sums of these weighted prices were correlated with the sums of weighted prices for the full list of items in the group. If a high degree of correlation between these sums was not apparent, the price correlations were reexamined and other combinations of items were tried. This procedure resulted in the selection of 57 representative items; the prices of these items, when properly weighted together, would satisfactorily measure the differences in average price level between cities.

Relationship between Budget and Formula. The next step was to obtain quantity weights with which to combine price relatives of the selected items. For this purpose, the budget quantities of the City Worker's Family Budget were adopted. These quantities describe a defined level of living for city workers' families and were the basis for the Bureau's most recent comparison of intercity differences in price levels.

In relating the formula weights to the City Worker's Family Budget quantities, a pattern of imputation was followed which allocated the budget cost of all the budget items in a group to those few items within the group selected for the formula. It was found that the relationship between the budget cost for the short list of selected items within a group of goods and services and the budget cost for the full list of budget items in the same category could be expressed as a simple linear function of the form $Y=a+b X$, in which $Y$ represents the budget cost of the full list of items, $X$ the budget cost of the selected items, and the constants $a$ and $b$ are the regression coefficients determined by the linear relationship. These constants were computed on the basis of the variations in the two sets of costs at March 1946 prices in the 34 cities for which the budget was calculated.

While stress must be laid on the fact that the present formula does not furnish dollar estimates of the City Worker's Family Budget costs, the relationship between the budget cost aggregates as estimated by the formula and the actual budget cost aggregates can be used as a measure of the reliability of the formula procedure for estimating intercity differences. The variations, or scatters, of actual March 1946 costs for 34 individual cities around these straight lines of average relationships, as measured by standard errors of estimate and the coefficients of correlation between the actual and estimated budget aggregates, are listed in table 1
for groups of items for which regression equations were calculated. No regression equation was computed for the group comprising rent, heating fuels, utilities, and refrigeration, since the full budget quantities are used in the formula for these items.

Table 1. Relationship between estimated and actual budget aggregates for 34 cities


In general, the range of error is small; for the most important components, the standard error of estimate is 1 to 3 percent. However, these errors of estimate point up limitations of the formula in its present development which preclude its use as a reliable measure of intercity price differences for the individual groups. In the formula procedure for estimating relative intercity price differences in the over-all cost of equivalent goods and services, these errors of estimate tend to balance out in the summations.

As a summary measure, the simple coefficients of correlation show a good degree of association (an "r" of from 0.62 to 1.00 ) between the budget aggregate estimated by the formula and the actual budget aggregate. But it must be noted that these summary measures cover a range of association between the two aggregates: for one city the formula estimate for a particular classification is as much as 18 percent below the actual budget aggregate, and for another city and another classification as much as 10 percent above. In general, however, these "r's" describe the relatively good association of the aggregates in terms of March 1946 prices.

Formula Weights. The average straight-line relationship between the budget cost of items selected for the formula in a particular category of goods and services and the budget aggregate cost of all items in the same category resulted in the regression coefficients shown in table 2. This relationship, as has been indicated before, is of the form $Y=a+b X$, in which $X$ is the cost of the selected items and $Y$ is the cost of the full list of items. The coefficient $a$ is the $Y$-intercept and depends on the magnitude of the cost aggregates; the coefficient $b$ is the slope of the regression line. Aggregates are in cents per week for the food subgroups and in dollars per year for all other components.

Table 2.-Regression coefficients, intercity index formula

| Item | Regression coefficients |  |
| :---: | :---: | :---: |
|  | $a$ | $b$ |
| Food: |  |  |
| Cereals and bakery products | 30.987 | 1.448 |
| Meats, fats, and oils | 23.625 | 1. 234 |
| Dairy products, eggs, and oleomargarine | 34.861 | 1. 069 |
| Fresh fruits and vegetables-...-.- | 49.858 | 1. 135 |
| Beverages, sugar, sweets, miscellaneous | 75. 225 | 3. 182 |
| Clothing: ${ }^{\text {a }}$ | 77.969 | 1.270 |
| Heavy | 45.491 | 1.345 |
| Light. | 48.973 | 1. 184 |
| Transportation: | 71.250 | 4.077 |
| Cities of population between 50,000 and under 1,900,000: |  |  |
| Automobile owners | 41.909 | 1.001 |
| Nonautomobile owners | 11.016 | . 986 |
| Cities of population of $1,900,000$ or more: |  |  |
| Automobile owners..........- | 58.437 | . 895 |
| Nonautomobile owners | -5. 681 | 1. 294 |
| Medical care and personal care commodities. | 55.196 | 2. 214 |
| Household operation and personal services. | 26. 081 | 2. 384 |
| Recreation, reading, and tobacco | 1.364 | 1.397 |
| Housefurnishings.. | 50.831 | 2.050 |

In effect, each regression equation combines the quantity weights for a category of goods and services in the City Worker's Family Budget which are allocated to the item selected for the formula to represent that category. In order to reduce the number of operations required for calculating the intercity index by formula to a point where prices can be applied to a single weight factor, it was necessary to examine in detail the equation $Y=a+b X$.

This equation can be written in the form $Y=a+b q p$ in which $q$ is the budget quantity and $p$ the price of the selected item. Combining the factors of the term bqp to isolate the price factor results in the equation $Y=a+(b q) p$ in which ( $b q$ ), the product of the budget quantity and the slope coefficient of the regression equation, is the formula
weight factor for the selected item, and $a$ is an adjusting constant to be added to the aggregate of the weighted prices.

For some classifications of foods (e. g., low-cost meats, medium-cost meats, and high-cost meats) the price to be used in the formula is an estimated average price for the classification, obtained from a regression equation expressing the relationship between the price of the item selected to represent the classification (e. g., beef liver) and the average price of all items in the classification (e. g., lowcost meats).

This relationship can be expressed in the form $p^{\prime}=c+k p$ in which $p^{\prime}$ is the estimated average price for the classification and $p$ the price of the item selected for the formula. The constants $c$ and $k$ are the usual regression coefficients obtained by simple linear correlation. ${ }^{6}$

Thus, for foods, substituting the expression for the estimated price $p^{\prime}$ in the basic regression equation, $Y=a+(b q) p$, results in $Y=a+b q p^{\prime}=a+b q(c+k p)$. Combining the factors of the term $b q(c+k p)$ to isolate the price factor results in the equation $Y=a+b q c+(b q k) p$ in which $(b q k)$, the product of the budget quantity and the slope coefficients of the regression equations, is the formula weight factor of the selected food items, and $a+b q c$ is a

Table 3.-Regression equation constants, food classifications

| Composite classification | Selected item | Regression equation constants |  |
| :---: | :---: | :---: | :---: |
|  |  | $c$ | $k$ |
| All other bakery products | Soda crackers | 6. 94 | 0.69 |
| Low-cost meats.-..- | Beef liver- | 7.75 | . 50 |
| Medium-cost meats | Beef steak, top round. | 7. 73 | . 61 |
| High-cost meats... | Lamb chops---------- | 3. 38 | . 86 |
| Fluid milk products | Fresh milk Oranges. | -. 2.08 | . 16 |
| Green vegetables, fresh, 10w-cost-- | Cabbage | 3. 29 | . 84 |
|  | Apples. | 1. 21 | . 93 |
| Tomatoes and tomato products, canned. |  | 2. 37 | . 67 |
| Citrus fruit, canned --------------- | Grapefruitjuice, canned. | 5.02 | . 43 |

[^31]constant to be added to the aggregate of the weighted price. ${ }^{7}$

In table 3 are listed the regression equation constants for estimating the average price for composite food classifications.

Climatic Adjustment. One of the important factors influencing intercity differences in the cost of living is climate. The incidence of this factor is most obvious in the purchase of clothing and of fuel for house heating. The formula procedure, like the budget calculation, attempts to adjust the cost of these two components for climatic differences between cities. Data for these adjustments were obtained from the Bureau's expenditure studies of 1934-36 and 1941.

The average cost of clothing grouped as "heavy" and "light" items varies from the warmer to the colder regions of the United States. These cost variations were expressed as ratios of the United States average cost of heavy and light clothing. Two straight-line regression equations were fitted to the ratios of cost variation in terms of the correlation between the cost ratios of "heavy" and "light" clothing items and the normal number of annual degree days ${ }^{8}$; the number of annual degree days in the United States was used as a base from which variation in clothing costs due to climatic conditions was measured. In effect, these adjustments raise the cost aggregate of light clothing in warmer cities and decrease it in colder cities; the adjustment of the cost aggregate for heavy clothing is in the opposite direction, lowering it in the warmer cities and raising it in the colder cities. However, since the climatic adjustment factors are developed and applied separately for each clothing group they are not necessarily compensating.

A factor for determining the quantities of fuel for residential heating was developed by correlat-

[^32]ing the average quantities of fuel (measured in British thermal units) required to heat 5 -room dwellings in various cities with the logarithms of corresponding degree days for each city. ${ }^{9}$

## Time to Time Adjustment of Equations

The various regression equations described above are the basis for estimating March 1946 cost aggregates for groups of goods and services in individual cities, using a short list of items.

The formula weights and adjusting constants developed from the regression equations based on March 1946 prices can be used directly to obtain intercity indexes for this date. The result of this calculation for 10 cities and the corresponding indexes from the budget are shown in table 4.
Table 4.-Intercity indexes, calculated by formula, compared with cost of goods and services, city worker's family budget indexes, March 1946 prices
[Washington, D. C. $=100$ ]

| City | Indexes: Total cost of goods and services |  |
| :---: | :---: | :---: |
|  | Formula procedure | City workers' family budget |
| Atlanta | 92 | 91 |
| Indianapolis. | 90 | 90 |
| Kansas City | 90 | 88 |
| Minneapolis | 94 | 94 |
| Philadelphia | 88 90 | 88 |
| Portland, Oreg- | 92 | 93 |
| San Francisco. | 94 | 95 |
| Seattle. | 98 | 98 |
| Washington, D. C. | 100 | 100 |

The closeness between the March 1946 intercity indexes obtained from the formula procedure and from the budget was an initial indication of the validity of the regression equation technique for developing a formula for measuring relative price differences between cities. The next step was to test the stability over time of the relationships between the formula and the budget as

[^33]expressed by the various regression coefficients obtained for groups of goods and services. The second date for which the budget is available, June 1947, offered an appropriate bench mark for this check.

The nature of this test is best described graphically. The accompanying diagrams illustrate the problem of adjusting the formula procedure for change over time as well as the approximate solution described below.

Scatter diagrams were plotted to show both the March 1946 and the June 1947 cost relationships in 10 cities between the selected items in the formula for a group of goods and services and the full list of items in the related group. For each group the straight line of average relationship described by the regression equations (the coefficients of which were based on March 1946 prices) was drawn through the March 1946 scatter. It was found that this line, when extended, generally fell significantly below the area of the June 1947 scatter. The slope of the line, however, closely approximated the slope of a line fitted to the June 1947 data.

On the basis of this test and other tests of the stability of price relationships among cities over time, ${ }^{10}$ it was concluded that the level of the linear regression equation was an acceptable estimate only when costs (or prices) were about the same magnitude as those on which the regression was calculated. An adjustment for changes in average prices over time was indicated. It was found that a simple but satisfactory adjustment could be effected by applying to the $a$ term of each equation the relative change in average prices for the group or subgroup of items to which the equation relates. Relative changes from March 1946 to June 1947 in the Bureau's consumers' price index for appropriate groups or subgroups were used for this time adjustment. ${ }^{11}$

[^34]The diagrams illustrate how the regression line is moved into the June 1947 area of scatter as a result of this adjustment of the $a$ regression coefficient by the change in the consumers' price index.

## Test of Intercity Index Formula

To test the use of the formula for measuring intercity differences in living costs, indexes for 20 cities using June 1947 prices were computed by the formula procedure. These are shown in table 5, with the corresponding intercity indexes from the City Worker's Family Budget. The Bureau plans to reprice and calculate the cost of
Table 5.-Intercity indexes, total cost of goods and services, intercity index formula and city worker's family budget, June 1947 prices
[Washington, D. C. $=100$ ]

| City | Indexes: Total cost of goods and services |  |
| :---: | :---: | :---: |
|  | Intercity index formula | City Workers Family Budget |
| Atlanta | 93 | 92 |
| Baltimore. | 94 | 95 |
| Birmingham. | 93 | 93 |
| Boston-. | 95 96 | 96 |
| Denver. | 93 | 92 |
| Houston.-- | 88 | 88 |
| Indianapolis_ | 89 | 90 |
| Jacksonville... | 92 | 91 |
| Kansas City. | 89 | 88 |
| Memphis...- | 94 | 94 |
| New Orleans. | 88 | 88 |
| New York | 96 | 97 |
| Philadelphia. | 92 | 92 |
| Pittsburgh | 95 | 96 |
| Portland, Oreg | 91 | 92 |
| San Francisco | 93 | 95 |
| Scranton- | 92 | 92 |
| Seattle.- | 98 | 98 |
| Washington, D. C. | 100 | 100 |

the city worker's family budget for selected cities when funds are available. At that time the formula will be further tested against the budget costs at a third point in time.

## City Worker's Family Budget and Formula

The statistical relationship between the budget, with its more than 435 commodities, and the formula, with its 57 commodities, is established by means of simple linear correlation. While the concepts of the formula are essentially the same as those of the budget, the scope of its applicability is strictly limited. In its present development, the formula measures only relative intercity differences in the average over-all cost of equivalent goods, rents, and services. In the estimating process dollar totals are calculated for groups and subgroups of items and for all items combined, but these values are only used to obtain the indexes; they are not valid estimates of the current dollar value of the city worker's family budget. Nor are the dollar totals for the component groups of goods and services valid figures on which to base intercity index comparisons of price levels for particular groups of items. The formula procedures are based on a calculation of separate totals for the various component groups, because correlation studies have shown that intercity differences in prices of many items within these groups are related; hence, the over-all intercity percentage differences can be estimated more accurately by computing separate group totals. Positive and negative errors of estimate in the group and subgroup totals tend to cancel in the summation process.

Scatter Diagrams and Regression Lines, ${ }^{1}$ Inter-city Index Formula, 10 Cities

${ }^{1}$ Regression equations are of the form $Y=a_{0}+b_{o} X$ where $X$ is the cost (price times quantity) of the selected items of the formula and $Y$ is the estimated cost of a full list of items. The coefficients " $a_{o}$ " and " $\mathrm{b}_{0}$ " are based on March 1946 prices. Adjustment of the " $a_{0}$ " coefficient for change over time by the CPI is indicated by " $a_{0}$ I."

## Recent Decisions of Interest to Labor ${ }^{1}$

## Wages and Hours ${ }^{2}$

Production of Records. In a decision ${ }^{3}$ affecting enforcement of the Fair Labor Standards Act, the Court of Appeals for the Fifth Circuit considered the extent of the investigative powers of the Wage and Hour Administrator. The Supreme Court of the United States previously had upheld ${ }^{4}$ the constitutionality of the provisions granting such powers.

The Administrator had asked for the production of records showing wages of employees, hours they worked, names of the employer's customers and the types of work done for each, and the source and destination of goods brought from or sent to places outside the State in which the plant was located. When the employer did not comply with the subpena, the Administrator made application to the district court to enforce it. The employer then admitted that all his employees were engaged in commerce and the production of goods therefor, but denied that the records sought were material or relevant, and alleged that their production would be unduly burdensome. The district court dismissed the application for enforcement of the subpena.

Reversing the district court, the court of appeals held that the Administrator was authorized to

[^35]make the investigation concerning wages and hours of the employees, but that the production of records concerning interstate purchase, sale, and transportation of goods was probably not necessary in the instant case since the employer had admitted coverage. If after examining wage and hour records, the Administrator needed additional information, he could then petition, the court said, for a further order.

## Labor Relations

Prohibition of Union Security Agreements Constitutional. In some recent decisions, the Supreme Court of the United States held that a State could constitutionally outlaw union-security agreements.

In one opinion ${ }^{5}$ the Court affirmed decisions of the North Carolina ${ }^{6}$ and Nebraska ${ }^{7}$ supreme courts, respectively, upholding a statute of the former and an amendment to the State constitution of the latter. Both the statute and the constitutional amendment prohibited the entering into or the enforcement of contracts which made either membership or nonmembership in a labor union a condition of securing or retaining employment. The North Carolina statute had been challenged in criminal proceedings against an employer and labor-union agents for making a union-security agreement; the Nebraska constitutional amendment had been attacked in an action by a union to compel an employer to fire nonunion employees.

The grounds of attack were that the statutes were a denial of freedom of speech, assembly, and petition, impaired the obligation of contracts, denied unions equal protection of the laws, and denied both unions and employers due process of law. The Court, in rejecting all these arguments, held that there was no denial of the right of free speech and assembly. The right of employees to assemble to discuss working conditions did not include a right to drive from employment nonunion workers not joining in the assembly. The unions, the Court pointed out, were claiming that nonunion workers did not have a constitutional right to work. The argument that the laws impaired the obligation of contracts was dismissed with the comment that its lack of merit "is now

[^36]too clearly established to require discussion." The Court held that these statutes did not deny to unions equal protection of the laws. While it might be true that the statutes weakened the bargaining power of unions against employers, they also prohibited "yellow-dog" contractsthose which would make nonmembership in a union or membership in a company union a condition of employment. The Court ruled that the State laws were not a denial of due process of law. The argument that they interfered with liberty of employers and unions to make contracts was held to be based on a line of reasoning no longer accepted by the Court. Cases adopting such reasoning had, in a past period, upheld "yellow-dog" contracts and struck down laws fixing maximum hours and minimum wages. The Court stated that it is the present rule that States have power to limit the right of contract in the interest of the public welfare.

In a second opinion ${ }^{8}$ the Court upheld an Arizona State constitutional amendment forbidding employers to discriminate in employment on account of nonmembership in a union. An Arizona statute previously enacted had provided that "yellow-dog" contracts were not enforceable, but did not contain provisions for enforcement through damage suits or injunctions as did the anti-union-security statute. The Court held that even if the same sanctions did not exist for enforcement of the "anti-yellow-dog" statute, such provisions in the anti-closed-shop statute were not a denial of equal protection of the laws. The relative need of different groups for protection was held to be a matter for legislative judgment. Justice Murphy dissented.

Justice Frankfurter, concurring in all three decisions, pointed out that the trend of constitutional doctrine had shifted (from its former emphasis on preconceived economic ideas) to judicial deference to legislative judgment in regulating, for the benefit of the community, powerful economic forces, which now included labor unions. Previous decisions protecting individuals from certain activities of labor unions were held not to have prevented the growth of organized labor.

Justice Rutledge concurred in the opinions of the Court, with the important reservation that

[^37]he did not pass upon the right of a State to prohibit union workers from refusing to work with nonunion workers.

States Versus Federal Jurisdiction. The United States Supreme Court held ${ }^{9}$ that a State employment relations board did not have power to certify a union as collective bargaining representative for employees of a company engaged in interstate commerce and subject to the jurisdiction of the NLRB, even though the NLRB had not previously ruled on the representation question.

The Telephone Guild filed and then withdrew a petition with the NLRB for certification as representative of plant and traffic employees of a telephone company. The guild then filed a representation petition with the Wisconsin Employment Relations Board, which held an election and certified the guild as bargaining representative. The company and the International Brotherhood of Electrical Workers (AFL) who had entered into a collective bargaining agreement in behalf of these employees, asked the Wisconsin courts to set the State board certification aside. The circuit court, relying on a Supreme Court decision, ${ }^{10}$ issued such an order, but the State supreme court reversed it.

The United States Supreme Court, in reversing the decision of the State supreme court, held that the NLRB had exclusive jurisdiction over the question of certification of bargaining representative. The Court pointed out that the NLRB was granted by Federal law, and had asserted jurisdiction over labor relations in the telephone industry. The fact that the NLRB had not asserted jurisdiction over representation proceedings in this instance was held immaterial.

Both State and Federal statutes covered the same relationships and provided different standards. Thus, the Wisconsin statute provided that employees of a single craft may elect to be a separate bargaining unit while the Federal act leaves some discretion as to the relation of the unit to the NLRB. Even if there was no collision of formal orders of the boards, the Court stated, there might be a conflict in administrative practice which would create equal uncertainty and be equally destructive of peaceful industrial re-

[^38]lations. Section 10 (a) of the amended National Labor Relations Act was held not to give jurisdiction to the State board, since no formal agreement for cession of jurisdiction had ever been made between it and the NLRB.

The guild's contention that the certification order of the State board was not a "final judgment" and therefore not subject to review was dismissed by the court, since the certification created new legal relationships in effect compelling the company to bargain with the union. The fact that the certification itself did not constitute a formal command did not prevent it from being final.

Interference-Soliciting Strikers To Return to Work. The NLRB ruled ${ }^{11}$ that an employer's direct solicitation of individual strikers on the picket line to return to work, although unaccompanied by threats or promises, constituted interference. The Board pointed out that here the employees had duly designated a collective bargaining representative. The employer was obligated to deal with that representative, and not with employees individually in derogation of the representative, except in case of a strike in breach of contract. One member dissented on the ground that the employer had at no time refused to bargain with the union and that the solicitation of individual strikers would not be considered an attempt to bypass the union.

Discrimination. A circuit court of appeals, reversing a decision by the NLRB, held ${ }^{12}$ that an employer did not discriminate against economic strikers by failing to rehire them when there were vacancies. The NLRB had ruled that the employer was guilty of discrimination, on the ground that the strikers had, through their agent, made an unconditional application for reinstatement. The Board held the application was a continuing one, in view of the strikers' appearance outside the plant every day for 3 weeks thereafter. The court held that the application was not a continuing one and was not so considered by either employer or strikers. The strikers' appearance outside the plant was for organizing purposes, and, it was pointed out, they were not there during the whole day. There were no vacancies

[^39]at the time of the mass application. The strikers had been replaced and were not entitled to reinstatement. The court said that the employer could not be expected to search for strikers every time a vacancy occurred.

Supervisors. Two recent decisions of the NLRB consider the definition of supervisory employees, whose union activities are not protected by the amended National Labor Relations Act.

The Board ruled ${ }^{13}$ that control operators of an electric public-utility company were not supervisors. They possessed no authority, except in rare instances, to "hire, transfer, suspend, lay-off, recall, promote, discharge, assign, reward, or discipline other employees." However, they did direct some work of other employees outside the control room. The Board noted that the definition of supervisors in section 2 (11) of the act included any individual with "responsibility to direct" other employees, and stated that in some circumstances this power alone made one a supervisor. Persons with responsibility to direct were held to be in a twilight zone between those above the grade of lead man, straw bosses, and other minor supervisory employees, and those not possessing any of the other specific authorities enumerated in the act. Whether persons in this narrow area were supervisors depended upon the number of employees to be supervised, the opportunity for exercise of independent judgment, and other factors which might arise. The Board noted that in this case the control operators (who were themselves closely supervised by shift operating engineers) exercised almost no powers over the status of rank-and-file employees.
(2) The NLRB, in considering the status of certain classes of newspaper employees, pointed out ${ }^{14}$ that exercise of discretion does not necessarily make one a supervisor. Editorial writers were held not to be supervisors. Although they expressed management policy on certain topics, they were guided by a body of doctrine which, "though more nebulous than the blueprint which guides a skilled craftsman, nonetheless exists as a restriction on the exercise of their full discretion." Membership in the union was held not to impair their loyalty.

[^40]Assistant city editors, assistant sports editors, telegraph editors, and chiefs of copy desks were all held to be supervisors. In this case the assistant city and sports editors were in charge of their departments at certain times, had power to accept or reject stories, and were consulted in grant of promotions and other personnel decisions. Telegraph editors determined the size of headlines and the length of front-page stories. Copy-desk chiefs instructed subordinates in regard to leads.

Make-up editors were held not to be supervisors, although they could shorten stories, since they exercised authority only when instructions from editorial and news departments conflicted with mechanical space limitations. Field correspondents assigned to work outside the city had more responsible positions, but were still held to be essentially reporters. They were not supervisors, nor were assistant chiefs of the art and photographic departments, the racing editor, dramatic critics, and heads of the financial departments, although all exercised some discretion.

Non-Communist Affidavits. Before an international or national union can participate in a representation, the NLRB held, ${ }^{15}$ all of its locals which have employees in the bargaining unit must have complied with the filing and nonCommunist affidavit provisions of the amended National Labor Relations Act. The case involved a 31-State unit of insurance agents. With one member dissenting, the Board ruled that the compliance of each local was required even though it did not participate in collective bargaining.

## Voting Rights of Economic Strikers. The NLRB

 ruling that permanently replaced economic strikers could not vote in a representation election was extended ${ }^{16}$ to include a situation in which the strike occurred after an election had been directed and after the eligibility date set for voters. The Board held that the act made no distinction between such a case and one in which the strike occurred before direction of an election. It pointed out instances in which employees were prevented from voting because of their resignation or dicharge after the eligibility date. The fact that the employer was increasing personnel, and[^41]later actually rehired the strikers, was held not to preclude the permanent replacement of these strikers. The replacements were held to be permanent, although not told that they were replacing the strikers, because the employer told them they were permanent.

## Veteran's Reemployment

Promotion. Two recent decisions of a circuit court of appeals deal with the right of a reinstated veteran to promotion under the reemployment statutes.
(1) The court held ${ }^{17}$ that a reinstated veteran had not established his right to promotion from the position of roundhouse laborer to that of roundhouse hostler. The collective-bargaining contract provided that ability, merit, fitness, and seniority were to be considered in making promotions. When ability, merit, and fitness were sufficient (in the judgment of management), seniority was to govern. A district court had dismissed the veteran's action on the ground that he had failed to meet the burden of proof that he had a legal right to the promotion.

The court of appeals held that the findings of fact by the district court were supported by ample evidence, which the veteran had not overcome. The employer, in deciding that the veteran lacked the ability, merit, and fitness needed for promotion, was held to have acted in good faith and not capriciously and arbitrarily.
(2) The court of appeals considered ${ }^{18}$ the liability of a union in connection with an employer's claim that the union compelled the employer to demote a veteran illegally.

The veteran had sued the employer in the district court for damages because of a demotion, occurring within a year after reinstatement, from a position to which the veteran had been promoted after his return from military service. The district court awarded damages to the veteran against the employer, and, at the employer's request, held the union liable to the employer, because, through grievance procedures, it had compelled the employer to demote the veteran. The union appealed.

The court of appeals, reversing the district court, held that the union was not liable to the

[^42]employer, because the veteran's rights had not been violated by his demotion. The court pointed out that under a collective-bargaining agreement between the union and the employer, promotions were based on departmental seniority. The veteran had worked longer in the plant than a nonveteran whom he replaced when he was promoted, but he had less seniority in the department. His demotion, therefore, and the conduct inducing it, did not violate the reemployment statutes.

An additional reason for the decision was that the position to which the veteran was promoted was two steps above the one he left. Without deciding whether a veteran, on reinstatement, had a right to a promotion he might have claimed if he had not been in military service, the court said that the reemployment statutes did not give the veteran a right to a promotion he would not have received if he had remained on the job.

Promotion-Seniority Affected by Veteran's Absence. The Court of Appeals for the Seventh Circuit considered ${ }^{19}$ the extent to which conditions controlling the right to promotion and fixing the date of promotion according to seniority are modified by the fact that the veteran is absent in the service.

The veteran had been a telegrapher before entering the service. Under a contract between his employer and the union, vacancies in the position of dispatcher were customarily filled from telegraphers according to their seniority, provided they had the necessary ability, as determined by an examination. In practice, notice of vacancy was given the senior telegrapher, who then might bid on the position. If he did so, and could pass the examination, he was given the job. The contract further provided that seniority as dispatcher dated from time of passing the required examination. During the veteran's absence, a number of vacancies as dispatcher were filled, some of them by telegraphers who had less seniority than the veteran. Subsequently, while still in military service, he was notified of and bid on a dispatcher vacancy. He returned to employment as a telegrapher but promptly passed an examination and filled the vacancy. However, he claimed that his seniority as dispatcher should be retroactive to the date when the first vacancy in such a position was filled

[^43]by a telegrapher junior to him. The district court decided that he was entitled as a matter of law to the promotion and to the retroactive seniority he claimed, but not to pay at the higher level retroactive to the date of his reinstatement. Since only the employer took an appeal, the question of pay was not considered.

In the court of appeals, the employer contended that the veteran had not met the conditions for promotion to the vacancy occurring during his absence in the service. Therefore, it was urged, he was not entitled to the earlier seniority date. The court of appeals adopted the lower court opinion as its own and affirmed the judgment. The telegrapher, said the court, had the right as an attribute of his position to bid for an advertised dispatcher's position. His military service excused him, in law, from having to bid for the vacancies which had been filled, during his absence, by men junior to him on the telegrapher's roster. Having passed the examination after his return, he was entitled to promotion. Once qualified for the job, his seniority was retroactive to the date when the first vacancy as dispatcher was filled by a telegrapher with less seniority.

The court distinguished another decision ${ }^{20}$ of a cirucit court of appeals, which denied a veteran's retroactive seniority in promotion from electrician helper to electrician, since in that case there was no custom or requirement that vacancies in the position of electricians must be filled by electrician helpers.

## Decisions of State Courts

Colorado-All-Union Contract Issue. The Colorado Supreme Court held ${ }^{21}$ that a secondary boycott engaged in by a union for the purpose of compelling an employer, the owner of a butcher shop, to make a closed-shop contract was not a "labor dispute" within the meaning of the antiinjunction provisions of the Colorado Labor Peace Act. Less than a year before the union's demand for a closed shop and its boycott, a majority of the employees of that employer had voted against being represented by the union in an NLRB election. If the employer had made a closed-shop contract with the union, he would have been guilty of an

[^44]unfair labor practice under the Federal act. The fact that the employer's cancellation of a lease was one cause for terminating the business of the lessee, a competitor, whose employees belonged to the union, was held immaterial. The competitor's agreement with the union, by its own terms, became void upon the termination of his business.

Section 2 (7) of the Colorado Labor Peace Act provided that the refusal of an employer to grant an all-union agreement did not constitute a "labor dispute" subject to the act's restrictions on injunctions. The court, in an earlier case, ${ }^{22}$ had held this section constitutional.

Michigan-Action Against Union for Loss of Job. A State court held ${ }^{23}$ that an employee could bring an action against a union for damages and an injunction for interference with his employment because of his wrongful expulsion from membership. The union had a maintenance-of-membership contract with the employer, which provided that all employees, as a condition of employment, must maintain union membership in good standing. The union constitution and bylaws provided for presentation of written charges against an employee, a trial, and appeal within 30 days of the union's decision. In its defense against the employee's action, the union asserted that he was no longer a member in good standing, but failed to state that charges had been made in writing. It contended that a court had no jurisdiction to interfere in a dispute between a voluntary association and its member until all his remedies under

[^45]its constitution and bylaws had been exhausted. The member claimed that the union had failed to abide by its own rules and that resort to the remedies it mentioned was futile.

The lower court dismissed the case without an opinion. But the supreme court reversed the decision and sent the case back for trial, on the ground that, if proved to be true, the member's allegations justified the grant of the relief requested.

Wisconsin-Compulsory Arbitration in Public Utility Disputes. A Wisconsin circuit court held constitutional ${ }^{24}$ a State law providing for compulsory arbitration of labor disputes in public utilities. The law provides that if collective bargaining between an employer and employees in a public utility reaches an impasse, a conciliator may be appointed by the State labor board to assist in settling the dispute. If the conciliator is unable to effect a settlement, an arbitrator shall be appointed, whose decision shall be binding. Strikes and lock-outs in public utilities are prohibited under penalty.

The court, in contrast with the decision of another circuit court ${ }^{25}$ of the same State, held that the statute was lawful under the State police power; that it did not impose involuntary servitude upon the workers or deny them the equal protection of the laws; that it was not an unlawful delegation of either legislative or judicial power or an invasion of the executive power; and that it did not contravene the Taft-Hartley Act.

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## Chronology of Recent Labor Events

## January 12, 1949

The National Labor Relations Board, in the case of Super-Cold Southwest Co. and Retail, Wholesale and Department Store Union ( $C I O$ ), held that five employees who disobeyed an order to work overtime were discharged for cause, and not unlawfully. The overtime work order was not issued to interfere with the union meeting which the men attended but to avoid operational losses the following day. The employer had readily excused those men who asked to be excused. (Source: Labor Relations Reporter, vol. 23, Summary, p. 5, and LRRM, p. 1305.)

## January 13

The Weirton Steel Co. and the independent union of its employees signed an agreement which provides retirement pay of at least $\$ 100$ a month for eligible employees participating in the National Steel retirement annuity plan, and smaller pensions for other eligible employees, retroactive to January 1, 1949. (Source: Iron Age, Jan. 20, 1949, p. 108.)

## January 15

Arbitrator Douglas V. Brown, in the case of textile manufacturers in Fall River and New Bedford, Mass., and the Textile Workers Union of America (CIO), denied a wage increase. He held that the grant of such an increase might "open the door to the possibility of serious unemployment and loss of income to both employees and companies." The risk of such losses, he held to be more serious than the risk that the employees would forego an increased standard of living. (Source: Labor Relations Reporter, vol. 23 LRR, p. 191.)

On February 2, a wage increase was also denied in the arbitration between the American Woolen Co. and the Textile Workers Union of America (CIO). Raymond F. O'Connell, arbitrator, ruled that conditions did not justify the 10 -cent-an-hour increase and $\$ 1.15$ minimum hourly wage rate sought by woolen and worsted workers. (Source: New York Times, Feb. 3, 1949.)

On February 7, the Textile Workers Union of America (CIO) dropped demands for a 10 -cent-an-hour wage increase for woolen and worsted goods workers. (Source: New York Times, Feb. 8, 1949.)

## January 17

The Supreme Court of the United States, in the cases of La Crosse Telephone Corp. v. Wisconsin Employment Relations Board et al.; International Brotherhood of Electrical Workers, Local B-953, AFL, v. Same, held that the Wisconsin Employment Relations Board does not have jurisdiction in a representation proceeding involving the employees of a telephone company which is engaged in interstate commerce. The Court's ruling was made even though the NLRB had not as yet undertaken to determine the collective bargaining unit and bargaining agent of these employees. (Source: Labor Relations Reporter, Extra Edition Bulletin, vol. 23, No. 23, Jan. 17, 1949.)

The Congress of Industrial Organizations announced that members of the Oil Workers International Union in California had accepted the offer of the Union Oil Co. and returned to work. This settlement was the last in a 4month work stoppage among major oil companies in the State (for discussion, see MLR, Dec. 1948, p. 629). (Source: CIO News, Jan. 17, 1949, p. 8.)

## January 19

The CIO, the British Trades Union Congress, and the Dutch Federation of Labor formally withdrew from the World Federation of Trades Unions at the Paris meeting of the organization's executive committee. (Source: New York Times, Jan. 20, 1949, and CIO News Jan. 24, 1949, p. 10; for earlier action, see chron. item for May 5, 1948, MLR, June 1948.)

The NLRB, in the case of Associated Shoe Industries of Southeastern Massachusetts Inc. et al., held that the appropriate unit for a representation election does not include employees of independent shoe manufacturers who have regularly adopted contracts negotiated between the region's Shoe Manufacturers' Association and a union, but have not participated or attempted to participate in negotiations. (Source: U. S. Law Week, vol. 17 LW, p. 2338, and NLRB release W-70, Jan. 26, 1949, p. 3.)

An NLRB trial examiner recommended that John L. Lewis and the United Mine Workers of America (Ind.) should cease to give effect to the union-shop provision of the current contract with 18 captive coal mines (see Chron. item for June 25, 1948, MLR, Aug. 1948). He held that the union shop requirement of their 1948 contract is illegal because it was not authorized by a majority of the employees through a Government-conducted election under the Labor Management Relations Act of 1947. (Source: NLRB release R-152, Jan. 19, 1949.)

The NLRB, in the case of E. I. duPont de Nemours \& Co. and United Gas, Coke, and Chervical Werkers of America (CIO), held that the petitioning union's failure to protest execution of contract with a rival union during the 6 months' interval between the execution of contract and the election of a bargaining agent barred an attack on the election. (Source: Labor Relations Reporter, vol. 23, LMR Reference Guide, p. 4, and LRRM, p. 1316.)

## January 28

The NLRB, in the case of Safeway Stores, Inc. [Pueblo, Colo.] and Retail Clerks Union, Local No. 24, held that the provision of the National Labor Relations Act which permits union-shop agreements under certain conditions takes precedence over a State law which does not prohibit but only regulates union-shop agreements. (Source: Labor Relations Reporter, vol. 23 LRRM, p. 1337.)

Officials of the Amalgamated Clothing Workers of America (CIO) announced their decision not to ask for a fourth-round wage increase owing to the current economic situation. Slackened demand for men's apparel and reduced food costs were cited. (Source: Washington Star, Jan. 28, 1949.)

## January 30

The Chicago local of the International Typographical Union (AFL) voted to accept the contract offered by the Hammond (Ind.) Times, which granted a $\$ 12.50$ weekly wage increase. The contract was drawn, an official of the paper stated, within the terms of a Federal District Court injunction (see Chron. items for Mar. 29, 1948, MLR, May 1948 and Oct. 14, 1948, MLR, Dec. 1948) ordering the union to cease its insistence on a closed shop. (Source: Labor, Feb. 5, 1949.)

## January 31

The Supreme Court of the United States ruled in the case of Clyde Wilkerson v. Wilson McCarthy and Henry Swan; it held that evidence of railroad employee's injury while crossing a wheel pit via a slippery plank was sufficient to warrant submission of Federal Employer's Liability Act case to a jury to determine the issue of railroad's negligence and employee's contributory negligence. (Source: U. S. Law Week, vol. 17 LW, pp. 4159 and 4175.)

The Senate Labor Committee received an opinion from the Attorney General of the United States, asserting that failure of the Administration's labor-management relations bill to provide for injunctions against national emergency strikes does not mean that the President is without power to obtain such injunctions. (Source: Labor Relations Reporter, vol. 23, LRR, p. 217.)

The NLRB, in the case American Optical Co. and Optical and Instrument Workers Organizing Committee (CIO), barred its facilities to the union. The Board held that the petitioner was an organizing committee of the CIO whose officers have not complied with the affidavit and filing requirements of the LMRA of 1947 (see Chron. item for Oct. 7, 1947, MLR Jan. 1948). (Source: Labor Relations Reporter, vol. 23 LRRM, p. 1351.)

## February 2

The President's fact-finding board in the dispute between the non-operating railroad unions and the railroads was asked to re-enter negotiations (see Chron. item for Dec. 17, 1948; MLR, Feb. 1949). The dispute, which concerns wages and hours, affects 1 million workers and has been in progress for 10 months. (Source: Labor, Feb. 5, 1949.)

## February 7

The second conference on unfinished business in social legislation met in Washington, D. C., and was addressed by the Secretary of Labor. (Source: Washington Star, Feb. 7, 1949.)

## February 8

A United States District Court judge, in the case of Upholsterers' International Union of North America v. Leathercraft Furniture Co., held that a union requirement that an employee must be a union member in order to receive benefits from a social security fund to which an employer is obligated to make contributions does not violate Section 302 (c) of the LMRA of 1947. Section 302 (c) specifies a fund established for the benefit of "the employees of the employer." (Source: U. S. Law Week, vol. 17 LW, p. 2374.)

## February 10

The NLRB, in the case of Daniel Hamm Drayage Co., Inc., announced that a trial examiner had recommended that the employer should be required to reimburse seven men for any loss of wages they suffered because they were refused employment under an illegal closed-shop agreement. (Source: NLRB release R-157, Feb. 10, 1949.)

## Publications of Labor Interest

## Arbitration and Mediation

Compulsory Arbitration of Labor Disputes. By James A. Sprunk. (In Michigan Law Review, Ann Arbor, December 1948, pp. 242-254. \$1.)
Reviews briefly State laws providing for compulsory arbitration of labor disputes, and court decisions involving constitutionality of such legislation.
Fourteenth Annual Report of the National Mediation Board, Including the Report of the National Railroad Adjustment Board, for the Fiscal Year Ended June 30, 1948. Washington, 1948. 112 pp. 40 cents, Superintendent of Documents, Washington.
Mediation and Arbitration under the New York State Board of Mediation in 1947. New York, State Department of Labor, Division of Research and Statistics, 1948. 44 pp. ; processed. (Publication No. B-12.)

## Cooperative Movement

Cooperation in Canada, 1947-Sixteenth Annual Summary. Ottawa, Department of Agriculture, Marketing Service, 1948. 10 pp. ; processed.
Statistics of number, membership, volume of business, and geographical distribution of cooperative associations, 1947, with comparative figures for earlier years.
The Cooperative Movement in Labor Britain. Edited by N. Barou. London, Victor Gollancz, Ltd., 1948. 143 pp .7 s .6 d .
Essays on various aspects of the cooperative movement, with "conclusions" by the editor. Subjects include retail distributive cooperatives; the Labor Government and cooperative price, dividend, and financial policy; prospects for agricultural cooperation; workers' productive cooperatives; and labor relations in the cooperative movement. One paper deals with methods used to bring cooperation to the "deserts" in which the cooperative movement, for one reason or another, has not developed.
The Cooperative Movement in Israel. Tel-Aviv, General Cooperative Association of Jewish Labor in EretzIsrael, 1948. 12 pp. In English, French, Russian.

[^47]Summary information concerning the General Cooperative Association of Jewish Labor in Israel (Hevrat Ovdim, Ltd.), and the various bodies which are auxiliary or supplementary to it.

The Seventeenth Congress of the International Cooperative Alliance. (In Review of International Cooperation, London, September-October 1948, pp. 185-236.)
Extended account of proceedings of the congress, which was held in Prague, Czechoslovakia, September 27-30, 1948. (See also article in Monthly Labor Review, December 1948, pp. 600-602.)

Year Book of Agricultural Cooperation, 1947. Edited by Horace Plunkett Foundation. Cambridge, England, W. Heffer \& Sons, Ltd., 1948. 342 pp., bibliography. 15 s.
Consists principally of a collection of articles, by various authors, each dealing with agricultural cooperation in a specific country. One paper, however, covers cooperative organization among fishermen in 11 countries, and another lists laws concerning agricultural cooperation passed by many nations in the period 1940-42.

Cooperatives in the Petroleum Industry. By Ludwig von Mises and others. New York, Petroleum Industry Research Foundation, 1947. In 4 parts, variously paged.
Written from the viewpoint of private business, on the thesis that cooperatives "cannot maintain themselves by their own efforts," that they cannot "stand the competition of private business without Government favoritism," and that they are given unfair advantages in the matter of taxation.

## Costs and Standards of Living

How to Live Within Your Income. By J. K. Lasser and Sylvia F. Porter. New York, Simon \& Schuster, 1948. 120 pp ., forms. $\$ 1$.

Working Women's Budgets in Twelve States: Cost-of-Living Reports Prepared Chiefly for the Use of MinimumWage Administrations. Washington, U. S. Department of Labor, Women's Bureau, 1948. 33 pp . (Bull. No. 226.) 15 cents, Superintendent of Documents, Washington.

Living and Office Operating Costs in Colombia. Washington, U. S. Department of Commerce, Office of International Trade, 1948. 9 pp. (International Reference Service, Vol. V, No. 84.) 5 cents, Superintendent of Documents, Washington.
A similar report for Ecuador was also issued recently.

## Education and Training

Handbook of Adult Education in the United States. Edited by Mary L. Ely. Compiled under auspices of Institute of Adult Education with cooperation of American Association for Adult Education. New York, Columbia University, Institute of Adult Education, 1948. 555 pp., bibliography. $\$ 5$.

Principles and Practices of Vocational Education. By Arthur B. Mays. New York, McGraw-Hill Book Co., Inc., 1948. 303 pp., bibliographies. $\$ 3.50$.
Training Problems in the Far East. By Marguerite Thibert. Geneva, International Labor Office, 1948. 160 pp. (Studies and Reports, New Series, No. 11.) $\$ 1$. Distributed in United States by Washington Branch of ILO.
Report on a first-hand survey made by the author for the International Labor Organization and the United Nations Economic Commission for Asia and the Far East.
Vocational Training of Adults in the United Kingdom. Geneva, International Labor Office, 1948. 88 pp., bibliography, plans, illus. (Vocational Training Monograph No. 1.) 50 cents. Distributed in United States by Washington Branch of ILO.
First in a series of national monographs undertaken by the ILO for the purpose of making available to governments, employers, and workers information on the experience of different countries in organizing vocational training and retraining programs. This monograph deals primarily with government sponsored training schemes. Special attention is given in an appendix to methods of training for coal mining.

## Industrial Accidents; Workmen's Compensation

Proceedings of the President's Conference on Industrial Safety, Washington, D. C., September 27-29, 1948. Washington, [U. S. Department of Labor, Bureau of Labor Standards], 1949. 93 pp., illus. (Bull. No. 103.) Limited free distribution.

Contains addresses and technical committee planning reports and recommendations of a groundwork conference held in preparation for an enlarged conference scheduled for March 23-25, 1949. The bulletin also outlines the scope and organization of the various committees.
Accident Prevention in Brick, Pipe, and Tile Manufacture. London, Ministry of Labor and National Service, Factory Department, 1948. 95 pp., illus. (Safety Pamphlet No. 17.) 2s. net, H. M. Stationery Office, London.
Review of Fatal Injuries in the Petroleum Industry for 1947. Washington, American Petroleum Institute, Department of Safety, 1948. 19 pp .
Shows incidence and rate of fatalities and permanent total disabilities, and also accident causes.
Barème Indicatif d'Invalidité pour les Accidentés du Travail. Paris, Fédération Nationale des Organismes de Sécurité Sociale, 1948. 53 pp .
Gives tables of invalidity rates used in workmen's compensation for industrial injuries and occupational diseases, under French legislation in effect as of March 1948.

## Industrial Home Work

Industrial Home Work. (In International Labor Review, Geneva, December 1948, pp. 735-751. 50 cents. Distributed in United States by Washington Branch of ILO.)

Report on an inquiry by the ILO into the status of industrial home work in various countries, dealing briefly with its extent, systems under which it is carried on, minimum wage controls, regulation of hours, social insurance, holidays with pay, and other matters.
El Trabajo Industrial a Domicilio en el Distrito Federal. México, D. F., Universidad Nacional Autonoma de México, Instituto de Investigaciones Económicas, 1946. 77 pp .

Study of industrial home work in the Federal District of Mexico, with developments in the United States as background.

## Industrial Hygiene

Maximum Allowable Concentration Limits of Harmful Substances. (In New Jersey Industrial Safety Guide, State Department of Labor, Division of Engineering and Safety, [Trenton?], January 1948, pp. 1-4.)
Rules and regulations (effective December 15, 1947) establishing revised standards of permissible daily atmospheric content of specific toxic chemicals and radiant energy in places of industrial employment in New Jersey.
Carbon Tetrachloride Poisoning. By Gordon A. Abbott and Milton J. Miller. (In Public Health Reports, Federal Security Agency, Public Health Service, Washington, December 10, 1948, pp. 1619-1624. 10 cents, Superintendent of Documents, Washington.)
Report on 10 cases, 8 of them merchant seamen who had been exposed to the poison in their duties aboard ship. According to the study, most of these casualties, four of which were fatal, could have been avoided by proper ventilation.
Paints, Lacquers, and Finishes. By W. B. Harris. (In Monthly Review, Division of Industrial Hygiene \& Safety Standards, New York State Department of Labor, New York, November 1948, pp. 41-44, bibliography.)
Indicates the toxicity of specific materials, outlines health and fire hazards in their manufacture and application, and suggests control measures.
Memorandum on the Use of Radium in Industry with Particular Reference to Luminising with Radioactive Material. London, Ministry of Labor and National Service, 1947. 6 pp. 2d. net, H. M. Stationery Office, London.
Outlines the nature, properties, and hazards of radium, methods of detection, tolerance dose, and necessary precautions in its use.
Observations on Cardiovascular Patients in Industry. By Paul H. Kuhn, M.D. (In Industrial Medicine, Chicago, December 1948, pp. 461-467, bibliography, charts. 75 cents.)
Brief account of 6 years' experience (1942-47) in a small plant.
Report of the Departmental Committee on Industrial Diseases. London, Ministry of National Insurance, 1948. 15 pp . (Cmd. 7557.) 4d. net, H. M. Stationery Office, London.

The report establishes principles which should govern selection of diseases for insurance under the British National Insurance (Industrial Injuries) Act.

## Industrial Relations

American Labor and the Government. By Glenn W. Miller. New York, Prentice-Hall, Inc., 1948. 638 pp., bibliography. $\$ 7.35$.
This three-part study of labor controls is organized as follows: Part I deals with labor problems which led to pre-World War I controls; Part II covers existing labor legislation and the development of new control measures in the between-wars period; Part III surveys the effects of World War II and the postwar period on labor controls, especially with respect to labor-management relations.
Human Relations in an Expanding Economy: A study of the Manufacturing Departments in the Endicott Plant of the International Business Machines Corporation. By F. L. W. Richardson, Jr., and Charles R. Walker. New Haven, Conn., Yale University, Labor and Management Center, 1948. 95 pp., diagrams.
The study describes the impact of technological and other changes upon human relations, and discusses the methods adopted to deal with problems which resulted.

According to the authors, a firm which undergoes a period of expansion tends to increase centralization of responsibility, increase the levels of authority within the plant, multiply staff functions, and divide jobs so that they call for a greater degree of specialization. Generally, these factors result in deterioration of human relations in the plant. However, the Endicott plant surveyed, by adopting measures designed to minimize these tendencies, was able to improve or maintain satisfactory human relations during the period under consideration (1940-47).
Manual of Industrial Relations. Deep River, Conn., National Foremen's Institute, Inc., 1948. 191 pp., loose-leaf. $\$ 7.50$.

Collective Bargaining Provisions: Union Rights, Activities, and Responsibilities. Washington, U. S. Bureau of Labor Statistics, 1948. 32 pp.; processed. Free.
Other recent reports in this series deal with provisions concerning, respectively, management prerogatives; safety, health, and sanitation; and seniority.
Employee Benefit Plans and Collective Bargaining. New York, American Management Association, 1948. 27 pp . (Personnel Series, No. 123.) 50 cents.
Contains two papers which analyze the implications for management of compulsory bargaining on benefits, as a result of the National Labor Relations Board ruling in the Inland Steel case.
The Right to Work. By Cecil B. DeMille. San Francisco, California Personnel Management Association, 1948. 12 pp.; processed. (Management Report No. 29.) \$1.

Union Contracts in Retail Trade, New York City, 1948: Food Stores. New York, State Department of Labor,

Division of Research and Statistics, 1948. 31 pp.; processed.
Contracts for drug, dry goods, men's hat and haberdashery, and shoe stores have been covered in other reports already published in this series.
New Principles Governing Industrial Relations and Labor Protection in Sweden. By Gunnar Hultman. (In Industrial Safety Survey, International Labor Office, Geneva, July-September 1948, pp. 81-86, chart. 50 cents. Distributed in United States by Washington Branch of ILO.)

## Labor and Social Legislation

Labor Law: A Concise Explanation of the Rights and Duties of Employees and Employers Under State and Federal Laws. By Victor S. Axelroad. New York, Oceana Publications, 1948. 90 pp. (Legal Almanac Series, No. 7.) $\$ 1$.
Kentucky Labor Laws * * * Complete With Amendments and Annotations to May 1, 1948. Frankfort, Department of Industrial Relations, 1948. 29 pp .
Rhode Island Labor Laws. Providence, Department of Labor, December 1948. 261 pp .
Working Under the Wage-Hour Law. By William B. McComb. San Francisco, California Personnel Management Association, 1948. 17 pp.; processed. (Management Report No. 27.) $\$ 1$.
Address by the administrator of the Federal wage and hour laws, tracing their background, their value, and the effects of Supreme Court decisions on their administration, with suggestions for improvement in the basic provisions. The discussion which followed the address is also given.
Code of Labor and Industrial Laws of the Province of Quebec and Federal Laws, [Canada], with Rules and Regulations Concerning Their Application. Compiled and consolidated by Gus. Francq. Montreal, Mercantile Printing, Ltd., 1948. 487 pp . In English and French.
A Statement of the Laws of Ecuador in Matters Affecting Business in its Various Aspects and Activities. Washington, Inter-American Development Commission, 1948. 142 pp .; processed. $\$ 4$.

Includes a summary of labor and social legislation.

## Labor Management Relations Act, 1947

The New Congress and the Taft-Hartley Law. An NBC radio discussion by Charles Gregory, Gerard D. Reilly, Gerhard Van Arkel. Chicago, University of Chicago, 1948. 33 pp. (Round Table, No. 556.)

Expressions of diversified opinion as to what legislative decisions Congress should make in connection with the terms of the Taft-Hartley Act.
The Taft-Hartley Act and Union Political Contributions and Expenditures. By Joseph E. Kallenbach. (In Minnesota Law Review, Minneapolis, December 1948, pp. 1-26. \$1.)

## Labor Organizations

Contemporary Unionism in the United States. By Clyde E. Dankert. New York, Prentice-Hall, Inc., 1948. 521 pp. $\$ 6.35$.
The course of present-day American unionism is traced in relation to its historical roots. Its characteristics are discussed in terms of structure, principles, membership, administration, leadership, collective bargaining, attitudes toward wages, hours, seniority, etc., and policies anent strikes and political action.

National Patterns of Union Behavior. By Adolf Sturmthal. (In Journal of Political Economy, Chicago, December 1948, pp. 515-526. \$1.50.)
A demonstration of the thesis that a theory of tradeunion behavior as it is found in various countries cannot be built upon deductive logic or the assumptions of traditional economic theory, but must take into consideration national characteristics and behavior patterns.

The Union as a Monopoly. By Charles E. Lindblom. (In Quarterly Journal of Economics, Cambridge, Mass., November 1948, pp. 671-697. \$1.25.)

The Firemen's and Patrolmen's Unions in the City of New York: A Case Study in Public Employee Unions. By Emma Schweppe. New York, King's Crown Press, 1948. 395 pp., bibliography. $\$ 4.50$.

Forty-Fifth Directory of Labor Organizations in Massachusetts, 1947-48 (With Statistics of Membership, 1945-47). [Boston], Department of Labor and Industries, 1948. 119 pp. (Labor Bull. No. 193.)

Labor Unions in Canada-How They Work and What They Seek. By A. Andras. Ottawa, Woodsworth House Publishers, 1948. 86 pp .50 cents.
Popular presentation of trade-union development, structure, etc., in Canada, by the assistant research director of the Canadian Congress of Labour.

Labor Movements in Latin America. By Robert J. Alexander. London, Fabian Society, 1947. 24 pp. (Research Series, No. 122.) 1s. 6 d .
Traces progress of the labor movements from mutual assistance societies to trade-unions. A short history of the several continental federations is also given.

## Migrants; Migratory Labor

Displaced Persons-A Selected Bibliography, 1939-47. Compiled by Felicia Fuss. New York, Russell Sage Foundation, Library, 1948. 12 pp. 20 cents.
Rehabilitation of Displaced Persons in India. (In International Labor Review, Geneva, August 1948, pp. 187-198. 50 cents. Distributed in United States by Washington Branch of ILO.)
Selected References on the Labor Importation Program Between Mexico and the United States. By Robert C. Jones. Washington, Pan American Union, 1948. 5 pp .

## Personnel Management

Personnel Management-Principles, Practices, and Point of View. By Walter D. Scott, Robert C. Clothier, William R. Spriegel. New York, McGraw-Hill Book Co., Inc., 1949. 648 pp., bibliography, charts, forms, illus. 4th ed. $\$ 4.50$.
The Personnel Interriew. By Richard Stephen Uhrbrock. (In Personnel Psychology, Vol. 1, No. 3, Washington, Autumn 1948, pp. 273-302, bibliography; also reprinted.)
Selecting the New Employee: Techniques of Employment Procedure. By Paul W. Boynton. New York, Harper \& Bros., 1949. $136 \mathrm{pp} . \$ 2$.

Staff Development-the Supervisor's Job. Washington, Federal Security Agency, Division of Personnel Management, 1948. 40 pp. (Training Manual No. 6.)

## Population

State Censuses: An Annotated Bibliography of Censuses of Population Taken After the Year 1790 by States and Territories of the United States. By Henry J. Dubester. Washington, U. S. Department of Commerce, Bureau of the Census, and U. S. Library of Congress, Reference Department, 1948. 73 pp . 20 cents, Superintendent of Documents, Washington.
[Population] Census of the Commonwealth of Australia, 1947-Summary for the Australian Capital Territory. By Roland Wilson. Canberra, Commonwealth Government Printer, 1948. 10 pp. (Census Bull. No. 3.) 1 s .2 d.
Population Policy in Great Britain. London, P E P (Political and Economic Planning), 1948. 227 pp., charts. 15s.
Covers population trends as well as the need for a demographic policy, basic principles of such a policy, and measures required to carry it out, including housing, education, health services, and taxation.
The Postwar Population of the Soviet Union. By N. S. Timasheff. (In American Journal of Sociology, Chicago, September 1948, pp. 148-155. \$1.25.)
Discusses various estimates of the postwar population of the Soviet Union and presents a new estimate.

## Prices

Consumers' Prices, 1914-48. By Robert A. Sayre. New York, National Industrial Conference Board, Inc., 1948. 86 pp., charts.

The tables in this report indicate the changes in consumers' prices recorded by the National Industrial Conference Board from 1914 to June 1948. The text discussion includes a description of the methods used in constructing the Board's consumers' price indexes. These indexes, forr erly called "cost of living" indexes, are based on "quoted retail prices for consumers' goods and services purchased by moderate-income families."
Retail Prices of Food, 1946 and 1947. Washington, U. S. Bureau of Labor Statistics, 1949. 58 pp. (Bull.

No. 938.) 15 cents, Superintendent of Documents, Washington.

Gas and Electricity: Price Changes in 1947. Washington, U. S. Bureau of Labor Statistics, 1948. 8 pp . (Serial No. R. 1934; reprinted, with additional data, from Monthly Labor Review, July 1948.) Free.
Manufacturers' Average Prices, 1926-48: Metal Beds, Bedsprings, Mattresses, Dual Sleeping Equipment. Washington, U. S. Bureau of Labor Statistics, 1949. 9 pp.; processed. Free.
World Prices, 1948 Compared with 1939. By Irving B. Kravis and Ann S. Ritter. Washington, U. S. Bureau of Labor Statistics, 1948. 10 pp . (Serial No. R. 1943; reprinted from Monthly Labor Review, November 1948.) Free.

## Social Security

Compilation of the [Federal] Social Security Laws, Including the Social Security Act, as Amended, and Related Enactments Through July 1, 1948. Washington, Federal Security Agency, Social Security Administration, 1948. 114 pp .25 cents, Superintendent of Documents, Washington.
Federal Grants-in-Aid in Health, Education, Social Secu-rity-Selected References, 1938-48. Compiled by Ruth Bray. Washington, Federal Security Agency, Library, 1948. 19 pp.; processed.

Outline of Federal Retirement Systems. By Thurza J. Brannon. Washington, Federal Security Agency, Social Security Administration, Bureau of Research and Statistics, 1948. 145 pp .; processed. (Bureau Report No. 15.)
Summarizes the provisions of 22 individual federally operated systems (including those covering veterans) providing retirement, disability, and survivors' benefits.
Social Security for the Self-Employed in 1949. By Leo J. Linder. (In Lawyers Guild Review, New York, JulyAugust 1948, pp. 447-455. 50 cents.)

Troisième Rapport Annuel, Exercice 1947, Office National de Sécurité Sociale, [Belgium]. Brussels, Ministère du Travail et de la Prévoyance Sociale, 1948. 73 pp., charts.
Report on operation of the general social security system in Belgium during 1947, with the text of pertinent legislation in force, and on the special social security systems applicable to workers in the mines and the merchant marine.
Czechoslovak National Insurance- $A$ Contribution to the Pattern of Social Security. Prague, Orbis, 1948. 224 pp., illus. In English. 75 cents, Universal Distributors Co., New York.
The major part of the book (pp. 35-213) consists of the text of the National Insurance Act of April 15, 1948. The Act is preceded by an introductory chapter by the Minister of Social Welfare discussing the background, guiding principles, main provisions, economic aspects, and outlook for the future of national insurance in Czechoslovakia.

The Czechoslovak insurance system is also described in an article in the August 1948 International Labor Review.
The New Social Welfare Act of Eire. By P. J. Keady. (In Bulletin of the International Social Security Association, Vol. I, No. 4, Montreal, December 1948, pp. 2-7; processed.)
The Act, passed by the Dail on November 10, 1948, deals with the following services administered by the Department of Social Welfare: Health insurance, unemployment insurance and assistance, widows' and orphans' contributory and noncontributory pensions, and pensions for the aged and the blind.
Voluntary action: A Report on Methods of Social Advance. By Sir William Beveridge. London, Allen \& Unwin, 1948. 420 pp .

A digest of this report will appear in the April 1949 issue of the Monthly Labor Review. 16s. net.

## Wages and Hours of Labor

The New Wage Chronology Series. Washington, U. S. Bureau of Labor Statistics, 1949. 3 pp. (Serial No. R. 1944; reprinted from Monthly Labor Review, December 1948.) Free.
Wage Chronology No. 1 (also published in December 1948 Monthly Labor Review, and reprinted as Serial No. R. 1945) shows major changes in wage rates and related wage practices put into effect by American Woolen Co. since February 1, 1939. The second chronology (in January 1949 Review, and reprinted as Serial No. R. 1946) deals with the northern cotton textile industry, 1943-48.
Union Wage Scales of Local Transit Operating Employees, Octuber 1, 1948, and October 1, 1947, by City and Classification. Washington, U. S. Bureau of Labor Statistics, 1949. 18 pp.; processed. Free.
Prevailing Wages and Hours of Employees in the Baking Industry, Honolulu, Hawaii, April 1948. Honolulu, Department of Labor and Industrial Relations, Bureau of Research and Statistics, 1948. 13 pp., charts; processed. (Bull. No. 25.)
Salaries Paid in Electric Department of [Texas] Cities Owning Electric Systems. Austin, League of Texas Municipalities, 1948. 14 pp.; processed. (Bull. No. 48.)

The Prevalence of Incentive Wages in Wisconsin. By William H. Mayer and William H. Keown. Madison, University of Wisconsin, Bureau of Business Research and Service, 1948. 41 pp. , map, charts; processed. (Wisconsin Commerce Reports, Vol. II, No. 2.) \$1.10.
The Search for Finality in Wage and Hour Litigation. By L. Metcalfe Walling. (In Fordham Law Review, New York, November 1948, pp. 200-219. \$1.)
The conclusion is reached that "almost the final word" has been spoken on overtime standards under the Fair Labor Standards Act, unless Congress changes the law.
Statistics Relative to Wages, Hours of Work, and Employees in the Various Branches of the Lithographing Industry, [Quebec], 1938-47. [Montreal?], Lithographing In-
dustry Parity Committee for the Province of Quebec, 1948. 68 pp.; processed.

Wages, Hours, and Working Conditions for Urban Municipal Employees, [Canada], October 1947. (In Labor Gazette, Department of Labor, Ottawa, December 1948, pp. 1448-1456.)

## Miscellaneous

The American Democracy-A Commentary and An Interpretation. By Harold J. Laski. New York, Viking Press, 1948. $785 \mathrm{pp} . \$ 6.50$.
The 14 chapters of the book, beginning with "The Traditions of America," cover substantially all phases of the American scene. One of the longer chapters is devoted to labor. The author, a noted scholar and leader of the British Labor Party, states that the book has been in a sense a generation in the making, beginning with his experience as a teacher in the United States 30 years ago. It was written "out of deep love of America," and he has tried "to make intelligible * * * why America arouses that deep love." The book is in considerable part a record of the author's personal impressions but it includes the results of extensive research.
American Communism-A Critical Analysis of its Origins, Development, and Programs. By James Oneal and G. A. Werner. New York, E. P. Dutton \& Co., Inc., 1947. 416 pp . Rev. ed. $\$ 5$.
Citations by Official Government Agencies of Organizations and Publications Found to be Communist or Communist Fronts. Washington, U. S. Congress, House of Representatives, Committee on Un-American Activities, 1948. 144 pp .30 cents, Superintendent of Documents, Washington.
100 Things You Should Know About Communism and Labor. Washington, U. S. Congress, House of Representatives, Committee on Un-American Activities, 1948. 21 pp . 10 cents, Superintendent of Documents, Washington.

Economics and Problems of Labor. By Philip Taft. New York, Stackpole \& Heck, Inc., 1948. 822 pp. 2d ed., rev. \$5.
Subjects covered include unemployment and its alleviation, problems of the needy aged and their solution, wages
and income, hours of labor, history and development of the labor movement, union management and policies, weapons of organized labor, employers' organizations, employer techniques unfavorable to unions, collective bargaining, peaceful settlement of labor disputes, special groups in the labor force, and the outlook for labor.
Industry and Labor, Volume I, No. 1. Geneva, International Labor Office, January 1, 1949. 40 pp. 25 cents per number, $\$ 5$ per year. Distributed in United States by Washington Branch of ILO.
With this number, the ILO resumes publication of the periodical formerly called Industrial and Labor Information, which ceased in mid-1940. The new journal will be issued twice a month.
Die Amtstätigkeit Der Arbeitsinspektorate im Jahre 1947. Vienna, Verlag Des Zentral-Arbeitsinspektorates, 1948. 105 pp. , illus.

Official composite report on the work of the 16 regional and 2 special Austrian labor inspectorates in 1947, the first to be published since 1937. Part A of the report contains a description of the organizational aspects of labor inspection as well as data on accidents and occupational diseases and accident prevention. Part B consists of 10 special reports on such topics as the textile industry in Voralberg, protection against dust, and the danger involved in use of methylbromide.

Report of the Ministry of Labor and National Service, Great Britain, for year 1947. London, 1948. 169 pp. (Cmd. 7559.) 3s. net, H. M. Stationery Office, London.

Indian Labor Problems. Edited by A. N. Agarwala. London, Arthur Probsthain; Allahabad, Kitabistan, 1947. 406 pp. 35 s .; 16 Rs.

This summary of Indian labor problems, written mainly by Indians, includes contributions on the wage structure, the trade-union movement, labor efficiency, labor legislation, social insurance, and child labor. The book's value lies in its representation of problems which Indian sociologists and economists consider important.
Facts and Figures about Economic and Social Conditions of the Philippines, 1946-47. Manila, Bureau of the Census and Statistics, 1948. 107 pp.
Includes data on unemployment, average daily wages, value of production of leading crops, and population, for the Philippines as a whole and for individual provinces.

## Current Labor Statistics

## A.-Employment and Pay Rolls

338 Table A-1: Estimated total labor force classified by employment status, hours worked, and sex
339 Table A-2: Estimated number of wage and salary workers in nonagricultural establishments, by industry division
339 Table A-3: Estimated number of wage and salary workers in manufacturing industries, by major industry group
340 Table A-4: Estimated number of wage and salary workers in nonagricultural establishments for selected States.
341 Table A-5: Estimated number of wage and salary workers in manufacturing industries, by State
342 Table A-6: Estimated number of production workers in manufacturing industries
345 Table A-7: Indexes of production-worker employment in manufacturing industries
347 Table A-8: Indexes of production-worker weekly pay rolls in manufacturing industries
350 Table A-9: Estimated number of employees in selected nonmanufacturing industries
351 Table A-10: Indexes of employment in selected nonmanufacturing industries
351 Table A-11: Indexes of weekly pay rolls in selected nonmanufacturing industries
352 Table A-12: Federal civilian employment by branch and agency group
353 Table A-13: Federal civilian pay rolls by branch and agency group
354 Table A-14: Civilian Government employment and pay rolls in Washington, D. C., by branch and agency group

355 Table A-15: Personnel and pay in military branch of Federal Government

## B.-Labor Turn-Over

355 Table B-1: Monthly labor turn-over rates (per 100 employees) in manufacturing industries, by class of turn-over
356 Table B-2: Monthly labor turn-over rates (per 100 employees) in selected groups and industries
C.-Earnings and Hours

358 Table C-1: Hours and gross earnings in manufacturing and nonmanufacturing industries
369 Table C-2: Hours and gross earnings of production workers in manufacturing industries for selected States and areas.
371 Table C-3: Estimated average hourly earnings, gross and exclusive of overtime, of production workers in manufacturing industries
372 Table C-4: Gross average weekly earnings of production workers in selected industries, in current and 1939 dollars
372 Table C-5: Gross and net spendable average weekly earnings of production workers in manufacturing industries, in current and 1939 dollars
373 Table C-6: Average earnings and hours on private construction projects, by type of firm

## D.-Prices and Cost of Living

375 Table D-1: Consumers' price index for moderate-income families in large cities, by group of commodities
376 Table D-2: Consumers' price index for moderate-income families, by city, for selected periods
377 Table D-3: Consumers' price index for moderate-income families, by city and group of commodities
378 Table D-4: Indexes of retail prices of foods, by group, for selected periods
379 Table D-5: Indexes of retail prices of foods, by city
380 Table D-6: Average retail prices and indexes of selected foods
381 Table D-7: Indexes of wholesale prices, by group of commodities, for selected periods
383 Table D-8: Indexes of wholesale prices, by group and subgroup of commodities

## E.-Work Stoppages

383 Table E-1: Work stoppages resulting from labor-management disputes

## F.-Building and Construction

383 Table F-1: Expenditures for new construction
384 Table F-2: Value of contracts awarded and force-account work started on federally financed new construction, by type of construction
385 Table F-3: Urban building authorized, by principal class of construction and by type of building
386 Table F-4: New nonresidential building authorized in all urban places, by general type and by geographic division
387 Table F-5: Number and construction cost of new permanent nonfarm dwelling units started, by urban or rural location, and by source of funds

Noтe.-Earlier figures in many of the series appearing in the following tables are shown in the Handbook of Labor Statistics, 1947 Edition (BLS Bulletin 916). The Handbook also contains descriptions of the techniques used in compiling these data and information on the coverage of the different series. For convenience in referring to the historical statistics, the tables in this issue of the Monthly Labor Review are keyed to tables in the Handbook.


[^48]A: Employment and Pay Rolls
Table A-1: Estimated Total Labor Force Classified by Employment Status, Hours Worked, and Sex


[^49]Note.-Explanatory notes outlining briefly the concepts, methodology, size of the reporting sample, and sources used in preparing data presented in tables A-2 through A-15 are contained in the Bureau's monthly mimeographed release, "Employment and Pay Rolls-Detailed Report," which is available upon request.

Table A-2: Estimated Number of Wage and Salary Workers in Nonagricultural Establishments, by Industry Division ${ }^{1}$
[In thoussands]

| Industry division | 1949 | 1948 |  |  |  |  |  |  |  |  |  |  |  | Annual average |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Jan. | Dec. | Nov. | Oct. | Sept. | Aug. | July | June | May | Apr. | Mar. | Feb. | Jan. | 1943 | 1939 |
| Total estimated employment | 44,329 | 46, 087 | 45,735 | 45,877 | 45,889 | 45, 478 | 45, 098 | 45,009 | 44,616 | 44, 299 | 44, 600 | 44, 279 | 44, 603 | 42, 042 | 30, 287 |
| Manufacturing | 15, 880 | 16,278 | 16,455 | 16,597 | 16,697 | 16, 441 | 16,172 | 16,115 | 15,892 | 15, 950 | 16,269 | 16, 183 | 16, 267 | 17, 381 | 10,078 |
| Mining | 924 | 939 | 938 | 941 | 948 | 952 | 922 |  | 935 | 817 | 924 | 914 | 922 | 917 | 845 |
| Anthracite-...- | 82 419 | $\begin{array}{r}82 \\ 423 \\ \hline\end{array}$ | 82 421 | 82 422 | 82 426 | 83 426 | $\begin{array}{r}81 \\ 395 \\ \hline\end{array}$ | 82 426 | 81 423 | 82 309 | 82 419 | 81 | 81 | 83 | 89 |
| Metal | 100 | 101 | 421 99 | 103 | 100 | 426 99 | 103 | 104 | 102 | 103 | 102 | 101 | 100 | 126 | 388 103 |
| Quarrying and nonmetallic | 86 | 93 | 95 | 96 | 98 | 98 | 97 | 97 | 95 | 93 | 90 | 87 | 89 | 90 | 103 76 |
| Crude petroleum and natur duction ${ }^{2}$ | 237 | 240 | 241 | 238 | 242 | 246 | 246 | 241 | 234 | 230 | 231 | 230 | 230 | 181 | 189 |
| Contract construction ${ }^{8}$ | 1,906 | 2,078 | 2,162 | 2,206 | 2,239 | 2,253 | 2, 219 | 2,173 | 2,052 | 1,933 | 1,805 | 1,731 | 1,871 | 1, 567 | 1,150 |
| Transportation and public util | 3, 978 | 4,067 | 4, 066 | 4, 091 | 4,092 | 4,139 | 4, 136 | 4,105 | 4,042 | 3, 974 | 4, 032 | 4, 019 | 4, 020 | 3,619 | 2, 912 |
| Transportation.- | 2, 729 | 2,810 | 2,809 | 2, 836 | 2,832 | 2,869 | 2,873 | 2, 860 | 2, 809 | 2, 744 | 2,808 | 2, 802 | 2,809 | 2, 746 | 2,080 |
| Communication | 734 | 740 | 740 | 740 | 741 | 747 | 745 | 734 | 731 | 731 | 728 | 723 | 719 | 488 | 391 |
| Other public utilitie | 515 | 517 | 517 | 515 | 519 | 523 | 518 | 511 | 502 | 499 | 496 | 494 | 492 | 385 | 441 |
| Trade.- | 9, 625 | 10,380 | 10,036 | 9, 889 | 9, 733 | 9, 660 | 9, 646 | 9,670 | 9,617 | 9, 576 | 9,598 | 9,520 | 9,622 | 7,322 | 6,705 |
| Finance | 1,709 | 1,723 | 1, 720 | 1,723 | 1,732 | 1,761 | 1,754 | 1,726 | 1,716 | 1,704 | 1,697 | 1,690 | 1, 680 | 1, 401 | 1,382 |
| Service | 4,546 | 4,628 | 4, 644 | 4,641 | 4,647 | 4,622 | 4,645 | 4,663 | 4,738 | 4,768 | 4, 729 | 4,730 | 4,723 | 3,786 | 3,228 |
| Government | 5,761 | 5,994 | 5,714 | 5,789 | 5,801 | 5,650 | 5,604 | 5,607 | 5,624 | 5,577 | 5,546 | 5,492 | 5,498 | 6,049 | 3,987 |
| Federal | 1,876 | 2, 156 | 1,856 | 1,875 | 1,873 | 1,855 | 1,837 | 1,804 | 1, 788 | 1,771 | 1,758 | 1,746 | 1,743 | 2, 875 | 898 |
| State and local | 3,885 | 3,838 | 3,858 | 3,914 | 3,928 | 3,795 | 3,767 | 3,803 | 3,836 | 3,806 | 3,788 | 3,746 | 3,755 | 3,174 | 3,089 |

1 Data are based upon reports submitted by cooperating establishments and therefore differ from employment information obtained by household interviews, such as the Monthly Report on the Labor Force. The Bureau of Labor Statistics estimates of employment in nonagricultural establishments differ from those on the Monthly Report on the Labor Force (table $\mathrm{A}-1$ ) in several important respects. The Bureau of Labor Statistics data cover all full-and part-time wage and salary workers in private nonagriculcover all full-and part-time wage and salary workers in private nonagricul-
tural establishments who worked or received pay during the pay period ending nearest the 15th of the month, in Federal establishments during the pay period ending just before the first of the month, and in State and local government during the pay period ending on or just before the last of the month. Persons who worked in more than one establishment during the reporting period would be counted more than once. Proprietors, self-employed persons, domestic servants, unpaid family workers, and personnel of the armed
forces are excluded. These estimates have been adjusted to levels indicated by Federal Security Agency data through 1946 and have been carried forward from 1946 bench-mark levels, thereby providing consistent series. Data for the three most recent months are subject to revision.
2 Includes well drilling and rig building.
${ }_{3}$ These figures cover all employees of private firms whose major activity is construction. They are not directly comparable with the construction employment estimates presented in table 2, p. 1111, of the June 1947 issue of this publication, which include self-employed persons, working proprietors, and force-account workers and other employees of nonconstruction firms or public bodies who engage in construction work, as well as all employees of construction firms. An article presenting this other construction employment series appeared in the August 1947 issue of this publication, and will appear quarterly thereafter.

Table A-3: Estimated Number of Wage and Salary Workers in Manufacturing Industries, by Major Industry Group ${ }^{1}$
[In thousands]

| Major industry group | 1949 | 1948 |  |  |  |  |  |  |  |  |  |  |  | Annual average |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Jan. | Dec. | Nov. | Oct. | Sept. | Aug. | July | June | May | Apr. | Mar. | Feb. | Jan. | 1943 | 1939 |
| All manufacturing | 15, 880 | 16,278 | 16,455 | 16,597 | 16,697 | 16, 441 | 16,172 | 16, 115 | 15, 892 | 15, 950 | 16, 269 | 16, 183 | 16, 267 | 17,381 | 10,078 |
| Durable goods | 8, 006 | 8,228 | 8,299 | 8,318 | 8, 294 | 8,188 | 8,165 | 8,122 | 8, 114 | 8, 164 | 8,258 | 8,167 | 8,256 | 10,297 | 4,357 |
| Nondurable goods | 7,874 | 8,050 | 8,156 | 8,279 | 8,403 | 8,253 | 8,007 | 7, 993 | 7, 778 | 7,786 | 8,011 | 8,016 | 8,011 | 7,084 | 5,720 |
| Iron and steel and their products | 1,894 | 1,936 | 1, 952 | 1, 955 | 1,945 | 1,928 | 1,897 | 1,904 | 1, 894 | 1,897 | 1,929 | 1,920 | 1, 925 | 2,034 | 1,171 |
| Electrical machinery | 714 | 730 | 735 | 731 | 725 | 716 | 714 | 726 | 727 | 742 | 756 | 763 | 767 | 914 | 355 |
| Machinery, except electrical | 1,537 | 1,561 | 1,563 | 1,569 | 1,569 | 1,564 | 1,571 | 1,577 | 1,568 | 1,562 | 1,587 | 1,591 | 1,583 | 1,585 | 690 |
| Transportation equipment, except automobiles | 579 | 585 | 588 | 583 | 572 | 542 | 561 | 562 | 565 | 589 | 589 | 589 | 598 | 2,951 | 193 |
|  | 972 | 985 | 973 | 982 | 985 | 953 | 984 | 918 | 964 | 979 | 985 | 914 | 989 | , 845 | 466 |
| Nonferrous metals and their products. | 454 | 468 | 474 | 473 | 469 | 465 | 457 | 469 | 467 | 475 | 482 | 478 | 478 | 525 | 283 |
| Lumber and timber basic products.... | 803 | 875 | 908 | 918 | 930 | 930 | 912 | 881 | 851 | 833 | 827 | 813 | 816 | 589 | 465 |
| Furniture and finished lumber products..- | 528 | 549 | 562 | 562 | 558 | 552 | 542 | 550 | 548 | 561 | 576 | 581 | 580 | 429 | 385 |
| Stone, clay, and glass products...-.-------- | 525 | 539 | 544 | 545 | 541 | 538 | 527 | 535 | 530 | 526 | 527 | 518 | 520 | 422 | 349 |
| Textile-mill products and other fiber manufactures. | 1,322 | 1,357 | 1,368 | 1,371 | 1,384 | 1,397 | 1,364 | 1,418 |  |  |  | 1,428 | 1, 413 |  |  |
| Apparel and other finished textile products. | 1,309 | 1,324 | 1,338 | 1,353 | 1,348 | 1,329 | 1,235 | 1,263 | 1,247 | 1,268 | 1,334 | 1,333 | 1,311 | 1,080 | 894 |
| Leather and leather products....-.-.-...... | 410 | 409 | 408 | 421 | 425 | 429 | 421 | 1, 419 | 1. 404 | 418 | 442 | 1448 | , 445 | , 378 | 383 |
|  | 1,719 | 1.787 | 1,840 | 1,931 | 2, 069 | 1,957 | 1,903 | 1, 786 | 1,610 | 1,562 | 1,655 | 1,658 | 1,688 | 1,418 | 1,192 |
| Tobacco manufactures. | 96 | 100 | 103 | 103 | 101 | 99 | 96 | 98 | 97 | 99 | 100 | 101 | 101 | 103 | 105 |
| Paper and allied products | 481 | 491 | 493 | 491 | 487 | 479 | 476 | 477 | 476 | 476 | 480 | 479 | 482 | 389 | 320 |
| Printing, publishing, and allied industries.- | 728 | 738 | 734 | 735 | 725 | 720 | 716 | 719 | 718 | 718 | 722 | 724 | 726 | 549 | 561 |
| Chemicals and allied products .-.---------- | 783 | 788 | 790 | 789 | 785 | 775 | 751 | 762 | 759 | 767 | 773 | 773 | 774 | 873 | 421 |
| Products of petroleum and coa | 236 | 240 | 242 | 240 | 245 | 246 | 247 | 245 | 242 | 238 | 238 | 237 | 238 | 170 | 147 |
| Rubber products | 241 | 246 | 249 | 248 | 246 | 245 | 240 | 243 | $\stackrel{243}{ }$ | 246 | 253 | 257 | 259 | 231 | 150 |
| Miscellaneous industries. | 549 | 570 | 591 | 597 | 588 | 577 | 558 | 563 | 566 | 569 | 579 | 578 | 574 | 563 | 311 |

[^50]and have been carried forward from 1946 bench-mark levels, thereby providing consistent series. Data for the three most recent montrs are subject to revision.

Table A-4: Estimated Number of Wage and Salary Workers in Nonagricultural Establishments for Selected States ${ }^{1}$
[In thousands]

| Region and State | 1948 |  |  |  |  |  |  |  |  |  |  |  | 1947 | Annual average1943 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Dec. | Nov. | Oct. | Sept. | Aug. | July | June | May | Apr. | Mar. | Feb. | Jan. | Dec. |  |
| New England: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Maine | 262 | 263 | 269 | 275 | 280 | 276 | 270 | 259 | 253 | 261 | 261 | 264 | 270 | 301 |
| Massachusett | 1, 755 | 94 1,727 | - 94 | 95 1,735 | 96 1,726 | 95 1,714 | 96 1,731 | 95 | 94 | 94 | 94 | 94 | 97 | 91 |
| Rhode Island | 1, 287 | 1, 288 | 1, 288 | 1, 288 | $\begin{array}{r}1,726 \\ \hline 285\end{array}$ | 1,714 | 1,731 287 | 1,720 287 | 1,701 288 | 1,711 | 1,706 | 1,711 | 1,773 | 1,734 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| New Jersey | 1,585 | 1,584 | 1,594 | 5,500 1,604 | 5,461 1,599 | 5,405 1,589 | 5,416 1,592 | 5,385 1,576 | 5,380 1,568 | 5,400 1,563 | 5,375 1,553 | 5,397 | 5,575 | 5, 268 |
|  |  |  |  |  |  |  |  |  |  |  |  | 1,561 3,566 | 1,604 | 1,732 3,480 |
|  |  |  |  |  |  |  |  |  |  |  |  | 3,566 | 3,662 | 3,480 |
| Illinois. | 3,256 | 3,230 | 3,228 | 3,218 | 3,195 | 1,205 | 1,207 3,174 | 1,197 3,126 | 1,183 | 1,194 3,144 | 1,180 3,151 | 1,186 3,172 | 1,221 3,225 | 1,191 |
|  |  |  |  | 1,018 | 1,007 | 1,016 | ${ }^{993}$ |  |  | - 974 | - 972 | 3,172 | 3, 2296 | 1,957 885 |
|  |  |  |  |  | 823 |  | 803 |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Maryland. | 724 | 723 | 719 | 720 | 717 | 708 | 707 | 698 | 686 | 685 | 676 | 682 | 698 | 756 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Idaho | 131 | 132 | 134 | 132 | 122 | 121 | 118 | 117 | 115 | 115 | 115 | 118 | 125 | 101 |
| New Mexico | 129 | 129 | 129 | 129 | 128 | 127 | 125 | 123 | 120 | 119 | 117 | 118 | 121 | 95 |
| Arizona | 159 | 156 | 156 | 154 | 153 | *155 | *156 | ${ }^{*} 156$ | ${ }^{*} 156$ | *155 | *155 | *155 | *156 | 142 |
| Utah | 183 | 186 | 191 | 195 | 189 | 189 | 184 | 180 | 171 | 173 | 171 | 173 | 181 | 8187 |
| Pacific: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Washington | 672 | 676 | 685 | 688 | 677 | 674 | 655 | 641 |  |  |  | 651 |  |  |
| Californi | 3,113 | 3, 085 | 3,122 | 3,160 | 3,146 | 3,109 | 3,077 | 3,046 | 3,024 | 3, 029 | 3, 024 | 3,037 | 3,122 | $\begin{array}{r} 726 \\ 3,065 \end{array}$ |

[^51]Table A-5: Estimated Number of Wage and Salary Workers in Manufacturing Industries, by State ${ }^{1}$
[In thousands]

| Region and State | 1948 |  |  |  |  |  |  |  |  |  |  |  | 1947 | Annual average 1943 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Dec. | Nov. | Oct. | Sept. | Aug. | July | June | May | Apr. | Mar. | Feb. | Jan. | Dec. |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Maine ${ }^{\text {8 }}$ | 109.3 | 111.2 | 113.7 | 117.9 | 120.2 | 116. 5 | 115.2 | 108.2 | 106. 7 | 115.2 | 116.5 | 116.9 | 118.5 | 144.4 |
| New Hampshir | 79.2 | 80.4 | 82.1 | 82.1 | 83.6 | 82.1 | 82.7 | 81.6 | 82.6 | 84.4 | 85.6 | 85.8 | 85.3 | 77.0 |
| Vermont ${ }^{8}$ | 36.2 | 36.6 | 36.7 | 37.3 | 37.9 | 37.1 | 37.8 | 37.7 | 38.0 | 38.7 | 38.8 | 39.1 | 40.0 | 41.3 |
| Massachusetts | 715.7 | 722.8 | 727.9 | 731.3 | 725.6 | 710.0 | 726.1 | 723.4 | 729.7 | 745. 7 | 745.9 | 747.3 | 757.2 | 835.6 |
| Rhode Island | 139.5 | 142.1 | 142.8 | 144.7 | 144.1 | 144.8 | 146.5 | 147.0 | 149.9 | 153.6 | 154.5 | 153.5 | 154.6 | 169.4 |
| Connecticut ${ }^{3}$ | 392.4 | 396. 5 | 397.0 | 397.1 | 392.1 | 393.3 | 396.5 | 401.1 | 406.4 | 412.5 | 412.1 | 413.2 | 417.8 | 504.2 |
| Middle Atlantic: New York | 1,839. 1 | 1,870.8 | 1,884. 1 | 1,888. 5 | 1,869. 6 | 1,816.5 | 1,831.7 | 1,829, 0 | 1,850.4 | 1,902.6 | 1,906. 4 | 1, 905.8 | 1, 924.6 | 2,115. 7 |
| New Jersey | 1, 724.1 | 1,870.8 | 1, 747.8 | 1,888.5 | 1, 743.9 | 1,732.8 | 1,741.8 | 1, 740.7 | 1, 746.0 | 1, 753.7 | 1, 757.8 | 1, 757.3 | 1,764.0 | 2,951.1 |
| Pennsylvania | 1. 498.9 | 1,504.0 | 1,508.1 | 1,508.1 | 1, 498.0 | 1,481.2 | 1,495.4 | 1,489.4 | 1, 497.5 | 1,514.3 | 1,513.1 | 1,515.6 | 1,527.3 | 1,579.3 |
| East North Central: Ohio | 1,210.6 |  | 1,226. 5 | 1,231.8 | 1,224. 5 | 1,216.4 | 1,228. 2 | 1,221.3 | 1,230. 7 | 1,244.0 | 1,243.9 | 1,246.0 | 1,250. 9 |  |
| Indiana | 1, 542.9 | 1, 224.6 | 1, $\begin{array}{r}\text { 551. } 6\end{array}$ | $1,231.8$ 569.4 | 1, 542.7 | 1, $\begin{array}{r}\text { 544.1 }\end{array}$ | 1, 545.5 | 1, 5441.9 | 1, 540.0 | 1, 5 552.8 | 1, 5 553.4 | 1, 246.0 | 1, 555.0 | 1, 633.1 |
| Illinois. | 1, 234.5 | 1. 242.7 | 1,243.3 | 1,243.8 | 1,231. 0 | 1,227.4 | 1,228. 7 | 1,203. 5 | 1,198.0 | 1,253. 5 | 1,267.0 | 1,271.0 | 1, 273.6 | 1,263.7 |
| Michigan | 988.5 | 993.4 | 1, 002.0 | 1, 004.9 | 987.8 | 996.8 | 962.7 | 998.5 | 1,002. 7 | 1, 010.8 | 970.7 | 1, 019.6 | 1, 024.2 | 1,181.8 |
| W isconsin ${ }^{3}$ | 426.5 | 430.7 | 1, 431.8 | 445.9 | 434.5 | 447.9 | 429.7 | 420.0 | 426.3 | 1,432.5 | 434.2 | 1, 433.9 | 436.1 | 442.8 |
| West North Central: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| $\text { Minnesota }{ }^{3}$ | 197.5 | 200.8 | 201.9 | 210.2 | 210.0 | 206.6 | 203.3 | 190.9 | 188.7 | 198.0 | 199.0 | 200.0 | 202.0 | 215.1 |
| Iowa ${ }^{3}$ | 155. 7 | 153.8 | 153.8 | 153.9 | 153.0 | 152.1 | 149.8 | 135. 1 | 133.8 | 153.7 | 154.7 | 155.5 | *156. 2 | 161.7 |
| Missonri ${ }^{\text {8 }}$ | 345. 5 | 347.2 | 349.8 | 347.3 | 349.1 | 345.7 | 343.9 | 339.3 | 339.9 | 346.6 | 349.2 | 350.3 | 351.7 | 412.9 |
| North Dakot | 6. 6 | 6. 9 | 7.0 | 6. 8 | 6.9 | 7.0 | 7.1 | 6.7 | 6.4 | 6.3 | 6.4 | 6.6 | 6. 7 | 5. 6 |
| South Dakot | 12. 0 | 12. 2 | 11.9 | 11.6 | 11.7 | 11.8 | 11.9 | 11.3 | 11.3 | 11.0 | 11.1 | 11.2 | 11.3 | 10.3 |
| Nebraska | 42.9 | 44.1 | 43.6 | 42.4 | 43.1 | 43.6 | 43.0 | 36.1 | 34.9 | 42.4 | 43.0 | 43.8 | 46.3 | 60.8 |
| Kansas ${ }^{\text {3 }}$ | 87.8 | 87.8 | 88.3 | 87.5 | 87.6 | 87.6 | 87.6 | 80.7 | 75.4 | 79.8 | 79.8 | 81.6 | 83.1 | 144.2 |
| South Atlantic: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Maryland | 227. 7 | 45.3 233.0 | 46.3 235.3 | 48.9 242.4 | 48.2 239.2 | 46.6 232.8 | 46.6 229.4 | 45.8 228.5 | 46.6 228.2 | 46.5 228.9 | 45.9 228.5 | 45.7 226.9 | 46.1 229.6 | 55.2 348.8 |
| District of Col | 17.1 | 17.0 | 16.9 | 17.0 | 16.7 | 17.2 | 17.1 | 17.2 | 17.4 | 17.1 | 16.8 | 17.3 | 17.5 | 15.6 |
| Virginia | 211.3 | 215.5 | 218. 4 | 217.7 | 214.5 | 211.5 | 211.1 | 210.8 | 212.8 | 213.7 | 213.5 | 213.6 | 215.1 | 231.9 |
| West Virginia | 132.3 | 132. 7 | 134.1 | 132.9 | 133.7 | 133.3 | 133.9 | 132.4 | 131.9 | 130.9 | 130.3 | 132.4 | 132.5 | 132.2 |
| North Carolins | 367.3 | 369.3 | 370.8 | 375.4 | 378.9 | 362.9 | 381.7 | 381.4 | 382.6 | 385.8 | 380.4 | 382.7 | 380.8 | 399.9 |
| South Carolina | 193.0 | 193.6 | 193.8 | 194.3 | 196.9 | 195.8 | 200.5 | 199.3 | 199.3 | 200.5 | 196.9 | 198.3 | 198.9 | 191.8 |
| Georgia ${ }^{\text {3 }}$ | 271.8 | 277.7 | 280.0 | *279.8 | *280.3 | *273. 7 | *276.3 | *275. 1 | *276.6 | *281. 1 | *280.1 | *281.3 | *280. 0 | 302.9 |
| Florida ${ }^{3}$ | 99.7 | 97.3 | 90.7 | 89.9 | 88.2 | 88.0 | 90.0 | 93.2 | 96.5 | 99.4 | 98.9 | 100.3 | 97.8 | 136.0 |
| East South Central: |  |  |  |  |  |  |  |  |  |  |  |  |  | 131.7 |
| Tennessee | 245.1 | 128.6 250.5 | 256. 3 | 256. 3 | 258.9 | 255. 6 | 255. 7 | 258. 0 | 257.7 | 259.9 | 256.1 | 255. 4 | 254.7 | 255.9 |
| Alabama ${ }^{\text {3 }}$ | 224.8 | 228.7 | 229.1 | 227.1 | 228.3 | 228.9 | 227.4 | 227.2 | 226.5 | 230.9 | 230.2 | 232.7 | 230.9 | 258.5 |
|  | 86.6 | 87.0 | 87.2 | 87.4 | 90.6 | 91.3 | 89.5 | 88.1 | 88.6 | 90.0 | 90.5 | 95.5 | 95.7 | 95.1 |
| West South Central: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Louisiana ${ }^{\text {- }}$ | 150.9 | 19.0 152.6 | 153.6 | *155.7 | *155.6 | *150.0 | *148.7 | *147.9 | *148. 3 | 73.0 $* 145.9$ | 69.8 $* 142.6$ | *150.4 | *150.9 | 166. 1 |
| Oklahoma ${ }^{3}$ | 66.7 | 67.4 | 67.9 | 67.2 | 66.9 | 66.7 | 68. 9 | 65.2 | 65. 5 | 62.6 | 62.6 | 64.0 | 64.7 | 99.7 |
| Mountain: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Montana | 18.1 | 18.6 | 18.8 | 18.1 | 18.0 | 18.1 | 17.7 | 17.1 | 17.1 | 17.2 | 17.3 | 17.7 | 18.5 | 15.7 |
| Idaho ${ }^{3}$ | 20.9 | 23.4 | 26.0 | 24.8 | 20.1 | 20.6 | 18.8 | 18.1 | 16.7 | 16.9 | 17.6 | 18.2 | 19.5 | 15.9 |
| W yoming | 6.4 | 7.2 | 7.4 | - 6.8 | 6.8 | 6.8 | 6.8 | 6.5 | 6.3 | 6.2 | 6. 1 | 6.1 | 7.0 | 5.1 |
| Colorado. | 55.9 | 59.2 | 60.2 | 58.3 | 56.9 | 56.5 | 56.3 | 53.3 | 54.0 | 55.5 | 55.1 | 57.2 | 61.0 | 67.5 |
| New Mexico ${ }^{\text {3 }}$ | 9. 9 | 10.1 | 10.1 | 10.4 | 10.5 | 10.4 | 10.0 | +9.3 | 8.8 | 8.2 | 8.2 | 8.3 | 8.6 | 7.9 |
| Arizona ${ }^{8}$ | 15. 2 | 15.1 | 14.8 | *13.8 | *15. 1 | *15.8 | *15.4 | *15.2 | *14.9 | *14. 7 | 14.6 | 14.7 | 14.7 | 19.4 |
| Utah ${ }^{3}-{ }^{\text {a }}$ | 28.2 | 30.9 | 31. 6 | 32.8 | 29.1 | 29.4 3.4 | 26.7 3.4 | 25.2 | 23.3 | 24.4 | 24.1 | 25.1 | 26.9 | 33.5 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Washington | 176. 9 | 186.0 | 191.6 | 190.5 | 183.1 | 179.9 | 163.4 | 152.4 | 175.3 | 173.7 | 173.0 | 173.0 | 174.6 | 285.6 |
| Oregon | 109.9 | 113.3 | 118.8 | 121.5 | 121.2 | 117.3 | 112.8 | 110.7 | 110.2 | 110.2 | 109.2 | 109.8 | 111.4 | 192.1 |
| California | 725.1 | 737.1 | 768.0 | 801.7 | 771.6 | 741.3 | 713.0 | 696.3 | 695.8 | 700.4 | 703.5 | 705.0 | 715.1 | 1,165.5 |

${ }^{1}$ Revised data in all except the first three columns are identified by an asterisk for the first month's publication of such data. Comparable series, January 1943 to date are a vailable upon request to U. S. Department of Labor or cooperating State Agency listed below.
${ }^{2}$ Average for 1943 may not be strictly comparable with current data for those States now based on Standard Industrial Classification.
${ }^{3}$ Series based on Standard Industrial Classification. Cooperating State Agencies:

Alabama-Department of Industrial Relations, Montgomery 5.
Arizona-Unemployment Compensation Division, Employment Security Commission, Phoenix.
Arkansas-Employment Security Division, Department of Labor, Little Rock
California-Division of Labor Statistics and Research, Department of Industrial Relations, San Francisco 3.
Connecticut-Employment Security Division, Department of Labor and Factory Inspection, Hartford 15.
Delaware-Federal Reserve Bank of Philadelphia, Philadelphia 1, Pa.
Florida-Unemployment Compensation Division, Industrial Commis-Florida-Unemploy
Sion, Tallahassee.
Georgia-Employment Security Agency, Department of Labor, Atlanta Idaho-Employment Security Agency, Industrial Accident Board, Boise.
Illinois-Department of Labor, Chicago 1.
Indiana-Employment Security Division, Indianapolis 4.
Iowa-Employment Security Commission, Des Moines 8.
Kansas-State Labor Department, Topeka.
Kentucky-Department of Economic Security, Frankfort.
Louisiana-Division of Employment Security, Department of Labor, Baton Rouge 4.
Maine-Unemployment Compensation Commission, Augusta.
Maryland-Department of Employment Security, Baltimore 2.

Massachusetts-Division of Statistics, Department of Labor and In dustries, Boston 10.
Michigan-Department of Labor and Industry, Lansing 13.
Minnesota-Division of Employment and Security, Department of Social Security, St. Paul 1.
Missouri-Division of Employment Security, Department of Labor and Industrial Relations, Jefferson City.
Montana-Unemployment Compensation Commission, Helena.
Nebraska-Division of Placement and Unemployment Insurance, Department of Labor, Lincoln 1.
Nevada-Employment Security Department, Carson City.
New Hampshire-Unemployment Compensation Division, Bureau of Labor, Concord.
New Jersey-Department of Labor, Trenton 8.
New Mexico-Employment Security Commission, Albuquerque.
New York-Division of Placement and Unemployment Insurance, Department of Labor, New York 17.
North Carolina-Department of Labor, Raleigh.
Oklahoma-Employment Security Commission, Oklahoma City 2.
Pennsylvania-Federal Reserve Bank of Philadelphia, Philadelphia 1 (manufacturing); Bureau of Research and Information, Department of Labor and Industry, Harrisburg (nonmanufacturing).
Rhode Island-Division of Census and Information, Department of Rhode Island-Divisio
Labor, Providence 2.
Tennessee-Department of Employment Security, Nashville 3.
Texas-Bureau of Business Research, University of Texas, Austin 12.
Utah-Department of Employment Security, Industrial Commission, Salt Lake City 13.
Vermont-Unemployment Compensation Commission, Montpelier.
Virginia-Division of Research and Statistics, Department of Labor and Industry, Richmond 21.
Washington-Employment Security Department, Olympia.
Wisconsin-Statistical Department, Industrial Commission, Madison 3.
Wyoming-Employment Security Commission, Casper.

Table A-6: Estimated Number of Production Workers in Manufacturing Industries ${ }^{1}$
[In thousands]


See footnotes at end of table.

Table A-6: Estimated Number of Production Workers in Manufacturing Industries ${ }^{1}$-Continued
[In thousands]

| Industry group and industry | 1949 | 1948 |  |  |  |  |  |  |  |  |  |  |  | Annual average |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Jan. | Dec. | Nov. | Oct. | Sept. | Aug. | July | June | May | Apr. | Mar. | Feb. | Jan. | 1943 | 1939 |
| Durable goods-Continue |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Nonferrous metals and their products ${ }^{2}$ Con. Lighting equipment |  | 30.9 | 31.8 | 31.9 | 32.2 | 31.6 | 60.2 | 30. 9 | 30. 4 | 31. 3 | 33.1 | 33.9 | 33.6 | 28.2 |  |
| Aluminum manufactures..-...-- ${ }_{\text {She }}$ St- |  | 40.6 | 40.9 | 40.1 | 38.5 | 39.5 | 59.3 | 42.3 | 42.7 | 44.2 | 45. 2 | 45.2 | 45. 3 | 79.4 | $\begin{array}{r} 20.5 \\ 23.5 \end{array}$ |
| sheet-metal work, not elsewhere classified |  | 36.6 | 37.1 | 37.3 | 37.0 | 37.3 | 36.8 | 36.4 | 36.7 | 37.5 | 38.3 | 38.4 | 38.8 | 37.9 | 18.7 |
| Lumber and timber basic products ${ }^{2}$ | 720 | 788 | 821 | 831 | 843 | 844 | 829 | 799 | 772 | 754 | 749 | 736 | 738 | 535 | 420 |
| Sawmills and logging camps |  | 635.2 | 667.2 | 678.2 | 691. 4 | 692.1 | 681.1 | 654.5 | 627.7 | 611.0 | 606.9 | 594.1 | 597.7 | 435.8 | 313.7 |
| Planing and plywood mills |  | 152.9 | 154.1 | 152.8 | 152.1 | 152.5 | 148.3 | 145.8 | 144.0 | 142.7 | 142.3 | 141.1 | 140.8 | 99.2 | 79.1 |
| Furniture and finished lumber products ${ }^{2}$-- | 440 | 462 | 470 | 470 | 466 | 461 | 452 | 459 | 458 | 470 | 485 | 490 | 489 | 366 | 328 |
| Mattresses and bedsprings...---------- |  | 33.4 | 35.7 | 37.1 | 36. 8 | 35.2 | 33.2 | 33. 4 | 33.3 | 34.9 | 37.0 | 38.6 | 38.7 | 21.7 | 20.5 |
| Furniture |  | 254.1 | 256.5 | 255. 6 | 252.5 | 249.7 | 244.4 | 248.1 | 249.6 | 256.2 | 263.7 | 266.2 | 265.1 | 200. 0 | 177.9 |
| W ooden boxes, other than cigar--. |  | 34.8 18.8 | 35.4 <br> 19.5 <br> 1 | 34.9 19.2 | 34.4 19.5 | 34.6 19.4 | 35. 6 | 35.6 | 34.8 | 36. 0 | 37.0 | 37.6 | 37.8 | 35. 4 | 28.3 |
| Caskets and other morticians' goo |  | 18.8 16.8 | 19.5 | 19.2 17.1 | 19.5 17.3 | 19.4 17.7 | 18.9 17.2 | 19.4 16.8 | 19.9 | 20.3 | 20.9 | 20.7 | 21. 0 | 14.2 | 13.9 |
| Wood, turned and shaped |  | 16.8 33.4 | 17.0 33.9 | 17.15 34.5 | 17.3 34.3 | 17.7 34.6 | 17.2 33.6 | 16.8 35.4 | 16.5 34.3 | 16.2 35.0 | 16.7 35.7 | 16.7 35.1 | 17.6 34.3 | 12.4 26.4 | 12.6 24.6 |
|  |  | 462 | 467 | 468 | 464 | 461 | 450 | 458 | 454 | 451 | 452 | 443 | 445 | 360 | 294 |
|  |  | 118.8 | 121.8 | 123.2 | 122.9 | 119.7 | 114.9 | 120.5 | 121.5 | 121.8 | 121.7 | 118.8 | 121.0 | 99.8 | 71.4 |
| glass |  | 14.7 | 14.7 | 14.4 | 13.9 | 13.9 | 14.3 | 14.2 | 14.1 | 14.2 | 14.4 | 14.3 | 14.4 | 11.3 | 10.0 |
|  |  | 37.0 | 37.2 | 36.9 | 36.2 | 36.9 | 37.0 | 36.5 | 36.0 | 35.5 | 35.3 | 35.2 | 35.2 | 27.1 | 24.4 |
| Brick, tile, and terra cot |  | 83.1 | 83.5 | 83.5 | 83.6 | 83.4 | 81.9 | 82.1 | 79.6 | 77.9 | 77.3 | 75.3 | 78.0 | 52.5 | 58.0 |
| Pottery and related prod |  | 61.6 | 61.5 | 61.0 | 60.3 | 60.0 | 57.0 | 59.0 | 58.5 | 57.9 | 58.9 | 57.8 | 57.4 | 45.0 | 33.8 |
|  |  | 7.5 | 7.8 | 7.9 | 7.8 | 7.8 | 7.8 | 7.6 | 7.5 | 7.5 | 7.6 | 7.6 | 7.5 | 4.5 | 4.9 |
| Wallboard, plaster (except gypsum), and mineral wool. <br> Lime |  | 14.8 | 14.9 | 14.8 | 14.7 | 14.7 | 14.7 | 14.5 | 14.5 | 14.5 | 14.3 | 14.4 |  |  |  |
|  |  | 10.7 | 10.7 | 10.7 | 10.8 | 10.8 | 10.8 | 10.7 | 11.0 | 11.1 | 10.9 | 10.7 | 10.7 | 9.3 | 9. 5 |
| Marble, granite, slate, and other prod- |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.5 |
|  |  | 19.2 | 19.0 | 19.0 | 18.9 | 19.0 | 18.7 | 18.5 | 18.1 | 17.9 | 18.4 | 17.9 | 18.0 | 12.5 | 18.5 |
| Abrasives |  | 20.7 | 20.5 | 20.6 | 20.5 | 20.7 | 21.1 | 20.5 | 20.1 | 20.1 | 20.1 | 19.7 | 15.8 | 23.4 | 7.7 |
| Asbestos product |  | 25.1 | 25.6 | 25.7 | 24.9 | 25.1 | 24.1 | 25.0 | 25.1 | 25.2 | 25.3 | 25.1 | 25.1 | 22.0 | 15.9 |
| Nondurable goods |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Textile-mill products and other fiber manufactures ${ }^{2}$ | 1,200 |  | 1,245 |  | 1,261 | 1,274 | 1,243 | 1,295 | 1,293 | 1,301 | 1,312 | 1,306 | 1,292 | 1,237 | 1,144 |
| Cotton manufactures, except small- | 1,200 | 1,236 | 1,245 | 1,249 |  |  |  |  |  |  |  |  |  |  |  |
| wares...-......- |  | 507.5 | 508.9 | 511.4 | 516.9 | 521.5 | 509.9 | 527.7 | 524.7 | 526.4 | 529.4 | 525.3 | 523.6 | 526.3 | 418.4 |
| Cotton smallwares |  | 13.1 | 13.3 | 13.4 | 13.4 | 13.5 | 13.4 | 14.0 | 14.4 | 14.6 | 14.9 | 14.9 | 14.6 | 17.8 | 14.1 |
|  |  | 120.8 | 122.0 | 122.4 | 122.1 | 121.5 | 116.5 | 121.2 | 120.3 | 120.1 | 120.0 | 119.2 | 115.5 | 104.1 | 126.6 |
| W oolen and worsted manufactu cept dyeing and finishing |  | 156.5 | 158.2 | 159.6 | 165.8 | 169.8 | 167.5 | 173.8 | 173.2 | 175.0 | 178.3 | 179.5 | 177.4 | 174.1 | 157.7 |
| Hosiery |  | 140.5 | 142.3 | 141.7 | 141.7 | 143.7 | 135.3 | 145.6 | 147.0 | 149.7 | 151.9 | 150.8 | 149.5 | 125.9 | 168.0 |
| Knitted cloth_ |  | 11.2 | 11.5 | 11.3 | 11.1 | 11.2 | 11.1 | 11.2 | 11.5 | 11.8 | 11.7 | 11.7 | 11.6 | 12.6 | 11.5 |
| Knitted outerwear and knitted gloves.- |  | 33.2 | 33.9 | 32.8 | 31.8 | 31.7 | 30.3 | 33.1 | 33.8 | 33.4 | 34.0 | 33.9 | 32.9 | 34.8 | 29.7 |
|  |  | 43.6 | 46.1 | 47.9 | 49.1 | 50.1 | 50.2 | 51.8 | 52.3 | 53.8 | 54.1 | 53.5 | 52.8 | 44.9 | 40.7 |
| Dyeing and finishing textiles, including woolen and worsted. |  | 92.5 | 91.9 | 91.5 | 91.1 | 91.7 | 91.0 | 93.1 | 94.2 | 95.0 | 95.1 | 95.5 | 94.4 | 80.2 | 70.6 |
| Carpets and rugs, wool |  | 40.7 | 40.7 | 40.8 | 40.7 | 40.0 | 40.0 | 40.0 | 39.7 | 39.4 | 39.4 | 39.0 | 38.4 | 24.5 | 27.0 |
| Hats, fur-felt..- |  | 11.7 | 12.0 | 11.5 | 12.5 | 13.3 | 12.3 | 13.4 | 12.9 | 12.7 | 13.7 | 13.7 | 13.7 | 11.0 | 15.4 |
| Jute goods, except fel |  | 4.3 | 4.3 | 4.1 | 4.0 | 4.3 | 4.3 | 4.3 | 4.2 | 4.3 | 4.1 | 4.2 | 4.0 | 4.2 | 3.8 |
| Cordage and twine. |  | 14.9 | 15.1 | 14.9 | 15.3 | 15.4 | 15.8 | 16.2 | 16.4 | 16.7 | 17.1 | 17.2 | 16.8 | 18.3 | 12.8 |
| Apparel and other finished textile products. | 1,129 | 1,145 | 1,159 | 1,175 | 1,173 | 1,157 | 1,070 | 1,095 | 1,082 1, | 1,103 | 1,165 |  |  |  |  |
| Men's clothing, not elsewhere classified. |  | , 303.2 | 1, 307.8 | 1319.2 | 1, 320.4 | 1,18.9 | 1, 296.5 | 1, 314.4 | 1, 309.8 | 1, 310.0 | 1, 314.5 | 1,166 | 1,147 | ${ }_{265.9}{ }^{958}$ | 790 |
| Shirts, collars, and nightwear |  | 73.7 | 77.7 | 78.1 | 77.4 | 76.9 | 75.8 | 80.0 | 80.9 | 82.0 | 82.2 | 82.0 | 81.6 | 67.2 | 74.0 |
| Underwear and neckwear, men |  | 19.1 | 19.5 | 18.9 | 18.1 | 17.9 | 16.7 | 18.2 | 18.4 | 18.7 | 19.0 | 18.7 | 18.1 | 16.3 | 17.0 |
| Work shirts.-.................-.....- |  | 18.1 | 18.8 | 18.9 | 18.2 | 18.6 | 18.5 | 18.6 | 18.2 | 17.9 | 17.5 | 16.8 | 15.8 | 18.5 | 14.1 |
| W omen's clothing, not elsewhere classified |  | 485.3 | 488.3 | 488.8 | 490.3 | 478.8 | 437.0 | 435.4 | 427.6 | 440.0 | 481.7 | 485.3 | 476.2 | 345.3 | 286.2 |
| Corsets and allied garm |  | 19.3 | 19.2 | 19.3 | 19.0 | 18.6 | 17.3 | 18.1 | 18.5 | 19.2 | 19.9 | 20.1 | 19.7 | 16.5 | 18.8 |
| Millinery |  | 23.8 | 22.1 | 25.8 | 24.8 | 24.8 | 22.2 | 20.0 | 20.5 | 23.6 | 27.6 | 27.9 | 26.4 | 23.3 | 25.5 |
| Handkerchiefs. |  | 5.5 | 5.5 | 5.3 | 5.0 | 4.9 | 4.0 | 4.9 | 5.0 | 5.1 | 5.1 | 5.0 | 4.9 | 5.7 | 5.1 |
| Curtains, draperies, and bedspreads_ Housefurnishings, other than curtains, |  | 25.6 | 27.1 | 27.4 | 27.9 | 28.6 | 25.1 | 26.4 | 26.4 | 27.7 | 30.6 | 33.8 | 31.6 | 25.2 | 17.8 |
| ete |  | 32.2 | 33.2 | 32.2 | 31.4 | 30.4 | 28.1 | 27.9 | 27.7 | 29.0 | 30.4 | 29.2 | 30.0 | 24.0 | 11.2 |
| Textile bags |  | 30.3 | 29.8 | 29.6 | 29.2 | 28.9 | 28.1 | 27.1 | 26.8 | 26.8 | 27.3 | 27.8 | 28.2 | 19.6 | 12.6 |
| Leather and leather produ | 365 | 364 | 363 | 376 | 379 | 383 | 375 | 373 | 359 | 372 | 396 | 402 | 399 | 340 |  |
| Leather |  | 47.3 | 46.4 | 47.7 | 48.0 | 47.7 | 47.2 | 47.9 | 47.5 | 47.6 | 49.2 | 50.3 | 50.2 | 46.5 | 50.0 |
| Boot and shoe cut stock a |  | 17.0 | 17.0 | 17.6 | 17.9 | 18.1 | 17.7 | 17.8 | 17.3 | 17.7 | 18.9 | 19.5 | 19.7 | 19.2 | 20.0 |
| Boots and shoes. |  | 232.7 | 229.5 | 238.5 | 241.0 | 244.8 | 239.5 | 236.6 | 225.5 | 235.9 | 254.1 | 257.8 | 256.2 | 205. 6 | 230.9 |
| Leather gloves and mitten |  | 10.6 | 12.4 | 12.8 | 13.0 | 13.2 | 12.8 | 12.9 | 12.4 | 12.2 | 12.5 | 12.5 | 12.2 | 15.4 | 10.0 |
| Trunks and suitcases |  | 12.8 | 14.2 | 14.6 | 14.3 | 13.8 | 13.3 | 13.3 | 13.2 | 13.3 | 13.9 | 14.0 | 13.3 | 13.7 | 8.3 |
| Food ${ }^{2}$ | 1,182 | 1,253 | 1,306 | 1,400 | $1,537$$195.2$ | 1,418 | 1,364 | 1,257 | 1,091 | $1,047$ | 1,149 | 1,159 | 1,191 | 1,056 | 855135.0 |
| Slaughtering and meat packin |  | 218.2 | 205.3 | 197.7 |  | 196.8 | 201.3 | 199.6 | 124.5 | $104.0$ | 193.6 | 199.9 | 1, 209.7 | 174.0 |  |
| Butter |  | 35.0 | 34.6 | 35.5 | 36.6 | 38.2 | 39.6 | 40.5 | 39.2 | 36.9 | 34.3 | 32.0 | 32.6 | 33.2 | 20.1 |
| Condensed and evaporated milk |  | 18.7 | 19.5 | 20.3 | 21.1 | 21.9 | 22.6 | 23.0 | 21.6 | 20.5 | 19.3 | 18.8 | 18.4 | 19.9 | 10.9 |
| Ice cream |  | 23.9 | 24.3 | 26.2 | 29.6 | 31.8 | 32.8 | 31.6 | 29.2 | 27.1 | 24.4 | 23.6 | 23.6 | 23.0 | 17.6 |
| Flour. |  | 41.5 | 41.7 | 40.1 | 41.5 | 42.3 | 42.7 | 41.4 | 39.9 | 40.1 | 40.3 | 40.7 | 41.8 | 32.9 | 27.8 |
| Feeds, prepared |  | 28.9 | 28.9 | 29.2 | 29.3 | 29.5 | 29.3 | 28.7 | 27.9 | 26.6 | 26.3 | 27.4 | 29.3 | 25.0 | 17.3 |

Table A-6: Estimated Number of Production Workers in Manufacturing Industries ${ }^{1}$-Continued
[In thousands]

| Industry group and industry | 1949 | 1948 |  |  |  |  |  |  |  |  |  |  |  | Annual average |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Jan. | Dec. | Nov. | Oct. | Sept. | Aug. | July | June | May | Apr. | Mar. | Feb. | Jan. | 1943 | 1939 |
| Nondurable goods-Continued |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Food 2-Continued |  | 12.5 | 13.1 | 13.2 | 13.2 | 13.8 | 13.9 | 13.0 | 12.8 | 12.2 | 12.1 | 12.4 | 12.1 | 11.4 | 8.4 |
| Baking.-. |  | 251.7 | 255. 7 | 258.0 | 253.2 | 51.0 | 250.0 | 247.8 | 242.2 | 239.5 | 241.7 | 238.7 | 236.4 | 211.3 | 190.4 |
| Sugar refining, |  | 24.2 | 22.4 | 22.4 | 25.0 | 25.3 | 25.8 | 22.1 | 21.4 | 20.8 | 23.5 | 24.2 | 22.2 | 16.7 | 15.9 |
| Sugar, beet |  | 10.8 | 25.2 | 25.0 | 10.6 | 9.1 | 7.5 | 7.3 | 6. 6 | 5.7 | 5. 9 | 6.8 | 11.1 | 10.1 | 11.6 |
| Confectionery |  | 82.4 | 89.8 | 88. 9 | 81.1 | 71.6 | 63.0 | 64.5 | 62.1 | 67.1 | 72.5 | 77.3 | 82.0 | 59.5 | 55.7 |
| Beverages, nonalcohol |  | 39.5 | 40.4 | 43.0 | 46.6 | 49.6 | 50.3 | 46. 2 | 43.4 | 40.5 | 38.4 | 36.1 | 37.4 | 32.2 | 23.8 |
| Malt liquors......- |  | 77.9 | 80.7 | 81.3 | 86.0 | 87.8 | 88.2 | 83.1 | 73.6 | 77.3 | 74.8 | 74.1 | 75.2 | 54.3 | 40.5 |
| Canning and preserving |  | 163.1 | 195.2 | 289.1 | 444.4 | 326.2 | 274.3 | 186.9 | 153.2 | 140.7 | 135.5 | 136.8 | 142.2 | 188.5 | 150.3 |
| Tobacco manufactures ${ }^{\text {2 }}$ | 83 | 87 | 90 | 90 | 88 | 86 | 83 | 85 | 84 | 86 | 87 |  | 87 | 91 | 93 |
| Cigarettes.. |  | 34.1 | 35.1 | 35.1 | 34.9 | 34.5 | 33.6 | 33.3 | 33.1 | 33.2 | 33. 2 | 33.5 | 33.6 | 33.9 | 27.4 |
| Cigars. |  | 45.2 | 47.2 | 46.5 | 44.9 | 44.1 | 41.7 | 43.6 | 43.7 | 45.2 | 46.2 | 46.2 | 45.8 | 47.5 | 55.8 |
| Tobacco (chewing and smoking) and snuff |  | 7.8 | 7.8 | 7.9 | 7.8 | 7.8 | 7.6 | 7.7 | 7.6 | 7.7 | 7.8 | 7.9 | 7.9 | 9.3 | 10.1 |
| Paper and allied pro | 391 | 401 | 403 | 401 | 398 | 394 | 388 | 390 | 389 | 389 | 393 | 392 | 395 | 324 |  |
| Paper and pulp |  | 207.0 | 206. 6 | 206.0 | 206. 7 | 206.7 | 205.8 | 204. 2 | 204.7 | 203.7 | 203.8 | 203.0 | 203.0 | 160.3 | 137.8 |
| Paper goods, oth |  | 63.5 | 63. 6 | 63.5 | 62.7 | 61.8 | 60.5 | 61.7 | 61.5 | 61.4 | 62.0 | 61.9 | 62.6 | 50.2 | 37.7 |
| Envelopes. |  | 13.2 | 13.2 | 12.9 | 12.6 | 12.3 | 12.3 | 12.5 | 12.7 | 12.7 | 12.7 | 12.5 | 12.4 | 10.2 | 8.7 |
| Paper bags Paper boxes |  | 16.8 99.9 | 171.0 | 17.8 99.8 | 17.8 97.0 | 17.7 94.8 | 17.4 90.9 | 17.5 92.8 | 17.6 91.4 | 18.0 92.7 | 18.2 95.2 | 18.0 96.5 | ${ }_{97.7}^{18.1}$ | 13.1 89.6 | 11.1 69.3 |
| Printing, publishing, and allied industries ${ }^{2}$ - | 436 | 443 | 442 | 442 | 436 | 432 | 430 | 433 | 432 | 432 | 435 | 438 | 439 | 331 | 328 |
| Newspapers and periodicals .-.......--- |  | 152.3 | 151.0 | 150.7 | 149.4 | 147.7 | 146.8 | 146.9 | 146.4 | 145.0 | 144.8 | 144.1 | 143.6 | 113.0 | 118.7 |
| Printing, book and job..--- |  | 188.7 | 187.8 | 188.8 | 185.4 | 183.1 | 183.0 | 184.4 | 184.2 | 183.2 | 185.4 | 187.7 | 189.7 | 138.7 | 127.6 |
| Lithographing. |  | 31.3 | 31.4 | 31.4 | 31.1 | 31.2 | 31.2 | 31.1 | 30.9 | 31.3 | 31.4 | 31.8 | 32.0 | 25.9 | 26.3 |
| Bookbinding.- |  | 34.5 | 35.1 | 34.9 | 34.4 | 34.8 | 33.3 | 35.1 | 35.1 | 35.9 | 37.2 | 37.4 | 37.6 | 29.4 | 25.8 |
| Chemicals and allied products ${ }^{\text {a }}$ | 594 | 597 | 599 | 600 | 597 | 586 | 567 | 574 | 572 | 580 | 587 | 588 | 588 | 734 | 288 |
| Paints, varnishes, and colors |  | 47.6 | 48.1 | 48.7 | 48.6 | 49.7 | 49.1 | 49.1 | 48.7 | 48.0 | 48.6 | 49.3 | 48.6 | 38.2 | 28.3 |
| Drugs, medicines, and insect |  | 64.4 | 64. 8 | 64.4 | 64. 2 | 63.9 | 63.4 | 63.6 | 63.6 | 64.2 | 65.2 | 65. 6 | 65.7 | 56.0 | 27.5 |
| Perfumes and cosmetics |  | 12.3 | 12.9 | 12.8 | 12.5 | 12.4 | 10.8 | 10.9 | 11.0 | 11.2 | 11.6 | 12.1 | 12.0 | 14.1 | 10.4 |
| Soap. |  | 26.5 | 26.5 | 27.2 | 27.0 | 25.1 | 24.0 | 23.7 | 21.7 | 21.8 | 24.9 | 25.4 | 25.5 | 17.9 | 15.3 |
| Rayon and allied products |  | 64.8 | 63.9 | 63.9 | 63.7 | 64.9 | 64.4 | 64.3 | 63.4 | 63.5 | 63.7 | 63.7 | 63.2 | 54.0 | 48.3 |
| Chemicals, not elsewhere classi |  | 211.2 | 210.7 | 210.0 | 210.9 | 211.2 | 202.0 | 207.6 | 204.8 | 207.2 | 205.4 | 205.5 | 206.7 | 144.5 | 69.9 |
| Explosives and safety fuses. |  | 27.4 | 27.4 | 27.7 | 27.6 | 27.8 | 27.4 | 26.7 | 25.7 | 25.6 | 25.8 | 25.5 | 25.3 | 112.0 | 7.3 |
| Compressed and liquefied ga |  | 9.5 | 9.5 | 9.9 | 9.8 | 10.1 | 10.0 | 10.1 | 10.0 | 10.0 | 9.9 | 9.8 | 9.9 | 7.8 | 4.0 |
| Ammunition, small-arms |  | 7.2 | 7.4 | 7.4 | 7.5 | 7.5 | 7.7 | 7.8 | 7.8 | 7.8 | 7.8 | 7.8 | 7.7 | 154.1 | 4. 3 |
| Fireworks |  | 2.4 | 2.6 | 2.6 | 2.8 | 2.7 | 2. 2 | 2. 5 | 2.6 | 2.4 | 2.4 | 2.6 | 2.5 | 28.2 | 1.2 |
| Cottonseed oil |  | 25.7 | $\stackrel{27.2}{28}$ | $\stackrel{27.3}{2}$ | 23.4 | 14.3 | 12.5 | 12.7 | 13.6 32.3 | 15.2 36.7 | 17.6 38.1 | 19.5 35.4 | 21.7 33.3 | 20.4 27.5 | 15.3 18.8 |
| Fertilizers. |  | 28.7 | 28.7 | 28.8 | 28.7 | 26.8 | 25.5 | 27.2 | 32.3 | 36.7 | 38.1 | 35.4 | 33.3 | 27.5 | 18.8 |
| Products of petroleum and coa | 162 | 165 | 167 | 162 | 168 | 170 | 170 | 170 | 167 | 164 | 165 | 163 | 164 | 125 | 106 |
| Petroleum refining... |  | 113.3 | 113.7 | 107.6 | 114.0 | 115.9 | 117.0 | 116.6 | 114.7 | 113.6 | 113.5 | 112.1 | 112.4 | 83.1 | 73.2 |
| Coke and byproduct |  | 32.3 | 32.2 | 32.1 | 32.4 | 32.4 | 31.8 | 31.7 | 31.1 | 29.7 | 30.7 | 30.3 | 30.5 | 25. 5 | 21.7 |
| Paving materials |  | 2.7 | 2.8 | 2.9 | 2.9 | 2.8 | 2.7 | 2.6 | 2.4 | 2.3 | 1.8 | 1.8 | 2.0 | 2.1 | 2.5 |
| Roofing materials. |  | 15.2 | 17.2 | 18.1 | 18.0 | 17.8 | 17.4 | 17.7 | 17.3 | 17.4 | 17.4 | 17.6 | 18.0 | 13.1 | 8.1 |
| Rubber products ${ }^{2}$ | 191 | 196 | 199 | 198 | 197 | 195 | 191 | 195 | 195 | 198 | 204 | 208 | 210 |  |  |
| Rubber tires and inner tu |  | 89.6 | ${ }^{91.2}$ | 90.0 | 91.4 | 91.5 | 90.9 | 91.9 | 91.4 | 92.6 | 96.4 | 98.9 | 100.6 | 90.1 | 54.2 |
| Rubber boots and shoe |  | 23.5 | 23.2 | 22.9 | 22.5 | 22.0 | 20.7 | 21.8 | 21.7 | 22.1 | 22.6 | 22.8 | 22.5 | 23.8 | 14.8 |
| Rubber goods, other. |  | 82.6 | 84.5 | 84.7 | 82.9 | 80.8 | 79.2 | 81.7 | 81.7 | 84.0 | 85.7 | 86.5 | 86.8 | 79.9 | 51.9 |
| Miscellaneous indus | 415 | 433 | 453 | 460 | 451 | 441 | 425 | 430 | 432 | 436 | 447 | 445 | 443 | 445 | 244 |
| Instruments (professional and scientific), and fire-control equipment |  | 29.9 | 30.0 | 29.5 | 29.0 | 28.1 | 28.0 | 27.7 | 27.5 | 27.6 | 27.7 | 27.7 | 27.7 | 86.7 | 11.3 |
| Photographic apparatus |  | 39.7 | 39.7 | 39.7 | 39.7 | 39.7 | 39.0 | 38.3 | 37.8 | 38.4 | 38.8 | 39.0 | 38.9 | 35.5 | 17.7 |
| Optical instruments and ophthalmic goods |  | 26.3 | 26.0 | 26.4 | 26.1 | 26.0 | 23.9 | 25.6 | 26.7 | 27.0 | 27.2 | 27.4 | 27.8 | 33.3 | 11.9 |
| Pianos, organs, and par |  | 13.3 | 13.5 | 13.9 | 13.5 | 13.3 | 12.3 | 13.5 | 13.7 | 13.3 | 14.8 | 15. 7 | 16.8 | 12.2 | 7.8 |
| Games, toys, and dolls. |  | 37.8 | 46.6 | 49.4 | 48.1 | 45.3 | 42.4 | 41.1 | 40.2 | 40.3 | 38.5 | 36.3 | 33.5 | 19.1 | 19.1 |
| Buttons. |  | 13.2 | 13.1 | 13.1 | 13.0 | 13.0 | 12.5 | 12.9 | 12.8 | 13.1 | 13.8 | 13.4 | 13.3 | 13.1 | 11.2 |
| Fire extinguishers |  | 2.8 | 2.9 | 2.9 | 2.8 | 2.7 | 2.8 | 2.8 | 2.7 | 2.7 | 2.6 | 2.5 | 2.6 | 9.3 | 1.0 |

[^52]data through 1946 and have been carried forward from 1946 bench-mark levels, thereby providing consistent series. Comparable data from January 1939 are available upon request to the Bureau of Labor Statistics. Such requests should specify the series desired.

More recently adjusted data for the individual industries comprising the major industry groups listed below supersede data shown in publications dated prior to:

Mimeographed Monthly Labor

Major industry group
Iron and steel and their products
Stone, clay, and glass products
release Dec. 1948 Dec. 1948

Review Jan. 1949 Jan. 1949

Table A-7: Indexes of Production-Worker Employment in Manufacturing Industries ${ }^{1}$
[1939 average $=100$ ]


Table A-7: Indexes of Production-Worker Employment in Manufacturing Industries ${ }^{1}$-Continued
[1939 average $=100$ ]

| Industry group and industry | 1949 | 1948 |  |  |  |  |  |  |  |  |  |  |  | An- <br> nual <br> aver- <br> age |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Jan. | Dec. | Nov. | Oct. | Sept. | Aug. | July | June | May | Apr. | Mar. | Feb. | Jan. | 1943 |
| Durable goods-Continue |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Furniture and finished lumber products ${ }^{2}$ | 134.1 | 140.7 | 143.1 | 143.3 | 142.0 | 140. 5 | 137.8 | 139.8 | 139.7 | 143.4 | 147.8 | 149. 2 | 149.1 | 111.7 |
| Mattresses and bedsprings. |  | 162.9 | 173.9 | 180.9 | 179.5 | 171.7 | 161.9 | 163.0 | 162.6 | 170.4 | 180.3 | 188.5 | 188.8 | 105.9 |
| Furniture-.-.---1.- ${ }_{\text {Wooden }}$ |  | 142.8 122.9 | 144.2 124.8 | 143.6 | 141.9 | 140.3 | 137.4 | 139.4 | 140.3 | 144.0 | 148. 2 | 149. 6 | 149.0 | 112.4 |
| Wooden boxes, other than cigar |  | 122.9 | 124.8 | 123.3 | 121.5 | 122.3 | 125. 6 | 125. 6 | 122.8 | 127.2 | 130.5 | 132.6 | 133.6 | 125.0 |
| Caskets and other morticians'g |  | 135.0 | 140.1 | 138.4 | 140.1 | 139.6 | 135.6 | 139.7 | 142.8 | 145. 8 | 150.2 | 148.9 | 150.7 | 102.4 |
| Wood preserving |  | 134.0 | 135.5 | 136.0 | 137.9 | 141.0 | 137.1 | 133.6 | 131.1 | 128. 7 | 132.7 | 133. 1 | 139.8 | 98. 7 |
| Wood, turned and shaped |  | 136.1 | 138.0 | 140.4 | 139.7 | 140.9 | 136.7 | 144.0 | 139.5 | 142.6 | 145.5 | 142.7 | 139.8 | 107.4 |
| Stone, clay, and glass products ${ }^{2}$ | 152.5 | 157.4 | 158.9 | 159. 4 | 158.2 | 157.0 | 153.2 | 156.0 | 154.7 | 153.7 | 153.9 | 150.9 | 151.6 | 122.5 |
| Glass and glassware |  | 166.5 | 170.6 | 172.6 | 172.3 | 167.8 | 161.0 | 168.9 | 170.3 | 170.7 | 170.6 | 166.5 | 169.5 | 139.9 |
| Glass products made from p |  | 147.0 | 147.3 | 143.8 | 139.1 | 138. 5 | 143.0 | 142.0 | 140.7 | 142. 1 | 143.5 | 142.4 | 143.7 | 113.1 |
| Cement |  | 152.1 | 153.0 | 151.5 | 148.5 | 151.7 | 151.8 | 150.0 | 147.7 | 145.9 | 144.8 | 144.6 | 144.4 | 111.5 |
| Brick, tile, and terra cot |  | 143.1 | 143.9 | 143.9 | 144.0 | 143. 7 | 141. 0 | 141.4 | 137.1 | 134. 3 | 133.1 | 129.8 | 134.4 | 90.5 |
| Pottery and related prod |  | 182.0 | 181.7 | 180.4 | 178.3 | 177.3 | 168.6 | 174. 5 | 173. 1 | 171.2 | 174.2 | 170.7 | 169.7 | 132.9 |
| Wypsum Wallboard, plaster |  | 151, 5 | 157.6 | 160.7 | 158.5 | 157.1 | 157.4 | 154.4 | 152.5 | 152.8 | 154.5 | 153.8 | 152.5 | 91.2 |
| eral wool |  | 181.9 | 183.6 | 182.6 | 181.7 | 180.8 | 180.6 | 178.5 | 179.0 | 178.7 | 176.2 | 177.2 | 178.9 | 137.2 |
| Lime |  | 112.7 | 112.6 | 113.4 | 114.1 | 114.3 | 114.6 | 113.3 | 116.1 | 116. 9 | 115.0 | 112.7 | 112.8 | 98.7 |
| Marble, granite, slate, and o |  | 103.9 | 102.6 | 102.9 | 102.1 | 102.5 | 101. 0 | 99.6 | 97.8 | 96.6 | 99.3 | 96.5 | 97.5 | 67.4 |
| Abrasives..-.......... |  | 267.8 | 264.6 | 265. 7 | 264.6 | 267. 4 | 272.7 | 265.0 | 260.2 | 260.4 | 260.5 | 254.1 | 204. 6 | 302.2 |
| Asbestos produc |  | 157.9 | 161.0 | 161.7 | 157.0 | 157.9 | 151.7 | 157.5 | 157.9 | 158.3 | 159.0 | 158.0 | 158.0 | 138.2 |
| Nondurable goods |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Cotton manufactures, except smallwares |  | 121.3 | 121.6 | 122. 2 | 123.6 | 124.7 | 121. 9 | 126.1 | 125. 4 | 125.8 | 126.6 | 125.6 | 125. 2 | 125.8 |
| Cotton smallwares |  | 93.2 | 94.2 | 95.1 | 95.4 | 96.2 | 95.3 | 99.4 | 102.3 | 103.6 | 105.8 | 105.8 | 103. 8 | 126.6 |
|  |  | 95.4 | 96.4 | 96.7 | 96.5 | 95.9 | 92.0 | 95.8 | 95.0 | 94.9 | 94.8 | 94.1 | 91.2 | 82.2 |
| Woolen and worsted manufactures, except dyeing and finishing. |  | 99.3 | 100.4 | 101. 2 | 105.2 | 107.7 | 106.3 | 110.3 | 109.9 | 111.0 | 113.1 | 113.9 | 112.5 | 110.4 |
| Hosiery-.....---- |  | 83.6 | 84.7 | 84.4 | 84.3 | 85.5 | 80.5 | 86.7 | 87.5 | 89.1 | 90.4 | 89.7 | 89.0 | 74.9 |
| Knitted cloth. |  | 97.2 | 99.3 | 98.0 | 95. 9 | 97.5 | 96.7 | 96.8 | 99.4 | 101. 9 | 101.4 | 101.8 | 100.4 | 109.4 |
| Knitted outerwear |  | 111.8 | 114.2 | 110. 2 | 107.1 | 106.6 | 101.8 | 111.5 | 113.8 | 112.3 | 114.4 | 114.0 | 110.6 | 117.2 |
| Knitted underwear Dyeing and finishing textiles, including woolen |  | 107.1 | 113.3 | 117.7 | 120.6 | 123.0 | 123.2 | 127.1 | 128.3 | 132.0 | 132.8 | 131.4 | 129.7 | 110.4 |
| Dyeing and finishing textiles, including woolen and worsted |  | 130.9 | 130.1 | 129.5 | 129.0 | 129.8 | 128.8 | 131.9 | 133.3 | 134.4 | 134.7 | 135.3 | 133.7 | 113.6 |
|  |  | 150.7 | 150.7 | 150.9 | 150.6 | 148.1 | 148.0 | 148.1 | 146.8 | 145.7 | 145. 7 | 144.1 | 142.1 | 90.8 |
| Hats, fur-felt |  | 75.8 | 78.4 | 74.6 | 81.4 | 86.7 | 80.1 | 87.0 | 84.2 | 82.7 | 89.3 | 89.0 | 89.1 | 71.3 |
| Jute goods, except Cordage and twine |  | 113.5 | 114.3 | 107.1 | 104.5 | 114.3 | 112.6 | 114.2 | 112.0 | 112.8 | 109.3 | 110.3 | 105.1 | 110.6 |
| Cordage and twine |  | 116.7 | 117.8 | 116.8 | 119.5 | 120.7 | 124.0 | 127.0 | 128.7 | 130.9 | 134.1 | 134.7 | 131.6 | 143.4 |
| Apparel and other finished textile products.------- | 143.0 | 145.0 | 146.9 | 148.8 | 148.6 | 146.5 | 135.6 | 138, 6 | 137.1 | 139.8 | 147.5 | 147.7 | 145.3 | 121.4 |
| Men's clothing, not elsewhere classified.-...-.-.-- |  | 132.1 | 134.1 | 139.0 | 139.5 | 138.9 | 129.1 | 136. 9 | 134.9 | 135. 0 | 137.0 | 135.5 | 134.2 | 115.8 |
|  | ---.-.-- | 99.7 112.4 | 1114.1 | 105.6 111.3 | 104.7 107.0 | 104.0 | 102.5 | 108.2 | 109.4 | 110.9 | 111.2 | 110.8 | 110.4 | 90.9 |
|  |  | 112.4 | 114.8 | 111.3 | 107.0 129.1 | 105,5 132.0 | 98.5 131.3 | 107.4 131.8 | 108.3 129.2 | 110.1 126.4 | 112.0 123 | 110.3 119.0 | 1106. 6 | 96.3 131.3 |
| Women's clothing, not elsew | ----- | 169.5 | 170.6 | 170.8 | 171.3 | 167.3 | 152.7 | 131.8 | 129.2 | 126.4 153.7 | 123.8 | 119.0 169.5 | 112.0 166.4 | 131.3 120.6 |
| Corsets and allied garments |  | 102.7 | 102. 5 | 103.0 | 101.5 | 99.0 | 92.4 | 96.5 | 98.8 | 102.4 | 106.1 | 107.0 | 104.9 | 88.1 |
| Millinery | ---------- | 93.1 | 86.7 | 100.9 | 97.0 | 97.3 | 87.0 | 78.2 | 80.4 | 92.3 | 108.3 | 109.2 | 103.4 | 91.5 |
| Handkerchiefs |  | 107.8 | 108.2 | 104. 4 | 98.8 | 96.2 | 77.7 | 96.6 | 99.2 | 99.8 | 99.6 | 97.9 | 95.7 | 113.1 |
| Curtains, draperies, and bedsprea | ------.- | 144.3 288.4 | 152.4 297.5 | 154.1 288.7 | 157.3 281 | 161.1 | 141.6 | 148.5 | 148.8 | 156.0 | 172.1 | 190.5 | 178.0 | 141.9 |
| Textile bags |  | 288.4 240.6 | 237.5 | 288.7 234 | 281.0 231.7 | 272.3 229.2 | 222.4 | 249.9 214.8 | 248.2 212.8 | 259.8 212.4 | 272.0 216.9 | 261.5 220.2 | ${ }^{268 .} 6$ | $214.9$ |
| Leather and leather products ${ }^{2}$ | 105.0 | 104.8 | 104.5 | 108.3 | 109.3 | 110.4 | 108.1 | 107.4 | 103.3 | 107.1 | 114.1 | 115.8 |  |  |
|  |  | 94.6 | 92.8 | 95.4 | 96.0 | 95.3 | 94.3 | 95.7 | 94.9 | 95.1 | 98.4 | 100.4 | 100.3 | 92.9 |
|  |  |  | 85.1 | 85.1 | 88.1 | 89.8 | 90.7 | 88.6 | 88.9 | 86.9 | 88.7 | 94.7 | 97.8 | 98.8 | 96.0 |
|  |  | 100.8 106.0 | 99.4 124.1 | 103.3 128.2 | 104.4 | 106.0 | 103.7 | 102.5 | $\begin{array}{r}97.7 \\ \hline 123\end{array}$ | 102.2 | 110.1 | 111.7 | 111.0 | 89.0 |
| Trunks and suitcases.----- |  | 153.5 | 124.1 170.8 | 128.2 | 171.8 | 132.1 166.0 | 127.8 159.6 | 128.8 159.3 | 123.9 158.6 | 121.9 160.1 | 125.4 166.4 | 124.9 168.6 | 121.9 159.3 | 153.7 161.2 |
|  | 138.3 | 146.6 | 152.9 | 163.8 | 179.9 | 166.0 | 159.7 | 147.1 | 127.7 | 122.6 | 134.5 | 135.6 | 139.3 |  |
| Slaughtering and meat packing <br> Butter |  | 161.5 | 152.0 | 146.4 | 144.5 | 145.7 | 149.1 | 147.8 | 92.2 | 77.0 | 143.3 | 148.0 | 155.3 | 128.9 |
|  |  | 174.0 | 172.1 | 176.2 | 181.7 | 189.8 | 196.8 | 201.2 | 194.5 | 183.3 | 170.5 | 158.8 | 162.0 | 165.2 |
| Condensed and evaporated milk |  | 172.1 | 179.6 137.8 | 186.3 | 194.3 | 201.4 | 207.4 | 211.2 | 198.3 | 188.3 | 177.2 | 172.5 | 169.3 | 182.6 |
| Flour |  | 149.4 | 157.8 | 148.6 | 167.9 | 180.7 | 186. 3 | 179.1 | 166.0 | 153.9 | 138.5 | 133.8 | 133.7 | 130.7 |
| Feeds, prepared.-.-- |  | 167.5 | 167.3 | 169.1 | 149.4 170.0 | 172.2 170.8 | 169.7 | 149.0 166.5 | 143.6 | 144.3 | 145.2 | 146.7 | 150.5 | 118.5 |
| Cereal preparations. |  | 149.8 | 156.8 | 158.0 | 157.6 | 165.6 | 165.7 | 155.2 | 152.6 | 146.4 | 144.7 | 158.7 | 169.4 | 145.0 |
| Bareal preparations |  | 132.2 | 134.3 | 135.5 | 133.0 | 131.8 | 131.3 | 130.2 | 127.2 | 125.8 | 126.9 | 125.4 | 145.0 | 136.0 |
| Sugar refining, |  | 152.7 | 141.4 | 141.0 | 157.4 | 159.1 | 162.4 | 139.1 | 134.5 | 131.3 | 148.1 | 152.7 | 139.9 | 105.1 |
| Sugar, beet.... |  | 93.0 | 217.0 | 215.2 | 91.0 | 78.0 | 65.0 | 63.0 | 57.2 | 49.3 | 50.6 | 58.7 | 95.3 | $\begin{array}{r}105.1 \\ \hline 86.8\end{array}$ |
|  |  | 147.9 | 161.2 | 159.5 | 145.6 | 128.5 | 113.0 | 115.8 | 111.4 | 120.5 | 130.2 | 138.8 | 147.1 | 106.7 |
| Beverages, nonalcoholic |  | 165.7 | 169.7 | 180.5 | 195.4 | 207.9 | 210.9 | 194.0 | 182.0 | 170.1 | 161.2 | 151.3 | 157.0 | 135.1 |
| Malt liquors |  | 192. 5 | 199.5 | 200.9 | 212.6 | 217.0 | 218.0 | 205. 5 | 181.9 | 191.2 | 184.9 | 183.1 | 185.9 | 134.1 |
| Canning and preserving |  | 108.5 | 129.9 | 192.3 | 295.7 | 217.0 | 182.5 | 124.3 | 101.9 | 93.6 | 90.1 | 91.0 | 94.6 | 125.4 |
| Tobacco manufactures ${ }^{2}$ | 89.3 | 93.3 | 96.5 | 95.8 | 93.9 | 92.5 | 88.8 | 90.6 | 90.5 | 92.4 | 93.4 | 93.9 | 93.6 | 97.2 |
| Cigars- |  | 124.2 | 127.9 | 128.2 | 127.3 | 125.8 | 122.4 | 121.2 | 120.7 | 121.1 | 121.1 | 122.1 | 122.6 | 123.8 |
|  |  |  | 80.9 | 84.5 | 83.2 | 80.5 | 78.9 | 74.7 | 78.1 | 78.3 | 81.0 | 82.7 | 82.8 | 82.1 | 85.0 |
| Tobacco (chew |  | 78.0 | 77.2 | 78.6 | 77.7 | 77.2 | 75.6 | 76.1 | 75.9 | 77.0 | 77.3 | 78.3 | 78.9 | 92. 5 |

Table A-7: Indexes of Production-Worker Employment in Manufacturing Industries ${ }^{1}$-Continued
[1939 average $=100$ ]


See footnotes 1 and 2, table A-6.
Table A-8: Indexes of Production-Worker Weekly Pay Rolls in Manufacturing Industries ${ }^{1}$

| Industry group and industry | 1949 | 1948 |  |  |  |  |  |  |  |  |  |  |  | Annual average |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Jan. | Dec. | Nov. | Oct. | Sept. | Aug. | July | June | May | Apr. | Mar. | Feb. | Jan. | 1943 |
| All manufacturing | 363.2 | 377.8 | 379.0 | 382.9 | 382.2 | 374.7 | 360.0 | 359.0 | 346.7 | 347.1 | 358.4 | 354.1 | 358.7 | 334.4 |
| Durable goods. | 412.8 | 430.9 | 429.9 | 435.7 | 423.7 | 418.8 |  | 401. 3 | 390.8 303.6 | 393.4 301.9 |  | 393.1 316.0 |  | 469.5 202. 3 |
| Nondurable goods | 314.7 | 326.0 | 329.3 | 331.2 | 341.6 | 331.6 | 318.0 | 317.6 | 303.6 | 301.9 | 315.7 | 316.0 | 315.3 |  |
| Durable goods |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Iron and steel and their products ${ }^{2}$ | 356.7 | 371.4 | 373.6 | 376.0 | 365. 0 | 360.5 | 336.9 | 340.5 | 334.4 | 329.6 | 340.8 | 337.6 | 341.9 | 311.4 |
| Blast furnaces, steel works, and rollin |  | 306.1 | 304.7 | 305. 0 | 300. 3 | 295.8 | 269.9 | 268.4 | 265.4 | 253.0 | 260.9 | 257.5 | 261. 2 | 222.3 |
| Gray-iron and semisteel castings. |  | 424.1 | 429.4 | 436.1 | 433. 3 | 417.1 | 398.2 | 421.5 | 394.3 | 415.6 | 444. 0 | 436.7 | 438. 2 | 261.1 |
| Malleable-iron castings. |  | 520.8 | 505.7 | 512.2 | 493.1 | 478.8 | 448.8 464 | 468.1 | 460.3 | 453.0 477.3 | 469.7 481.0 | 467.6 465.6 | 480.1 | 278.9 493.5 |
| Steel castings.-.-- |  | 525.2 | 528.0 | 523.2 | 504.4 437.1 | 438.6 | 464.3 414.3 | 494.7 | 478.5 401.4 | 477.3 370.0 | 481.0 397.5 | 465.6 392.5 | 465. 3 394.4 | 493. 5 177.2 |
| Cint-iron pipe and fittings. |  | 471.2 340 | 334.7 | 351.6 | 391.7 | 364.9 | 353.2 | 310.8 | 286. 1 | 274.9 | 289.8 | 302.4 | 320.0 | 161.6 |
| W ire drawn from purchased rods |  | 274.0 | 271.3 | 276.2 | 263. 8 | 262.5 | 242.8 | 243.3 | 249.8 | 255.3 | 269.1 | 268.7 | 271.6 | 255.3 |
| Wirework_..... |  | 334.7 | 331.6 | 333.2 | 322. 5 | 326.6 | 315.1 | 295.7 | 298.2 | 302.0 | 316.4 | 309.0 | 320.5 | 202.6 |
| Cutlery and edge tools |  | 394.3 | 405.8 | 392.1 | 374.9 | 359.3 | 335.7 | 343.6 | 357.8 | 364.6 | 370.6 | 377.2 | 381.9 | 279.5 |

See footnotes 1 and 2, table A-6.

Table A-8: Indexes of Production-Worker Weekly Pay Rolls in Manufacturing Industries ${ }^{1}$-Con.

| Industry group and industry | 1949 | 1948 |  |  |  |  |  |  |  |  |  |  |  | An- <br> nual <br> aver- <br> age <br> 1943 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Jan. | Dec. | Nov. | Oct. | Sept. | Aug. | July | June | May | Apr. | Mar. | Feb. | Jan. |  |
| Durable goods-Continue |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Iron and steel and their products ${ }^{2}$ - Continued Tools (except edge tools, machine tools, files, and saws) <br> 372.5 <br> 373.8 <br> 376.3 <br> 366, 3 <br> 373.4 <br> 358.7 <br> 370.8 <br> 366. 6 <br> 372.4 <br> 378.4 <br> 334.1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Hardware, |  | 370.8 | 367.4 | 363.1 | 349.2 | 347.1 | 325.0 | 340.9 | 343.9 | 362.4 | 373.9 | 372.1 | 371.0 | 245.8 |
|  |  | 378.3 | 376.9 | 381.9 | 338.7 | 338.7 | 316.7 | 329.0 | 324.0 | 322.2 | 329.0 | 320.3 | 321.8 | 161.7 |
| Stoves, oil burners, and heating equipment, not elsewhere classified |  | 350.4 | 400.0 | 448.4 | 426.7 | 416.9 | 371.0 | 379.2 | 371.4 | 363.8 | 388.2 | 407.6 | 416.5 | 210.9 |
| Steam and hot-water heating apparatus and steam fittings. |  | 454.6 | 466.5 | 474.3 | 447.6 | 436.4 | 414.7 | 431.4 | 427.6 | 414.7 | 438.5 | 447.5 | 424.9 | 360.6 |
|  |  | 481.0 | 491.9 | 482.6 | 453.7 | 467.9 | 452.0 | 462.9 | 464.1 | 463.2 | 470.6 | 471.0 | 479.9 | 307.0 |
| Fabricated structural and ornamental metalwork |  | 406.8 | 406.2 | 409.4 | 371.9 | 384.5 | 346.7 | 363.7 | 364.2 | 358.7 | 361.5 | 353.0 | 357.5 | 364.3 |
| Metaldoors, sash, frames, molding, and trim... |  | 340.2 | 342.7 | 340.1 | 340.4 | 328.5 | 287.5 | 309.1 | 288.6 | 283.9 | 292.2 | 276.9 | 296.7 | 292.6 |
|  |  | 445.1 | 433.6 | 428.0 | 415.5 | 424.6 | 401.0 | 412.8 | 408.2 | 416.7 | 422.4 | 406.0 | 393.1 | 382.0 |
| Forgings, iron and steel |  | 548.5 | 544.8 | 533.6 | 513.4 | 475.8 | 449.6 | 454.1 | 443.7 | 467.6 | 487.5 | 496.2 | 502.4 | 507.9 |
| Wrought pipe, welded and heavy-riveted...... |  | 497.2 | 515.8 | 505.1 | 487.1 | 495.4 | 473.0 | 467.3 | 443.1 | 437.7 | 455. 3 | 443. 2 | 457.2 | 610.9 |
|  |  | 447.5 | 445. 2 | 453.0 | 433.1 | 429.4 | 426.8 | 436. 9 | 445.4 | 452.0 | 456.5 | 452.1 | 446.1 | 560.4 |
| Screw-machine products and wood screws.....Steel barrels, kegs, and drums....-. |  | 348.1 | 328.8 | 329.8 | 306.9 | 338.0 | 301.4 | 313.3 | 302.6 | 298.1 | 302.0 | 300.5 | 333.7 | 247.0 |
| Firearms |  | 1,005.6 | 1,018.0 | 998.7 | 963.1 | 927.8 | 952.7 | 945.9 | 915.6 | 906.0 | 911.3 | 872.2 | 846.7 | 2934.8 |
|  |  | 474.6 | 479.2 | 474. 4 | 465. 4 | 454.8 | 436.3 | 440.0 | 431.6 | 444.3 | 459.1 | 465.1 | 471.0 | 488.0 |
| Electrical equipment |  | 444.1 | 447.8 | 445.4 | 442.2 | 434.7 | 418.3 | 419.2 | 410.3 | 420.5 | 432.2 | 436.7 | 443.4 | 475. 6 |
|  |  | 551.4 | 539.7 | 509.1 | 489.4 | 468.9 | 456.9 | 458.6 | 451.4 | 468.5 | 488.4 | 495. 6 | 507.3 | 505. 0 |
|  |  | 561.3 | 587.6 | 591.6 | 567.3 | 550.6 | 513.4 | 534.8 | 530.0 | 551.2 | 578.6 | 593.7 | 586.4 | 538.2 |
| Machinery, except electrical ${ }^{\text {2 }}$ | 473.7 | 491.6 | 486.9 | 491.7 | 484.0 | 482.3 | 473.6 | 480.7 | 466.4 | 463.8 | 475.2 | 471.9 | 473.8 | 443.7 |
| Machinery and machine-s |  | 532.6 | 527.3 | 531.5 | 523.2 | 520.0 | 507.9 | 519.6 | 509.3 | 511.9 | 514.7 | 513.7 | 513.0 | 501.8 |
| Engines and turbines |  | 639.3 | 620.1 | 622.1 | 581.9 | 594.5 | 585.4 | 601.4 | 617.6 | 611.7 | 632.3 | 622.1 | 625.5 | 849.4 |
| Tractors. |  | 369.6 | 358.4 | 364.1 | 360.5 | 369.1 | 369.2 | 355.5 | 285.4 | 248.9 | 353.8 | 351.9 | 354.3 | 256.7 |
| Agricultural machinery, |  | 613.7 | 592.4 | 597.9 | 577.1 | 559.3 | 574.2 | 595.4 | 571.2 | 571.9 | 576.8 | 550.5 | 534.9 | 298.6 |
| Machine tools |  | 248.0 | 248.1 | 250.3 | 248.3 | 246.8 | 239.0 | 242.9 | 240.7 | 240.2 | 249.2 | 254.4 | 250.1 | 503.9 |
| Machine-tool acces |  | 395.7 | 387.1 | 391.8 | 391.0 | 400.8 | 361.6 | 383.5 | 389.9 | 392.6 | 388.9 | 398.0 | 398.6 | 671.1 |
| Textile machinery |  | 461.4 | 452.0 | 453.2 | 458.9 | 454.3 | 438.6 | 459.1 | 444.8 | 441.3 | 443.2 | 420.9 | 417.9 | 230.1 |
| Pumps and pumpi |  | 632.9 | 625.5 | 620.1 | ${ }^{615.0}$ | 605.0 | 605.0 | 616.5 | 630.7 | 630.2 | 638.0 | 647.5 | 642.2 | 761.8 |
| Typewriters....-.-.-.-.-.-.-.-.-. |  | 265.7 | 271.1 | 255.0 | 286.8 | 298.0 | 319.2 | 325.2 | 325.0 | 336.8 | 347.5 | 357.6 | 366.1 | 143.8 |
| Cash registers; adding, and calculating machines |  | 494.2 | 487.9 | 481.3 | 492.3 | 489.2 | 507.0 | 505.9 | 489.4 | 504.7 | 499.9 | 489.0 | 491.9 | 341.6 |
| W ashing machines, wringers, and driers, domestic |  | 316.6 | 470.0 | 484.2 | 460.6 | 469.3 | 439.2 | 480.9 | 454.2 | 465.3 | 454.0 | 470.4 | 464.3 | 301.5 |
| Sewing machines, domestic and industrial |  | 504.1 | 501.9 | 491. 6 | 478.8 | 460.4 | 432.3 | 439.5 | 428.0 | 399.9 | 414.5 | 404.0 | 397.9 | 282. 3 |
|  |  | 490.0 | 486.2 | 508.7 | 493.3 | 491.4 | 486.0 | 508.9 | 472.3 | 450.4 | 454.7 | 433.7 | 479.2 | 264.5 |
|  | 608.5 | 635.5 | 611.8 | 613.3 | 581.8 | 547.7 | 552.4 | 561.2 | 566.4 | 601.4 | 600.4 | 593.3 | 611.2 | 3080.3 |
| Transportation equipment, except automobiles Locomotives |  | 1,024.4 | 942.5 | 909.4 | 948.4 | 599.4 | 907.3 | 913.7 | 916.4 | 928.1 | 908.6 | 869.2 | 883.0 | 1107.3 |
| Cars, electric- and steam-railroadAircraft and parts, excluding aircraft engines.-.-- |  | 565.9 | 535.4 | 526.6 | 477.3 | 516.9 | 467.9 | 492.5 | 478.5 | 483.8 | 490.3 | 479.5 | 500.6 | 457.9 |
|  |  | 839.0 | 830.7 | 794.9 | 746.1 | 698.4 | 661.1 | 649.2 | 634.2 | 695.2 | 675.9 | 667.3 | 657.4 | 3496. 3 |
|  |  | 618.9 | 601.3 | 599.7 | 570.0 | 453.7 | 533.1 | 517.5 | 493.5 | 481.0 | 473.9 | 469.4 | 482.9 | 4528.7 |
|  |  | 288.6 | 262.4 | 291.2 | 283.1 | 290.6 | 304.5 | 321.7 | 345.7 | 373.6 | 383.7 | 385. 4 | 416.7 | 3594.7 |
| Shipbuilding and boatbuilding |  | 353.7 | 468.2 | 474.3 | 424.5 | 374.2 | 301.8 | 345.7 | 370.5 | 418.2 | 426.6 | 420.6 | 414.5 | 253.6 |
| Automobiles | 455.3 | 455.6 | 436.5 | 451.3 | 425.9 | 419.1 | 423.3 | 385.7 | 362.6 | 386.2 | 396.5 | 357.6 | 408.7 | 321.2 |
| Nonferrous metals and their products ${ }^{2}$ Smelting and refining, primary, of nonferrous metals. | 372.2 | 390.2 | 391.9 | 394.2 | 386.3 | 379.3 | 360.6 | 368.2 | 362.5 | 368.3 | 377.1 | 372.9 | 372.7 | 354.5 |
|  |  | 342.1 | 340.0 | 344.6 | 342.4 | 345.7 | 338.6 | 329.7 | 321.6 | 314.1 | 307.2 | 303.7 | 303.1 | 353.9 |
| Alloying; and rolling and drawing of nonferrous metals, except aluminum. |  | 309.8 | 298.2 | 308.0 | 307.0 | 298.5 | 284.3 | 278.3 | 268.9 | 271.7 | 283.5 | 273.2 | 273.4 | 353.4 |
|  |  | 331.6 | 348.1 | 353.0 | 348.6 | 334.9 | 304.5 | 332.2 | 327.4 | 336.8 | 339.1 | 333.4 | 326.2 | 238.4 |
| Clocks and watches Jewelry (precious metals) and jewelers findings |  | 402.3 | 407.3 | 397.0 | 383.8 | 365.9 | 345.7 | 372.5 | 362.4 | 377.7 | 391.8 | 396.2 | 383.4 | 211.8 |
| Silverware and plated ware......................- |  | 545.2 | 572.0 | 565.0 | 555.4 | 519.4 | 481.8 | 527.4 | 522.4 | 529.4 | 543.3 | 525. 6 | 520.5 | 212.8 |
| Lighting equipment....... <br> Aluminum manufactures |  | 335.4 | 343.1 | 340.0 | 345.6 | 328.2 | 317.0 | 305.9 | 293.3 | 308.3 | 328.4 | 333.7 | 337.8 | 240.4 |
|  |  | 357.5 | 360.2 | 355.7 | 325.8 | 332.9 | 316.8 | 338.5 | 347.0 | 356.8 | 362.0 | 366.8 | 371.3 | 591.6 |
| Sheet-metal work, not elsewhere classified....-- |  | 455.1 | 452.3 | 467.4 | 443.9 | 454.5 | 434.1 | 438.1 | 430.2 | 434.8 | 450.6 | 447.1 | 454.4 | 357.6 |
| Lumber and timber basic products ${ }^{2}$ | 421.0 | 468.8 | 499.7 | 519.2 | 523.3 | 538.8 | 502.9 | 488.5 | 461.1 | 433.4 | 427.6 | 417.2 | 413.5 | 215.1 |
|  |  | 505.7 | 549.7 | 575.3 | 584.4 | 604.6 | 563.3 | 543.3 | 496.8 | 471.0 | 466.4 | 452.4 | 450.3 | 238. 3 |
|  |  | 488.7 | 486.4 | 491.9 | 478.6 | 485.4 | 455.3 | 456.1 | 445.1 | 435.4 | 424.7 | 422.2 | 417.1 | 197.8 |
| Furniture and finished lumber products ${ }^{2}$ | 317.9 | 345.4 | 349.2 | 354.9 | 344.5 | 337.3 | 320.4 | 326.0 | 325.6 | 333.0 | 349.2 | 350.2 | 352.2 | 183.9 |
| Mattresses and bedsprings....-....-. |  | 351.3 | 371.2 | 414.3 | 411.5 | 385. 5 | 354.1 | 347.9 | 340.2 | 359.5 | 387.9 | 410.9 | 414.0 | 165.7 |
|  |  | 354.4 | 356.7 | 358.1 | 344.2 | 334.8 | 317.5 | 325.7 | 328.6 | 336.3 | 353.4 | 356.0 | 355.4 | 185.3 |
| Wooden boxes, other than cigar |  | 315.2 | ${ }^{318.6}$ | 325.0 | 315.7 | 327.3 | 318.6 | 325. 7 | 301.1 | 304.8 | 320.5 | 311.8 | 324.4 | 215.8 |
|  |  | 282.4 | 287.8 | 284.9 | 289.7 | 289.0 | 273.4 | 283.4 | 289.2 | 300.3 | 315.7 | 310.5 | 314.4 | 159.3 |
| Wood preserving ................-.-- |  | 368.4 | 378.3 | 383.3 | 379.3 | 382.8 | 378.0 | 358.1 | 351.5 | 334.2 | 331.6 | 311.6 | 352.3 | 181.9 |
| Wood turned and |  | 331.1 | 328.3 | 338.7 | 323.8 | 332.1 | 313.9 | 322.8 | 325.1 | 331.8 | 339.0 | 327.9 | 318.0 | 175.5 |
| Stone, clay, and glass products ${ }^{2}$ -Glass and glassware | 349.5 | 366.9 | 366.9 | 372.1 | 361.2 | 358.9 | 334.2 | 347.1 | 343.4 | 337.9 | 336.6 | 321.4 | 322.9 | 189.1 |
|  |  | 385. 3 | 384.0 | 395.8 | 383.2 | 369.3 | 327.9 | 360.5 | 364.4 | 367.1 | 370.0 | 350.9 | 354.3 | 208.3 |
| Glass products made from p |  | 350.7 | 344.6 | 329.0 | 310.9 | 309. 3 | 293.4 | 308.5 | 304.6 | 299.1 | 307.8 | 307.0 | 312.1 | 165. 9 |
| Cement |  | 312.2 | 315.2 | 316.1 | 310.4 | 322.5 | 319.2 | 314.0 | 305.0 | 288. 2 | 278.5 | 273.9 | 275.7 | 156.5 |
| Brick, tile, and terra |  | 355.5 | 356.5 | 362.4 | 353.5 | 358.6 | 335.7 | 338.1 | 328.6 | 312.9 | 304.1 | 285.4 | 303.6 | 135.8 |
| Pottery and related products |  | 404.1 | 407.5 | 399.8 | 374.0 | 383.4 | 345.2 | 364.2 | 359.8 | 357.0 | 361.2 | 345.2 | 345.4 | 191.9 |

Table A-8: Indexes of Production-Worker Weekly Pay Rolls in Manufacturing Industries ${ }^{1}$-Con.

| Industry group and industry | 1949 | 1948 |  |  |  |  |  |  |  |  |  |  |  | Annual average |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Jan. | Dec. | Nov. | Oct. | Sept. | Aug. | July | June | May | Apr. | Mar. | Feb. | Jan. | 1943 |
| Durable goods-Continued |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Stone, clay, and glass products ${ }^{2}$ - Continued |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Gypsum |  | 378.5 | 387.7 | 397.1 | 386.5 | 380.1 | 353.2 | 352.7 | 349.7 | 343.7 | 328.3 | 320.1 | 325.2 | 151.7 |
| Wallboard, plaster (except gypsum), and mineral wool |  | 493.0 | 495.7 | 493.8 |  | 484.7 | 491.6 |  |  | 467.9 |  | 431.7 | 429.9 | 223.8 |
| Lime |  | 313.0 | 322.3 | 326.9 | 323.8 | 324.5 | 309.9 | 475.7 311.9 | 465.0 314.7 | 467.9 314.5 | 448.7 301.5 | 431.7 280.3 | 429.9 286.0 | 223.8 |
| Marble, granite, slate, and other |  | 204. 2 | 190.9 | 196.8 | 194.2 | 195. 6 | 184.9 | 185.9 | 183.2 | 176.6 | 179.3 | 169.5 | 173.5 | 171.6 90.8 |
| Abrasives....- |  | 593.7 | 583.3 | 594.6 | 588.5 | 576.3 | 571.6 | 578.8 | 565.0 | 546.6 | 560.2 | 526.0 | 417. 4 | 90.8 480.2 |
| Asbestos produ |  | 390.6 | 398.4 | 414.5 | 402.7 | 395.6 | 377.5 | 385.4 | 380.0 | 378.5 | 376.2 | 370.6 | 370.4 | 254.6 |
| Nondurable goods |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Textile-mill products and other fiber manufactures ${ }^{2}$ | 276.7 | 291.9 | 291.9 | 291.2 | 295.5 | 298.2 | 285.4 | 304.6 | 303. 8 | 307.1 | 315.6 | 310.6 | 303.0 | 178.9 |
| Cotton manufactures, except smallwares |  | 352.7 224.2 | 348.9 222.1 | 350.0 222.5 | 354.9 228.7 | 357.4 | 342. 0 | 365. 9 | 369.7 298 | 374. 7 | 385.1 | 377. 0 | 303.9 378.7 27 | 178.9 215.9 |
| Silk and rayon goods |  | 224.2 293.4 | 222.1 299.1 | 222.5 299.4 | 228.7 301.3 | 227.3 295.2 | 226.5 276.9 | 238.0 292.2 | 238.3 289.0 | 243.0 287.6 | 249.1 288.0 | 249.3 | 243.8 | 214.6 |
| Woolen and worsted manufactures, except dyeing and finishing. |  | 270.4 270.9 | 268.8 | 299.4 265.7 | 301.3 286.1 | 295.2 297.8 | 276.9 | 292.2 | 289.0 | 287.6 | 288.0 | 282.2 | 271.5 | 138.6 |
| Hosiery |  | 201.8 | 210.3 | 208.8 | 201.1 | 202.8 | 184.2 | 199.8 | 197.6 | 208. 6 | ${ }_{212} 22.1$ | 321.1 | 292.0 | 199.5 |
| Knitted cloth |  | 227.0 | 232.9 | 228.7 | 219.7 | 228.4 | 224.4 | 223.2 | 223.1 | 237.1 | 243.3 | 242.6 | 236.5 | 109.6 174.7 |
| Knitted outerwear and knitted |  | 264.6 | 272.7 | 249.8 | 250.5 | 244.1 | 228. 2 | 260.8 | 266.4 | 261.2 | 268.8 | 269.1 | 251.9 | 174.7 |
|  |  | 256.1 | 273.6 | 291.2 | 297.3 | 313.2 | 305.2 | 324.9 | 326.5 | 344.5 | 348.1 | 334.4 | 329.6 | 192.7 183.3 |
| Dyeing and finishing textiles, including woolen and worsted. |  | 327.7 | 316.8 | 311.6 | 310.7 | 309.2 | 299.8 | 320.6 | 321.7 |  |  |  |  |  |
| Carpets and rugs, wool |  | 389.8 | 393.5 | 393.2 | 387. 5 | 381.5 | 368.4 | 371.8 | 358.1 | ${ }^{3} 48.8$ | 332.1 | 334.6 346.0 | 326.8 340.5 | 174.9 145.2 |
| Hats, fur-felt |  | 175.3 | 163.1 | 162.9 | 180.9 | 200.3 | 171.8 | 197.4 | 184.6 | 176. 4 | 197.5 | 202.2 | 195.8 | 145. 2 |
|  |  | 283.6 | 285.9 | 266.8 | 248.4 | 282.2 | 273.0 | 277.5 | 272.2 | 275.9 | 264.2 | 265.7 | 250.1 | 121.5 |
|  |  | 288.6 | 291.5 | 284.7 | 283.7 | 286.4 | 288.2 | 306.5 | 303. 4 | 311.4 | 330.4 | 337.6 | 330.6 | ${ }_{240.3}$ |
| Apparel and other finished textile products.......- | 327.2 | 327.4 | 335.4 | 325.0 | 348.1 | 342.3 | 303.6 | 303.6 | 297.9 | 306.5 | 343.2 | 345.2 | 337.0 | 185.2 |
| Men's clothing, not elsewhere classified |  | 293. 0 | 297.5 | 302.4 | 324.7 | 324.0 | 294.1 | 312. 9 | 311.5 | 317.1 | 324.8 | 316.4 | 331.0 313.4 | 185.2 174.9 |
| Shirts, collars, and nightwear |  | 233.4 | 258.8 | 256.0 | 254.0 | 247.1 | 246.6 | 258.5 | 266.8 | $\stackrel{374.6}{ }$ | 279.7 | 272.0 | 273. 0 | 143.6 148.6 |
| Underwear and neckwear, |  | 322.2 | 335. 6 | 309.9 | 301.3 | 294.1 | 269.6 | 289.1 | 296.7 | 297.0 | 313.7 | 300.0 | 292.0 | 166.5 |
| Work shirts |  | 319.6 | 339.5 | 352.4 | 341.4 | 340.0 | 326.4 | 333.9 | 325.8 | 316.1 | 305.6 | 284.6 | 247. 5 | 220.4 |
| Women's clothing, not else |  | 369.8 | 379.8 | 351.0 | 390.2 | 380.3 | 326.6 | 310.7 | 299.3 | 307.1 | 376.4 | 387.1 | 374.8 | 184.4 |
| Corsets and allied |  | 231.9 | 235.8 | 233.1 | 225. 3 | 217.0 | 201.1 | 210.8 | 213.0 | 229.1 | 241.6 | 237.7 | 234.5 | 137.1 |
| Millinery--.-- |  | 167.5 | 138.8 | 193.1 | 201.5 | 197.0 | 165.3 | 132.0 | 127.9 | 171.3 | 212.5 | 236.0 | 204.4 | 123.3 |
| Handkerchiefs--------1--1-1 |  | 295.1 | 303.2 | 289.3 | 259.4 | 241.0 | 181.3 | 231.0 | 239.1 | 251.5 | 259.4 | 243.4 | 222.5 | 184.0 |
| Curtains, draperies, and bedspreads Housefurnishings, other than curtai |  | 343.5 | 372.2 | 375. 4 | *379.9 | 382.1 | 317.6 | 330.8 | 334.8 | 348.5 | 397.0 | 431.4 | 419.1 | 230.2 |
|  |  | 705.9 | 727.7 | 698.6 | 634.9 | 633.4 | 573.0 | 587.3 | 544.2 | 584.6 | 609.2 | 572.9 | 597.8 | 370. 3 |
|  |  | 5.1 | 503.3 | 500. 3 | 549.5 | 521.9 | 498.3 | 471.1 | 464.8 | 446.4 | 449.3 | 461.7 | 481.1 | 233.0 |
| Leather and leather products ${ }^{2}$ | 235.0 | 234.3 | 223.3 | 236.8 | 245.1 | 248.3 | 236.5 | 233.4 | 215.4 | 227.1 | 251.7 | 262.5 | 258.7 | 154.2 |
| Leather- |  | 210.9 | 202.0 | 206. 3 | 206.5 | 207.3 | 203.6 | 205. 2 | 201.1 | 197.9 | 206.4 | 216.4 | 214.8 | 140.6 |
| Boot and shoe c Boots and shoes |  | 178.1 | 166.5 | 175.3 | 185. 2 | 189.5 | 178.6 | 179.9 | 169.6 | 173.4 | 187.9 | 198.6 | 201.4 | 142.2 |
| Boots and shoes...- |  | 227.4 | 211.3 | 227.6 | 238.7 | 242.9 | 230.6 | 225.3 | 202.8 | 219.5 | 249.7 | 261.0 | 258.3 | 142.0 |
| Leather gloves and |  | 209.9 | 259.4 | 266.8 | 274.5 | 285.4 | 267.4 | 273.6 | 256.9 | 241.3 | 252.8 | 252.2 | 245.3 | 239.4 |
| Trunks and suitcas |  | 339.8 | 410.5 | 401.4 | 393.3 | 376.2 | 339.5 | 339.5 | 339.8 | 347.2 | 364.1 | 366.9 | 321.6 | 240.3 |
| Food ${ }^{2}$ | 312.8 | 333.5 | 340.7 | 358.2 | 389.8 | 351.3 | 352.2 | 328.3 | 281.3 | 267.4 | 285.8 | 288.5 | 296. 6 | 180.9 |
| Slaughtering and meat p |  | 365. 6 | 336.2 | 305. 4 | 303.5 | 296.0 | 318.8 | 329.2 | 226.4 | 192.5 | 295.8 | 280.6 | 323.0 | 188.6 |
| Butter-........-- |  | 382.6 407.4 | 379.0 | 384.7 | 397.8 | 418.5 | 432.6 | 429.8 | 407.2 | 381.0 | 348.2 | 332.7 | 330.3 | 231.0 |
| Condensed and e Ice cream |  | 407.4 270.4 | 424.4 273.9 | 435.6 291.2 | 473.7 333.5 | 492.5 348.4 | 509.9 365.8 | 520.3 | 477.9 | 438.1 | 403.0 | 388.1 | 369.8 | 268.5 |
| Flour |  | 346. 6 | 351.9 | 295. 2 | 333.5 360.7 | 348.4 368.6 | 365.8 368.3 | 341.5 339.9 | 311.3 | 286. 4 | 261.3 | 250.9 | 248.0 | 170.6 |
| Feeds, prepared |  | 396.0 | 405.9 | 405.8 | 415.4 | 405.0 | 400.0 | 391.7 | 367.4 | 337. 1 | 329.6 | 318.2 314.7 | 326.0 379.0 | 182.9 230.0 |
| Cereal prepara |  | 326.8 | 342.3 | 341.6 | 326.0 | 349. 5 | 377.5 | 353. 7 | 333.6 | 313.0 | 297.8 | 322.2 | 307.8 | 223.3 |
| Sugar refining, cane |  | 279.5 | 280.8 | 286.6 | 282.6 | 273.5 | 273.5 | 270.8 | 259.2 | 250.7 | 249.8 | 257.2 | 243.2 | 153.0 |
| Sugar refining, cane |  | 318. 4 | 285.3 | 286.4 | 348.2 | 369.5 | 378.5 | 295.0 | 274.4 | 275.8 | 298.5 | 278.8 | 261.2 | 152.8 |
| Confectionery |  | 347.0 | ${ }^{5288 .} 7$ | 455.8 4 | 2075.7 | 161.1 | 138.6 | 130.6 | 117.0 | 100.6 | 103. 2 | 132.2 | 195.9 | 119.6 |
| Beverages, nonalco |  | 284.7 | 287.1 | 298.6 | 340.9 | 349.0 | ${ }^{258.1}$ | 261.8 342.6 | 235.5 311.6 | 265.2 289.9 | 283.4 270.7 | 302.6 254 | 323.8 265.6 | 157.6 163.2 |
| Malt liquors |  | 359.5 | 377. 4 | 371.8 | 417.2 | 419.6 | 435.7 | 389.9 | 332.8 | 350.3 | 324.4 | ${ }^{254 .} 7$ | 265.6 319.9 | 180.5 |
| Canning and pr |  | 280.0 | 313.7 | 537.1 | 835.0 | 525.4 | 469.2 | 314.8 | 260.4 | 240.8 | 227.0 | 239.9 | 239.3 | 216.0 |
| Tobacco manufactures ${ }^{2}$ $\qquad$ <br> Cigarettes $\qquad$ <br> Cigars <br> Tobacco (chewing and smoking) and snuff | 200.5 | $\begin{aligned} & 217.9 \\ & 269.2 \\ & 192.1 \\ & 178.5 \end{aligned}$ | 223.5 | 224.3 | 214.8 | 218.3 | 205.5 | 205.8 | 201.3 | 205.7 | 204.6 | 195.7 | 210.5 | 151.0 |
|  |  |  | 264.4 | 279.0 | 268.1 | 288.3 | 270.0 | 263.1 | 253.1 | 254.3 | 246.5 | 219.2 | 259.6 | 172.0 |
|  |  |  | 207. 4 | 197.2 | 187.4 | 180.9 | 171. 1 | 175.8 | 175.1 | 182.7 | 186.6 | 189.4 | 188.2 | 141.0 |
|  |  |  | 173.1 | 180.7 | 176.1 | 173.3 | 164.1 | 166.7 | 161.8 | 161.6 | 159.6 | 162. 2 | 161.2 | 132.3 |
| Paper and allied products ${ }^{2}$ - | 342.6 | $\begin{aligned} & 356.5 \\ & 357.9 \\ & 394.7 \\ & 315.6 \\ & 362.5 \\ & 335.3 \end{aligned}$ | 362.2 | 357.4 | 355.0 | 352.1 | 341.7 | 337.8 | 331.1 | 325.7 | 330.8 | 328.9 | 328.0 |  |
| Paper and pulp Paper goods, oth |  |  | 364.7 | 359.1 | 362.9 | 363.6 | 357.7 | 347.7 | 343.2 | 333.3 | 335.6 | 333. 8 | 330.3 | 181.6 |
| Paper goods, oth |  |  | 392.8 | 381.2 | 372.3 | 365.1 | 355.3 | 358.4 | 355.0 | 350.7 | 354.2 | 352.9 | 355.1 | 193. 2 |
| Envelopes. <br> Paper bags. |  |  | 318. 4 | 307.0 | 298.3 | 290.0 | 272.9 | 284.0 | 283.3 | 282.1 | 283.7 | 282.8 | 278.0 | 165.7 |
| Paper Paper boxes |  |  | 362.4 344.5 | 391.4 | 390.2 | 392.7 | 380.0 | 364.4 | 355.4 | 365.3 | 373.7 | 357.8 | 368.1 | 183.4 |
| Printing, publishing, and allied industries ${ }^{2}$ |  |  |  |  |  |  | 294.9 | 304.8 | 290.4 | 292.5 | 305.4 | 307.1 | 309.1 | 189.6 |
|  | 268.8 | $\begin{aligned} & 280.6 \\ & 258.9 \\ & 316.0 \\ & 233.3 \\ & 310.6 \end{aligned}$ | 275.4 | 273.6 | 273.6 | 264.8 | 260.1 | 264.9 | 262.2 | 259.5 | 258.5 | 254.7 | 255.3 |  |
| Newspapers and periodi |  |  | 253.3 | 252.2 | 253.6 | 240.6 | 235.5 | 238.1 | 236.5 | 234.6 | 229.2 | 224.6 | 218.9 | 111.7 |
| Printing; book and job Lithographing........ |  |  | 307.9 | 305.4 | 304.8 | 297.6 | 296.0 | 299.3 | 296.7 | 291.0 | 292.5 | 290.9 | 295. 9 | 137.3 |
| Lithographing |  |  | 234.5 | 235.5 | 233.1 | 231.8 | 223.5 | 230.3 | 224.1 | 221.4 | 227.2 | 219.0 | 224.0 | 124.9 |
| Bookbinding |  |  | 315.1 | 309.7 | 307.8 | 310.2 | 291.8 | 310.0 | 302.9 | 304.0 | 313.4 | 307.7 | 315.3 | 174.8 |

Table A-8: Indexes of Production-Worker Weekly Pay Rolls in Manufacturing Industries ${ }^{1}$-Con.
[1939 average $=100$ ]


See footnotes 1 and 2, table A-6.

## *Revised.

Table A-9: Estimated Number of Employees in Selected Nonmanufacturing Industries ${ }^{1}$

1 Unless otherwise noted, data include all emplovees. Data for the three 1 Unless otherwise noted, data include ail employees. Data for the three
most recent months are subject to revision without notation. Revised most recent months are subject to revision without notation. Revised figures for earlier months
publication of such data.
a
Includes production and related workers only.
${ }_{3}^{2}$ Includes production and related workers only. Agency data through 1946 and have been carried forward from 1946 benchmark levels, thereby providing consistent series.
©Does not include well drilling or rig building.
${ }^{5}$ Includes all employees at middle of month. Excludes employees of witching and terminal companies. Class I steam railroads include those with over $\$ 1,000,000$ annual revenue. Source: Interstate Commerce Comwith ove
mission.
${ }_{6}$ Includes private and municipal street-railway companies and affiliated, subsidiary, or successor trolley-bus and motor-bus companies.
Includes all land-line employees except those compensated on a commission basis. Excludes general and divisional headquarters personnel, trainees in school, and messengers.

Table A-10: Indexes of Employment in Selected Nonmanufacturing Industries ${ }^{1}$ [1939 average $=100$ ]


Table A-11: Indexes of Weekly Pay Rolls in Selected Nonmanufacturing Industries ${ }^{1}$

| Industry group and industry | [1939 average $=100$ ] |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1949 | 1948 |  |  |  |  |  |  |  |  |  |  |  | $\begin{gathered} \text { Annu- } \\ \text { al aver- } \\ \text { age, } \\ 1943 \end{gathered}$ |
|  | Jan. | Dec. | Nov. | Oct. | Sept. | Aug. | July | June | May | Apr. | Mar. | Feb. | Jan. |  |
| Mining: ${ }^{23}$ <br> Coal: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Bituminous | 238.6 | 224. 6 | 216.0 | 260.4 | 247.3 | 260.3 | 193. 3 | 246.0 | 246.2 | 195.4 | 255.9 | 232.8 | 242.4 | 146.1 |
| Metal...-... | 222.8 | 353.3 225.9 | ${ }_{216.8}^{343.1}$ | 358.5 224.9 | 311. 2 | 365.8 210.4 | 293.0 | 344.2 | 344.3 | 167.4 | 342.0 | 320.0 | 350.5 | 203.3 |
| Iron.-. | 354.4 | 358.0 | 355.0 | 271.6 | 361.0 | 210.4 355.8 | 202.2 331.5 | 208.2 345.0 | 206.1 336.3 | 201.7 319 | 201.3 313 | ${ }^{201}{ }^{201} 7$ | 198.9 | 184.9 |
| Copper---- | 241.2 | 245.4 | 232. 2 | 255.6 | 247.6 | 254.8 | 242.4 | 338.0 232.9 | 336.3 232.6 | 319.7 232.6 | 313.8 234.8 | 310.3 241.7 | 302.7 238.0 | 257.9 |
| Lead and zinc. | 278.0 | 277.8 | 265.4 | 252.7 | 199.2 | 189.1 | 193.2 | 238.1 | 238.9 | 235.8 | 232.8 | 235.0 | 238.1 | 214.6 226.7 |
| Gold and silver | 60.6 | 61.1 | 56.6 | 56.4 | 54.1 | 56.1 | 57.1 | 54.2 | 54.6 | 55.2 | 56.7 | 58.4 | 56.4 | 226.7 37.2 |
| Miscellaneous...-.-.-- | 412.3 | 438.1 | 401.4 | 405.0 | 406.7 | 387.5 | 383.0 | 360.7 | 352.5 | 343.1 | 349.2 | 347.4 | 348.4 | 37.2 560.7 |
| Crude petroleum and natural gas production | 245.1 | ${ }_{235}^{321.2}$ | 329.5 | 345.2 | 342.4 | 348.5 | 329.7 | 329.1 | 312.5 | 295.4 | 272.7 | 262.0 | 272.8 | 199.6 |
| Transportation and public utilities: | 245.1 | 235.7 | 235.3 | 230.7 | 235.6 | 251.0 | 240.8 | 227.1 | 223.4 | 213.4 | 208.3 | 219.9 | 215.5 | 128.0 |
| Class I steam railroads..-. | (5) | (b) | (5) | (8) | (5) | (5) | (8) | (b) | (5) | (b) | (6) | (b) |  |  |
| Street railways and busses | 231.3 | 233.4 | 231.2 | 235.7 | 239.7 | 240.7 | 232.2 | 231.2 | 228.1 | 227.1 | 232.6 | 234.7 | 230 | (b) |
| Telegraph ${ }^{\text {T }}$ | 337.2 | 339.7 | 349.7 | 338.8 | 335.4 | 331.7 | 336.1 | 327.1 | 326.1 | 317.7 | 314.7 | 316.3 | 315.8 | 155.7 144.9 |
| Electric light and pow | 210.9 | 212.6 | 215.3 | 217.4 | 220.4 | 225.5 | 233.2 | 228.5 | 231.1 | 224.8 | 213.0 | 212.6 | 209.5 | 144.9 159.3 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Retail. | 222.6 | 250.4 | 228.4 | 223.5 | 220.8 | 220.6 | 215.3 | 211.8 | 211.8 213 | 211.0 | 210.8 | 214.9 | 211.7 | 127.0 |
| Food | 232.4 | 234.8 | 229.6 | 227.4 | 226.0 | 229.0 | 23.8 | 218.3 231.9 | 213.8 227.0 | 225.5 | 210.4 226.1 | ${ }_{212}^{208.5}$ | 209.4 219.4 | 120.6 |
| General mer | 248.3 | 334.8 | 270.3 | 252.7 | 238.3 | 231.8 | 233.6 | 236.5 | 229.2 | 225.8 | 225.5 | 221.4 | 233.4 | 129.2 135.9 |
| Apparel.- | 211.9 | 254.7 | 226.5 | 222.2 | 210.8 | 195.5 | 202.1 | 214.3 | 211.8 | 209.2 | 208.8 | 194.3 | 198.8 | 135.9 133.9 |
| Furniture and housefu | 186.8 | 201.0 | 182.5 | 184.3 | 179.9 | 178.5 | 176.7 | 179.6 | 180.3 | 175.6 | 173.7 | 177.8 | 174.5 | 133.9 86.5 |
| Automotive Lumber and building | 216.5 | 224.7 | 219.0 | 215.6 | 217.0 | 219.6 | 213.4 | 209.6 | 205.3 | 204.7 | 197.5 | 196.8 | 193.9 | 86.5 84.7 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Hotels (year-round) ${ }^{\text {a }}$ | 235.6 | 237.9 | 237.9 | 238.7 | 235.3 | 233.7 | 234.4 | 236.3 | 234.6 |  |  |  |  |  |
|  |  | 227.7 | 226.9 | 227.6 | 232.9 | 228.1 | 240.6 | 238.3 | 232.3 | 231.5 | $\begin{aligned} & 227.5 \\ & 291.2 \end{aligned}$ | 225. 4 | $\begin{aligned} & 232.9 \\ & 285.6 \end{aligned}$ | $\begin{aligned} & 167.0 \\ & 185.4 \end{aligned}$ |
|  |  | 291.3 289.3 300.0 296.8 |  |  |  | 287.2 | 308.0 | 324.8 | 312.4 | 308.0 |  |  |  |  |
| ${ }^{1}$ See footnote 1, table A-9. <br> ${ }^{2}$ See footnote 2, table A-9. <br> ${ }^{3}$ See footnote 3, table A-9. <br> - See footnote 4, table A-9. <br> ${ }^{5}$ Not available. <br> - See footnote 6, table A-9. <br> ${ }^{7}$ See footnote 7, table A-9. <br> 8 See footnote 8, table A-10. <br> - Money payments only; additional value of board, room, uniforms, and tips, not included. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

Table A-12: Federal Civilian Employment by Branch and Agency Group ${ }^{1}$

| Year and month | All branches | Executive ${ }^{\text {a }}$ |  |  |  | Legislative | Judicial | Government corporations ${ }^{3}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Total | Defense agencies | Post Office Department ${ }^{6}$ | All other agencies |  |  |  |
|  | Total (including areas outside continental United States) |  |  |  |  |  |  |  |
| 1939 | 968,596 $3,183,235$ | 935,493 $3,138,838$ | 207,979 $2,304,752$ | 319,474 364,092 | 408,040 469,994 | 5,373 6,171 | 2,260 2,636 | $\begin{array}{r} 25,470 \\ 35,590 \end{array}$ |
| 1948: January .-. | 1,983,182 | 1,943, 466 | 890, 719 | 430,310 | 622, 437 | 7,046 | 3, 461 | 29,209 |
| 1018. February-.-- | 1,986, 946 | 1,947, 317 | 895, 850 | 427, 480 | 623, 987 | 7,101 | 3, 470 | 29,058 |
| March | 1, 996, 306 | 1,956, 507 | 897, 917 | 431, 691 | 626, 899 | 7,217 | 3, 462 | 29,120 |
| April. | 2, 010, 189 | 1, 970, 562 | 903, 814 | 438, 824 | 627, 924 | 7,186 | 3,461 | 28,980 |
| May -- | 2, 025, 801 | 1,986, 188 | 909, 885 | 442, 661 | 633, 642 | 7,257 | 3,468 | 28, 888 |
| June... | 2, 038, 194 | 1, 998, 797 | 916, 864 | 442, 588 | 635, 345 | 7,308 | 3,459 | 28, 630 |
| July.--- | 2, 065,672 $2,073,728$ | 2, $2,026,086$ | 919,784 924,555 | 452,932 455,549 | 653,370 654,434 | 7,305 7,341 | 3,477 3,495 | 28,804 28,354 |
| September. | 2, 083, 630 | 2,044, 087 | צ33, 214 | 457, 003 | 653, 870 | 7,377 | 3, 385 | 28, 681 |
| October. | 2, 076,035 | 2, 036, 951 | 931, 918 | 458, 414 | 646, 619 | 7,355 | 3, 500 | 28, 229 |
| November. | 2, 078, 661 | 2, 039, 218 | 934, 509 | 459,685 | 645, 024 | 7,443 | 3,537 | 28, 463 |
| December- | 2, 375, 099 | 2, 335, 762 | 937, 178 | 754, 128 | 644, 456 | 7,343 | 3,512 | 28,329 |
| 1949: Januar | 2, 089, 428 | 2, 050, 202 | 933, 670 | 475, 832 | 640, 700 | 7,414 | 3,538 | 28, 274 |
|  | Continental United States |  |  |  |  |  |  |  |
| $1939$ | 926,659 |  |  |  |  | 5, 373 | 2, 180 | 21, 504 |
| $1943-$ | 2, 913, 534 | 2, 875, 928 | 2, 057,696 | 363, 297 | 454, 935 | 6,171 | 2,546 | 28,889 |
| 1948: January -- | 1, 760, 689 | 1,728, 265 | 704, 251 | 428, 783 |  |  |  | 21, 990 |
| February | $1,760,914$ $1,770,672$ | 1, 728, 482 | 705,792 708,934 | 425, 998 | 596, 692 | 7,101 | 3,396 | 21, 935 |
| March---- | 1,770, 672 | 1, 738, 043 | 708, 934 | 430, 116 | 598, 993 | 7,217 | 3,388 | 22, 024 |
| April | 1, 781, 238 | 1, 748, 658 | 710, 991 | 437, 242 | 600, 425 | 7,186 | 3,387 | 22,007 |
| May-- | 1,795, 611 | 1, 763, 092 | 717, 072 | 441, 076 | 604, 944 | 7,257 | 3, 394 | 21, 868 |
| June... | 1,808, 240 | 1,775,838 | 724,683 | 440, 977 | 610,178 | 7,308 | 3, 388 | 21,706 |
| July.....- | 1, 839, 560 | 1, 806, 926 | 732, 217 | 451,339 | 623, 370 | 7, 305 | 3, 406 | 21, 923 |
| August | 1,854, 250 | 1, 821, 574 | 742, 925 | 453, 926 | 624, 723 | 7,341 | 3, 424 | 21, 911 |
| September | 1, 868, 606 | $1,836,008$ $1,836,310$ | 756,500 762,682 | 455,372 456,708 | 624,136 616,920 | 7,377 7,355 | 3,409 3, 426 | 21,812 21,780 |
| November. | 1, 876, 482 | 1,843,888 | 770, 286 | 457, 972 | 615, 630 | 7,443 | 3, 462 | 21,689 |
| December- | 2, 176, 352 | 2, 144, 013 | 777, 474 | 751, 256 | 615, 283 | 7,343 | 3,437 | 21, 712 |
| 1949: January | 1,896, 032 | 1, 863, 569 | 777,679 | 474, 096 | 611, 794 | 7,414 | 3,463 | 21,586 |

[^53]estimated from actual reports as of January 1939 and 1940 and of July 1941 and 1943. From July 1943, through December 1946, employment within continental United States was reported monthly and the number of persons outside the country (estimated from quarterly reports) was added to secure employment in all areas. Beginning January 1947, employment is reported monthly both inside and outside continental United States.
${ }^{3}$ Data for current months cover the following corporations: Federal Reserve banks, mixed ownership banks of the Farm Credit Administration, and the Panama R. R. Co. Data for earlier years include at various times the following additional corporations: Inland Waterways Corporation, Spruce Production Corporation, and certain employees of the Federal Deposit Insurance Corporation and of the Office of the Comptroller of the Currency, Treasury Department. Corporations not included in this column are under the executive branch.
${ }^{4}$ Covers the National Military Establishment, Maritime Commission, National Advisory Committee for Aeronautics, The Panama Canal, and until their abolition or amalgamation with a peacetime agency, the agencies created specifically to meet war and reconversion emergencies.

- For ways in which data differ from published figures of the Civil Service Commission, see footnote 1. Employment figures include fourth-class postmasters in all months. Prior to July 1945, clerks at third-class post offices were hired on a contract basis and therefore, because of being private employees, are excluded here. They are included beginning July 1945, however, when they were placed on the regular Federal pay roll by congressional action.

Table A-13: Federal Civilian Pay Rolls by Branch and Agency Group ${ }^{1}$
[In thousands]

| Year and month | All branches | Executive ${ }^{2}$ |  |  |  | Legislative | Judicial | Government corporations ${ }^{3}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Total | Defense agencies ${ }^{4}$ | Post Office Department ${ }^{\text {s }}$ | All other agencies |  |  |  |
|  | Total (including areas outside continental United States) |  |  |  |  |  |  |  |
| 1939--...- | \$1, 757, 292 | \$1,692, 824 | \$357, 628 | \$586, 347 | \$748, 849 | \$14, 767 | \$6, 691 | \$43, 010 |
| 1944: ${ }^{6}$-...--- | 8, 301, 111 | 8, 206, 411 | 6, 178, 387 | 864, 947 | 1, 163, 077 | 18, 127 | 9, 274 | 67, 299 |
| 1948: January | 488, 071 | 473, 466 | 211, 495 | 100,395 | 161,576 | 2, 442 | 1,346 | 5,817 |
| March | 445,134 498,325 | 435, 8974 | 191, 372 | 108,054 102,124 | 146,468 167,846 | 2, 414 | 1,199 | 5,627 5,807 |
| April. | 477, 620 | 468, 100 | 204, 606 | 100, 894 | 162, 600 | 2, 482 | 1,322 | 5,716 |
| May-- | 474, 725 | 465, 356 | 205, 912 | 100, 925 | 158,519 | 2,469 | 1,207 | 5,693 |
| June | 505, 345 | 495, 792 | 225, 440 | 102, 653 | 167, 699 | 2,536 | 1,279 | 5,738 |
| July.-. | 528, 437 | 518, 639 | 223, 968 | 121, 677 | 172, 994 | 2, 600 | 1,301 | 5,897 |
| August... | 543,421 | 533, 523 | 229, 236 | 122, 320 | 181,967 | 2, 695 | 1,390 | 5, 813 |
| September. | 547, 818 | 537, 969 | 232, 975 | 121, 908 | 183, 086 | 2, 694 | 1,453 | 5,702 |
| October--- | 533,834 550,308 | 523,860 540,393 | 225,675 235,507 | 124,095 125,130 | 174,090 179,756 | 2,656 2,682 | 1,454 1,419 | 5,864 5,814 |
| December- | 624, 693 | 614,566 | 245, 159 | 178, 899 | 190, 508 | 2, 282 | 1,468 | 5, 5,937 |
| 1949: January | 532, 091 | 522, 281 | 224, 999 | 124, 266 | 173, 016 | 2,657 | 1,352 | 5,801 |
|  | Continental United States |  |  |  |  |  |  |  |
| $1944{ }^{6}$ | \$7, 628, 017 | \$7, 540, 825 | \$5, 553, 166 | \$862, 271 | \$1, 125, 388 | \$18, 127 | \$8,878 | \$60, 187 |
| 1948: January | 443, 259 | 434,366 399 | 179, 395 | 100, 052 |  | 2, 442 | 1,309 | 5,142 |
| March | 408, 4514 | 399, 975 | 181, 2894 | 97, 101, 765 | 140,276 160,852 | 2, 414 | 1,165 1,305 | 5, <br> 5, <br> 173 |
| April. | 439, 691 | 430,845 | 174, 409 | 100, 543 | 155, 893 | 2, 482 | 1,287 | 5,077 |
| May | 434. 657 | 426, 011 | 174, 209 | 100, 570 | 151, 232 | 2,469 | 1,174 | 5,003 |
| June | 461, 406 | 452,529 | 189, 974 | 102, 306 | 160,249 | 2,536 | 1,242 | 5,099 |
| July- | 487,057 | 478, 016 | 191,686 | 121, 263 | 165, 067 | 2,600 | 1,263 | 5,178 |
| August | 501, 794 | 492, 593 | 197, 058 | 121, 906 | 173, 629 | 2,695 | 1.351 | 5,155 |
| September | 506, 281 | 497, 084 | 200, 912 | 121, 479 | 174, 693 | 2, 694 | 1,414 | 5,089 |
| October-.. | 491,288 509,069 | 482,045 499.801 | 192,530 203,323 | 123,633 124,667 | 165, 882 | 2,656 | 1,413 | 5, 174 |
| December | 581, 480 | 572, 012 | 211, 614 | 178, 151 | 182, 247 | 2, 2,722 | 1,379 1,428 | 5, 207 5,318 |
| 1949: January. | 493, 368 | 484, 180 | 195, 082 | 123, 815 | 165, 283 | 2,657 | 1,314 | 5,217 |

${ }^{1}$ Data are from a series revised June 1947 to adjust pay rolls, which from July 1945 until December 1946 were reported for pay periods ending during the month, to cover the entire calendar month. Data for the executive branch and for the Panama R. R. Co. are reported through the Civil Service Commission. Data for the legislative and judicial branches and for all Government corporations except the Panama R. R. Co. are reported directly to the Bureau of Labor Statistics. Data for Central Intelligence Agency are excluded.
${ }^{2}$ From 1939 through May 1943, pay rolls were reported for all areas monthly. Beginning June 1943, some agencies reported pay rolls for all areas and some reported pay rolls for the continental area only. Pay rolls for areas outside continental United States from June 1943 through November 1946 (except for the National Military Establishment for which these data were reported ment in these areas (see footnote 2, table A-12, for derivation of the employ-
ment) by the a verage pay per person in March 1944, as revealed in a survey as of that date, adjusted for the salary increases given in July 1945 and Jaly 1946. Beginning December 1946 pay rolls for areas outside the country are reported monthly by most agencies.

See footnote 3, table A-12.
See footnote 4, table A-12

- Beginning July 1945, pay is included of clerks at third-class post offices who previously were hired on a contract basis and therefore were private employees and of fourth-class postmasters who previously were recompensed by the retention of a part of the postal receipts. Both these groups were placed on a regular salary basis in July 1945 by congressional action.
- Dats are shown for 1944, instead of 1943 as in the other Federal tables, because pay rolls for employment in areas outside continental United States are not available prior to June 1943.

Table A-14: Civilian Government Employment and Pay Rolls in Washington, D. C., by Branch and Agency Group ${ }^{1}$

| Year and month | Total government | District of Columbia government | Federal |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Total | Executive |  |  |  | Legislative | Judicial |
|  |  |  |  | All agencies | Defense agencies ? | Post Office Department ${ }^{8}$ | All other agencies |  |  |
|  | Employment ${ }^{\text {a }}$ |  |  |  |  |  |  |  |  |
| 1939-- | 143,548 | 13, 978 | 129,570 | 123, 773 | 18,761 | 5, 099 | 99, 913 | 5,373 | 424 |
| 1948: January | 221, 794 | 18,448 | 203, 346 | 195, 714 | 65, 065 |  |  |  |  |
| February | 224, 517 | 18, 625 | 205, 892 | 198, 201 | 65, 543 | 7,235 | 125, 423 | 7,101 | 590 |
| March_. | 226, 256 | 18,668 | 207, 588 | 199, 784 | 66, 050 | 7,412 | 126, 322 | 7,217 | 587 |
| April | *227, 627 | *18, 626 | 209,001 | 201, 227 | 66, 635 | 7,396 | 127, 196 | 7,186 | 588 |
| May. | *228,877 | *18, 682 | 210, 195 | 202, 350 | 67,212 | 7,380 | 127, 758 | 7,257 | 588 |
| June | 229, 526 | 18, 848 | 210, 678 | 202, 782 | 67, 592 | 7,387 | 127, 803 | 7,308 | 588 |
| July-...- | 233,308 234,253 | 19,294 18,882 | 214,014 215,371 | 206,110 207,438 | 69, 056 | 7,499 7 7 | 122, 555 | 7,305 | 599 592 |
| September | 235, 2363 | 18, 18,853 | 215,371 216,210 | 207, 438 | 70,217 70 | 7,486 | 129,735 129,923 | 7,341 7,377 | 592 588 |
| October-.. | 234, 544 | 18,564 | 215, 980 | 208, 036 | 70,666 | 7,589 | 129, 781 | 7,355 | 589 |
| November | 236, 478 | 19,065 | 217, 413 | 209, 373 | 71, 084 | 7,702 | 130, 587 | 7,443 | 597 |
| December | 241, 444 | 18,764 | 222, 680 | 214, 740 | 72,219 | 10,800 | 131, 721 | 7,343 | 597 |
| 1949: January | 237, 468 | 18,862 | 218, 606 | 210, 589 | 71,202 | 7,623 | 131, 764 | 7,414 | 603 |
|  | Pay rolls (in thousands) |  |  |  |  |  |  |  |  |
| 1939 | \$305, 741 | \$25, 226 | \$280, 515 | \$264, 541 | \$37, 825 | \$12,524 | \$214, 192 | \$14, 765 | \$1,209 |
| 1943 | 737, 792 | 32,884 | 704, 908 | 685, 510 | 352, 007 | 20, 070 | 313, 433 | 17,785 | 1,613 |
| 1948: January |  |  | 58,796 | 56,141 | 16,656 | 2,776 | 36,709 | 2, 442 | 213 |
| February | 57, 991 | 4,281 | 53, 710 | 51, 099 | 15, 910 | 2,165 | 33, 024 | 2,414 | 197 |
| March... | 65, 336 | 4,518 | 60, 818 | 58, 104 | 17,900 | 2, 340 | 37, 864 | 2,499 | 215 |
| April | 62,987 | 4,495 | 58, 492 | 55, 799 | 16, 324 | 2,277 | 37, 198 | 2, 482 | 211 |
| May | 63,492 66,658 | 4,422 | 59,070 | 56,400 59,350 | 18,045 | 2, 234 | 36, 121 | 2,469 | 201 |
| July. | 66,208 67 | 4, ${ }^{\text {a }}$, 461 | 62,097 63,747 | 59,350 60,931 | 19.250 20,235 | 2, 2 2 | 37,800 38,045 | 2,536 2,600 | ${ }_{216} 211$ |
| August | 71,251 | 3,480 | 67, 771 | 64, 848 | 21, 114 | 2, 695 | 41,039 | 2,695 | 228 |
| September | 73, 551 | 4, 607 | 68, 944 | 66, 020 | 22, 141 | 2,722 | 41,157 | 2,694 | 230 |
| October | 70,755 | 4,450 | 66, 305 | 63,421 | 20, 908 | 2,684 | 39,829 | 2,656 | 228 |
| November | 73, 221 | 4,526 | 68,695 | 65, 782 | 21,656 | 2,750 | 41,376 | 2, 682 | 231 |
| December. | 78,846 | 4,741 | 74,105 | 71,139 | 22,526 | 3, 704 | 44,909 | 2, 722 | 244 |
| 1949: January | 71,989 | 4,636 | 67,353 | 64, 470 | 20,614 | 2, 741 | 41,115 | 2, 657 | 226 |

${ }^{1}$ Data for the legislative and judicial branches and District of Columbia Government are reported to the Bureau of Labor Statistics. Data for the executive branch are reported through the Civil Service Commission but differ from those published by the Civil Service Commission in the following respects: (1) Include in December the temporary additional postal employrespects: (1) Include in December the temporary additional postal employService Commission figures starting 1942; (2) include an upward adjustment to Post Office Department employment prior to December 1943 to convert to Post Office Department employment prior to December 1943 to convert count basis, the latter being the basis on which data for subsequent months have been reported; (3) exclude persons working without compensation or for $\$ 1$ a year or month, included by the Civil Service Commission from June through November 1943; (4) employment published by the Civil Service Commission as of the last day of the month is presented here as of the first day of the next month.
Beginning January 1942, data for the executive branch cover, in addition to the area inside the District of Columbia, the adjacent secticns of Maryland and Virginia which are defined by the Bureau of the Census as in the metro-
politan area. Data for Central Intelligence Agency are excluded
${ }^{2}$ Covers the National Military Establishment, Maritime Commission, National Advisory Committee for Aeronautics, The Panama Canal, and until their abolition or amalgamation with a peacetime agency, the agencies created specifically to meet war and reconversion emergencies.
${ }^{3}$ For ways in which data differ from published figures of the Civil Service Commission, see footnote 1.
t Yearly figures represent averages. Monthly figures represent (1) the number of regular employees in pay status on the first day of the month plus the number of intermittent employees who were paid duriag the preceding month for the executive branch, (2) the number of employees on the pay roll with pay during the pay period ending just before the first of the month for the legislative and judicial branches, and (3) the number of employees on the pay roll with pay during the pay period ending on or just before the last of the month for the District of Columbia Government.
*Revised.

Table A-15: Personnel and Pay in Military Branch of Federal Government ${ }^{1}$
[In thousands]

| Year and month | Personnel (average for year or as of first of month) ? |  |  |  |  | Type of pay |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total | Army and Air Forces ${ }^{2}$ | Navy | $\begin{aligned} & \text { Marine } \\ & \text { Corps } \end{aligned}$ | Coast <br> Guard | Total | Pay rolls ${ }^{\text {4 }}$ | Mustering- out pay | Family allowances ${ }^{\circ}$ | Leave pay- ments ${ }^{7}$ |
| $\begin{aligned} & 1939-1 \\ & 1943-- \end{aligned}$ | 345 8,944 | $\begin{array}{r} 192 \\ 6,733 \end{array}$ | $\begin{array}{r} 124 \\ 1,744 \end{array}$ | 19 311 | $\begin{array}{r} 10 \\ 156 \end{array}$ | $\begin{array}{r} \$ 331,523 \\ 11,181,079 \end{array}$ | $\begin{array}{r} \$ 331,523 \\ 10,148,745 \end{array}$ |  | \$1, 032, 334 |  |
| 1948: January | 1,422 | 898 |  |  |  |  |  |  |  |  |
| February | 1,419 | 905 | 414 | 80 |  | 281, 233 | 240, 493 | 11, 1338 | ${ }_{23,567}^{23,454}$ | 5,526 |
| March --- | 1,423 | 909 | 413 | 80 | 20 | 285,011 | 242, 969 | 13,051 | 24,997 | 3,995 |
|  | 1,417 | 906 | 412 | 79 | 20 | 285, 210 | 247, 452 | 9,751 | 25, 414 | 2, 593 |
| May | 1,420 | 917 | 403 | 80 | 20 | 278, 967 | 242, 292 | 9,057 | 25, 736 | 1,882 |
|  | 1,439 | 930 | 407 | 82 | 20 | 277, 368 | 243, 239 | ${ }^{5}, 756$ | 26, 476 | 1,898 |
| July.... | 1, 463 | 940 | 420 | 84 | 20 | 276, 590 | 246, 422 | 2, 516 | 26,353 | 1,299 |
| August---- | 1,514 | 1978 | 430 | 86 | ${ }_{21}^{21}$ | 278, 234 | 244, 547 | 3,955 | 27,756 | 1, ${ }^{1,276}$ |
|  | 1,585 |  | ${ }_{438}^{432}$ |  |  | 292, 2940 | 251, 2388 | 5,818 | ${ }_{28}^{28.115}$ | - |
| November | 1,610 | ${ }_{1}^{1,057}$ | ${ }_{446}$ | 84 85 | ${ }_{21}^{21}$ | 294, 848 | 259, ${ }^{25137}$ | ${ }_{5}^{5,783}$ | ${ }_{28,534}^{28,253}$ |  |
| December- | 1,628 | 1,072 | 449 | 85 | 22 | 294, 042 | 260,046 | 5, 201 | 28,605 | 190 |
| 1949: January | 1,644 | 1,089 | 447 | 86 | 22 | 299,582 | 265, 618 | 5,012 | 28,709 | 243 |

${ }^{1}$ Except for Army personnel for 1939 which is from the Annual Report of the Secretary of $W$ ar, all data are from reports submitted to the Bureau of Labor Statistics by the various military branches. Because of rounding, totals will not necessarily add to the sum of the items shown.
${ }^{2}$ Includes personnel on active duty, the missing, those in the hands of the enemy, and those on terminal leave through October 1, 1947, when lump-sum terminal-leave payments at time of discharge were started.
${ }^{3}$ Prior to March 1944, data include persons on induction furlough. Prior to June 1942 and after April 1945, Philippine Scouts are included.

- Pay rolls are for personnel on active duty; they include payment of personnel while on terminal leave through September 1947. For officers this applies to all prior periods and for enlisted personnel back to October 1, 1946 only. Beginning October 1, 1947, they include lump-sum terminal-leave payments made at time of discharge. Coast Guard pay rolls for all periods and Army pay rolls through April 1947 represent actual expenditures. Other
data represent estimated obligations based on an average monthly personnel count. Pay rolls for the Navy and Coast Guard include cash payments for clothing-allowance balances in January, A pril, July, and October.

5 Represents actual expenditures.
${ }^{6}$ Represents Government's contribution. The men's share is included in the pay rolls.
${ }^{7}$ Leave payments were authorized by Public Law 704 of the 79th Congress and were continued by Public Law 254 of the 80 th Congress to enlisted personnel discharged prior to September 1, 1946, for accrued and unused leave, and to officers and enlisted personnel then on active duty for leave accrued in excess of 60 days. Value of bonds (representing face value, to which inin excess of 60 days. Value of bonds (representing face value, to which interest is added when bonds are cashed) and cash payments are included. Lump-sum payments for terminal leave, which were authorized by Public excluded here and included under pay rolls.

## B: Labor Turn-Over

Table B-1: Monthly Labor Turn-Over Rates (Per 100 Employees) in Manufacturing Industries, by Class of Turn-Over ${ }^{1}$

| Class of turn-over and year | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Total accession: |  |  |  |  |  |  |  |  |  |  |  |  |
| 1948 | 4.6 | 3.9 | 4. 0 | 4.0 | 4.1 | 5. 7 | 4.7 | 5. 0 | 5.1 | 4.5 | 3.9 | ${ }^{2} 2.6$ |
| 1947 | 6. 0 | 5.0 | 5.1 | 5.1 | 4.8 | 5.5 | 4.9 | 5.3 | 5.9 | 5.5 | 4.8 | 3.6 |
| 1946 | 8.5 | 6.8 | 7.1 | 6.7 | 6.1 | 6.7 | 7.4 | 7.0 | 7.1 | 6.8 | 5.7 | 4.3 |
| 1939 | 8.3 4.1 | 7.9 | 8.3 3.3 | 7.4 2.9 | 7.2 3.3 | 8.4 3.9 | 7.8 | 7.6 | 7.7 | 7.2 5 | 6. 6 | 5. 2 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1947 | 4.9 | 4.5 | 4. 9 | 5. 2 | 5. 4 | 4.7 | 4. 6 | 5.3 | 5. 9 | 5. 0 | 4.0 | 3.7 |
| 1946 | 6.8 | 6.3 | 6. 6 | 6.3 | 6.3 | 5.7 | 5. 8 | 6. 6 | 6.9 | 6.3 | 4.9 | 4.5 |
| 1943 | 7.1 | 7.1 | 7.7 | 7.5 | 6.7 | 7.1 | 7.6 | 8.3 | 8.1 | 7.0 | 6.4 | 6.6 |
| Quit: $1939{ }^{3}$ |  |  |  |  |  |  |  |  |  |  |  |  |
| Quit: 1948 | 2.6 | 2.5 | 2.8 | 3.0 | 2.8 | 2.9 | 2.9 | 3.4 | 3.9 | 2.8 | 2.2 | ${ }^{2} 1.7$ |
| 1947 | 3. 5 | 3.2 | 3.5 | 3.7 | 3.5 | 3.1 | 3.1 | 4. 0 | 4. 5 | 3.6 | 2.7 | 2.3 |
| 1946 | 4.3 | 3.9 | 4.2 | 4. 3 | 4.2 | 4.0 | 4. 6 | 5.3 | 5.3 | 4.7 | 3.7 | 3.0 |
| 1943 | 4.5 | 4.7 | 5.4 | 5.4 | 4.8 |  | 5.6 | 6.3 | 6. 3 | 5.2 | 4.5 | 4.4 |
| $19398{ }^{8}$ | . 9 | . 6 | . 8 | . 8 | . 7 | . 7 | . 7 | . 8 | 1.1 | . 9 | . 8 | . 7 |
| Discharge: |  |  |  |  |  |  |  |  |  |  |  |  |
| 1947 | .4 | .4 | .4 | .4 | .4 | . 4 | .4 | .4 | .4 | .4 | .4 | . 4 |
| 1946 | . 5 | . 5 | . 4 | . 4 | . 4 | . 3 | . 4 | . 4 | . 4 | . 4 | . 4 | . 4 |
| 1943 | . 5 | . 5 | . 6 | . 5 | . 6 | . 6 | . 7 | . 7 | . 6 | . 6 |  | . 6 |
| 19393 | . 1 | . 1 | . 1 | . 1 | .1 | .1 | . 1 | . 1 | .1 | . 2 | . 2 | . 1 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1947 | $\begin{array}{r}\text { J. } \\ \hline\end{array}$ | $\begin{array}{r}1.8 \\ \hline\end{array}$ | 1.2 | 1.2 | 1.4 | 1.1 | 1. 1.0 | 1.2 .8 | 1.0 | 1.2 .9 | 1.4 | $\begin{array}{r}2.2 \\ \hline .9\end{array}$ |
| 1946 | 1.8 | 1.7 | 1.8 | 1.4 | 1.5 | 1.2 | . 6 | . 7 | 1.0 | 1.0 | . 7 | 1.0 |
| 1943 | . 7 | . 5 | . 5 | . 6 | . 5 | . 5 | . 5 | . 5 | . 5 | . 5 | . 7 | 1.0 |
|  | 2.2 | 1.9 | 2.2 | 2.6 | 2.7 | 2.5 | 2.5 | 2.1 | 1.6 | 1.8 | 2.0 | 2.7 |
| Miscellaneous, including military: ${ }^{4}$ |  |  |  |  |  |  |  |  |  |  |  |  |
|  | . 1 | .1 | . 1 | . 1 | . 1 | . 1 | . 1 | . 1 | . 1 | . 1 | . 1 | ${ }^{2} .1$ |
| 1946 | .1 | . 3 | .3 | . 2 | . 1 | . 1 | . 1 | . 1 | . 2 | . 2 | .1 | . 1 |
| 1943 | 1. 4 | 1.4 | 1.2 | 1. 0 | . 8 | . 8 | . 8 | . 8 | . 7 | . 7 | .6 | . 6 |

[^54]are not covered. Plants on strike are also excluded. See Note, table B-2. ${ }_{3}^{2}$ Preliminary figures.
${ }_{4}^{3}$ Prior to 1943, rates relate to wage earners only.
4Prior to September 1940, miscellaneous separations were included with quits.
${ }^{5}$ Including temporary, indeterminate (of more than 7 days' duration), and permanent lay-offs.

Table B-2: Monthly Labor Turn-Over Rates (Per 100 Employees) in Selected Groups and Industries ${ }^{1}$

| Industry group and industry | Total accession |  | Separation |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Total |  | Quit |  | Discharge |  | Lay-off |  | Miscellaneous, including military |  |
|  | $\begin{aligned} & \text { Dec. } \\ & 1948{ }^{2} \end{aligned}$ | Nov. 1948 | $\begin{aligned} & \text { Dec. } \\ & 1948^{2} \end{aligned}$ | Nov. 1948 | Dec. <br> $1948^{2}$ | $\begin{aligned} & \text { Nov. } \\ & 1948 \end{aligned}$ | Dec. 1948 ${ }^{2}$ | $\begin{aligned} & \text { Nov. } \\ & 1948 \end{aligned}$ | $\begin{aligned} & \text { Dec. } \\ & 1948 \text { ? } \end{aligned}$ | Nov. <br> 1948 | $\begin{aligned} & \text { Dec. } \\ & 1948{ }^{2} \end{aligned}$ | Nov. $1948$ |
| MANUFACTURING |  |  |  |  |  |  |  |  |  |  |  |  |
| Durable goods | 2.5 2.8 | 3.9 4.0 | 4.3 4.4 | 4.1 4.2 | 1.8 | 2.2 2.3 | 0.3 .3 | $\begin{array}{r}0.4 \\ \hline\end{array}$ | 2.1 2.3 | 1.4 1.5 | 0.1 .1 | 0.1 .1 |
| Durable goods |  |  |  |  |  |  |  |  |  |  |  |  |
| Iron and steel and their products | 2.2 | 3.2 | 4.0 | 3.4 | 1.7 | 2.0 | .3 | .3 | 1.8 | . 9 |  | .2 |
| Blast furnaces, steel works, and rolling | 1. 9 | 2.7 | 2.4 | 2.4 | 1.6 | 1.8 | .2 | . 2 | $\begin{array}{r}1.8 \\ 3 \\ \hline\end{array}$ | .2 2.0 | $\begin{array}{r}.3 \\ . \\ \hline\end{array}$ | . 2 |
|  | 2.6 | 4.1 4.9 | 6.7 | 5. 5 | 2.2 2.6 | 2.8 | . 6 | . 6 | 3.7 3.5 | 2.0 1.3 1.3 | $\xrightarrow{.2}$ | . 1 |
| Malleable-iron castings | 3.2 2.7 1.7 | 4.9 3.5 3.5 | 6.8 4.3 | 5.2 4.3 | 2.6 1.8 | 3.2 2.4 | . 5 | . 5 | 3.5 2.1 | 1.3 1.3 | . 21 | . 1 |
| Steel castings .-.-.-.-.- | 2.7 1.7 | 3.5 2.3 | 4.3 2.3 | 4.3 2.2 | 1.8 | 2.4 1.7 | . 2 | . .8 | 2.1 | 1.2 | .1 | . 1 |
| Tin cans and other tinwar | 3.9 | 3. 5 | 6. 0 | 7.4 | 1.7 | 2.6 | .4 | . 7 | 3.8 | 4. 0 | . 1 | . 1 |
| Wire products.....-...- | 1.6 | 3.1 | 2.7 | 2.6 | 1.0 | 1.7 | .3 | .3 | 1.2 | . 5 | . 2 |  |
| Cutlery and edge tools <br> Tools (except edge tools, machine tools, files, and saws) <br> Hardware | 1.2 | 3.9 | 3.9 | 2.8 | 1.2 | 1.4 | . 2 | . 6 | 2.4 | . 8 | . 1 |  |
|  | 1.4 | 2.4 | 2.3 | 3.1 | 1.2 | 1.4 | . 2 | . 3 | -9 | 1.3 | ${ }^{(3)}$ | . 1 |
|  | 2.5 | 4.3 | 4. 6 | 3.6 | 2. 0 | 2.5 | . 3 | . 5 | 2.2 14.9 | 5. 5 | ${ }^{1}$ | . 1 |
| Stoves, oil burners and heating equipment Steam and hot-water heating apparatus and steam | 2.2 | 3.2 | 17.1 | 8.0 | 1.8 | 2.4 | . 3 | . 4 | 14.9 | 5.1 | . 1 | . 1 |
|  | 2.2 | 3. 9 | 6.9 | 3.1 | 1.7 | 2.0 | . 6 | . 5 | 4. 5 | . 5 | .1 | 1 |
| Stamped and enameled ware and galvanizing....-- | 2.3 | 3.6 | 6.1 | 5.1 | 2. 0 | 2.6 | . 4 | .4 | 3.5 | 1.9 | .2 | 2 |
| Fabricated structural-metal products.......-.-.--- | 3.2 1.8 | 3.6 2.6 | 3.1 2.6 | 2.9 3.1 | 1.6 1.3 | 1.6 | . 1 | . 3 | 1.3 .9 | 1.8 | .1 | . 1 |
|  | 1.8 1.9 | 2.6 4.0 | 2.6 2.9 | 3.1 | 1.2 | 1.7 | . | .3 | 1.5 | 1.1 | . 1 | . 1 |
|  | 2.2 | 3.0 | 4.0 | 3.2 | 1.5 | 1.6 | . 3 | .2 | 2.1 | 1.3 | . 1 | . 1 |
| Electrical equipment for industrial use..........-.- | 1.3 | 1.7 | 2.0 | 2.2 | +.9 | 1.1 | . 2 | . 1 | .7 1.5 | 1.9 | $\xrightarrow{.2}$ | . 1 |
| Radios, radio equipment, and phonographs .-...-- | 4.3 | 6. 0 | 4.3 3.7 | $\stackrel{4.1}{2.8}$ | 2.2 1.4 | 2.4 1.6 | . 4 | . 5 | 1.5 2.0 | $\begin{array}{r}1.1 \\ \hline .9\end{array}$ | . 2 | . 1 |
| Communication equipment, except radios | 1.2 | 1.3 | 3.7 | 2.8 | 1.4 | 1.6 | . 2 | . 2 | 2.0 | . 9 | . 1 | . 1 |
| Machinery, except electrical | 2.0 | 2.9 | 3.3 | 3.1 | 1.3 | 1.6 | .3 | . 3 | 1.6 | 1.1 | . 1 | . 1 |
| Engines and turbines....- | 2.5 | 4.4 | 4.4 | 3.4 | 1.1 | 1.4 | . 3 | ${ }^{.} 4$ | 1.9 .5 | 1.5 .5 | .1 | .1 |
| Agricultural machinery and tractors Machine tools | 1.8 | 3.7 1.9 | 2.8 3.5 | 3.2 2.4 | 1.7 1.1 | 1.15 | . 4 | . .2 | 2.0 | . 8 | .2 | . 1 |
| Machine tool accessories | 2.4 | 3.3 | 3.6 | 3.5 | . .9 | 1.4 | . 3 | . 4 | 2.3 | 1.6 | . 1 | . 1 |
| Metalworking machinery and equipment, not elsewhere classified <br> General industrial machinery, except pumps | 1.6 | 2.3 | 2.8 | 2.3 | 1.1 | 1.4 | . 2 | . 3 | 1.4 | . 5 | . 1 | . 1 |
|  | 2. 2 | 3.2 | 2.7 | 3.1 | 1. 4 | 1.7 | . 3 | .4 | . 9 | . 9 | .1 | .1 |
| General industrial machinery, except pumps.....-- Pumps and pumping equipment....------ | 1.9 | 2.7 | 2.6 | 2.6 | 1.1 | 1.2 | . 2 | . 3 | 1.1 | . 9 | . 2 | . 2 |
| Transportation equipment, except automobiles. | 5. 5 | 6.4 | 6.3 | 5.7 | 1.6 | 1. 9 | . 3 | . 3 | 4.3 | 3.4 | . 1 | . 1 |
| A ircraft-......-.-.-....-- | 3. 6 3.0 3 | 5.5 3.3 | 3.4 1.3 | 3.3 1.8 | 1.9 .8 | 2.1 1.2 | . 3 | . 2 | 1.1 .2 | . 9 | . 1 |  |
|  | 3.0 11.7 | 3.3 11.0 | 15.0 | 12.7 | 1.8 1.9 | 1.2 2.0 | .2 | .3 | 12.3 | 10.3 | .1 | . 1 |
| Automobiles | 3.5 | 5.0 | 4.4 | 4.5 | 2.4 | 2.6 | . 4 | . 5 | 1.4 | 1.2 | . 2 | 2 |
| Motor vehicles, bodies, and trailers. | 3. 9 | 5.7 | 4.6 | 4.5 | 2.8 | 2.9 | . 4 | . 5 | 1.2 | . 9 | . 2 | 2 |
| Motor-vehicle parts and accessories. | 2.4 | 3.4 | 3.7 | 4.2 | 1.5 | 2.0 | . 3 | . 4 | 1.8 | 1.7 | . 1 | . 1 |
| Nonferrous metals and their products.Primary smelting and refining, except aluminum | 2.1 | 3.1 | 4.1 | 3.5 | 1.3 | 1.8 | . 3 | . 4 | 2.4 | 1.2 | . 1 | 1 |
|  | 1.6 | 1.7 | 2.0 | 1.9 | . 9 | 1.0 | . 3 | . 4 | 6 | . 3 | 2 | . 2 |
| Rolling and drawing of copper allo | 2.0 | 1.7 | 1.7 | 2.1 | . 8 | 1.0 | . 2 | .2 | . 5 | . 8 | . 2 | . 1 |
|  | 2.0 | 2.8 | 5.8 | 3.1 | 7 | 1.9 | . 3 | . 3 | 4.8 | 9 | (3) | (3) |
| Nonferrous-metal foundries, except aluminum and magnesium | 2.6 | 4.4 | 4.1 | 4.7 | 1.5 | 2.6 | . 3 | . 6 | 2.1 | 1.3 | . 2 | . 2 |
| Lumber and timber basic products. | 2. 7 | 5.2 | 5.3 | 5.9 | 2.6 | 3.7 | . 2 | . 3 | 2.4 | 1.8 | (3) ${ }^{1}$ | . 1 |
|  | 2.3 | 4.6 | 4. 9 | 6.1 | 2.4 | 3.4 | . 2 | . 3 | 2.3 | 2.3 | ${ }^{(3)}$ | . 1 |
|  | 1.8 | 3.4 | 3.2 | 3.7 | 1.4 | 2.4 | . 2 | . 2 | 1.5 | 1.0 | . 1 | . 1 |
| Furniture and finished lumber products. <br> Furniture, including mattresses and bedsprings.-- | 2.3 | 4.6 | 6.0 | 5.7 | 2.0 | 2.9 | . 4 | . 6 | 3.5 | 2.1 | . 1 | . 1 |
|  | 2.3 | 4.6 | 6.3 | 5.9 | 2.1 | 3.0 | . 4 | . 6 | 3.7 | 2.2 | . 1 | 1 |
| Stone, clay, and glass products. | 2.1 | 3.5 | 4.0 | 3.4 | 1.5 | 2.0 | . 3 | . 4 | 2.0 | . 9 | . 2 | . 1 |
| Glass and glass products... | 2.5 | 3. 9 | 6. 1 | 3.6 | 1.3 | 1.7 | . 2 | . 3 | 4.4 | 1.4 | .2 | . 2 |
| Cement-................. | 1.6 | 3.0 | 2.7 | 2.9 | 1.6 <br> 2 | ${ }_{2}^{2.1}$ | ${ }^{.} 5$ | .4 | . 4 | . 3 | . 2 | . 1 |
| Brick, tile, and terra cotta. | 2.8 2.3 | 3.7 4.5 | 3.2 3.0 | 3.8 3.4 | 2.3 1.8 | 2.5 2.5 | . 3 | . 4 | . 8 | . 4 | . 1 | . |

See footnotes at end of table.

## Table B-2: Monthly Labor Turn-Over Rates (Per 100 Employees) in Selected Groups and Industries ${ }^{1}$-Continued

| Industry group and industry | Total accession |  | Separation |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Total |  | Quit |  | Discharge |  | Lay-off |  | Miscellaneous, including military |  |
|  | $\begin{aligned} & \text { Dec. } \\ & 19482 \end{aligned}$ | Nov. 1948 | $\begin{aligned} & \text { Dec. } \\ & 1948{ }^{2} \end{aligned}$ | $\begin{gathered} \text { Nov. } \\ 1948 \end{gathered}$ | $\begin{aligned} & \text { Dec. } \\ & 1948 \text { 2 } \end{aligned}$ | $\begin{aligned} & \text { Nov. } \\ & 1948 \end{aligned}$ | Dec. <br> $1948{ }^{2}$ | $\begin{aligned} & \text { Nov. } \\ & 1948 \end{aligned}$ | $\begin{gathered} \text { Dec. } \\ 1948 \text { 2 } \end{gathered}$ | $\begin{gathered} \text { Nov. } \\ 1948 \end{gathered}$ | $\begin{aligned} & \text { Dec. } \\ & 1948{ }^{2} \end{aligned}$ | Nov. |
| MANUFACTURING-Continued <br> Nondurable goods |  |  |  |  |  |  |  |  |  |  |  |  |
| Textile-mill products | 2.1 | 3.2 | 3.7 | 3.6 | 16 | 2 |  |  | 1.8 | 1.2 |  | (3) 0.1 |
| Silk and rayon goods. | 2.6 | ${ }_{3.8}$ | 3.3 |  | 1.4 | 2.1 | . ${ }_{2}$ | . 3 | 1.7 | 1.9 | . 1 |  |
| Woolen and worsted, except dyeing and finishing Hosiery, full-fashiond | 1.21.1.1. | 3.8 3.5 3.7 | 3.3 <br> 4.4 | 3.5 4.4 |  |  |  | . 3 |  | 1.1 2.8 | . 2 |  |
|  |  | 2.7 | 2.4 | 2.6 <br> 1 | 1.4 | 2.0 | $\stackrel{.}{2}$ | $\stackrel{.}{2}$ | - 8 | 2.8 .4 |  | (3) |
| Knitry, | 1.6 1.0 | 4.2 2.4 | 4.7 6.0 | 4.46.6 | 1.61.7 | ${ }_{2.4}^{2.6}$ | ${ }^{(3)} .2$ | . ${ }^{1}$ | 4.1 | 1.73.9 | (3) | (3) |
| Dyeing and finishing textiles, including woolen and worsted | 1.0 |  |  |  |  |  |  |  |  |  | (3) |  |
|  |  | 2.2 | 2.1 | 2.0 | . 7 | . 9 | 4 | . 3 | . 9 | . 7 | . 1 | . 1 |
| Apparel and other finished textile products. Men's and boys' suits, coats, and overcoats | 2.9 3.3 | 3.7 3.0 | 5.6 4.8 | 5.1 5.4 | 2.4 | 3.1 | .$^{2}$ | . 2 | ${ }^{3.0}$ |  |  |  |
| Men's and boys' furnishings, work clothing, and | 3.3 | 3.0 | 4.8 | 5.4 | 1.9 | 2.1 | . 1 | . 1 | 2.8 | 3.2 | (3) | (3) |
|  | 1.7 | 3.3 | 7.5 | 4.4 | 2.8 | 3.7 | 2 | . 1 | 4.5 | . 6 | ${ }^{(3)}$ | (3) |
| Leather and leather products Leather | 3.9 1.8 | 3.1 1.9 |  | $\begin{aligned} & 3.7 \\ & 2.4 \\ & 4.0 \end{aligned}$ | $\begin{aligned} & 2.1 \\ & 1.0 \\ & 2.3 \end{aligned}$ | 2.31.22.52.5 | .2.1.2 | .2.2.2.2 | 1.01.0.9 | 1.11.91.2 |  |  |
| Boots and shoes.---- | 4.2 | 1.9 3.3 | 2.2 3.5 3.1 |  |  |  |  |  |  |  | .1 | . 1 |
| Food and kindred products | 4.84. 2.22.2 | 7.811.2 | 7.17.0 | $\begin{aligned} & 6.5 \\ & 6.3 \\ & 3.6 \end{aligned}$ | $\begin{aligned} & 2.1 \\ & 2.3 \\ & 1.6 \end{aligned}$ | $\begin{aligned} & 3.1 \\ & 3.2 \\ & 2.5 \end{aligned}$ | .6.8.5 | .7.9.5 | 4.23.7.4 | 2.51.9 | .2.2.1 | . 2 |
| Grain-mill products.-.-- |  |  |  |  |  |  |  |  |  |  |  |  |
| Tobacco manufactures.. | 2.1 | 3.1 | 5.2 | 4.5 | 1.8 | 2.8 | . 3 | . 5 | 3.1 | 1.1 |  | . 1 |
|  |  |  |  |  |  |  |  |  |  |  | (3) |  |
| Paper and allied products. <br> Paper and pulp | $\begin{aligned} & 1.4 \\ & 1.2 \\ & 2.0 \end{aligned}$ | $\begin{aligned} & 2.5 \\ & 1.9 \\ & 4.2 \end{aligned}$ | $\begin{aligned} & 2.4 \\ & 2.0 \\ & 3.6 \end{aligned}$ | $\begin{aligned} & 2.8 \\ & 2.3 \\ & 4.4 \end{aligned}$ | $\begin{aligned} & 1.3 \\ & 1.0 \\ & 1.9 \end{aligned}$ | $\begin{aligned} & 1.7 \\ & 1.4 \\ & 2.7 \end{aligned}$ | $\stackrel{.2}{.2}$ | .3 <br> .3 <br> .5 | $\begin{array}{r}.8 \\ \hline 1.7 \\ \hline\end{array}$ | .7.51.1 | .1.1.1 | . 1 |
| Paper boxes.---------- |  |  |  |  |  |  |  |  |  |  |  |  |
| Chemicals and allied products.. | 1.01.01.71.0 | $\begin{aligned} & 1.5 \\ & 1.8 \\ & 1.9 \end{aligned}$ | $\begin{aligned} & 1.7 \\ & 1.6 \\ & 1.2 \\ & 1.7 \end{aligned}$ | $\begin{aligned} & 1.7 \\ & 2.3 \\ & 1.3 \\ & 1.9 \end{aligned}$ | .7.9.9.7 | $\begin{array}{r} .8 \\ 1.1 \\ .7 \\ .9 \end{array}$ | .2.2.2.2 | $\begin{aligned} & .2 \\ & .3 \\ & .3 \\ & .3 \end{aligned}$ | .7.4.3.7 | .6.8.4.6 | .1.1.1.1.1 |  |
| Paints, varnishes, and colors |  |  |  |  |  |  |  |  |  |  |  |  |
| Rayon and allied products |  |  |  |  |  |  |  |  |  |  |  |  |
| Products of petroleum and coal | $\begin{aligned} & .6 \\ & .6 \end{aligned}$ | . 7 | 1.0 | $\begin{aligned} & 1.5 \\ & 1.0 \end{aligned}$ |  |  |  |  |  |  |  |  |
| Products of petroleum and coal Petroleum refining-------- |  |  |  |  | $.4$ | $\begin{aligned} & .6 \\ & .5 \end{aligned}$ | $\begin{aligned} & \left(\begin{array}{l} 3 \\ (3) \\ (3) \end{array}\right) \end{aligned}$ | . 21 | $.4$ | . ${ }_{\text {. }}^{6}$ | $\stackrel{.}{2}$ | . 1 |
| Rubber products ........ | $\begin{aligned} & 1.6 \\ & 1.0 \\ & 2.9 \\ & 1.7 \end{aligned}$ | $\begin{aligned} & 2.5 \\ & 1.2 \\ & 4.2 \\ & 4.0 \end{aligned}$ | $\begin{aligned} & 4.0 \\ & 3.2 \\ & 5.8 \\ & 4.2 \end{aligned}$ | $\begin{aligned} & 3.1 \\ & 2.6 \\ & 3.5 \\ & 4.1 \end{aligned}$ | $\begin{aligned} & 1.4 \\ & 1.0 \\ & 2.5 \\ & 1.3 \end{aligned}$ | $\begin{aligned} & 1.8 \\ & 1.1 \\ & 2.8 \\ & 2.6 \end{aligned}$ | $\begin{aligned} & .2 \\ & .1 \\ & .3 \\ & .3 \end{aligned}$ | $\begin{aligned} & .2 \\ & .1 \\ & .2 \\ & .5 \end{aligned}$ | $\begin{aligned} & 2.3 \\ & 2.0 \\ & 2.8 \\ & 2.5 \end{aligned}$ | $\begin{array}{r} 1.0 \\ 1.3 \\ .4 \\ .9 \end{array}$ | .1.1.2.1 | .1.1.1.1 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| Rubber footwear and related products Miscellaneous rubber industries.-... |  |  |  |  |  |  |  |  |  |  |  |  |
| Miscellaneous rubber industries------ |  |  |  |  |  |  |  |  |  |  |  |  |
| Miscellaneous industries.. | 1.9 | 2.3 | 2.8 | 3.4 | 1.1 | 1.7 | . 1 | . 2 | 1.5 | 1.4 | . 1 | . 1 |
| NONMANUFACTURING |  |  |  |  |  |  |  |  |  |  |  |  |
| Metal mining.- | $\begin{aligned} & 4.3 \\ & 1.7 \\ & 6.5 \\ & 4.1 \end{aligned}$ | $\begin{aligned} & 4.9 \\ & 1.6 \\ & 6.8 \\ & 6.4 \end{aligned}$ | $\begin{aligned} & 3.9 \\ & 2.7 \\ & 4.9 \end{aligned}$ | $\begin{aligned} & 4.2 \\ & 2.9 \\ & 5.2 \\ & 5.2 \end{aligned}$ | $\begin{aligned} & 2.8 \\ & 1.2 \\ & 4.0 \end{aligned}$ | $\begin{aligned} & 2.9 \\ & 1.1 \\ & 4.2 \\ & 3.0 \end{aligned}$ | $\begin{array}{r}.3 \\ . \\ . \\ . \\ . \\ \hline\end{array}$ | .3.1.3.7 |  | r <br> 1.8 <br> .5 <br> .1 <br> .1 | .2.3.2.1. | .2.3.2.1 |
| Copper-ore |  |  |  |  |  |  |  |  | r1.1.6.1 |  |  |  |
| Lead-and zinc-ore |  |  |  |  |  |  |  |  |  |  |  |  |
| Coal mining: |  |  |  |  |  |  |  |  | 1 |  |  |  |
| Anthracite- | 1.4 2.2 | 1.52.9 | 1.72.4 | 1.82.9 | 1.11.9 | 1.22.31.4 | .1 | ${ }^{(3)} .1$ | $\stackrel{.}{2}$ | . 3 | $\stackrel{.}{2}$ | . 3 |
| Public utilities: |  |  |  |  |  |  |  |  |  |  |  |  |
| Telephone | $\begin{aligned} & (4) \\ & (4) \end{aligned}$ | $\begin{aligned} & 1.8 \\ & 1.1 \end{aligned}$ | $\begin{aligned} & (4) \\ & (4) \end{aligned}$ | $\begin{aligned} & 1.7 \\ & 2.7 \end{aligned}$ | $\begin{aligned} & (4) \\ & \text { (4) } \end{aligned}$ | $\begin{aligned} & 1.4 \\ & 1.2 \end{aligned}$ | $\begin{aligned} & \left(\frac{4}{4}\right) \\ & (4) \end{aligned}$ | :1 1 | $\left.\begin{array}{l} (4) \\ (4) \\ (4) \end{array}\right)$ | . 8 | (4) ${ }^{(4)}$ | . 1 |

${ }^{1}$ Since January 1943 manufacturing firms reporting labor turn-over information have been assigned industry codes on the basis of current products. Most plants in the employment and pay-roll sample, comprising those which were in operation in 1939, are classified according to their major activity at that time, regardless of any subsequent change in major products. Labor turn-over data, beginning in January 1943, refer to wage and salary workers.

Employment information for wage and salary workers is available for major manufacturing industry groups (table $\mathrm{A}-3$ ); for individual industries these data refer to production workers only (table A-6).

2 Preliminary figures.
${ }_{3}$ Preliminary fig
4 Not available.

Note: Explanatory notes outlining the concepts, sources, size of the reporting sample, and methodology used in preparing the data presented in tables B-1 and B-2 are contained in the Bureau's monthly mimeographed release, "Labor Turn-Over," which is available upon request.

## C: Earnings and Hours

## Table C-1: Hours and Gross Earnings in Manufacturing and Nonmanufacturing Industries ${ }^{1}$

MANUFAOTURING

| Year and month | All manufacturing |  |  | Durable goods |  |  | Nondurable goods |  |  | Iron and steel and their products |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | Total: Iron and steel and their products | Blast furnaces, steel works, and rolling mills |  |  | Gray-iron and semisteel castings |  |  |
|  | A vg . wkly. earnings | Avg. wkly. hours | Avg. hrly. earnings |  |  |  | Avg. wkly. earnings | A $\nabla \mathrm{g}$. wkly. hours | Avg. hrly. earnings | Avg. wkly. earnings | Avg. wkly. hours | Avg. hrly. earnings | Avg. wkly. earnings | A Fg . wkly. hours | AV. hrly. earnings | A Vg . wkly. earnings | Avg. wkly. hours | Avg. hrly. earnings | A $\mathrm{\nabla g}$. wkly. earnings | Avg. wkly. hours | Avg. hrly. earnings |
| 1939: Average | \$23. 86 | 37.7 | \$0.633 | \$26. 50 | 38.0 | \$0.698 |  |  |  | \$21.78 | 37.4 | \$0. 582 | \$27. 52 | 37.2 | \$0. 739 | \$29.88 | 35.3 | \$0.845 | \$25.93 | 37.1 | \$0. 699 |
| 1941: January | 26.64 | 39.0 | . 683 | 30.48 | 40.7 | . 749 | 22.75 | 37.3 | . 610 | 31.07 | 40.4 | . 769 | 33.60 | 38.7 | . 869 | 30.45 | 41.2 | . 739 |
| 1947: December- | 52. 69 | 41.2 | 1.278 | 56.48 | 41.7 | 1.354 | 48.72 | 40.8 | 1.196 | 58.13 | 41.2 | 1.412 | 60.01 | 39.5 | 1,519 | 58.16 | 42.5 | 1.368 |
| 1948: January | 52.07 | 40.5 | 1.285 | 55.46 | 40.9 | 1. 355 | 48.45 | 40.0 | 1. 210 | 57.43 | 40.6 | 1. 414 | 60.58 | 39.5 | 1. 533 | 57.31 | 41.6 | 1.379 |
| February | 51.75 | 40.2 | 1. 287 | 54.77 | 40.5 | 1.352 | 48.56 | 39.9 | 1.217 | 56.99 | 40.4 | 1. 409 | 59.74 | 39.5 | 1. 513 | 57.24 | 41.2 | 1.390 |
| March | 52.07 | 40.4 | 1.289 | 55.25 | 40.9 | 1.352 | 48.66 | 39.9 | 1.220 | 57.28 | 40.6 | 1. 412 | 59.26 | 39.4 | 1.510 | 58.47 | 41.8 | 1. 401 |
| April | 51.79 | 40.1 | 1.292 | 54.96 | 40.5 | 1.357 | 48.33 | 39.6 | 1.220 | 56.49 | 39.9 | 1. 416 | 58.37 | 38.6 | 1.513 | 56.39 | 40.2 | 1. 404 |
| May | 51.86 | 39.9 | 1.301 | 54.81 | 40.3 | 1. 366 | 48.65 | 39.6 | 1. 230 | 57.39 | 40.3 | 1. 423 | 60.54 | 39.9 | 1. 515 | 55.15 | 39.3 | 1. 403 |
| June | 52.85 | 40.2 | 1.316 | 56.13 | 40.5 | 1.385 | 49.37 | 39.8 | 1.242 | 57.70 | 40.3 | 1. 431 | 59.54 | 39.3 | 1.515 | 57.85 | 40.7 | 1. 422 |
| July. | 52.95 | 39.8 | 1.332 | 56.21 | 40.0 | 1. 407 | 49.49 | 39.5 | 1.252 | 57.71 | 39.6 | 1. 457 | 60.37 | 38.7 | 1. 559 | 56.66 | 39.8 | 1. 426 |
| August | 54.05 | 40.1 | 1.349 | 58.19 | 40.7 | 1.431 | 49.79 | 39.5 | 1.262 | 60.52 | 40.3 | 1. 501 | 65.10 | 39.6 | 1.642 | 58.26 | 40.3 | 1. 447 |
| September | 54.19 | 39.8 | 1.362 | 57.95 | 40.0 | 1. 448 | 50.37 | 39.6 | 1.272 | 60.69 | 39.7 | 1. 528 | 66.02 | 39.3 | 1.679 | 59. 44 | 40.2 | 1. 480 |
| October | 54.65 | 40.0 | 1.366 | 59. 41 | 40.9 | 1. 452 | 49.70 | 39.1 | 1.271 | 62.17 | 40.8 | 1. 525 | 67.02 | 40.4 | 1.657 | 59.27 | 40.2 | 1.475 |
| November...- | 54. 57 | 39.8 | 1.371 | 58.71 | 40.4 | 1. 454 | 50.19 | 39.2 | 1.282 | 61.74 | 40.5 | 1. 525 | 66.20 | 40.0 | 1.656 | 58.45 | 39.8 | 1.472 |
| December | 55.10 | 40.0 | 1.376 | 59.40 | 40.8 | 1. 1.457 | 50.51 | 39.3 | 1.286 | 61.91 | 40.5 | 1. 528 | 65.73 | 39.8 | 1. 656 | 58.88 | 40.0 | 1.472 |
| Iron and steel and their products-Continue |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Malleable-iron castings |  |  | Steel castings |  |  | Cast-iron pipe and fittings |  |  | Tin cans and other tinware |  |  | Wirework |  |  | Cutlery and edge tools |  |  |
| 1939: Average | \$24. 16 | 36.0 | \$0.671 | \$27.97 | 36.9 | \$0.759 | \$21. 33 | 36.4 | \$0. 581 | \$23. 61 | 38.8 | \$0.611 | \$25.96 | 38.1 | \$0. 683 | \$23. 11 | 39.1 | \$0.601 |
| 1941: January | 28.42 | 40.2 | . 707 | 32.27 | 41.4 | . 780 | 25.42 | 40.5 | . 626 | 25.31 | 39.8 | . 639 | 28.27 | 39.7 | . 712 | 25.90 | 40.5 | . 652 |
| 1947: December | 59.18 | 41.8 | 1.414 | 60.05 | 41.6 | 1.443 | 50.98 | 42.2 | 1. 206 | 53.92 | 42.5 | 1. 265 | 57.83 | 42.6 | 1.356 | 50.26 | 42.0 | 1.197 |
| 1948: January | 59.03 | 41.5 | 1.420 | 59.48 | 41.1 | 1.446 | 49.67 | 40.4 | 1. 225 | 51.45 | 40.7 | 1. 263 | 56. 31 | 41.8 | 1.347 | 49.91 | 41.8 | 1. 192 |
| February.-.--- | 57.44 | 40.8 | 1. 405 | 58.52 | 40.5 | 1. 445 | 50.42 | 40.3 | 1. 250 | 50.44 | 40.1 | 1. 263 | 55. 47 | 41.1 | 1.349 | 50.09 | 41.6 | 1.193 |
| March.......- | 57. 79 | 40.8 | 1. 414 | 59.88 | 41.3 | 1. 450 | 50.21 | 40.1 | 1. 248 | 49.76 | 39.8 | 1. 251 | 55. 70 | 41.0 | 1.355 | 50.20 | 41.5 | 1. 207 |
| April | 56. 77 | 39.8 | 1. 424 | 60.13 | 41.2 | 1.458 | 48.52 | 38.5 | 1. 258 | 49.65 | 39.8 | 1. 250 | 54. 96 | 40.4 | 1.360 | 49.90 | 41.4 | 1. 205 |
| May | 57. 21 | 40.4 | 1. 415 | 60.49 | 41.3 | 1.463 | 51.07 | 40.2 | 1. 271 | 50. 98 | 40.2 | 1. 273 | 55. 11 | 40.5 | 1.367 | 50.22 | 41.2 | 1. 217 |
| June | 57.46 | 40.1 | 1. 430 | 61. 60 | 41.7 | 1. 479 | 52.74 | 40.9 | 1. 288 | 53.04 | 41.0 | 1. 295 | 55.82 | 40.6 | 1. 373 | 50.36 | 41.4 | 1. 216 |
| July | 57.37 | 39.9 | 1. 441 | 58.71 | 40.0 | 1. 467 | 51.94 | 40.5 | 1. 281 | 56. 99 | 42.0 | 1. 362 | 57.36 | 40.0 | 1. 422 | 50.03 | 40.5 | 1.235 |
| August | 59.44 | 40.2 | 1. 470 | 61.79 | 41.4 | 1. 492 | 52.84 | 40.6 | 1. 302 | 57.04 | 41.6 | 1.368 | 58.11 | 40.3 | 1. 443 | 51.77 | 41.6 | 1. 245 |
| September---- | 59. 24 | 39.4 | 1. 505 | 61.27 | 39.8 | 1. 539 | 53.93 | 41.1 | 1. 309 | 60.03 | 42.8 | 1.401 | 56.91 | 39.2 | 1. 451 | 51.25 | 41.3 | 1. 240 |
| October | 61. 58 | 40.6 | 1. 517 | 63.36 | 41.0 | 1. 544 | 55. 08 | 41.7 | 1. 319 | 55.46 | 40.3 | 1. 378 | 59.74 | 40.8 | 1. 463 | 52. 49 | 42.0 | 1. 248 |
| November.... | $60.71$ | 39.9 | 1. 527 | 63. 92 | 41.3 | 1.547 | 56.97 | 42.9 | 1.326 | 54.51 | 40.1 | 1.363 | 59.47 | 40.5 | 1.468 | 52.89 | 41.7 | 1.267 |
| December.-.-- | 61.49 | 40.1 | 1. 532 | 63.79 | 41.2 | 1. 547 | 57.06 | 42.9 | 1.330 | 56. 23 | 41.3 | 1.363 | 60.05 | 40.5 | 1. 481 | 52.31 | 41.4 | 1. 270 |
|  | Iron and steel and their products-Continued |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Tools (except edge tools, machine tools, files, and saws) |  |  | Hardware |  |  | Plumbers' supplies |  |  | Stoves, oil burners, and heating equipment, not elsewhere classified |  |  | Steam and hotwater heating apparatus and steam fittings |  |  | Stamped and enameled ware and galvanizing |  |  |
| 1939: Average | \$24. 49 | 39.7 | \$0. 618 | \$23. 13 | 38.9 |  | \$25. 80 | 38.2 | \$0.676 | \$25. 25 | 38.1 | \$0.666 | \$26.19 | 37.6 | \$0.697 | \$23. 92 | 38.1 | \$0.627 |
| 1941: January-.-.-.-- | 294.49 | 44.7 | +0.618 | 25. 24 | 40.9 | +0.621 | 27.13 | 39.0 |  | +26.07 | 38.7 | +0.668 | +30.98 | 42.5 | . 732 | 26.32 | 39.4 | . 665 |
| 1947: December.-..- | 54.44 | 43.0 | 1. 266 | 52. 55 | 42.2 | 1. 245 | 57.00 | 41.6 | 1. 370 | 56. 22 | 42.0 | 1. 339 | 58.66 | 42.2 | 1. 389 | 54. 72 | 41.5 | 1.320 |
| 1948: January $\begin{aligned} & \text { Februar } \\ & \text { March } \\ & \text { April } \\ & \text { May } \\ & \text { June... } \\ & \text { July } \\ & \text { August } \\ & \text { Septemb } \\ & \text { October } \\ & \text { Novemb } \\ & \text { Decemb }\end{aligned}$ | $\begin{aligned} & 54.24 \\ & 54.02 \end{aligned}$ | 42.6 | 1. 273 | 53. 29 | 42. 4 | 1. 256 | 55. 61 | 40.8 | 1. 365 | 54. 24 | 40.3 | 1.345 | 54.87 | 40.3 | 1. 363 | 53.65 | 40.7 | 1.319 |
|  |  | 42.3 | 1. 278 | 52. 79 | 42.3 | 1. 249 | 55. 26 | 40.4 | 1.367 | 54. 59 | 40.2 | 1.358 | 57.07 | 41.3 | 1. 383 | 52. 42 | 40.0 | 1.311 |
|  | $\begin{aligned} & 54.02 \\ & 54.68 \end{aligned}$ | 42.6 | 1. 287 | 52.68 | 42.0 | 1. 252 | 56.54 | 41.2 | 1.374 | 54.12 | 40.1 | 1.352 | 56. 53 | 40.9 | 1. 380 | 52. 78 | 40.3 | 1.311 |
|  | 54.15 | 41.9 | 1. 293 | 52.05 | 41.6 | 1. 251 | 56. 27 | 40.6 | 1. 386 | 54.34 | 39.9 | 1. 363 | 56. 13 | 40.7 | 1. 378 | 52. 93 | 40.1 | 1. 321 |
|  | 54.01 | 41.6 | 1.299 | 50.84 | 40.4 | 1.253 | 56. 93 | 41.0 | 1. 388 | 54.18 | 39.7 | 1. 366 | 56. 90 | 40.7 | 1. 396 | 53. 75 | 40.3 | 1. 332 |
|  | 54.96 | 42.1 | 1. 308 | 52.22 | 40.6 | 1. 285 | 56.51 | 40.4 | 1. 401 | 55. 95 | 40.2 | 1.392 | 57.68 | 40.7 | 1. 418 | 53. 54 | 40.2 | 1.330 |
|  | 54. 11 | 41.2 | 1. 314 | 50.27 | 38.8 | 1. 295 | 56. 48 | 40.2 | 1. 405 | 55. 26 | 39.7 | 1. 392 | 59. 42 | 41.0 | 1. 448 | 52. 62 | 38.6 | 1.363 |
|  | 56.53 | 42.2 | 1.342 | 52. 62 | 40.3 | 1.306 | 58. 12 | 40.7 | 1. 429 | 57.04 | 40.5 | 1. 411 | 58. 18 | 40.3 | 1. 1.444 | 54. 80 | 39.8 | 1.378 |
|  | 55.09 <br> 56.80 | 40.6 | 1. 356 | 52.62 | 39.5 | 1.331 | 56. 78 | 38.7 | 1. 466 | 56. 24 | 39.5 | 1. 424 | 58. 39 | 40.3 | 1. 450 | 53.37 | 38.4 | 1. 397 |
|  |  | 41.6 <br> 41.2 | 1. 366 | 54.30 | 40.8 | 1. 331 | 62.31 | 41.4 | 1. 506 | 58.12 | 40.9 | 1. 423 | 60.66 | 41.0 | 1. 479 | 55.97 | 39.9 | 1.403 |
|  | 56.80 <br> 56.54 <br> 56.80 |  | 1.373 | 54.61 | 40.9 | 1. 334 | 61.27 | 40.9 | 1.499 | 55.02 | 39.0 | 1. 410 | 60.17 | 40.6 | 1.482 | 56.33 | 40.1 | 1.403 |
|  |  |  | 1.368 | 55.04 | 41.2 | 1.336 | 62.01 | 41.3 | 1. 501 | 55. 29 | 39.2 | 1. 412 | 59.34 | 40.3 | 1.478 | 57.14 | 40.4 | 1. 414 |

See footnotes at end of table.

Table C-1: Hours and Gross Earnings in Manufacturing and Nonmanufacturing Industries ${ }^{1}$ - Con.

| Year and month | Iron and steel and their products-Continued |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Fabricated structural and ornamental metal work |  |  | Metal doors, sash, frames, molding, and trim |  |  | Bolts, nuts, washers, and rivets |  |  | Forgings, iron and steel |  |  | Screw-machine products and wood screws |  |  | Steel barrels, kegs, and drums |  |  |
|  | Avg. <br> wkly. <br> earn- <br> ings | Avg. wkly. hours | Avg. hrly. earnings | Avg. wkly. earn- | Avg. wkly. hours | Avg. hrly. earnings | Avg. wkly. earnings | Avg. wkly. hours | Avg. hrly. earnings | Avg. wkly. earnings | Avg. wkly. hours | Avg. hrly. earnings | Avg. wkly. earnings | Avg. wkly. hours | Avg. hrly. earnings | Avg. wkly. earnings | Avg. wkly. hours | Avg. hrly. earnings |
| 1939: Average <br> 1941: January | $\begin{array}{r} \$ 27.95 \\ 31.01 \end{array}$ | 38.5 41.8 | $\begin{array}{r} \$ 0.727 \\ .743 \end{array}$ | ---------- |  | ---------- | $\begin{array}{r} \$ 26.04 \\ 29.58 \end{array}$ | $\begin{aligned} & 37.7 \\ & 41.9 \end{aligned}$ | $\begin{array}{r} \$ 0.690 \\ .706 \end{array}$ | $\begin{array}{r} \$ 29.45 \\ 36.75 \end{array}$ | $\begin{aligned} & 38.4 \\ & 45.0 \end{aligned}$ | $\begin{array}{r} \$ 0.767 \\ .818 \end{array}$ | ------- | .-.-- |  |  |  |  |
| 1947: December.-..- | 58.81 | 42.7 | 1. 378 | \$58.97 | 43.5 | \$1. 354 | 57.79 | 42.5 | 1. 359 | 67. 20 | 42.2 | 1.591 | \$56. 77 | 43.0 | \$1. 319 | \$57. 08 | 42.5 | \$1. 344 |
| 1948: January <br> February $\qquad$ <br> March $\qquad$ <br> April. $\qquad$ <br> May. $\qquad$ <br> June $\qquad$ <br> July. <br> August $\qquad$ $\qquad$ <br> October $\qquad$ <br> November <br> December. $\qquad$ | 55. 76 55. 31 <br> 56. 15 55.77 57.16 57.84 55. 39 59.92 57.25 61. 83 61.79 | 41.1 |  | $\begin{aligned} & 56.49 \\ & 55.88 \end{aligned}$ | $\begin{array}{r} 42.0 \\ 41.7 \end{array}$ |  | $\begin{aligned} & 55.68 \\ & 57.38 \end{aligned}$ | 40.6 | 1. 369 | 65.74 | 41.6 | 1. 581 |  | 42.7 | 1. 324 | 55, 31 | $41.0 \quad 1356$ |  |
|  |  | 40.9 1.353 |  |  |  |  |  | 42.0 43.1 | 1. 364 |  |  | 1. 583 |  | 42.8 |  | 51.35 | 38.2 1.343 |  |
|  |  | 40.841.2 | 1. 365 | $\begin{aligned} & 57.97 \\ & 58.55 \end{aligned}$ | 41.1241.0 | $\begin{aligned} & 1.342 \\ & 1.385 \end{aligned}$ | $\begin{aligned} & 57.38 \\ & 59.20 \end{aligned}$ | 43.1 | 1. 372 1.375 1.3 |  |  | 1.579 | $\begin{aligned} & 56.62 \\ & 56.99 \end{aligned}$ | 42.9 | 1. 327 | 53.16 | 39.51 .344 |  |
|  |  |  | 1. 388 |  |  | 1.412 | ${ }_{57.88}$ | 42.5 42.2 | 1.375 | 63.10 62.64 | 40.0 | 1.577 | 56.30 56.06 | 42.4 | 1. 327 | 53. 49 | 39.2 | 1. 361 |
|  |  | 41.2 | 1. 395 | 61.49 | 42.7 | 1.439 | 58.88 58.76 | 42.3 | 1. 386 | 64. 64 | 40.0 40.7 | 1. 1.586 | 56.06 | 42.1 | 1. 1.328 | 55.31 55.41 | 40.4 | 1. 369 |
|  |  | 39.4 | 1. 398 | 56.45 | 39.4 | 1. 435 | 57.37 | 41.5 | 1. 383 | 64.74 | 40.0 | 1. 585 | 55. 55 | 41.9 | 1. 328 | 55.41 53.24 | 40.5 38.6 | 1. 369 |
|  |  | 41.1 | 1. 447 | 61.80 | 42.2 | 1. 465 | 60.97 | 42.3 | 1. 440 | 66.59 | 40.4 | 1.647 | 56.52 | 41.2 | 1. 366 | 53.24 58.39 | 38.6 39.9 | 1. 462 |
|  |  | 39.2 | 1. 448 | 63.75 | 42.7 | 1. 489 | 59.43 | 40.8 | 1. 454 | 68.82 | 40.6 | 1. 695 | 56.77 | 41.0 | 1. 386 | 53.74 | 38.9 36.5 | 1. 468 |
|  |  | 42.3 | 1. 1.472 | $\begin{aligned} & 6.29 \\ & 64.31 \end{aligned}$ | 42.4 | 1. 478 1.476 | 60. 87 | 41.5 | 1. 464 | 70. 63 | 41.4 | 1. 708 | 58.61 | 41.8 | 1. 400 | 58, 59 | 39.7 39 | 1. 477 |
|  |  | 41.9 42.2 |  |  |  | $\begin{aligned} & 1.476 \\ & 1.477 \end{aligned}$ | 62.77 |  | 1.458 | $\begin{aligned} & 70.54 \\ & 71.27 \end{aligned}$ | $\begin{aligned} & 41.1 \\ & 41.4 \end{aligned}$ | $\begin{aligned} & 1.716 \\ & 1.708 \end{aligned}$ | 57.42 | 41.2 | 1. 394 | 59.33 | 40.1 | 1. 479 |
|  |  |  | 1.465 |  |  |  |  |  | 1. 472 |  |  |  | 57.89 | 41.7 1.397 |  | 62.07 | 41.21 .506 |  |
|  | Iron and steel and their productsContinued |  |  | Electrical machinery |  |  |  |  |  |  |  |  |  |  |  | Machinery, except electrical |  |  |
|  | Firearms |  |  | Total: Electrical machinery |  |  | Electrical equipment |  |  | Radi | $\begin{aligned} & \text { and p } \\ & \text { sraphs } \end{aligned}$ | phono- | Cor | munica uipmen | ation <br> t | Total exce | Mach t elect | nery, ical |
| 1939: A verage <br> 1941: January | $\$ 27.28$35.09 | 41.3 | \$0.660 | $\$ 27.09$31.84 | 38.6 | $\begin{array}{r} \$ 0.702 \\ .751 \end{array}$ | \$27. 95 | 38.7 | \$0. 722 | \$22.34 | 38.538.2 | $\$ 0.581$.632 | $\begin{array}{r} \$ 28.74 \\ 32.47 \end{array}$ | 38.341.4 | $\begin{array}{r} \$ 0.751 \\ .784 \end{array}$ | \$29. 27 | $\begin{array}{r} 39.3 \\ 44.0 \end{array}$ | $\$ 0.746$.781 |
|  |  |  | . 722 |  | 42.4 |  | 33.18 | 43.4 | . 765 | 24.08 |  |  |  |  |  | +34.36 |  |  |
| 1947: December | 60.01 | 42.0 | 1. 429 | 55.34 | 41.1 | 1. 346 | 56.99 | 41.2 | 1. 384 | 48.59 | 40.4 | 1. 203 | 56.15 | 41.7 | 1. 348 | 59.67 42.2 1.413 |  |  |
| 1948: January. <br> February <br> March <br> April $\qquad$ <br> May $\qquad$ <br> June <br> July- $\qquad$ <br> August $\qquad$ <br> Otober $\qquad$ <br> October $\qquad$ $\qquad$ <br> December $\qquad$ | $\begin{aligned} & 59.88 \\ & 60.80 \\ & 62.33 \\ & 61.16 \\ & 61.42 \\ & 63.10 \\ & 63.06 \\ & 61.73 \\ & 63.23 \\ & 64.47 \\ & 64.44 \\ & 63.46 \end{aligned}$ | 41.842.142.741.841.942.142.442.142.342.342.241.4 | 1. 434 | $\begin{aligned} & 54.82 \\ & 54.50 \\ & 54.41 \\ & 53.86 \\ & 53.70 \\ & 54.86 \\ & 55.46 \\ & 5.49 \\ & 57.72 \\ & 58.17 \\ & 58.29 \\ & 58.31 \end{aligned}$ | $\begin{aligned} & 40.5 \\ & 40.4 \\ & 40.3 \\ & 39.9 \\ & 39.6 \\ & 40.0 \\ & 39.4 \\ & 40.0 \\ & 40.0 \\ & 40.2 \\ & 40.3 \\ & 40.3 \end{aligned}$ |  | $\begin{aligned} & 56.77 \\ & 56.11 \\ & 56.23 \\ & 55.70 \\ & 55.41 \\ & 56.67 \\ & 57.24 \\ & 5.18 \\ & 59.37 \\ & 60.04 \\ & 60.18 \\ & 60.41 \end{aligned}$ | 40.8 | 1.391 | 47.56 | 39.6 | 1. 202 |  |  |  |  |  |  |
|  |  |  | 1. 446 |  |  | 1.35481.3501.3501.3571.3721.4071.4391.4431.4481.4461.446 |  | 40.6 | 1.382 | 47.00 | 39.2 | 1. 200 | 55. 83 | 40.5 41.1 | 1.359 | 59.13 58.65 | 41.8 41.4 | 1.415 |
|  |  |  | 1. 460 |  |  |  |  | 40.5 | 1. 388 | 47.00 | 39.2 | 1. 199 | 54. 78 | 40.5 | 1.355 | 59.12 | 41.6 | 1.421 |
|  |  |  | 1. 463 |  |  |  |  | 40.2 | 1. 387 | 47. 01 | 39.1 | 1. 201 | 53. 49 | 39.6 | 1. 353 | 59.30 | 41.4 | 1. 431 |
|  |  |  | 1. 489 |  |  |  |  | 39.9 40.3 | 1.390 | 46.97 48.10 | 38.8 | 1. 211 | 53. 59 | 39.3 | 1. 364 | 59.33 | 41.2 | 1. 441 |
|  |  |  | 1. 489 |  |  |  |  | 40.3 39.5 | 1. 408 | 48.10 | 39.1 39.7 | 1.229 | 54. 06 | 39.7 38 | 1. 366 | 60. 50 | 41.4 | 1. 461 |
|  |  |  | 1. 468 |  |  |  |  | 39.5 40.0 | 1. 1.478 | 49.45 50.21 | 39.7 39.3 | 1. 2479 | 53.82 57.56 | 38.8 40.3 | 1.387 1 1 | 59.83 | 40.6 | 1. 473 |
|  |  |  | 1.493 |  |  |  |  | 40.0 | 1.486 | 50.66 | 39.6 | 1. 278 | 57.80 | 40.6 | 1. 426 | 61.31 | 41.0 40.6 | 1.498 |
|  |  |  | 1. 523 |  |  |  |  | 40.3 | 1.492 | 50.74 | 39.5 | 1. 285 | 58.21 | 40.6 | 1.435 | 62.25 | 40.6 41.0 | 1. 518 |
|  |  |  | 1. 528 |  |  |  |  | 40.3 | 1.493 | 52.09 | 40.4 | 1.288 | 57.15 | 40.1 | 1. 426 | 61.92 |  |  |
|  |  |  | 1.541 |  |  |  |  | 40.5 | 1.492 | 52. 49 | 40.3 | 1. 301 | 55.74 | 39.6 | 1.426 1.413 | 61.92 62.67 | 41.1 | 1. 1.524 |
|  | Machinery, except electrical-Continued |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Machinery and ma-chine-shop products |  |  | Engines and turbines |  |  | Tractors |  |  | Agricultural machinery, excluding tractors |  |  | Machine tools |  |  | Machine-tool accessories |  |  |
| 1939: Average | $\begin{array}{r} \$ 28.76 \\ 34.00 \end{array}$ | 39.443.7 | \$0.730 | $\$ 28.67$ 36.50 | 37.4 | \$0. 767 | \$32.13 | 38.3 | \$0.839 | \$26.46 37.0 \$0.716 |  |  |  |  |  | $\$ 31.78$ 40.9 $\$ 0.777$ <br> 37.90 50.0 .758 |  |  |
| - |  |  | . 777 | 36.50 | 44.1 | . 827 | 36.03 | 41.5 | ${ }^{\text {. }} 868$ | +29.92 | 39.5 | +0.757 | +30.15 | 50.4 | \$0. 797 |  |  |  |  |  |
| 1947: December | 59.22 | 42.7 | 1.391 | 61.14 | 40.5 | 1.519 | 60.24 | 41.3 | 1.459 | 57.85 | 40.6 | 1.424 | 61.34 | 43.1 | 1. 424 | 63.47 | 42.4 | 1.497 |
| 1948: January--- | 58.33 | 42.0 | 1.389 | 62.79 | 41.3 | 1.529 | 60.10 | 41.1 | 1. 462 | 57.84 | 40.4 | 1.433 | 59.64 | 42.0 | 1.420 | 63.58 | 42.2 | 1.508 |
| February | 58.11 | 41.8 | 1.392 | 62.66 | 41.6 | 1.527 | 59.40 | 40.6 | 1. 464 | 57.80 | 40.4 | 1. 432 | 60.54 | 42.3 | 1. 432 | 63. 59 | 42.2 | 1. 508 |
| March. | 58.29 58.57 | 41.8 41.6 | 1.395 1.408 | 63.31 62.47 | 41.6 41.0 | 1.525 | 59.43 | 40.6 | 1. 464 | 59.55 | 41.0 | 1. 451 | 60.58 | 42.3 | 1.433 | 62.30 | 41.8 | 1. 491 |
| April | 58.57 59.05 | 41.6 41.6 | 1.408 1.418 | 62.47 63.46 | 41.0 41.2 | 1.530 1.543 | 60.08 54.12 | 39.4 35.5 | 1. 526 | 58.87 59.44 | 40.5 | 1.455 | 60.29 | 42.0 | 1. 437 | 63. 50 | 42.0 | 1. 513 |
| June | 59.51 | 41.6 | 1. 432 | 63. 59 | 40.2 | 1.581 | ${ }^{\text {bil. }} 8$ | 35.5 40.8 | 1. 516 | 59.44 61.31 | 40.7 41.1 | 1.461 | 60.63 61.75 | 42.0 42.0 | 1.443 1.469 | 63.19 62.23 | 41.8 | 1. 514 |
| July | 58.81 | 40.7 | 1. 444 | 61.53 | 38.8 | 1.588 | 63.30 | 41.1 | 1. 541 | 61.22 60.22 | 40.0 | 1. 504 | 61.75 61.09 | 41.6 | 1.469 1.469 | 62.23 62.71 | 41.4 41.3 | 1.504 |
| August | 60. 73 | 41.3 | 1.470 | 63.78 | 40.0 | 1. 599 | 64.33 | 40.5 | 1. 586 | 60.37 | 39.7 | 1. 529 | 61.85 | 41.6 | 1.486 | 65.17 | 41.4 | 1. 574 |
| September | 60.42 | 40.7 | 1. 486 | 63.66 | 39.4 | 1.621 | 63. 70 | 40.4 | 1. 578 | 62.20 | 40.5 | 1. 537 | 62.11 | 41.6 | 1. 492 | 63.43 | 40.6 | 1. 564 |
| October- | 61.76 | 41.3 | 1.495 | 66.10 | 40.6 | 1. 634 | 63.76 | 40.4 | 1. 578 | 61.45 | 40.0 | 1. 534 | 63.31 | 41.8 | 1. 514 | 64.40 | 41.0 | 1. 570 |
| November | 61.46 | 41.0 | 1. 499 | 65.27 | 40.1 | 1.629 | 61.67 | 39.3 | 1. 569 | 60.59 | 39.6 | 1. 531 | 62.84 | 41.5 | 1.513 | 63.87 | 40.8 | 1. 566 |
| December. | 62.11 | 41.5 | 1.499 | 66.96 | 41.1 | 1.632 | 62.84 | 40.0 | 1. 572 | 62.18 | 40.1 | 1. 552 | 62.75 | 41.6 | 1.508 | 65. 21 | 41.7 | 1. 572 |

See footnotes at end of table.

Table C-1: Hours and Gross Earnings in Manufacturing and Nonmanufacturing Industries ${ }^{1}$-Con. MANUFACTURING-Continued

| Year and month | Machinery, except electrical-Continued |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Textile machinery |  |  | Typewriters |  |  | Cash registers; adding, and calculating machines |  |  | Washing machines, wringers, and driers, domestic |  |  | Sewing machines, domestic and industrial |  |  | Refrigerators and refrigeration equipment |  |  |
|  | Avg. wkly. earnings | Avg. wkly. hours | Avg. hrly. earnings | Avg. wkly. earnings | Avg. wkly. hours | Avg. hrly. earnings | Avg. wkly. earnings | Avg. wkly. hours | Avg. hrly. ings | Avg. wkly. ings | Avg. wkly. hours | Avg. hrly. earnings | Avg. wkly. earnings | Avg. wkly. hours | Avg. hrly. earnings | Avg. wkly. earn- ings | Avg. wkly. hours | Avg. hrly. earnings |
| 1939: Average | \$26.19 | 39.8 44.6 | \$0.660 | $\$ 23.98$ 26.40 | 37.3 | \$0.643 | \$30.38 | 37.2 | \$0.821 |  |  |  |  |  |  |  |  |  |
| 1947: December- | 58.56 | 43.1 | 1.358 | 55.89 | 42.9 | 1.301 | 65.67 | 42.9 | 1. 537 | \$60.42 | 43.7 | \$1.384 | \$63. 21 | 42.9 | \$1.472 | \$57.05 | 41.2 | \$1.384 |
| 1948: January-- | 59. 21 | 43.1 | 1. 374 | 55.59 | 42.6 | 1.305 | 65.39 | 42.4 | 1. 5557 | 58.28 | 42.6 | 1.369 | 62.74 | 42.4 | 1. 476 | 57. 62 | 41.6 | 1.386 |
| February | 59.50 61.40 | 42.8 43.7 | 1.390 1.406 | 55.68 54.62 | 42.4 | 1.312 1.301 | 64.11 | 41.6 | 1.554 | 57.69 56.38 | 41.8 | 1.382 1.370 | 63.14 63.90 | 42.8 43.0 | 1.476 | 52.55 55.51 | 38.1 39.9 | 1.378 1.392 |
| April | 61.01 | 43.5 | 1.403 | 54.63 | 42.0 | 1.301 | 65.62 | 42.1 | 1.573 | 58.15 | 42.1 | 1.383 | 61.01 | 42.3 | 1. 134 | 55.99 | 40.2 | 1.391 |
| May | 61. 28 | 43.3 | 1. 417 | 53.31 | 41.2 | 1. 294 | 64.55 | 41.5 | 1. 570 | 57.39 | 41.3 | 1.390 | 64.89 | 41.8 | 1. 551 | 56.72 | 40.5 | 1. 402 |
| June | 62.53 | 43.3 | 1. 443 | 53.75 | 41.2 | 1.305 | 66.43 | 41.5 | 1.614 | 59.29 | 41.8 | 1. 417 | 65. 99 | 42.5 | 1. 553 | 59.47 | 40.5 | 1.467 |
| July. | 60.61 | 42.1 | 1. 440 | 54.62 | 41.5 | 1.317 | 67.45 | 41.5 | 1.639 | 57.05 | 39.5 | 1. 445 | 65.19 | 41.5 | 1. 571 | 57.22 | 38.6 | 1.482 |
| August | 62.21 | 42.3 | 1. 470 | 52. 78 | 40.6 | 1.300 | 66.00 | 40.8 | 1. 628 | 61.27 | 41.2 | 1. 486 | 68.04 | 43.1 | 1.578 | 59. 40 | 39.2 | 1.514 |
| Septembe | 62.86 | 42.4 | 1. 483 | 53.31 | 40.5 | 1.316 | 66.04 | 40.4 | 1.646 | 59.32 | 39.5 | 1. 500 | 69.17 | 43.1 | 1.604 | 60.07 | 39.5 | 1.522 |
| October. | 62. 26 | 42.1 | 1.480 | 48.51 | 36.9 | 1.316 | 65.51 | 40.0 | 1. 646 | 62.13 | 41.5 | 1.498 | 70.20 | 43.7 | 1.608 | 62.60 | 40.6 | 1.540 |
| Novembe | 62.24 | 41.8 | 1.490 | 56.11 | 40.9 | 1.371 | 66.63 | 40.8 | 1. 644 | 61.04 | 40.7 | 1.499 | 71.30 | 44.0 | 1.618 | 61.02 | 40.0 | 1.526 |
| December | 63.58 | 42.3 | 1. 498 | 56.63 | 41.3 | 1.372 | 67.99 | 40.9 | 1. 673 | 51.12 | 35.1 | 1. 458 | 71.02 | 44.0 | 1. 608 | 61.60 | 40.0 | 1. 541 |
|  | Transportation equipment, except automobiles |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Total: Transportation equipment, except automobiles |  |  | Locomotives |  |  | Cars, electric- and steam-railroad |  |  | Aircraft and parts, excluding aircraft engines |  |  | Aircraft engines |  |  | Shipbuilding and boatbuilding |  |  |
| 1939: Average | \$30. 51 | 38.9 | \$0. 785 | \$28.33 | 36.7 | \$0. 771 | \$26. 71 | 36.0 | \$0. 741 | \$30.34 | 41.5 | \$0. 745 | \$36. 58 | 44.1 | \$0. 835 | \$31.91 | 38.0 | \$0.835 |
| 1941: January | 35.69 | 43.1 | . 828 | 34.79 | 42.8 | . 814 | 29.57 | 38.5 | . 768 | 34.13 | 44.7 | . 776 | 42.16 | 47.2 | . 892 | 37.69 | 42.0 | . 893 |
| 1947: December | 59.79 | 40.8 | 1. 465 | 63.63 | 40.7 | 1. 565 | 59.84 | 41.4 | 1. 447 | 57.12 | 40.6 | 1. 406 | 60.39 | 41.2 | 1. 465 | 61.74 | 40.5 | 1. 525 |
| 1948: January | 59. 56 | 40.3 | 1. 479 | 62.34 | 40.1 | 1. 553 | 58.51 | 40.7 | 1. 439 | 55.53 | 39.4 | 1.408 | 59.30 | 40.6 | 1. 461 | 64.05 | 40.9 | 1. 567 |
| February | 58.67 | 39.6 | 1. 482 | 61.01 | 39.2 | 1. 555 | 58. 02 | 40.2 | 1. 442 | 56.13 | 39.9 | 1. 406 | 58.29 | 40.1 | 1. 452 | 61.54 | 38.9 | 1.582 |
| March | 59. 40 | 40.3 | 1. 472 | 63.46 | 40.2 | 1. 579 | 58. 90 | 40.9 | 1. 439 | 56.71 | 40.1 | 1. 414 | 59.53 | 40.6 | 1.467 | 62.07 | 40.3 | 1. 539 |
| April. | 59.89 | 40.5 | 1.478 | 64.96 | 40.5 | 1. 604 | 58.70 | 40.9 | 1.437 | 57.75 | 40.6 | 1.421 | 60.33 | 40.5 | 1. 491 | 62.04 | 40.2 | 1. 541 |
| May | 59.30 | 40.0 | 1. 481 | 64.57 | 40.1 | 1.610 | 58.07 | 40.2 | 1. 446 | 57.74 | 40.4 | 1. 428 | 61.02 | 40.9 | 1.494 | 60.40 | 39.4 | 1. 531 |
| June. | 59.27 | 39.8 | 1. 489 | 64.58 | 39.7 | 1. 626 | 58.46 | 39.9 | 1. 467 | 57.99 | 40.4 | 1. 436 | 62.14 | 40.6 | 1. 532 | 59.76 | 39.2 | 1. 525 |
| July | 58. 95 | 39. 2 | 1. 503 | 64.00 | 38.4 | 1. 665 | 56.19 | 38.3 | 1. 466 | 57.89 | 40.0 | 1. 449 | 64.79 | 40.6 | 1. 594 | 59. 49 | 38.8 | 1. 534 |
| August | 60.53 | 39.7 | 1. 527 | 64.76 | 38.7 | 1. 674 | 61.81 | 40.5 | 1. 526 | 59.68 | 40.5 | 1. 475 | 65.11 | 41.1 | 1. 583 | 58.87 | 37.7 | 1. 568 |
| September | 60. 74 | 39.0 | 1.556 | 66.52 | 39.7 | 1. 677 | 57.21 | 37.4 | 1. 531 | 61.38 | 40.7 | 1.507 | 66. 26 | 41.2 | 1. 609 | 58.62 | 36.6 | 1. 604 |
| October | 62.70 | 39.8 | 1. 575 | 63. 74 | 38.3 | 1.663 | 63.16 | 40.8 | 1.548 | 62.45 | 40.6 | 1.537 | 67.73 | 41.7 | 1. 623 | 60.52 | 37.5 | 1.616 |
| November | 61.98 | 39.3 | 1. 579 | 66.29 | 39.0 | 1. 698 | 62.74 | 40.2 | 1.562 | 63.30 | 40.9 | 1.548 | 66.61 | 41.2 | 1.617 | 56.16 | 35.0 | 1.606 |
| December. | 64.56 | 40.6 | 1. 588 | 71.90 | 40.5 | 1. 774 | 66.03 | 42.0 | 1. 571 | 63.61 | 41.1 | 1. 550 | 67.30 | 41.7 | 1. 616 | 63.21 | 39.1 | 1.617 |
|  | Transportation equipment, except automobiles-Con. |  |  | Automobiles |  |  | Nonferrous metals and their products |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  | Total: Nonferrous metals and their products |  |  | Smelting and refining, primary, of nonferrous metals |  |  | Alloying; and rolling and drawing nonferrous metals, except aluminum |  |  | Clocks and watches |  |  |
|  | Motorcycles, bicycles, and parts |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1939: A verage |  |  |  | \$32.91 | 35.4 | \$0. 929 | \$26. 74 | 38.9 | \$0.687 | \$26.67 | 38.2 | \$0.699 | \$28.77 | 39.6 | \$0. 729 | \$22. 27 | 37.9 | \$0. 587 |
| 1941: January |  |  |  | 37.69 | 38.9 | . 969 | 30.47 | 41.4 | . 736 | 29.21 | 38.7 | 755 | 35.96 | 44.0 | . 818 | 23.90 | 38.9 | . 614 |
| 1947: December | \$58.96 | 42.3 | \$1.393 | 64.64 | 41.4 | 1. 563 | 55.53 | 41.8 | 1. 327 | 55.44 | 41.2 | 1. 346 | 57.26 | 40.5 | 1. 412 | 48.69 | 41.9 | 1.164 |
| 1948: January | 55.33 | 40.3 | 1. 373 | 60.96 | 39.6 | 1. 538 | 55. 06 | 41.2 | 1. 336 | 55. 85 | 41.1 | 1. 360 | 57.30 | 40.4 | 1.418 | 47.63 | 40.2 | 1.185 |
| February | 55.65 | 39.8 | 1. 400 | 59.00 | 38.1 | 1. 548 | 55.07 | 41.2 | 1. 338 | 55.58 | 41.0 | 1. 357 | 57.73 | 40.6 | 1. 422 | 48. 59 | 41.0 | 1.186 |
| March | 55.88 | 40.4 | 1. 384 | 59.81 | 38.9 | 1. 539 | 55.23 | 41.1 | 1. 344 | 55.31 | 40.5 | 1. 366 | 58.25 | 40.8 | 1.429 | 49.15 | 41.1 | 1. 196 |
| April | 56. 36 | 40.3 | 1. 398 | 59.14 | 38.6 | 1. 533 | 54.87 | 40.9 | 1. 343 | 56.49 | 41.1 | 1.375 | 56.84 | 40.0 | 1.422 | 49.09 | 40.8 | 1. 205 |
| May. | 55. 54 | 39.4 | 1. 410 | 54.44 | 35.2 | 1.548 | 54. 96 | 40.6 | 1. 355 | 57.33 | 41.5 | 1.380 | 57.42 | 40.1 | 1. 431 | 48.27 | 40.1 | 1. 205 |
| June. | 54. 07 | 37.5 | 1. 442 | 61.30 | 37.7 | 1. 624 | 55. 91 | 40.8 | 1. 369 | 57. 96 | 41.3 | 1. 403 | 59.35 | 41.2 | 1. 440 | 48. 89 | 40.1 | 1. 219 |
| July | 54.28 | 37.6 | 1. 445 | 63.48 | 38.5 | 1. 649 | 56.34 | 40.1 | 1. 404 | 59.75 | 41.2 | 1. 449 | 61. 61 | 40.8 | 1. 511 | 48. 96 | 39.8 | 1. 230 |
| August | 62.67 | 41.6 | 1. 508 | 64.67 | 38.9 | 1. 664 | 57.97 | 40.7 | 1. 424 | 61.74 | 41.4 | 1. 493 | 63.37 | 41.0 | 1. 547 | 50.80 | 40.7 | 1. 249 |
| Septembe | 61.79 | 41.1 | 1. 503 | 62. 74 | 37.4 | 1. 676 | 58. 73 | 40.8 | 1. 438 | 63. 39 | 41.6 | 1. 522 | 63. 36 | 40.8 | 1. 552 | 50.76 | 40.3 | 1. 259 |
| October | 66.51 | 42.9 | 1. 551 | 67.29 | 39.9 | 1. 689 | 59. 25 | 41.2 | 1. 440 | 62.01 | 41.4 | 1. 497 | 63.20 | 40.8 | 1. 549 | 51.11 | 40.4 | 1. 266 |
| November | 66.68 | 43.6 | 1. 529 | 65.46 | 38.8 | 1. 688 | 58.76 | 40.8 | 1.440 | 60.78 | 40.6 | 1.498 | 61.33 | 39.8 | 1. 541 | 51.47 | 40.3 | 1.277 |
| December | 57.12 | 38.8 | 1. 472 | 68.09 | 40.3 | 1. 691 | 59.36 | 41.2 | 1.442 | 61.20 | 41.0 | 1. 502 | 63.34 | 41.0 | 1. 546 | 51.22 | 40.4 | 1. 269 |

See footnotes at end of table.

Table C-1: Hours and Gross Earnings in Manufacturing and Nonmanufacturing Industries ${ }^{1}$-Con.
mANUFACTURING-Continued


See footnotes at end of table.

Table C-1: Hours and Gross Earnings in Manufacturing and Nonmanufacturing Industries ${ }^{1}$-Cor manuracturing-Continued

| Year and month | Stone, clay, and glass products-Continued |  |  |  |  |  |  |  |  |  |  |  | Textile-mill products and other fiber manufactures |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Lime |  |  | Marble, granite, slate, and other products |  |  | Abrasives |  |  | Asbestos products |  |  | Total: Textile-mill products and other fibermanufactures |  |  | Cotton manufactures, except smallwares |  |  |
|  | Avg. wkly. earnings | Avg. wkly. hours | AV. hrly. earnings | Avg. wkly. earnings | Avg. wkly. hours | Avg. hrly. earnings | Avg. wkly. earnings | Avg. wkly. hours | Avg. hrly. earnings | Avg. wkly. earnings | Avg. wkly. hours | A Vg . hrly. earnings | Avg. wkly. earnings | Avg. wkly. hours | Avg. hrly. earnings | Avg. <br> wkly. earnings | Avg. wkly. hours | Avg. hrly. earnings |
| 1939: A verage <br> 1941: January |  |  |  | $\$ 26.18$ 24.29 | 36.9 34.6 | $\$ 0.714$ .708 |  |  |  | $\$ 24.43$ 27.26 | 39.0 41.3 | $\$ 0.627$ .660 | $\$ 16.84$ <br> 18.01 | 36.6 36.9 | $\$ 0.460$ .488 | $\$ 14.26$ 15.60 | 36.7 37.2 | $\$ 0.389$ .419 |
| 1947: December. | \$50.48 | 46.4 | \$1.085 | 48.68 | 41.9 | 1. 160 | \$60.68 | 44.0 | \$1.380 | 53.85 | 41.8 | 1. 289 | 45.15 | 41.0 | 1. 100 | 43.64 | 41.1 | 1.061 |
| 1948: January | 49.10 | 44.2 | 1. 094 | 46.89 | 40.6 | 1.153 | 59.07 | 44.4 | 1.331 | 53.98 | 41.4 | 1. 305 | 45. 19 | 40.5 | 1. 115 | 43.81 | 40.7 | 1.077 |
| February | 47.86 | 43.7 | 1. 091 | 46. 23 | 40.4 | 1.146 | 58.38 | 42.6 | 1.372 | 54.04 | 40.9 | 1. 322 | 45.79 | 40.2 | 1. 139 | 43.43 | 40.1 | 1.083 |
| March | 50.58 | 45.8 | 1. 102 | 47. 57 | 40.9 | 1.162 | 60.62 | 42.6 | 1. 424 | 54. 49 | 41.3 | 1.318 | 46.32 | 40.6 | 1.140 | 43.98 | 40.7 | 1. 081 |
| April | 52.08 | 46.3 | 1. 127 | 47.97 | 40.9 | 1. 160 | 59.02 | 41.5 | 1. 423 | 55.11 | 41.2 | 1. 338 | 45. 46 | 39.9 | 1.138 | 43.08 | 40.1 | 1. 076 |
| May | 52. 41 | 46.1 | 1.136 | 49.44 | 41.3 | 1.193 | 61.04 | 41.9 | 1. 457 | 55.45 | 41.3 | 1.340 | 45. 22 | 39.6 | 1. 142 | 42.64 | 39.6 | 1. 078 |
| June | 53.32 | 45.9 | 1.153 | 49. 21 | 40.9 | 1.198 | 61.39 | 42.2 | 1. 456 | 56.17 | 41.7 | 1.348 | 45.29 | 39.5 | 1. 147 | 42.00 | 39.1 | 1. 075 |
| July | 52.46 | 44.4 | 1. 169 | 48.27 | 39.8 | 1. 209 | 58.53 | 41.3 | 1. 423 | 57.18 | 41.7 | 1.373 | 44.15 | 38.6 | 1.145 | 40.63 | 38.0 | 1. 070 |
| August | 54. 78 | 45.8 | 1.192 | 50.32 | 41.1 | 1.219 | 60.17 | 41.5 | 1.449 | 57.52 | 41.4 | 1.391 | 45.07 | 38.5 | 1.170 | 41.61 | 37.7 | 1. 106 |
| Septemb | 54.75 | 45.0 | 1.217 | 50.05 | 40.9 | 1. 221 | 62.09 | 42.0 | 1.479 | 58.81 | 42.0 | 1.400 | 45.12 | 38.0 | 1. 188 | 41.69 | 37.1 | 1. 125 |
| October | 55.45 | 45.8 | 1.203 | 50.34 | 41.2 | 1. 220 | 62.30 | 41.8 | 1. 492 | 58.85 | 41.6 | 1. 415 | 44.94 | 37.9 | 1.187 | 41.60 | 36.9 | 1. 127 |
| November | 55. 24 | 45.4 | 1.213 | 48.76 | 39.3 | 1. 238 | 61. 37 | 41.4 | 1. 482 | 56.55 | 40.5 | 1. 404 | 45.17 | 38.0 | 1.190 | 41.60 | 37.0 | 1.125 |
| December | 53. 89 | 44.5 | 1.203 | 51.80 | 41.6 | 1. 246 | 61.73 | 41.3 | 1. 494 | 56.53 | 40.7 | 1. 394 | 45.48 | 38.3 | 1.188 | 42.21 | 37.5 | 1.126 |
| Textile-mill products and other fiber manufactures-Continued |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Cotton smallwares |  |  | Silk and rayon goods |  |  | Woolen and worsted manufactures, except dyeing and finishing |  |  | Hosiery |  |  | Knitted cloth |  |  | Knitted outerwear and knitted gloves |  |  |
| 1939: A verage. | \$18. 22 | 39.0 | \$0.474 | \$15. 78 | 36.5 | \$0. 429 | \$19.21 | 36.4 | \$0. 528 | \$18.98 | 35.6 | \$0. 536 | \$18.15 | 38.4 | \$0.468 | \$17.14 | 37.0 | \$0. 461 |
| 1941: January------- | 19.74 | 39.3 | . 503 | 16.53 | 35.7 | . 461 | 21.78 | 37.9 | . 576 | 18.51 | 33.8 | . 550 | 19.90 | 37.9 | . 503 | 17.65 | 35.8 | . 489 |
| 1947: December | 42.35 | 40.5 | 1.045 | 46.48 | 42.3 | 1. 100 | 49. 12 | 41.2 | 1.192 | 42.95 | 39.1 | 1. 098 | 44.18 | 41.9 | 1.045 | 38.02 | 38.5 | . 978 |
| 1948: January | 43.15 | 40.3 | 1. 071 | 47. 55 | 41.9 | 1.137 | 48. 79 | 40.8 | 1. 195 | 41.76 | 37.9 | 1.103 | 44. 65 | 42.1 | 1. 062 | 37.94 | 37.7 | . 992 |
| February | 43. 23 | 40.4 | 1. 072 | 47. 92 | 41.8 | 1. 147 | 52. 82 | 40.8 | 1. 303 | 41. 72 | 37.6 | 1. 108 | 45. 23 | 41.9 | 1. 079 | 39.18 | 38.7 | 1. 001 |
| March | 43. 31 | 40.2 | 1. 080 | 48. 53 | 42.2 | 1. 151 | 53. 49 | 40.7 | 1. 313 | 42.80 | 38.6 | 1. 108 | 45. 84 | 41.9 | 1. 094 | 39.08 | 38.6 | 1. 004 |
| April. | 43.03 | 39.6 | 1. 087 | 48. 31 | 41.8 | 1.156 | 52. 33 | 39.9 | 1. 311 | 41.61 | 37.4 | 1.112 | 44. 39 | 41.4 | 1. 072 | 38.73 | 38.4 | 1. 007 |
| May | 42. 72 | 39.3 | 1. 089 | 48. 38 | 41.8 | 1.157 | 52.61 | 40.1 | 1. 314 | 41.14 | 36. 7 | 1. 120 | 42. 79 | 39.7 | 1. 078 | 39.00 | 38.5 | 1. 012 |
| June | 43.98 | 39.8 | 1. 106 | 48. 47 | 41.8 | 1.159 | 53. 10 | 40.3 | 1. 320 | 42.01 | 36.6 | 1. 146 | 43.94 | 40.7 | 1. 079 | 38.84 | 38.3 | 1. 004 |
| July | 43.48 | 39.3 | 1.107 | 47. 69 | 41.6 | 1. 147 | 52. 31 | 39.5 | 1. 327 | 41.52 | 36.1 | 1.148 | 44. 21 | 40.5 | 1. 091 | 37. 28 | 37. 2 | 1. 987 |
| August | 43. 40 | 38.9 | 1.115 | 48. 85 | 41.3 | 1. 182 | 52. 13 | 39.6 | 1. 317 | 42. 98 | 36.8 | 1. 167 | 44. 70 | 40.8 | 1. 097 | 37. 89 | 37.3 | 1. 000 |
| September | 44.09 | 39.0 | 1.130 | 49. 62 | 41.2 | 1. 206 | 51.19 | 38.8 | 1. 323 | 43. 38 | 36.2 | 1. 200 | 43. 72 | 39.1 | 1.117 | 38. 91 | 37.7 | 1. 016 |
| October.- | 42.87 | 38.0 | 1.129 | 49. 13 | 41.1 | 1. 195 | 49.37 | 37.6 | 1. 315 | 45.11 | 37.5 | 1. 204 | 44.61 | 39.1 | 1.141 | 37. 78 | 36.6 | 1. 021 |
| Novembe | 43.19 | 38.3 | 1.130 | 49.26 | 41.1 | 1. 200 | 50.25 | 38.1 | 1.320 | 45. 26 | 37.4 | 1.209 | 44.82 | 39.3 | 1.141 | 39.85 | 38.2 | 1. 029 |
| December | 44.12 | 39.4 | 1.122 | 48.81 | 40.8 | 1. 197 | 51.61 | 38.9 | 1.319 | 43.77 | 36.5 | 1.198 | 44.66 | 39.2 | 1. 140 | 39.37 | 38.0 | 1. 021 |
|  | Textile-mill products and other fiber manufactures-Continued |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Knitted underwear |  |  | Dyeing and finishing textiles, including woolen and worsted |  |  | Carpets and rugs, wool |  |  | Hats, fur-felt |  |  | Jute goods, except felts |  |  | Cordage and twine |  |  |
| 1939: A verage | \$15. 05 | 36.9 | \$0.410 | \$20.82 | 38.6 | \$0. 535 | \$23. 25 | 36.1 | \$0. 644 | \$22. 73 | 32.2 | \$0. 707 |  |  |  |  |  |  |
| 1941: January. | 16.06 | 36.0 | . 446 | 21.65 | 39.3 | . 551 | 25.18 | 37.3 | . 675 | 27.12 | 36.2 | . 755 |  |  |  |  |  |  |
| 1947: December. | 38.17 | 40.2 | . 951 | 50. 25 | 42.7 | 1.175 | 54.91 | 42.2 | 1. 306 | 51.52 | 39.1 | 1. 321 | \$38. 21 | 41.2 | \$0. 927 | \$44. 13 | 41.3 | \$1.068 |
| 1948: January | 37.77 | 39.4 | . 959 | 51. 04 | 42.3 | 1. 204 | 55. 23 | 41.9 | 1. 322 | 50.17 | 37.8 | 1. 328 | 41.75 | 40.8 | 1. 024 | 44. 63 | 41.3 | 1. 081 |
| February | 37.76 | 38.9 | . 969 | 51.80 | 42.2 | 1. 227 | 55. 35 | 42.0 | 1. 319 | 51.79 | 38.7 | 1. 328 | 42. 28 | 40.1 | 1. 053 | 44.44 | 40.8 | 1. 091 |
| March | 38.89 | 39.5 | . 981 | 51.85 | 42.3 | 1. 227 | 55. 79 | 42.1 | 1.327 | 50.36 | 37.2 | 1. 348 | 42. 44 | 40.0 | 1. 060 | 43.65 | 40.6 | 1. 079 |
| April | 38.72 | 39.1 | . 988 | 51.44 | 41.8 | 1. 229 | 55.18 | 41.4 | 1. 336 | 48.58 | 35.3 | 1. 379 | 42. 93 | 40.6 | 1. 057 | 42.21 | 39.1 | 1. 079 |
| May | 37.88 | 38.3 | . 987 | 50.67 | 41.3 | 1. 226 | 56.22 | 41.8 | 1. 348 | 49.94 | 36.7 | 1. 364 | 42. 69 | 40.1 | 1. 064 | 41.82 | 38.5 | 1. 084 |
| June | 38.09 | 38.4 | . 994 | 51. 05 | 41.5 | 1. 229 | 57.86 | 42.0 | 1. 380 | 51.72 | 37.7 | 1. 375 | 42. 65 | 40.2 | 1. 060 | 42. 68 | 39.0 | 1. 094 |
| July | 36.98 | 37.3 | . 990 | 48.76 | 39.9 | 1. 221 | 57.42 | 40.7 | 1.412 | 49.52 | 37.1 | 1. 338 | 42. 58 | 40.6 | 1. 048 | 41.08 | 37.7 | 1. 088 |
| August | 38.05 | 37.3 | 1. 016 | 49.86 | 40.1 | 1. 241 | 59.36 | 41.3 | 1. 439 | 52.52 | 37.3 | 1. 411 | 43.37 | 41.1 | 1. 056 | 41.82 | 38.0 | 1. 101 |
| September.-.-- | 36. 80 | 35.8 | 1.023 | 50.47 | 39.9 | 1. 264 | 59.30 | 41.3 | 1.438 | 50.54 | 35.7 | 1. 414 | 41. 77 | 40.3 | 1. 036 | 41.85 | 37.4 | 1.120 |
| October-.....-- | 37.00 | 36.0 | 1.023 | 50.54 | 39.7 | 1. 271 | 60.08 | 41.1 | 1. 464 | 49.78 | 35.5 | 1. 397 | 43. 77 | 41.3 | 1.059 | 42.90 | 38.4 | 1.119 |
| November-.-- | 36.19 | 35.3 | 1.025 | 50.98 | 39.9 | 1.274 | 60.27 | 41.0 | 1.471 | 47.59 | 33.6 | 1.400 | 43.91 | 41.4 | 1.062 | 43.54 | 38.3 | 1.136 |
| December-...-- | 35.99 | 34.8 | 1.027 | 52.36 | 41.2 | 1. 269 | 59.56 | 40.6 | 1.467 | 53.07 | 37.4 | 1.406 | 43.89 | 41.2 | 1.066 | 43.79 | 38.4 | 1.139 |

See footnotes at end of table.
able C-1: Hours and Gross Earnings in Manufacturing and Nonmanufacturing Industries ${ }^{1}$-Con.
MANUFACTURING-Continued

| Year and month | Apparel and other finished textile products |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total: Apparel and other finished textile products |  |  | Men's clothing, not elsewhere classified |  |  | Shirts, collars, and nightwear |  |  | Underwear and neckwear, men's |  |  | Work shirts |  |  | Women's clothing, not elsewhere clas sified |  |  |
|  | Avg. wkly. earnings | Avg. wkly. hours | Avg. hrly. earnings | Avg. <br> wkly. earnings | Avg. wkly. hours | Avg. hrly. earnings | Avg. wkly. earnings | Avg. wkly. hours | Avg. hrly. earnings | Avg. wkly. earnings | Avg. wkly. hours | Avg. hrly. earnings | Avg. wkly. earnings | Avg. wkly. hours | Avg. hrly. earnings | Avg. wkly. earn ings | Avg. wkly. hours | Avg. hrly. earnings |
| 339: Average <br> 41: January | \$18.17 18.76 | 34.5 33.5 | $\$ 0.527$ .560 | $\$ 19.32$ 20.40 | 33.2 33.4 | $\$ 0.581$ .607 | $\begin{array}{r} \$ 13.75 \\ 14.22 \end{array}$ | 34.6 33.0 | $\$ 0.398$ .431 | + $\begin{array}{r}\text { \$14.18 } \\ 14.85\end{array}$ | 35.4 33.6 | \$0. . 401 .442 | \$11. 12.33 | 35.8 33.6 | $\$ 0.309$ .367 | \$19.20 19.47 | 33.9 33.2 | $\$ 0.519$ .553 |
| 1947: December. | 39.00 | 37.1 | 1. 052 | 43.11 | 37.7 | 1. 136 | 35.12 | 38.1 | . 918 | 35. 56 | 37.3 | . 953 | 24.32 | 34.1 | . 712 | 46.76 | 36.2 | 1. 270 |
| 48: January | 40.00 | 36.6 | 1. 094 | 44.11 | 37.1 | 1.178 | 34.45 | 36.9 | . 929 | 35.03 | 36.4 | . 957 | 23.73 | 32.7 |  |  |  |  |
| February | 40.23 | 36.7 | 1. 098 | 44. 05 | 37.1 | 1.176 | 34.20 | 36.8 | . 928 | 34.78 | 35.5 | . 974 | 25. 69 | 35.6 | . 721 | 49.09 | 36.0 36.1 | 1.327 1.334 |
| March | 40.09 | 36.7 | 1. 092 | 44. 73 | 37.4 | 1.188 | 35. 02 | 37.4 | . 934 | 35. 77 | 36.3 | . 984 | 26. 50 | 36.9 | . 718 | 48.10 | 36.1 | 1. 310 |
| April. | 37. 61 | 36.2 | 1. 040 | 44.31 | 37.3 | 1.173 | 34.39 | 36. 9 | . 928 | 34.35 | 36.0 | . 954 | 26.85 | 36.8 | . 730 | 43.20 | 35.1 | 1. 201 |
| May | 37.24 37.61 | ${ }_{35} 3.8$ | 1. 040 | 43. 50 | 36.8 | 1.171 | ${ }^{33.83}$ | 36.3 | . 927 | 34.80 | 36.8 | . 946 | 27.22 | 36.5 | . 744 | 43.27 | 35.1 | 1. 206 |
| July | 37.61 38.74 | 35.6 <br> 35.8 | 1. 1.085 | 43. 19 | 36.4 <br> 36.8 | 1.169 1.160 | 33.00 33.14 | 35.5 36.2 | . 925 | 34. 00 | 35.6 | . 950 | 27. 21 | 37.1 | . 732 | 43.94 | 35.0 | 1. 239 |
| August | 40.27 | 36.4 | 1. 106 | 43.98 | 36.8 36.8 | 1.180 | 32.14 32.88 | 36.2 35.7 | . 924 | 34. 34 | 36.0 36.5 | . 950 | 26. 67 | 36.9 374 | . 735 | 46.09 | 34.9 | 1.304 |
| Septemb | 40.38 | 36.1 | 1. 117 | 43.81 | 36.7 | 1.178 | 33. 59 | 35.9 | . 933 | ${ }_{35.74}^{35.31}$ | 36.5 36.0 | . 996 | 28. 41 | 37.4 37.4 | . 739 | 49.06 49.15 | 36.0 35.6 | 1.339 1.352 |
| October | 37.77 | 34.8 | 1.087 | 41.07 | 35.0 | 1.160 | 33.44 | 35.9 | . 931 | 35. 29 | 35.9 | . 982 | 28.34 | 37.6 | . 751 | 44.39 | 33.5 | 1.302 |
| November | 39. 43 | 35. 9 | 1. 098 | 41.78 | 35.4 | 1.167 | 34.04 | 36.1 | . 942 | 37.03 | 37.1 | . 998 | 27.38 | 36.4 | . 749 | 48.05 | 35.7 | 1.321 |
| December | 39.00 | 35.4 | 1. 100 | 41.95 | 35.3 | 1. 180 | 32. 26 | 34.2 | . 944 | 36.33 | 36.6 | . 991 | 26.72 | 34.6 | . 767 | 47.34 | 35.1 | 1.317 |
|  | A pparel and other finished textile products-Continued |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Corsets and allied garments |  |  | Millinery |  |  | Handkerchiefs |  |  | Curtains, draperies, and bedspreads |  |  | Housefurnishings, other than curtains, etc. |  |  | Textile bags |  |  |
| 1939: A verage <br> 1941: January | \$17.15 17.24 | 37.5 35.6 | \$0.456 | \$22.19 | 33.8 30.5 | \$0.636 |  |  |  |  |  |  |  |  |  |  |  |  |
| 1947: December | 36.89 | 39.0 | . 948 | 46. 03 | 35.0 | 1. 256 | \$32. 55 | 37.0 | \$0.881 | \$31.28 | 37.1 | \$0.843 | \$41.34 | 40.5 | \$1. 012 | \$37. 60 | 39.5 | \$0.953 |
| 1948: January | 37.37 37.07 | 38.0 37.9 | .985 .979 | 53.14 57.84 | 37.3 39.3 | 1.365 1.415 | 30.46 32.66 | 34.4 36.4 3 | . 884 | 31.44 | 36.8 | . 856 | 38. 54 | 38.2 | . 999 | 37.20 | 38.9 | . 956 |
| March. | 38.14 | 38.5 | . 993 | 52.77 | 39.3 36.9 | 1. 394 | 32.66 34.21 | 36.4 37.1 | . 897 | 30.69 31.40 | 36.8 35.9 35 | . 858 | 36.83 38.29 | 37.7 38.1 | .965 1.000 | 36.23 35.80 | 38.0 | . 952 |
| April | 37.39 | 37.8 | . 991 | 49.95 | 36.0 | 1. 353 | 33. 09 | 36.1 | . 917 | 30.17 | 33.1 | . 891 | 38. 46 | 38.2 | 1.001 | 36.35 | 37.2 | . 977 |
| May | 35.85 | 35.8 | 1. 003 | 42.82 | 31.5 | 1. 333 | 31.66 | 34.8 | . 909 | 30.41 | 32.9 | . 912 | 37.52 | 37.2 | . 998 | 37.94 | 38.4 | . 987 |
|  | 36. 58 | 36.2 | 1. 013 | 45. 29 | 32.7 | 1. 352 | 31. 40 | 34.3 | . 917 | 30.50 | 33.6 | . 898 | 40.19 | 39.1 | 1. 019 | 38.10 | 38.3 | . 995 |
| July | 36.10 36.51 | 36.0 36.6 | 1.003 .999 | 50.99 54.26 | 34.8 36.7 | 1. 1.414 | 30.62 32.79 | 33.8 <br> 35.7 | . 907 | 30. 33 | 34.6 | . 892 | 39. 01 | 38.2 | 1. 010 | 38.93 | 38.9 | 1. 001 |
| September | 36.51 <br> 37.07 | 36.6 37.1 | 1. 092 | 54. 64 | 36.7 36.5 | 1. 1.449 | 32.79 34.34 | 35.7 37.2 | . 920 | $\begin{array}{r}31.97 \\ * 32.54 \\ \hline\end{array}$ | ${ }_{* 35.8}^{35}$ | . 898 | 39.72 | 38.6 | 1. 014 | 39.68 | 39.2 | 1.012 |
| October | 37.66 | 37.0 | 1. 019 | 51.37 | 34.0 | 1.467 | 36.24 | 38.7 | . 937 | 32.86 | 36.0 | . 920 | 41.33 | 39.4 | 1. 036 | 41.42 | 40.2 | 1. 042 |
| November | 38. 31 | 37.7 | 1. 016 | 42. 97 | 30.4 | 1. 381 | 36. 70 | 38.0 | . 965 | 32. 93 | 36.6 | . 909 | 41. 78 | 39.8 | 1. 038 | 40.98 | 39.8 | 1.029 |
| December | 37.70 | 37.3 | 1. 012 | 48.46 | 34.4 | 1.380 | 35.69 | 37.7 | . 946 | 32.11 | 35.2 | . 920 | 42.00 | 39.6 | 1. 045 | 41.99 | 40.3 | 1.033 |
|  | Leather and leather products |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Total: Leather and leather products |  |  | Leather |  |  | Boot and shoe cut stock and findings |  |  | Boots and shoes |  |  | Leather gloves and mittens |  |  | Trunks and suitcases |  |  |
| 1939: A verage | \$19.13 | 36. 2 | \$0. 528 | \$24. 43 | 38.7 | \$0. 634 |  |  |  | \$17.83 | 35.7 | \$0. 503 |  |  |  |  |  |  |
| 1941: January | 20.66 | 37.3 | . 554 | 25. 27 | 38.3 | . 662 |  |  |  | 19.58 | 37.0 | . 530 |  |  |  |  |  |  |
| 1947: December. | 42.67 | 39.1 | 1. 092 | 53.65 | 41.3 | 1. 300 | \$41. 36 | 39.3 | \$1.063 | 40.87 | 38.7 | 1. 056 | \$33. 91 | 36.3 | \$0. 931 | \$45. 53 | 40.9 | \$1. 109 |
| 1948: January | 42.63 | 39.0 | 1.095 | 53.06 | 40.8 | 1. 299 | 41. 36 | 38.9 | 1.075 | 41. 09 | 38.8 | 1. 059 | 33.75 | 35.7 | . 947 | 42. 33 | 38.4 | 1.105 |
| February | 42. 99 | 39.0 | 1.102 | 53.38 | 40.5 | 1.317 | 41.23 | 38.4 | 1. 080 | 41.35 | 38.8 | 1. 065 | 33.67 | 36.0 | . 941 | 45.61 | 40.6 | 1.129 |
| March <br> April | 41.87 40 | 37.8 | 1.106 | 51.91 | 39.4 | 1.315 | 40.55 | 37.6 | 1. 086 | 40.21 | 37.5 | 1. 071 | 33.82 | 36.0 | . 940 | 45. 83 | 40.6 | 1.135 |
| April | 40.34 39.65 | 36.2 35.5 | 1.116 1.118 | 51.59 52.38 | 39.1 39.4 | 1.318 | 39.90 39.72 | 36.5 36.3 | 1.107 | 38. 09 | 35.3 | 1. 080 | 33.18 | 35.4 | . 938 | 45.35 | 40.1 | 1.130 |
| June | 41.38 | 35.5 37.0 | 1.118 | 52.38 53.11 | 39.4 39.5 | 1.330 | 31. 24 | 36.3 37.4 | 1.105 | 36.79 39.00 | 34.3 36.4 | 1. 1.074 | 34.77 35.78 | 35.2 <br> 35.8 | . 991 | 45. 06 | 39.6 | 1. 137 |
| July | 41.64 | 37.4 | 1.114 | 53.39 | 39.5 | 1.351 | 41.09 | 37.4 | 1.104 | 39.41 | 37.0 | 1.069 | 35. 01 | 35.8 35.8 | . 988 | 44.42 | 39.0 38.8 | 1.150 1.152 |
| August | 42.80 | 37.9 | 1.128 | 53.70 | 39.8 | 1.356 | 42.62 | 38.8 | 1.105 | 40.65 | 37.4 | 1. 087 | 35. 79 | 36.3 | 1. 005 | 47.19 | 40.6 | 1. 1.162 |
| September | 42.65 | 37.3 | 1.143 | 53. 13 | 38.9 | 1. 367 | 42.00 | 38.1 | 1. 117 | 40.61 | 36.8 | 1. 104 | 35.41 | 35.6 | 1. 002 | 47.65 | 40.7 | 1.175 |
| October- | 41.56 | 36. 3 | 1.145 | 53. 52 | 39.1 | 1. 368 | 40.46 | 36.2 | 1.125 | 39.15 | 35.6 | 1. 102 | 34.72 | 35.1 | . 995 | 47.61 | 40.0 | 1.193 |
| November | 40. 79 | 35.5 | 1. 149 | 53.82 | 39.1 | 1. 377 | 39. 73 | 35.6 | 1. 134 | 37.91 | 34.4 | 1. 103 | 34. 74 | 34.9 | 1. 004 | 49. 47 | 41.6 | 1. 201 |
| December | 42.59 | 37.2 | 1. 146 | 55.39 | 40.1 | 1.381 | 42. 51 | 37.6 | 1.137 | 40.18 | 36.6 | 1.099 | 33.15 | 34.4 | . 962 | 45.56 | 38.6 | 1.192 |

See footnotes at end of table.

Table C-1: Hours and Gross Earnings in Manufacturing and Nonmanufacturing Industries ${ }^{1}$
MANUFACTURING-Continued


See footnotes at end of table.

Table C-1: Hours and Gross Earnings in Manufacturing and Nonmanufacturing Industries ${ }^{1}$ - Con.
MANUFACTURING-Continued

| Year and month | Paper and allied products |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Printing, publishing, and allied industries <br> Total: Printing, publishing, and allied industries |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total: Paper and allied products |  |  | Paper and pulp |  |  | Envelopes |  |  | Paper bags |  |  | Paper boxes |  |  |  |  |  |
|  | Avg. wkly. earnings | Avg. wkly. hours | Avg. hrly. earnings | Avg. wkly. earnings | Avg. wkly. hours | Avg. hrly. earnings | Avg. wkly. earnings | Avg. wkly. hours | Avg. <br> hrly. <br> earn- <br> ings | Avg. <br> wkly. <br> earn- <br> ings | Avg. wkly. hours | Avg. hrly. <br> earnings | Avg. wkly. earnings | Avg. wkly. hours | Avg. <br> hrly. <br> earn- <br> ings | Avg. <br> wkly. <br> earn- <br> ings | Avg. wkly. hours | Avg. <br> hrly. <br> earnings |
| 1939: A verage <br> 1941: January | $\$ 23.72$ 25.16 | 40.1 40.0 | $\$ 0.592$ .629 | $\$ 24.92$ <br> 27.02 | 40.3 40.8 | $\begin{array}{r} \$ 0.620 \\ .662 \end{array}$ |  |  |  |  |  |  | $\begin{array}{r} \$ 21.78 \\ 22.26 \end{array}$ | $\begin{aligned} & 40.2 \\ & 38.8 \end{aligned}$ | $\begin{array}{r} \$ 0.547 \\ .576 \end{array}$ | $\begin{array}{r} \$ 32.42 \\ 33.49 \end{array}$ | $\begin{aligned} & 37.4 \\ & 37.8 \end{aligned}$ | $\begin{array}{r} \$ 0.866 \\ .886 \end{array}$ |
| 1947: December | 53.69 | 43.8 | 1. 226 | 58.21 | 44.9 | 1.295 | \$47.35 | 42.2 | \$1.122 | \$45. 29 | 40.7 | \$1. 113 | 49.44 | 43.3 | 1.144 | 63.37 | 40.4 | 1. 568 |
| 1948: Janua | 53.20 | 43.1 | 1. 235 | 57.75 | 44.4 | 1.301 | 46.50 | 41.4 | 1. 139 | 45.23 | 40.8 | 1.112 | 48.35 | 42.0 | 1.155 | 62.41 | 39.5 | 1. 579 |
| February | 53.61 | 43.1 | 1.245 | 58.41 | 44.5 | 1.310 | 46.68 | 41.3 | 1.146 | 44.34 | 39.5 | 1.120 | 48.75 | 41.9 | 1.167 | 62.72 | 39.1 | 1. 604 |
| March | 53.82 | 43.1 | 1.249 | 58.50 | 44.5 | 1.313 | 46.30 | 41.1 | 1.144 | 45.69 | 40.7 | 1. 121 | 49.14 | 41.8 | 1. 177 | 63.97 | 39.5 | 1. 621 |
| April. | 53.36 | 42.7 | 1. 250 | 58.02 | 44.1 | 1.313 | 46. 26 | 40.8 | 1. 149 | 45.14 | 40.5 | 1.113 | 48.32 | 41.0 | 1. 180 | 64.62 | 39.2 | 1.646 |
| May | 54.28 | 42.8 | 1. 269 | 59.47 | 44.6 | 1. 334 | 46.34 | 40.8 | 1. 150 | 44.93 | 39.8 | 1.126 | 48.64 | 40.7 | 1.199 | 65.06 | 39.1 | 1.663 |
| June | 55.34 | 42.8 | 1. 292 | 60.40 | 44.1 | 1.368 | 47.02 | 41.3 | 1.158 | 46. 29 | 40.8 | 1. 130 | 50.48 | 41.6 | 1.216 | 65.48 | 39.1 | 1.676 |
| July | 55.97 | 42.5 | 1. 317 | 61.49 | 43.9 | 1. 400 | 45.87 | 40.6 | 1.148 | 48.61 | 41.6 | 1. 167 | 49.87 | 40.7 | 1.229 | 65.08 | 38.9 | 1.675 |
| August | 56. 94 | 43. 1 | 1.320 | 62.32 | 44.4 | 1.402 | 49.02 | 41.5 | 1. 194 | 49.32 | 41.3 | 1. 193 | 51.75 | 42.0 | 1. 234 | 65.96 | 39.2 | 1. 683 |
| September | 56.98 56.95 | 42.7 | 1.334 1.328 | 62.21 61.77 | 43.8 43.8 | 1.419 1.409 | 49.10 49.56 | 41.5 41.4 | 1. 203 1.213 | 48.68 48.78 | 41.0 | 1.192 1.192 | 52.05 52.79 | 41.9 42.6 | 1. 245 1.243 1.25 | 67.39 66.48 | 39.4 38.9 | 1.712 |
| November | 57.35 | 42.9 | 1. 336 | 62. 50 | 44.0 | 1. 419 | 50. 34 | 42. 0 | 1. 212 | 47.14 | 39.6 | 1. 194 | 52. 23 | 42.2 | 1. 239 | 66. 97 | 39.1 | 1. 712 |
| December | 56.57 | 42.5 | 1.330 | 61.25 | 43.4 | 1. 408 | 49.97 | 41.6 | 1. 211 | 48.02 | 39.8 | 1.194 | 51.58 | 41.9 | 1. 234 | 68.03 | 39.5 | 1.720 |
|  | Printing, publishing, and allied industries-Continued |  |  |  |  |  |  |  |  | Chemicals and allied products |  |  |  |  |  |  |  |  |
|  | Newspapers and periodicals |  |  | Printing; book and job |  |  | Lithographing |  |  | Total: Chemicals and allied products |  |  | Paints, varnishes, and colors |  |  | Drugs, medicines, and insecticides |  |  |
| 1939: A verage <br> 1941: January | $\$ 37.58$ 38.15 | 36.1 35.4 | $\$ 1.004$ 1.052 | $\$ 30.30$ 31.64 | 38.3 39.6 | $\$ 0.804$ .810 |  |  |  | $\$ 25.59$ 27.53 | 39.5 39.9 | $\$ 0.649$ .690 | $\$ 28.48$ 29.86 | 40.5 40.3 | $\begin{array}{r} \$ 0.704 \\ .741 \end{array}$ | $\$ 24.16$ 24.68 | 39.7 39.3 | $\$ 0.592$ .619 |
| 1947: December | 71.45 | 39.1 | 1.791 | 60.22 | 41.1 | 1.479 | \$62.91 | 42.3 | \$1.486 | 53.73 | 41.5 | 1. 293 | 55.11 | 42.0 | 1.314 | 47.90 | 40.4 | 1.185 |
| 1948: January | 68.96 | 37.8 | 1.797 | 60.23 | 40.7 | 1.493 | 61.03 | 40.4 | 1.511 | 54.31 | 41.4 | 1. 311 | 55.34 | 42.0 | 1.321 | 48.31 | 40.4 | 1.196 |
| February | 70.36 | 38.3 | 1. 812 | 60.13 | 39.8 | 1. 528 | 60.04 | 39.8 | 1. 509 | 54.12 | 41.1 | 1. 315 | 55. 73 | 41.8 | 1. 334 | 48.42 | 40.2 | 1. 206 |
| March | 71. 32 | 38.4 | 1. 843 | 60.96 | 40.3 | 1.528 | 62.92 | 40.3 | 1. 560 | 54.15 | 41.2 | 1.315 | 55. 71 | 41.7 | 1. 338 | 48. 44 | 40.2 | 1. 205 |
| April. | 72.79 | 38.5 | 1. 870 | 61.26 | 39.9 | 1. 551 | 61.78 | 39.5 | 1. 565 | 54.38 | 41.0 | 1.327 | 55.54 | 41.5 | 1. 344 | 48.36 | 39.8 | 1. 216 |
| May | 73. 04 | 38.4 | 1.877 | 61.92 | 39.8 | 1. 570 | 63. 24 | 39.5 | 1. 601 | 55.24 | 41.0 | 1.347 | 57.22 | 42.2 | 1.358 | 48.91 | 39.4 | 1. 241 |
|  | 73. 26 | 38.0 | 1.896 | 62.25 | 39.7 | 1.579 | 64. 60 | 40.0 | 1. 616 | 56.64 | 41.4 | 1. 369 | 57.84 | 42.4 | 1. 365 | 49.56 | 39.5 | 1. 257 |
| July | 72.39 | 37.8 | 1. 894 | 62.06 | 39.7 | 1.576 | 62.45 | 38.6 | 1. 618 | 57.21 | 41.1 | 1. 390 | 59.24 | 42.9 | 1. 385 | 49.21 | 39.0 | 1. 260 |
| August | 73. 69 | 38.4 | 1. 908 | 62.32 | 39.8 | 1. 578 | 64. 55 | 39.8 | 1. 621 | 57.69 | 41.0 | 1. 407 | 59.03 | 42.2 | 1. 399 | 49.48 | 39.1 | 1. 266 |
| Septemb | 76. 80 | 38.9 | 1. 954 |  | 39.8 | 1. 595 |  | 39.9 |  | 58.20 | 41.3 | 1. 410 | 59. 34 |  | 1. 410 | 49.75 |  | 1. 255 |
| October. | 75. 47 | 38.5 | 1. 942 | 61.96 | 39.1 | 1. 597 | 65.71 | 40.4 | 1. 627 | 57. 60 | 41.4 | 1. 390 | 59.10 | 42.1 | 1. 407 | 50.98 | 40.0 | 1. 276 |
| November | 76.04 | 38.3 38.6 | 1. 955 | 62.79 64.18 | 39.6 40.3 | 1. 598 | 65.34 | 40.5 | 1. 612 | 57.84 58.06 | 41.4 | 1. 398 | 58. 22 | 41.3 | 1. 411 | 51.24 | 40.1 | 1. 279 |
| Decembe | 77.05 | 38.6 | 1.970 | 64.18 | 40.3 | 1.605 | 65.23 | 40.6 | 1.607 | 58.06 | 41.4 | 1. 402 | 58.18 | 40.9 | 1.422 | 51.76 | 40.6 | 1. 271 |
|  | Chemicals and allied products-Continued |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Soap |  |  | Rayon and allied products |  |  | Chemicals, not elsewhere classified |  |  | Explosives and safety fuses |  |  | $\underset{\text { arms }{ }^{2}}{\substack{\text { Ammunition } \\ \text { small- }}}$ |  |  | Cottonseed oil |  |  |
| 1939: Average | $\begin{array}{r} \$ 28.11 \\ 29.58 \end{array}$ | $\begin{aligned} & 39.8 \\ & 40.0 \end{aligned}$ | $\begin{array}{r} \$ 0.707 \\ .740 \end{array}$ | $\begin{array}{r} \$ 24.52 \\ 27.26 \end{array}$ | $\begin{aligned} & 37.9 \\ & 39.2 \end{aligned}$ | $\begin{array}{r} \$ 0.646 \\ .696 \end{array}$ | \$31.30 | 40.040.3 | \$0. 784 | $\$ 29.99$31.56 | 38.837.8 | \$0. 773 | $\$ 22.68$24.05 | 39.0 | $\begin{array}{r} \$ 0.612 \\ .623 \end{array}$ | $\begin{array}{r} \$ 13.70 \\ 15.55 \end{array}$ | $\begin{aligned} & 44.3 \\ & 44.6 \end{aligned}$ | \$0.302 |
| 1941: January |  |  |  |  |  |  |  |  | . 822 |  |  | . 835 |  | 38.6 |  |  |  | . 338 |
| 1947: December | 65.01 | 44.7 | 1. 456 | 49.73 | 39.2 | 1. 268 | 60.07 | 41.2 | 1. 457 | 57.36 | 40.0 | 1. 433 | 53.85 | 43.3 | 1. 243 | 38.68 | 52.9 | . 731 |
| 1948: January | 64.6964.54 | 44.143.8 | 1. 466 | 50. 36 | 39.2 | 1. 284 | 60.80 | 41.2 | 1. 477 | 58.85 | 40.8 | 1. 441 | 48. 09 | 40.5 | 1. 188 | 38.86 | 52.2 | . 746 |
| February |  |  | 1. 475 | 50. 33 | 39.3 | 1. 280 | 60.82 | 41.1 | 1.479 | 59. 20 | 41.2 | 1. 438 | 48. 19 | 40. 6 | 1.187 | 36. 59 | 48.8 | . 750 |
| March | $\begin{aligned} & 62.83 \\ & 64.29 \end{aligned}$ | 42.8 | 1. 467 | 50.68 | 39.5 | 1. 284 | 60.84 | 41.0 | 1. 483 | 58. 24 | 40.5 | 1. 437 | 49.04 | 40.7 | 1. 204 | 37.95 | 50.3 | . 755 |
| April |  | 42.142.1 | 1. 528 | 51.29 | 39.8 | 1. 287 | 60.97 | 41.1 | 1. 484 | 56.47 | 39.6 | 1. 427 | 49. 37 | 40.8 | 1. 209 | 37.50 | 49.4 | . 759 |
| May | $\begin{aligned} & 64.29 \\ & 64.99 \\ & 63.09 \end{aligned}$ |  | 1. 543 | 51. 46 | 39.7 | 1. 2986 | 61.48 | 41.2 | 1. 493 | 59.34 | 40.6 | 1. 462 | 50. 28 | 41.3 | 1.218 | 38.07 | 49.0 | . 778 |
| June. |  | 42.1 | 1. 521 | 51. 72 | 39.8 | 1. 298 | 63.17 | 41.9 | 1. 509 | 61.58 | 41.9 | 1. 471 | 51.48 | 41.2 | 1. 257 | 37.94 | 48.0 | . 791 |
| July | $\begin{aligned} & 63.09 \\ & 62.44 \end{aligned}$ | 41.0 | 1. 523 | 53. 38 | 40.1 | 1. 330 | 63. 49 | 41.3 | 1. 539 | 61.65 | 41.8 | 1. 473 | 53. 05 | 41.2 | 1. 294 | 38.77 | 47.6 | . 816 |
| August | 62.44 63.49 <br> 63. 76 |  | 1. 525 | 55. 32 | 39.8 | 1. 391 | 63. 80 | 41.1 | 1. 552 | 63.93 | 41.8 | 1. 529 | 52. 64 | 41.0 | 1. 285 | 38.59 | 49.0 | . 787 |
| September |  | 41.6 42.3 | 1. 532 | 55. 31 | 39.5 | 1. 400 | 65. 27 | 40.9 | 1. 596 | 64.01 | 41.9 | 1. 527 | 53.61 | 41.5 | 1. 291 | 41.64 | 52.3 | . 796 |
| October | $\begin{aligned} & 64.76 \\ & 66.24 \end{aligned}$ | 42.942.342.3 | 1. 543 | 54.99 | 39.2 | 1.402 | 64.02 | 41.0 | 1. 563 | 61. 26 | 40.8 | 1. 501 | 53. 55 | 41.7 | 1. 283 | 43. 69 | 55. 3 | . 790 |
| November-.-- | $\begin{aligned} & 66.24 \\ & 66.79 \\ & 66.72 \end{aligned}$ |  | 1. 579 | 55. 55 | 39.5 39.5 | 1. 406 | 64.65 64.72 | 41.1 | 1. 574 | 60.71 60.58 | 40.3 40.3 | 1. 508 | 53. 46 | 41.4 | 1. 291 | 43. 56 | 55.5 | . 7805 |
| December. |  |  | 1. 575 | 55. 79 | 39.5 | 1.413 | 64.72 | 41.1 | 1. 574 | 60.58 | 40.3 | 1.502 | 53.53 | 41.5 | 1. 290 | 44.56 | 55.7 | . 800 |

See footnotes at end of table.

Table C-1: Hours and Gross Earnings in Manufacturing and Nonmanufacturing Industries ${ }^{1}$-Con. MANUFACTURING-Continued

| Year and month | Chemicals and allied products-Con. |  |  | Products of petroleum and coal |  |  |  |  |  |  |  |  |  |  |  | Rubber products |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Fertilizers |  |  | 'Total: Products of petroleum and coal |  |  | Petroleum refining |  |  | Coke and byproducts |  |  | Roofing materials |  |  | Total: Rubber products |  |  |
|  | Avg. wkly. earnings | Avg. wkly. hours | Avg. hrly. earnings | Avg. wkly. earnings | Avg. wkly. hours | Avg. hrly. earn- | Avg. wkly. earnings | Avg. wkly. hours | Avg. hrly. earnings | Avg. wkly. earn- | Avg. wkly. hours | Avg. hrly. earnings | Avg. wkly. earnings | Avg. wkly. hours | Avg. hrly. earnings | Avg. wkly. earnings | Avg. wkly. hours | Avg. hrly. earnings |
| 1939: A verage <br> 1941: January | \$14.71 14.89 | 35.8 34.8 | \$0. 412 .429 | $\$ 32.62$ 32.46 | 36.5 36.6 | $\$ 0.894$ .887 | $\$ 34.97$ 34.46 | 36.1 35.7 | $\begin{array}{r} \$ 0.974 \\ .970 \end{array}$ |  |  |  |  |  |  | $\begin{array}{r}\$ 27.84 \\ 30.38 \\ \hline\end{array}$ | 36.9 39.0 | $\begin{array}{r} \$ 0.754 \\ .779 \end{array}$ |
| 1947: December | 36.56 | 40.7 | . 897 | 63.21 | 40.8 | 1. 551 | 66.32 | 40.3 | 1. 647 | \$54. 37 | 39.7 | \$1.371 | \$60. 60 | 45.5 | \$1.331 | 59.47 | 40.9 | 1. 454 |
| 1948: January | 37.23 34.96 | 41.5 39.7 | .897 .881 | 64.47 64.58 | 40.7 40.8 | 1. 588 | 67.54 67.64 | 39.8 40.0 | 1. 699 | 56.70 57.06 | 40.4 40.9 | 1. 404 | 58.35 58.67 | 44.4 44.1 | 1.314 1.332 | 57.33 54.70 | 39.7 38.5 | 1. 444 |
| March | 36.25 | 41.6 | . 871 | 64.62 | 40.6 | 1. 593 | 67. 77 | 40.1 | 1. 692 | 56.74 | 40.3 | 1. 408 | 59.51 | 44.3 | 1. 342 | 53. 24 | 37.8 | 1. 408 |
| April | 36.49 | 41.5 | . 880 | 64.45 | 40.3 | 1. 600 | 68.50 | 40.2 | 1. 704 | 53.54 | 38.4 | 1. 395 | 58.84 | 44.0 | 1. 338 | 53.39 | 37.8 | 1.412 |
| May | 37.40 | 41.4 | . 904 | 67.16 | 41.2 | 1. 631 | 71.14 | 40.9 | 1. 740 | 57. 01 | 40.2 | 1. 419 | 60.66 | 44.9 | 1. 352 | 55.45 | 39.0 | 1.424 |
| June | 39.34 | 41.2 | . 954 | 67.18 | 40.7 | 1. 650 | 70.96 | 40.2 | 1. 763 | 57.84 | 40.3 | 1. 437 | 61. 09 | 44.7 | 1. 367 | 57. 14 | 39.7 | 1. 439 |
| July | 40.82 | 42.1 | . 970 | 69.45 | 40.8 | 1. 703 | 74. 01 | 40.4 | 1.832 | 57.44 | 39.8 | 1. 443 | 62.78 | 45.2 | 1. 390 | 58.37 | 39.7 | 1. 472 |
| August | 40.32 | 40.7 | . 990 | 70.71 | 41.2 | 1. 716 | 75. 13 |  | 1. 832 | 59.97 | 39.9 | 1. 503 | 63. 58 | 44.9 | 1. 415 | 60.47 | 40.3 | 1. 500 |
| Septembe | 40.37 | 40.4 | 1. 001 | 68.72 | 39.3 | 1. 748 | 72.09 | 38.5 | 1. 873 | 60.59 | 39.1 | 1. 551 | 63.67 | 44.5 | 1. 431 | 59.31 | 39.4 | 1. 504 |
| October.. | 39.37 | 39.9 | . 988 | 71.48 | 41.1 | 1. 738 | 76. 14 | 40.8 | 1. 868 | 60.51 | 39.9 | 1. 517 | 65. 69 | 45.6 | 1.440 | 59. 19 | 39.3 | 1. 507 |
| Novemb | 37.86 38.69 | 38.4 39.5 | .985 .980 | 71.31 70.52 | 40.4 40.5 | 1.763 1.740 | 76.35 75.03 | 40.3 40.6 | 1. 8984 | 60.03 60.96 | $\begin{aligned} & 39.5 \\ & 40.0 \end{aligned}$ | 1. 521 | 61.76 57.12 | 43.3 41.0 | 1.428 1.394 | 58.27 57.75 | 38.6 38.5 | 1.508 1.501 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Rubber products-Continued |  |  |  |  |  |  |  |  | Miscellaneous industries |  |  |  |  |  |  |  |  |
|  | Rubher tires and inner tubes |  |  | Rubber boots and shoes |  |  | Rubber goods, other |  |  | Total: Miscellaneous industries |  |  | Instruments (professional and scientific), and fire-control equipment |  |  | Pianos, organs, and parts |  |  |
| 1939: A verage | \$33.36 | 35.0 | \$0. 957 | \$22.80 | 37.5 | \$0.607 | \$23.34 | 38.9 | \$0. 605 | \$24.48 | 39.2 | \$0. 624 |  |  |  |  |  |  |
| 1941: January | 36.67 | 37.7 | . 975 | 26.76 | 41.9 | . 639 | 24.97 | 39.4 | . 639 | 25.35 | 39.3 | . 645 | \$35.33 | 45.7 | \$0. 773 |  |  |  |
| 1947: December. | 65.74 | 39.5 | 1. 658 | 54.72 | 44.5 | 1. 231 | 52.93 | 41.8 | 1. 261 | 50.21 | 41.2 | 1. 219 | 57.99 | 40.8 | 1. 391 | \$56. 25 | 42.9 | \$1.326 |
| 1948: January | 62.72 | 38.2 | 1. 646 | 51.08 | 42.1 | 1. 214 | 51.79 | 41.1 | 1. 260 | 49.60 | 40.4 | 1.227 | 59. 59 | 41.2 | 1. 419 | 52.52 | 40.4 | 1. 311 |
| February | 58.22 | 36.0 | 1. 613 | 50.65 | 41. 7 | 1. 214 | 51.33 | 40.8 | 1. 258 | 50.11 | 40.8 | 1. 230 | 57.20 | 40.0 | 1. 388 | 51.88 | 40.0 | 1. 305 |
| March.- | 55. 54 | 34.8 | 1.599 | 51.42 | 42.2 | 1. 219 | 50.60 | 40.4 | 1. 251 | 49.84 | 40.6 | 1. 229 | 57.54 | 40.1 | 1. 407 | 51. 82 | 40.3 | 1. 288 |
| April | 56. 54 | 35. 3 | 1.603 | 50.59 | 41.7 | 1.214 | 50.16 | 39.9 | 1. 256 | 49.60 | 40.4 | 1. 2228 | 58.16 | 40.5 | 1. 413 | 52. 34 | 40.8 408 | 1. 288 |
| May | 61.15 | 37.4 | 1. 636 | 50.61 | 41.7 | 1.214 | 50.34 51.15 | 40.0 | 1. 260 | 50.19 50.92 | 40.3 40.3 | 1. 2424 | 58.35 57.73 | 40.2 39 | 1. 434 | 52. 52 | 40.8 40.9 | 1. 280 |
|  | 66.30 | 38.8 39.3 | 1. 684 | 52.12 | 42.3 | 1. 231 | 51.07 | 39.4 | 1.296 | 50.02 | 39.4 | 1. 269 | 56.68 | 39.7 | 1.448 | 52.07 | 40.9 | 1. 283 |
| August | 68. 29 | 39.8 39.5 | 1.730 | 52.53 | 41.5 | 1. 266 | 53. 70 | 40.9 | 1. 312 | 51.24 | 40.3 | 1. 271 | 58.44 | 40.0 | 1. 458 | 52.42 | 40.7 | 1. 293 |
| September | 65. 27 | 37.7 | 1.732 | 53.38 | 41.6 | 1. 283 | 54.35 | 40.8 | 1. 333 | 51. 63 | 40.3 | 1. 280 | 59.26 | 40.1 | 1. 472 | 52.54 | 39.9 | 1. 322 |
| October | 64.82 | 37.2 | 1. 734 | 53.86 | 42.2 | 1. 278 | 55.08 | 40.8 | 1.350 | 51.86 | 40.6 | 1. 279 | 60.90 | 40.4 | 1. 487 | 53.73 | 40.3 | 1.339 |
| November | 62. 79 | 36.2 | 1. 735 | 54. 29 | 41.6 | 1. 305 | 54.61 | 40.5 | 1.347 | 52.47 | 40.8 | 1. 287 | 61.75 | 40.9 | 1. 491 | 55. 41 | 40.8 | 1.365 |
| December. | 61.10 | 35.6 | 1. 721 | 55. 23 | 42.4 | 1.303 | 54.64 | 40.5 | 1.349 | 52.75 | 40.5 | 1.303 | 62.18 | 40.7 | 1. 506 | 55.26 | 40.4 | 1.375 |
|  | NONMANUFACTURING |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Mining |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Coal |  |  |  |  |  | Metal |  |  |  |  |  |  |  |  |  |  |  |
|  | Anthracite ${ }^{3}$ |  |  | Bituminous ${ }^{3}$ |  |  | Total: Metal |  |  | Iron |  |  | Copper |  |  | Lead and zine |  |  |
| 1939: Average | $\$ 25.67$25.13 | 27.7 | \$0. 923 | \$23.88 | 27.1 | \$0.886 | \$28. 93 | 40.9 | \$0. 708 | \$26.36 | 35.7 | \$0.738 | \$28.08 | 41.9 | \$0.679 | \$26. 39 | 38.7 | \$0. 683 |
| 1941: January |  | 27.0 | . 925 | 26.00 | 29.7 | . 885 | 30.63 | 41.0 | . 747 | 29.26 | 39.0 | . 750 | 30.93 | 41.8 | . 749 | 28.61 | 38.2 | . 749 |
| 1947: December. | 67.42 | 38.4 | 1. 756 | 75.22 | 41.2 | 1.826 | 58.11 | 42.7 | 1. 360 | 54. 26 | 40.3 | 1.346 | 62.39 | 45.5 | 1.370 | 60.83 | 43.3 | 1. 406 |
| 1948: January | $\begin{aligned} & 68.79 \\ & 65.78 \end{aligned}$ | 39.0 | 1. 764 | 75. 78 | 40.9 | 1.847 | 58.23 | 42.5 | 1. 371 | 54. 99 | 40.5 | 1. 356 | 62. 21 | 45. 2 | 1. 377 | 59.88 | 42.0 | 1. 425 |
| February-.---- |  | 36. 2 | 1. 817 | 70. 54 | 38.7 | 1.826 | 58.79 | 42.9 | 1.370 | 56. 40 | 41.4 | 1. 361 | 62.84 | 45.8 | 1.373 | 59. 16 | 41.9 | 1. 412 |
| March.-. | 71.59 | 40.3 | 1.776 | 74.84 | 40.6 | 1.842 | 57.90 | 42.4 | 1.366 | 56.04 | 41.3 | 1.357 | 61.25 | 44.7 | 1.371 | 59. 04 | 41.6 | 1. 415 |
| April. | 55.05 | 32.1 | 1.708 | 49. 53 | 27.0 | 1.821 | 57.84 | 42.1 | 1.373 | 55.48 | 40.7 | 1. 364 | 61.04 | 44.6 | 1.369 | 59, 58 | 41.7 | 1. 430 |
| May------.---- | 69. 8968.91 | 39.4 | 1. 774 | 74.08 | 40.3 | 1. 841 | 59. 26 | 42.8 | 1. 384 | 57. 91 | 42.1 | 1. 377 | 61.73 | 45.0 | 1. 373 | 60. 27 | 41.8 | 1. 442 |
| June----------- |  | 39.4 | 1.749 | 73.87 | 39.9 | 1.850 | 58.79 | 42.4 | 1.386 | 57.41 | 41.5 | 1.383 | 61.33 | 44.5 | 1.378 | 60.42 | 41.7 | 1. 449 |
| July- | 68.91 55.11 | 31.7 | 1. 736 | 67.62 | 34.2 | 1. 936 | 58.00 | 40.6 | 1. 427 | 55. 30 | 40.3 | 1.371 | 63.99 | 43.6 | 1. 468 | 53.11 | 35.3 | 1. 505 |
| August | 72.77 | 38.3 | 1. 901 | 78.10 | 39.4 | 1. 967 | 62.49 | 42.9 | 1. 455 | 59. 21 | 41.6 | 1. 424 | 67.62 | 45.1 | 1. 498 | 64. 95 | 42.9 | 1. 515 |
| September---- | 69.35 | 36.6 | 1. 897 | 75.51 | 37.9 | 1. 970 | 62.07 | 41.4 | 1. 501 | 60.77 | 40.4 | 1.504 | 64.67 | 42.8 | 1. 513 | 63. 26 | 41.4 | 1. 529 |
| October. | 73.7460.90 | 38.7 | 1. 904 | 76. 40 | 38.6 | 1. 959 | 64.18 | 42.7 | 1. 502 | 63.56 | 42.2 | 1. 506 | 66.62 | 44.6 | 1. 494 | 64.19 | 41.5 | 1. 544 |
| November.-.- |  | 33.4 | 1. 824 | 73.52 | 37.1 | 1. 951 | 64. 19 | 42.3 | 1. 518 | 62.02 | 41.2 | 1. 506 | 68. 26 | 44.8 | 1. 524 | 66. 04 | 42.3 | 1. 560 |
| December.-. | - 63.39 | 34.0 | 1. 862 | 75.06 | 38.1 | 1.955 | 65.70 | 43.2 | 1. 522 | 62.45 | 41.6 | 1. 502 | 70.27 | 45.9 | 1.533 | 67.77 | 43.3 | 1. 569 |

See footnotes at end of table.

Table C-1: Hours and Gross Earnings in Manufacturing and Nonmanufacturing Industries ${ }^{1}$-Con. NONMANUFACTURING-Continued


See footnotes at end of table.

Table C-1: Hours and Gross Earnings in Manufacturing and Nonmanufacturing Industries ${ }^{1}$-Con.
NONMANUFACTURING-Continued

| Year and month | Trade-Continued |  |  |  |  |  | Finance ${ }^{1}$ |  | Service |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Retail-Continued |  |  |  |  |  | Bro-kerage | Insurance | Hotels ${ }^{8}$ (year-round) |  |  | Power laundries |  |  | Cleaning and dyeing |  |  |
|  | Automotive |  |  | Lumber and building materials |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Avg. wkly. earnings | Avg. wkly. hours | Avg. hrly. earnings | Avg. wkly. earnings | Avg. wkly. hours | Avg. <br> hrly. <br> earn- <br> ings | Avg. wkly. earnings | Avg. wkly. earnings | Avg. wkly. earnings | Avg. wkly. hours | Avg. hrly. earnings | Avg. wkly. earnings | Avg. wkly. hours | A vg . <br> hrly. <br> earn- <br> ings | Avg. wkly. earnings | Avg. wkly. hours | Avg. hrly. earnings |
| 1939: Average | \$27.07 | 47.6 | \$0.571 | \$26. 22 | 42.7 | \$0. 619 | \$36. 63 | \$36.32 | \$15. 25 | 46.6 | \$0. 324 | \$17.69 | 42.7 | \$0. 417 | \$19.96 | 41.8 | \$0.490 |
| 1941: January | 28.26 | 46.8 | . 606 | 26.16 | 41.7 | . 634 | 38.25 | 37.52 | 15.65 | 45.9 | . 338 | 18.37 | 42.9 | . 429 | 19.92 | 41.9 | . 488 |
| 1947: December. | 52.71 | 45. 3 | 1. 168 | 49.03 | 42.7 | 1. 143 | 62.85 | 53. 92 | 30.89 | 44.1 | . 693 | 33.88 | 42.6 | . 797 | 37.70 | 41.5 | 921 |
| 1948: January | 51. 66 | 44.4 | 1. 179 | 48.19 | 41.8 | 1.154 | 62.35 | 55.09 | 30.55 | 43.9 | . 695 | 33.99 | 42.3 | . 807 | 37.64 | 41.4 | . 924 |
| February | 53.03 | 45.0 | 1.186 | 49.56 | 42.1 | 1. 174 | 63.37 | 56.63 | 31.19 | 44.6 | . 695 | 33.54 | 41.9 | . 802 | 36. 55 | 40.5 | . 923 |
| March. | 52.98 | 44.6 | 1. 202 | 49. 24 | 42.5 | 1.170 | 62. 60 | 55. 51 | 30.96 | 44.0 | . 695 | 33. 74 | 42.0 | . 805 | 37.96 | 41.5 | . 924 |
| April | 54.53 | 45.5 | 1. 216 | 49.64 | 42.6 | 1. 175 | 65. 76 | 54. 94 | 31. 59 | 44.2 | . 700 | 34. 29 | 42.2 | . 810 | 39.18 | 42.1 | . 933 |
| May | 54. 49 | 45.5 | 1. 220 | 50.32 | 42.8 | 1.193 | 71.15 | 56.22 | 31.70 | 44.2 | . 707 | 34. 22 | 41.8 | . 817 | 39.13 | 42.0 | . 936 |
| June. | 54. 65 | 45.5 | 1. 221 | 51.08 | 43.2 | 1. 202 | 69.35 | 54.75 | 31.88 | 44.1 | . 711 | 34.36 | 41.8 | . 823 | 40.14 | 42.4 | . 947 |
| July- | 55. 03 | 45.1 | 1. 237 | 51.31 | 42.8 | 1. 216 | 68.12 | 55.22 | 32. 04 | 44.0 | . 714 | 34. 55 | 42.2 | . 820 | 39.02 | 41.7 | . 942 |
| August | 56.04 | 45.6 | 1. 251 | 52.51 | 43.4 | 1. 220 | 65.42 | 55.09 | 32.34 | 44.9 | . 709 | 33.70 | 41.1 | . 822 | 37.55 | 39.8 | . 951 |
| Septembe | 55.87 | 45.3 | 1.247 | 52.00 | 42.4 | 1. 231 | 63.59 | 54.35 | 32.21 | 43.9 | . 725 | 34.56 | 41.8 | . 828 | 39.36 | 41.1 | . 963 |
| October- | 55. 53 | 45.4 | 1. 241 | 52.68 | 42.7 | 1. 233 | 66. 27 | 53.97 | 32. 45 | 44. 2 | . 726 | 34.16 | 41.3 | . 829 | 39.42 | 41.0 | . 970 |
| November | 55. 99 | 45. 4 | 1. 245 | 51.92 | 42.0 | 1. 235 | 64. 71 | 54. 45 | 32. 52 | 44.1 | . 734 | 34. 71 | 41.6 | . 838 | 39.01 | 40.8 | . 958 |
| December. | 55.92 | 46.0 | 1. 232 | 52.85 | 42.5 | 1. 230 | 67.03 | 54.66 | 33.02 | 44.1 | . 739 | 34.72 | 41.7 | . 838 | 39.97 | 41.4 | . 963 |

${ }^{1}$ These figures are based on reports from cooperating establishments covering both full- and part-time employees who worked or received pay during the pay period ending nearest the 15 th of the month. As not all reporting firms supply man-hour data, the average weekly hours and average hourly earnings for individual industries are based on a slightly smaller sample than are average weekly earnings.
For manufacturing, mining, power laundries, and cleaning and dyeing industries, the data relate to production and related workers only. For the remaining industries, unless otherwise noted, the data relate to all nonsupervisory employees and working supervisors. Data for 1939 and January 1941, for some industries, are not strictly comparable with the periods currently presented. All series, by month, are available upon request to the Bureau of Labor Statistics. Such requests should specify the series desired. Bureau of Labor statistics. Such requests should specify the series desired. Revised figures for earlier months are identified by an asterisk for the first mevised figures for earlier months
month's publication of such data.
2 New series beginning with month and year shown below; not comparabie with data shown for earlier periods:

Glass products made from purchased glass.-May 1948; comparable April data are $\$ 44.36$ and $\$ 1.121$.
Ammunition, small-arms.-June 1948; comparable May data are \$1.232.
8 April 1948 data reflect work stoppages.
${ }^{4}$ Data include private and municipal street-railway companies and affillated, subsidiary, or successor trolley-bus and motor-bus companies.
${ }^{5}$ Prior to April 1945 the averages of hours and earnings related to all employees except executives; beginning with April 1945 these averages reflect mainly the hours and earnings of employees subject to the Fair Labor Standards Act. At the same time the reporting sample was expanded to include a greater number of employees of "long lines." The April 1945 data are $\$ 40.72$, 42.9 hours, and $\$ 0.952$ on the old basis, and $\$ 37.50,40.6$ hours, and 0.926 on the new basis.
${ }^{6}$ Data relate to all land-line employees except those compensated on a commission basis. Excludes general and divisional headquarters personnel, trainees in school, and messengers.

7 Data on average weekly hours and average hourly earnings are not available.
${ }^{8}$ Money payments only; additional value of board, room ,uniforms, and tips, not included.

* Revised.

Note: Explanatory notes outlining briefly the concepts, methodology, size of the reporting sample, and sources used in preparing the data presented in tables $\mathrm{C}-1$ mimeographed release, "Hours and Earnings-Industry Report," which is available upon request.

Table C-2: Hours and Gross Earnings of Production Workers in Manufacturing Industries for Selected States and Areas ${ }^{1}$

| Year and month | Arizona |  |  | California |  |  |  |  |  |  |  |  | Connecticut |  |  | Delaware |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | State |  |  | State |  |  | Los Angeles |  |  | San Francisco Bay |  |  | State |  |  | State |  |  |
|  | Avg. wkly. earnings | Avg. wkly. hours | A $\nabla$ g. hrly. earnings | Avg. wkly. earnings | Avg. wkly. hours | Avg. hrly. earnings | A Vg . <br> wkly. <br> earn- <br> ings | Avg. wkly. hours | Avg. <br> hrly. <br> earn- <br> ings | Avg. wkly. earnings | A vg. wkly. hours | Avg. hrly. earnings | Avg. wkly. earnings | Avg. wkly. hours | A vg. hrly. earnings | Avg. wkly. earnings | Avg. wkly. hours | A Vg . hrly. earnings |
| 1947: December | \$55.94 | 43.0 | \$1.301 | \$58. 51 | 39.5 | \$1.482 | \$58.02 | 39.7 | \$1.461 | \$61.96 | 39.7 | \$1.561 |  |  |  | \$46.84 | 40.6 | \$1.153 |
| 1948: January | 55.77 | 43.3 | 1.288 | 57.84 | 38.7 | 1. 494 | 57.64 | 39.1 | 1.476 | 60.72 | 38.7 | 1.570 | \$54.08 | 41.9 | \$1.29 | 46.79 | 40.0 | 1. 171 |
| Februar | 54.48 | 42.3 | 1.288 | 58.20 | 39.1 | 1. 488 | 58.21 | 39.4 | 1.476 | 60.07 | 38.7 | 1. 551 | 54.54 | 41.9 | 1.30 | 46.36 | 39.5 | 1. 172 |
| March. | 54. 98 | 42.0 | 1.309 | 57.51 | 38.6 | 1. 491 | 58.11 | 39.2 | 1. 482 | 58.16 | 37.6 | 1. 547 | 54.94 | 41.9 | 1.31 | 47.11 | 40.0 | 1. 177 |
| April | 56. 71 | 42.8 | 1.325 | 57.54 | 38.5 | 1. 495 | 58.08 | 39.1 | 1. 486 | 58.56 | 37.8 | 1. 548 | 54. 21 | 41.4 | 1. 28 | 47. 49 | 40.4 | 1. 177 |
| May | 57.43 | 42.7 | 1. 345 | 59.04 | 38.9 | 1. 516 | 59.03 | 39.3 | 1. 500 | 60.62 | 38.7 | 1. 566 | 53. 52 | 40.9 | 1.31 | 46.51 | 39.9 | 1. 165 |
| June | 55.11 | 41.5 | 1. 328 | 59.62 | 38.9 | 1.531 | 58.69 | 38.9 | 1.507 | 61.10 | 38.5 | 1. 589 | 54.51 | 41.1 | 1.33 | 47.37 | 40.0 | 1. 184 |
| July | 55.51 | 41.0 | 1. 354 | 59.78 | 38.8 | 1. 542 | 59.28 | 39.0 | 1. 522 | 61.94 | 38.6 | 1.603 | 54.86 | 40.8 | 1.34 | 47.75 | 39.6 | 1. 207 |
| August | 55. 97 | 41.4 | 1.352 | 60.52 | 38.9 | 1. 555 | 60.94 | 39.6 | 1. 538 | 61.20 | 38.2 | 1. 601 | 56. 02 | 41.2 | 1.36 | 46.62 | 40.1 | 1. 161 |
| Septembe | 57.63 | 41.7 | 1.382 | 60.38 | 38.8 | 1.558 | 59.84 | 38.6 | 1. 552 | 61.08 | 38.4 | 1. 593 | 56.33 | 41.0 | 1.37 | 46.62 | 41.6 | 1. 122 |
| October- | 57.49 | 41.9 | 1.372 | 61.70 | 39.6 | 1. 559 | 60.60 | 39.1 | 1. 550 | 64.20 | 38.7 | 1. 657 | 56. 64 | 41.1 | 1.38 | 48.24 | 40.2 | 1. 200 |
| November.--- | 57.12 | 41.3 | 1.383 | 60.57 | 38.4 | 1. 579 | 60.92 | 39.1 | 1. 560 | 62.02 | 37.6 | 1. 648 | 56. 78 | 41.2 | 1.38 | 49.02 | 39.3 | 1. 248 |
| December-.--- | 55.86 | 40.3 | 1.386 | 61.33 | 38.7 | 1.586 | 61.16 | 39.0 | 1. 567 | 63.94 | 38.7 | 1. 651 | 57.04 | 41.1 | 1.39 | 50.96 | 40.0 | 1. 273 |
|  | Delaware-Continued |  |  | Illinois |  |  |  |  |  | Indiana |  |  | Massachusetts |  |  | Michigan |  |  |
|  | Wilmington |  |  | State |  |  | Chicago City |  |  | State |  |  | State |  |  | State |  |  |
| 1947: December....- | \$55. 11 | 41.8 | \$1.310 | \$58.02 | 42.3 | \$1.37 | \$60.28 |  |  |  |  |  |  | - |  | \$62.91 | 42.1 | \$1.496 |
| 1948: January | 55.07 | 40.8 | 1.318 | 57.06 | 41.5 | 1.37 | 59.08 |  |  |  |  |  | \$50.73 |  |  | 60.63 | 40.8 | 1. 488 |
| February | 54.50 | 40.7 | 1. 331 | 57.58 | 41.6 | 1.38 | 59.47 |  |  |  |  |  | 51.43 51.39 |  |  | 59.02 59.68 | 39.7 40.1 | 1.489 |
| March | 55.43 | 41.1 | 1.343 | 56.98 | 41.2 | 1.38 | 58.60 |  |  |  |  |  | 51.39 |  |  | 59.68 59.04 | 40.1 | 1.488 |
| April | 55.68 | 41.1 | 1. 345 | 57. 14 | 40.9 | 1.40 | 58.85 |  |  |  |  |  | 51.07 51.28 |  |  | 59.04 56.75 | 39.7 38.9 | 1. 489 |
| May | 55.27 | 40.9 | 1.361 | 56.77 | 40.3 | 1.41 | 58.79 59.76 | 40.7 | \$1.44 | \$55.53 | 40.1 | \$1.386 | 51.28 |  |  | 56.75 60.81 | 38.9 39.7 | 1. 500 |
| June | 55.99 | 40.7 | 1.384 | 58.06 | 41.0 | 1.41 | 59.76 | 41.1 | 1.45 | 57. 19 | 40.6 | 1,407 | 51.76 |  |  | 60.81 | 39.7 | 1. 539 |
| July | 57.14 | 40.6 | 1. 419 | 57. 92 | 40.5 | 1.43 | 59.70 | 40.7 | 1.47 | 57.51 | 40.2 | 1.431 | 51.44 |  |  | 62.57 63.44 | 39.9 40.1 | 1.586 |
| August | 58.15 | 40.7 | 1. 424 | 59.26 | 40.9 | 1.45 | 61.51 | 41.1 | 1. 50 | 58.37 | 40.6 | 1.436 | 52. 29 |  |  | 63.44 63.32 | 40.1 39.4 | 1.584 |
| September | 57.03 | 40.5 | 1.422 | 60.01 | 41.0 | 1.46 | 62.03 | 41.3 | 1. 50 | 57.75 | 40.5 | 1.427 | 52. 41 |  |  | 63.32 | 39.4 | 1.610 |
| October | 58.78 | 41.1 | 1.429 | 60.43 | 41.0 | 1.47 | 62.06 | 41.2 | 1. 51 | 59. 93 | 40.9 | 1. 466 | 50.74 |  |  | 64.86 | 40.4 | 1. 608 |
| November | 58.35 | 40.4 | 1. 442 | 60.05 | 40.6 | 1.48 | 61.78 | 40.9 | 1. 51 | 59.95 | 40.8 | 1. 470 | 50.87 |  |  | 64.40 | 39.7 | 1. 636 |
| December | 61.07 | 41.6 | 1. 466 | 60.60 | 41.0 | 1.48 | 62.30 | 41.2 | 1. 51 | 60.58 | 40.9 | 1. 480 | 52.13 |  |  | 64.81 | 40.3 | 1.611 |
|  | Minnesota |  |  |  |  |  |  |  |  |  |  |  | New Jersey |  |  | New York |  |  |
|  | State |  |  | Duluth |  |  | Minneapolis |  |  | St. Paul |  |  | State |  |  | State |  |  |
| 1947: December. | \$52.88 | 42.3 | \$1. 250 | \$51. 18 | 40.3 | \$1.270 | \$51.46 | 41.5 | \$1.240 | \$55. 26 | 43.0 | \$1.285 | \$56.38 | 41.6 | \$1.355 | \$56.85 | 40.4 | \$1.41 |
| 1948: January | 51.92 | 41.6 | 1. 248 | 51.19 | 39.9 | 1. 283 | 51.13 | 41.0 | 1.247 | 53.30 | 41.8 | 1. 275 | 57.15 | 41.6 | 1.374 | 56.97 | 40.1 | 1.42 |
| February | 51.74 | 41.1 | 1.259 | 53.45 | 41.6 | 1.288 | 51. 29 | 40.8 | 1.257 | 53.67 | 41.7 | 1.287 | 56.71 | 41.2 | 1.377 | 56.87 | 39.7 | 1. 43 |
| March | 51.58 | 41.0 | 1.258 | 52.07 | 40.4 | 1. 289 | 50.52 | 40.0 | 1. 263 | 52.48 | 41.1 | 1.277 | 56.71 | 41.1 | 1.379 | 56.88 | 39.8 | 1.43 |
| April | 52.22 | 40.8 | 1. 280 | 51.48 | 40.0 | 1.287 | 50.94 | 40.3 | 1. 264 | 53.03 | 41.3 | 1.284 | 56.29 | 40.8 | 1.380 | 55.49 | 39.3 | 1.41 |
| May | 53.19 | 41.3 | 1.288 | 52.25 | 40.1 | 1.303 | 51.67 | 40.4 | 1. 279 | 52. 54 | 40.6 | 1.294 | 56.49 | 40.7 | 1.387 | 55. 94 | 39.2 | 1.43 |
| June | 52.46 | 40.7 | 1. 289 | 52. 59 | 39.9 | 1.318 | 53, 42 | 40.5 | 1.319 | 52.32 | 40.0 | 1.308 | 57.38 | 40.9 | 1. 403 | 56. 97 | 39.5 | 1.44 |
| July | 53. 78 | 41.4 | 1.299 | 57.43 | 41.5 | 1.384 | 53.99 | 40.5 | 1.333 | 54.89 | 41.0 | 1.339 | 57.73 | 40.7 | 1.419 | 57. 75 | 39.5 39.4 | 1. 46 |
| August | 53.07 | 40.7 | 1.303 | 58.98 | 42.1 | 1.401 | 54.81 | 41.0 | 1.337 | 56.03 | 41.2 | 1.360 | 58.57 | 40.8 | 1. 435 | 58.36 | 39.4 | 1.48 |
| September | 53. 70 | 41.0 | 1.311 | 54.78 | 39.1 | 1.401 | 53.38 | 39.6 | 1.348 | 55.35 | 40.7 | 1.360 | 59.25 | 40.9 | 1. 448 | 59.39 | 39.6 | 1. 50 |
| October- | 54.87 | 41.0 | 1.338 | 57.14 | 40.7 | 1. 404 | 54.18 | 40.1 | 1.351 | 55. 50 | 40.6 | 1.367 | 59.01 | 40.6 | 1.452 | 57.47 | 38. 4 | 1. 50 |
| November | 55.79 | 41.5 | 1.349 | 56. 04 | 40.0 | 1. 401 | 54. 54 | 40.4 | 1.350 | 55. 73 | 40.8 | 1.366 | 59.03 59.97 | 40.5 | 1.457 1.465 | 59.42 59.73 | 39.5 39.6 | 1. 1.51 |
| December | 56.14 | 41.5 | 1.353 | 57.11 | 40.3 | 1. 417 | 54.81 | 40.6 | 1. 350 | 55. 23 | 40.4 | 1.367 | 59.97 | 40.9 | 1.465 | 59.73 | 39.6 | 1.51 |

See footnote at end of table.

Table C-2: Hours and Gross Earnings of Production Workers in Manufacturing Industries for Selected States and Areas ${ }^{1}$-Continued


See footnote at end of table.

Table C-2: Hours and Gross Earnings of Production Workers in Manufacturing Industries for Selected States and Areas ${ }^{1}$-Continued

| Year and month | W isconsin-Continued |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Kenosha city |  |  | LaCrosse city |  |  | Madison city |  |  | Milwaukee county |  |  | Racine city |  |  |
|  | A $\nabla \mathrm{g}$. wkly. earnings | A Vg . wkly. hours | A Fg . hrly. earnings | $\mathrm{A} v \mathrm{~g}$. wkly. earnings | A $\vee \mathrm{g}$. wkly. hours | Avg. hrly. <br> earnings | Avg. wkly. earnings | Avg. wkly. hours | A vg. hrly. earnings | A $\overline{\mathrm{V}} \mathrm{g}$. wkly. earnings | A $\mathrm{\nabla g}$. wkly. hours | Avg. hrly. earnings | Avg. wkly. earnings | Avg. wkly. hours | Avg. <br> hrly. <br> earn- <br> ings |
| 1947: December | \$59.05 | 41.0 | \$1.441 | \$52. 55 | 41.8 | \$1. 256 | \$54. 41 | 42.4 | \$1. 281 | \$59.84 | 42.5 | \$1.408 | \$61.98 | 42.6 | \$1.456 |
| 1948: January | 60.41 | 41.6 | 1. 453 | 52.30 | 41.4 | 1. 263 | 49.85 | 39.6 | 1. 253 | 58.76 | 41.6 | 1. 411 | 61.48 | 42.0 | 1.465 |
| February | 54.11 | 37.5 | 1. 444 | 49.35 | 40.0 | 1. 233 | 50.11 | 38.7 | 1. 290 | 58. 20 | 41.3 | 1. 411 | 60.27 | 41.5 | 1.451 |
| March. | 60.41 | 41.4 | 1. 460 | 50.17 | 40.3 | 1.246 | 50.97 | 39.5 | 1. 289 | 59.09 | 41.7 | 1. 418 | 61. 44 | 41.8 | 1. 1.469 |
| April | 57.12 | 39.6 | 1. 443 | 49.60 | 39.7 | 1. 250 | 55. 54 | 41.4 | 1. 343 | 58. 77 | 41.4 | 1. 419 | 60.58 | 41.2 | 1. 470 |
| May | 58.38 63.01 | 40.1 | 1.455 | 49.60 49.74 | 39.7 | 1.251 | 59.10 | 42.9 | 1.377 | 58. 82 | 41.0 | 1. 434 | 61, 97 | 41. 7 | 1. 185 |
| June | 63. 01 | 41.1 | 1. 532 | 49.74 | 39.5 | 1. 259 | 58.12 | 42.0 | 1.385 | 60.20 | 41.2 | 1. 461 | 63. 32 | 42.4 | 1. 493 |
| July August | 67.31 | 40.3 | 1. 671 | 50.13 | 39.6 | 1. 267 | 54.70 | 39.7 | 1.377 | 60.92 | 41.1 | 1. 481 | 63. 46 | 42.0 | 1. 509 |
| August | 61.38 61.79 | 39.5 | 1. 552 | 53. 35 | 39.2 | 1.362 | 54.15 | 39.5 | 1. 372 | 61.44 | 41.3 | 1. 489 | 65. 35 | 42.1 | 1. 553 |
| October.- | 61.79 61.73 | 40.0 39.7 | 1.5545 1.554 -1.548 | 54.32 52.61 | 39.7 38.7 | 1.369 1.361 | 52.59 54.55 | 38.5 | 1. 365 | 61. 81 | 40.8 | 1. 515 | 65.15 | 41.6 | 1. 568 |
| November | 60. 72 | 39. 2 | 1. 548 | 53. 92 | 39.4 | 1.369 | 56. 27 | 41. 2 | 1. 364 | 63. 69 | 41.5 | 1. 521 | 65. 28 | 41.4 | 1. 575 |
| December. | 61.22 | 39.3 | 1. 558 | 55. 24 | 40.1 | 1.378 | 57. 98 | 40.9 | 1. 1.416 | 62.69 62.54 | 41.3 41.2 | 1. 1.516 1. 516 | 65.78 64.83 | 41.5 40.9 | 1. 585 |

${ }^{1}$ State and area hours and gross earnings are prepared by various cooperating State agencies. Owing to differences in methodology the data may not be strictly comparable among the States or with the national averages. Variations in earnings among the States and areas reflect, to some extent difierences with respect to industrial composition. Revised data for all
except the two most recent months are identified by an asterisk for the first month's publication of such data. A number of States also make available more detailed industry data, as well as information for earlier periods, which more detailed industry data, as well as information for earlier periods, which
may be secured directly upon request to the appropriate State agency as misted in footnote 1 , table A-5.

Table C-3: Estimated Average Hourly Earnings, Gross and Exclusive of Overtime, of Production Workers in Manufacturing Industries ${ }^{1}$

| Year and month | All manufacturing |  | Durable goods |  | Nondurable goods |  | Year and month | All manufacturing |  | Durable goods |  | Nondurable goods |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Gross | Excluding time | Gross | Exclud. ing overtime | Gross | Excluding overtime |  | Gross | $\begin{gathered} \text { Exclud- } \\ \text { ing } \\ \text { over- } \\ \text { time } \end{gathered}$ | Gross | $\begin{gathered} \text { Exclud- } \\ \text { ing } \\ \text { over } \\ \text { time } \end{gathered}$ | Gross | $\begin{gathered} \text { Exclud- } \\ \text { ing } \\ \text { over- } \\ \text { time } \end{gathered}$ |
| January 1941 January 1945 July 1945 |  | $\begin{array}{r} \$ 0.664 \\ .970 \\ .909 \\ 1.053 \end{array}$ | $\begin{array}{r} \$ 0.749 \\ 1.144 \\ 1.127 \\ 1.165 \\ 1.165 \end{array}$ | $\begin{array}{r} \$ 0.722 \\ 1.053 \\ 1.052 \\ 1.134 \\ 1.134 \end{array}$ | $\begin{array}{r} \$ 0.610 \\ .891 \\ .902 \\ 1.003 \end{array}$ | $\begin{array}{r} \$ 0.601 \\ 840 \\ .854 \\ .854 \\ .872 \end{array}$ | 1947: December- 1948: January | \$1. 278 | \$1.228 | \$1.354 | \$1. 299 | \$1.196 | \$1.152 |
| June 1946. |  |  |  |  |  |  | Februar | 1.287 | 1. 2447 | -1.352 | 1.309 | 1.220 | 1.173 |
| 1941: A verage |  | . 702 |  | . 770 |  |  | April... | 1.289 | 1.248 |  |  |  | 1.183 |
| 1942: A verage |  | .894 | $\begin{array}{r}.947 \\ 1.059 \\ \hline 1.112\end{array}$ | $\begin{array}{r}.881 \\ .976 \\ \hline 1.80\end{array}$ | . 7240 | .625.698.763 | May- | 1.301 | 1.262 | 1.366 | +1.314 | 1.220 1.230 1.242 |  |
| 1943: A verage-. |  |  |  |  | . 863 |  | June- |  |  | ${ }^{1.385}$ | ${ }_{1}^{1.349}$ | 1. 252 | 1.194 1.204 1 |
| 1945: A verage-. |  |  | 1.1171.1111.1501.208 | $\begin{array}{r} 1.029 \\ 21.042 \\ 1.122 \end{array}$ | - 9041.9041.012 | $\begin{array}{r} .814 \\ .858 \\ . .978 \\ 1.109 \end{array}$ | July | $\begin{aligned} & 1.052 \\ & 1.349 \end{aligned}$ | 1.2951.309 | 1.407 |  |  | - 1.216 |
| 1946: A verage |  |  |  |  |  |  | September |  |  |  | 1.408 1.403 | +1.272 |  |
| 1947: A verage-- |  | 1. 182 | 1. 292 | 1. 250 | 1.145 |  | October | 1.3661.371 | (1.323 | 1.448 |  |  | 1.235 <br> 1.236 |
|  |  |  |  |  |  |  | November ${ }^{3}$ - |  |  |  | 1.409 | 1.282 | 1.248 |
|  |  |  |  |  |  |  | December ${ }^{2}$ | 1.376 | 1.333 | 1. 457 | 1.408 | 1. 286 | 1. 251 |

[^55]Table C-4: Gross Average Weekly Earnings of Production Workers in Selected Industries, in Current and 1939 Dollars ${ }^{1}$

| Year and month | All manufacturing |  | Bituminous-coalmining |  | Electric light and power ${ }^{2}$ |  | Year and month | All manufacturing |  | $\underset{\substack{\text { mining }}}{\text { Bituminous-coal }}$ |  | Electric light and power ${ }^{2}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Current dollars | $\begin{gathered} 1939 \\ \text { dollars } \end{gathered}$ | Current dollars | $\begin{aligned} & 1939 \\ & \text { dollars } \end{aligned}$ | Current dollars | $\begin{aligned} & 1939 \\ & \text { dollars } \end{aligned}$ |  | Current dollars | $\begin{gathered} 1939 \\ \text { dollars } \end{gathered}$ | Current dollars | $\begin{gathered} 1939 \\ \text { dollars } \end{gathered}$ | Current dollars | $\begin{aligned} & 1939 \\ & \text { dollars } \end{aligned}$ |
| January 1941 | \$26. 64 | \$26. 27 | \$26.00 | \$25. 64 | \$35. 49 | \$35. 00 | 1947: December-.-- | \$52. 69 | \$31.36 | \$75. 22 | \$44. 77 | \$59.01 | \$35. 12 |
| January 1845 | 47. 50 | 37.15 | 54.11 | 42.32 | 48.90 | 38.24 |  |  |  |  |  |  |  |
| July 1945.. | 45.45 | 34.91 | 50. 66 | 38.92 48.06 | 50.34 | 38.67 38.83 | 1948: January | 52.07 51.75 | 30.66 30.71 | 75.78 70.54 | 44.62 41.86 | 59.87 59.60 | 35.26 35.37 |
| Jume 1946. | 43.31 | 32.30 | 64.44 | 48.06 | 52.07 | 38.83 | February | 51.75 52.07 |  | 70.54 74.84 | 41.86 44.57 | 59.60 58.27 |  |
| 1939: A verage | 23.86 | 23.86 | 23.88 | 23.88 | 34.38 | 34.38 | April. | 51.79 | 30.41 | \% 49.53 | ${ }^{3} 29.08$ | 59.10 | 34. 70 |
| 1940: Average | 25. 20 | 25.00 | 24.71 | 24.51 | 35. 10 | 34.82 | May | 51.86 | 30.23 | 74.08 | 43. 19 | 59.83 | 34.88 |
| 1941: Average | 29.58 | 27.95 | 30.86 | 29.16 | 36. 54 | 34. 53 | June | 52.85 | 30.60 | 73.87 | 42. 76 | 60.41 | 34. 97 |
| 1942: Average.-- | 36.65 | 31.27 | 35.02 | 29.88 | 39.60 | 33. 79 | July. | 52.95 | 30.30 | 67.62 | 38. 70 | 61.46 | 35.17 |
| 1943: Average | 43.14 | 34. 69 | 41. 62 | 33.47 | 44.16 | 35.51 |  | 54.05 | 30.79 | 78.10 | 44. 49 | 61.46 | 35. 01 |
| 1944: Average | 46.08 | 36.50 | 51. 27 | 40.61 | 48.04 | 38. 05 | September..- | 54.19 | 30.87 | 75.51 | 43. 01 | 61.75 | 35.17 |
| 1945: Average | 44.39 | 34.36 | 52.25 | 40.45 | 50.05 | 38.75 | October-.- | 54.65 | 31.29 | 76. 40 | 43. 75 | 62. 38 | 35. 72 |
| 1946: A verage | 43.74 | 31.21 | 58.03 | 41.41 | 52.04 | 37.13 | November ${ }^{\text {4 }}$ | 54.57 | 31.50 | 73.52 | 42. 44 | 62. 57 | 36. 12 |
| 1947: Average... | 49.25 | 30.75 | 66.86 | 41.75 | 57.12 | 35. 66 | December ${ }^{\text {- }}$ | 55.10 | 31.95 | 75.06 | 43.53 | 62.72 | 36. 37 |

${ }^{1}$ These series indicate changes in the level of weekly earnings prior to and after adjustment for changes in purchasing power as determined from the Bureau's consumers' price index, the year 1939 having been selected for the
${ }_{3}^{2}$ Data relate to all nonsupervisory employees and working supervisors. base period. Estimates of World War II and postwar understatement by the consumers' price index were not included. See Monthly Labor Review, March 1947, p. 498. (See also footnote 1, table D-1.)

Table C-5: Gross and Net Spendable Average Weekly Earnings of Production Workers in Manufacturing Industries, in Current and 1939 Dollars ${ }^{1}$

| Year and month | Cross average weekly earnings | Net spendable average weekly earnings |  |  |  | Year and month | Gross a verage weekly earn- | Net spendable average weekly earnings |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Worker with no dependents |  | Worker with three dependents |  |  |  | Worker with no dependents |  | Worker with three dependents |  |
|  |  | Current dollars | $\begin{gathered} 1939 \\ \text { dollars } \end{gathered}$ | Current dollars | $\begin{gathered} 1939 \\ \text { dollars } \end{gathered}$ |  |  | Current dollars | $\begin{gathered} 1939 \\ \text { dollars } \end{gathered}$ | Current dollars | $\begin{gathered} 1939 \\ \text { dollars } \end{gathered}$ |
| January 1941 | \$26.64 | \$25.41 | \$25.06 | \$26.37 | \$26.00 | 1947: December | \$52. 69 | \$44. 98 | \$26.77 | \$50.46 | \$30.03 |
| January 1945 | 47.50 45.45 | 39.40 <br> 37.80 | 30.81 29.04 | 45.17 43.57 | 35.33 <br> 33.47 | 1948: January | 52.07 | 45.69 | 26.91 | 51.43 | 30.29 |
| June 1946 | 43.31 | 37.30 | 27.81 | 42.78 | 31.90 | February | 51.75 52.07 | 45. 42 | 26.95 | 51.16 51.43 | 30.36 30.63 |
| 1939: A verage | 23.86 | 23.58 | 23.58 | 23.62 | 23.62 | April. | 51. 79 | 45.45 | 26. 68 | 51.19 | 30.05 |
| 1940: A verage | 25. 20 | 24.69 | 24. 49 | 24.95 | 24. 75 | May. | 51.86 | 45. 51 | 26. 53 | 51.25 | 29.88 |
| 1941: A verage. | 29.58 | 28.05 | 26.51 | 29. 28 | 27.67 | June. | 52.85 | 46.35 | 26.83 | 52.08 | 30.15 |
| 1942: A verage. | 36.65 | 31.77 | 27.11 | 36.28 | 30.96 | July | 52.95 | 46.48 | 26.60 | 52.22 | 29.88 |
| 1943: A verage | 43.14 | 36.01 | 28.97 | 41.39 | 33.30 | August | 54.05 | 47.35 | 26.97 | 53.09 | 30. 24 |
| 1944: A verage | 46. 08 | 38. 29 | 30.32 | 44.06 | 34. 89 | September | 54. 19 | 47. 47 | 27.04 | 53.21 | 30.31 |
| 1945: A verage | 44. 39 | 36. 97 | 28.61 | 42.74 | 33.08 | October-- | 54.65 | 47.86 | 27.40 | 53.60 | 30.69 |
| 1946: A verage | 43.74 | 37.65 | 26.87 | 43. 13 | 30.78 | November ${ }^{2}$ | 54.57 | 47. 79 | 27.59 | 53.53 | 30.90 |
| 1947: Average | 49.25 | 42.17 | 26.33 | 47.65 | 29.75 | December ${ }^{2}$ | 55.10 | 48.24 | 27.98 | 53.98 | 31.30 |

[^56]upon the estimates of gross average weekly earnings for all production workers in manufacturing industries without direct regard to marital status and family composition. The primary value of the spendable series is that of measuring relative changes in disposable earnings for two types of incomereceivers. That series does not, therefore, reflect actual differences in levels receivers. That series does not, therefore, reflect actual differences in levels etc.

Table C-6: Average Earnings and Hours on Private Construction Projects, by Type of Firm ${ }^{1}$

| Year and month | All types, private construction projects |  |  | Building construction |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | Total building |  |  | General contractors |  |  | Special building trades |  |  |  |  |  |  |  |  |
|  |  |  |  | All trades: | Plumbing and heating |  |  | Painting and decorating |  |  |
|  | Avg. wkly. earnings ${ }^{\circ}$ | Avg. wkly. hours | Avg. <br> hrly. <br> earn- <br> ings |  |  |  | Avg. wkly. earnings ${ }^{8}$ | Avg. wkly. hours | Avg. hrly. earnings | Avg. wkly. earnings ${ }^{3}$ | Avg. wkly. hours | Avg. brly. earnings | $A \vee g$. wkly. earnings ${ }^{2}$ | A $\overline{\mathrm{F}}$. wkly. hours | Avg. hriy. earnlings | Avg. wkly. earnings 8 | A $\nabla \mathrm{g}$. wkly. hours | A Vg . hrly. earnings | Avg. wkly. earnings ${ }^{2}$ | A $\nabla \mathrm{g}$. wkly. hours | A Vg . hrly. earnings |
| 1940: Average...---- | (4) $(4)$ | (4) (4) | (4) (4) | $\$ 31.70$ 32.18 | 33.1 32.6 | $\$ 0.958$ .986 |  |  |  | $\$ \$ 30.56$ $\mathbf{3 0 . 1 0}$ | 833.3 832.7 | \% $\$ 0.918$ 5.946 | $\$ 33.11$ 33.42 | 32.7 32.6 | $\$ 1.012$ 1.025 | $\$ 32.87$ 34.16 | 34.6 35.8 | $\$ 0.949$ .955 | $\$ 33.05$ 31.49 | 32.5 29.7 | $\$ 1.016$ 1.062 |
| 1947: December.-- | \$66. 47 | 38.0 \$ | \$1.748 | 67.31 | 37.9 | 1. 774 | 62.86 | 37.1 | 1. 695 | 72. 64 | 38.9 | 1.865 | 76.61 | 40.6 | 1.887 | 65.33 | 36.0 | 1.812 |
| 1948: January | 65. 73 | 37.3 | 1. 762 | 66. 28 | 37.2 | 1.781 | 62.05 | 36.4 | 1. 707 | 71.43 | 38.2 | 1. 868 | 75. 79 | 40.7 | 1. 862 | 65. 79 | 35.7 | 1.840 |
| February | 66.17 | 37.0 | 1. 788 | 66.31 | 36.7 | 1.806 | 62. 70 | 36.3 | 1. 727 | 70.99 | 37.3 | 1. 899 | 74.17 | 39.1 | 1.895 | 65. 03 | 34.7 | 1. 872 |
| March | 66. 73 | 37.4 | 1. 786 | 66. 89 | 37.1 | 1.805 | 63. 28 | 36.7 | 1.724 | 71.47 | 37.5 | 1. 905 | 74. 01 | 39.0 | 1.887 | 66.80 | 35.7 | 1. 870 |
| April | 67.25 | 37.5 | 1. 795 | 67.31 | 37.0 | 1.818 | 63.62 | 36.5 | 1. 745 | 72.08 | 37.7 | 1.909 | 74.64 | 38.9 | 1.919 | 68. 29 | 36.3 | 1.880 |
| May | 67.90 | 37.5 | 1.812 | 68.13 | 37.1 | 1.835 | 64.74 | 36.5 | 1. 772 | 72. 67 | 37.9 | 1. 916 | 75.55 | 39.1 | 1.933 | 69.76 | 36.6 | 1.906 |
| June | 70.57 | 38.5 | 1.835 | 70.49 | 37.9 | 1.858 | 67.00 | 37.4 | 1. 789 | 75. 14 | 38.6 | 1.948 | 79.03 | 40.0 | 1.976 | 70.27 | 36.4 | 1. 930 |
| July | 71.53 | 38.4 | 1.865 | 71.38 | 37.8 | 1. 890 | 67.90 | 37.2 | 1. 826 | 75.88 | 38.5 | 1.972 | 78.89 | 39.2 | 2. 014 | 71.20 | 36.8 | 1. 934 |
| August | 71.99 | 38.4 | 1.876 | 71.89 | 37.8 | 1.901 | 68.47 | 37.4 | 1. 833 | 76. 57 | 38.5 | 1.991 | 79.81 | 39.1 | 2. 041 | 71.27 | 36.5 | 1. 951 |
| September | 72.12 | 38.1 | 1.894 | 72.06 | 37.5 | 1. 919 | 68. 56 | 37.0 | 1. 853 | 76. 67 | 38.2 | 2. 005 | 78.97 | 38.7 | 2.042 | 71. 67 | 36.6 | 1. 959 |
| October | 71. 71 | 37.9 | 1. 894 | 71.69 | 37.4 | 1. 919 | 68.10 | 36.8 | 1. 852 | 76.33 | 38.1 | 2. 005 | 77.97 | 38.5 | 2. 026 | 70.72 | 357 | 1. 980 |
| November ${ }^{6}$ - | 70. 46 | 37.0 | 1. 906 | 70.73 | 36.7 | 1.929 | 67.25 | 36.0 | 1.867 | 75.25 | 37.5 | 2. 009 | 76. 44 | 38.0 | 2. 010 | 69.92 | 34.9 | 2. 001 |
| December ${ }^{7}$-- | 73.18 | 38.0 | 1.926 | 73.44 | 37.8 | 1.945 | 70.47 | 37.4 | 1.884 | 77.41 | 38.2 | 2.025 | 81.74 | 40.3 | 2.016 | 71.73 | 35.7 | 2.011 |
| Year and month | Building construction-Continued |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Special building trades-Continued |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Electrical work |  |  | Masonry |  |  | Plastering and lathing |  |  | Carpentry |  |  | Roofing and sheet metal |  |  | Excavation and foundation |  |  |
|  | Avg. wkly. earn: ings ${ }^{2}$ | Avg. wkly. hours | Avg. hourly earnings | A $\vee \mathrm{g}$. wkiy. earnings s | Avg. wkly. hours | A $\vee \mathrm{g}$. hourly earnings | Avg. <br> wkly. <br> earn- <br> ings ${ }^{8}$ | Avg. wkly. hours | Avg. hourly earnings | A $\nabla$. wkly. earnings ${ }^{3}$ | Avg. wkly. hours | Avg. hourly earnings | Avg. wkly. earnings ${ }^{\text {a }}$ | Avg. wkly. hours | Avg. hourly earnings | Avg. wkly. earnings ${ }^{8}$ | A Vg . wkly. bours | Avg. hourly earnings |
| 1940: Average | \$41.18 | 34. 5 | \$1. 196 | \$29.47 | 29.8 | \$0.988 | \$36. 60 | 28. 5 | \$1.286 | \$31. 23 | 33.0 | \$0. 947 | \$28.07 | 31.8 | \$0.883 | \$26. 53 | 30.9 | \$0.859 |
| 1941: January | 43, 18 | 36.5 | 1. 184 | 25.66 | 25.3 | 1.012 | 35. 36 | 27. 5. | 1. 287 | 30.40 | 31.2 | . 974 | 27.60 | 30.3 | . 910 | 23.86 | 29.1 | . 820 |
| 1947: December. | 81.20 | 40.6 | 2. 000 | 66.69 | 36.3 | 1. 836 | 76.63 | 36.5 | 2. 100 | 64.94 | 37.8 | 1. 718 | 60.64 | 37.1 | 1.634 | 63.33 | 37.8 | 1.676 |
| 1948: January | 81.62 | 40.6 | 2. 012 | 61. 51 | 33.0 | 1. 862 | 75.84 | 36.7 | 2. 069 | 63.94 | 36.5 | 1. 750 | 56.54 | 34. $\overline{1}$ | 1. 638 | 63. 79 | 37.7 | 1. 680 |
| Februar | 82. 10 | 40.0 | 2. 052 | 59. 50 | 31.6 | 1. 881 | 74. 81 | 35.9 | 2. 087 | 61. 60 | 35.2 | 1. 752 | 55. 38 | 33.7 | 1.643 | 64.37 | 37.3 | 1. 725 |
| March | 83.75 | 40.6 | 2. 064 | 61.38 | 32.6 | 1.883 | 75.10 | 36.0 | 2. 087 | 62. 93 | 35.4 | 1. 778 | 55. 86 | 34.4 | 1. 622 | 61. 57 | 36.4 | 1.689 |
| April | 81.76 | 39.7 | 2. 061 | 64.61 | 34.3 | 1.885 | 76.61 | 36.6 | 2. 094 | 68.41 | 38.0 | 1. 799 | 58. 33 | 35.3 | 1. 652 | 63, 40 | 37.9 | 1. 872 |
| May | 81.44 | 39.7 | 2. 051 | 66.91 | 34.8 | 1. 923 | 79.22 | 37.1 | 2.137 | 69.55 | 38.8 | 1.795 | 59.89 | 35.9 | 1. 669 | 65. 72 | 39.3 | 1. 671 |
| June | 82.60 | 39.8 | 2. 075 | 71. 21 | 36.2 | 1. 967 | 83.54 | 38.2 | 2.185 | 70.64 | 39.4 | 1.794 | 63.15 | 36.8 | 1. 717 | 68.45 | 40.4 | 1.695 |
| July | 84.31 | 40.3 | 2. 090 | 74. 78 | 37.8 | 1. 977 | 83.12 | 37.4 | 2. 223 | 70.28 | 39.2 | 1.795 | 64. 42 | 37.1 | 1.736 | 66. 63 | 38.6 | 1.724 |
| August | 85.63 | 40.3 | 2. 126 | 73.83 | 37.0 | 1. 994 | 82.07 | 36.8 | 2. 231 | 70.65 | 39.3 | 1. 800 | 65.36 | 37.7 | 1. 734 | 69.11 | 39.5 | 1. 749 |
| September. | 85.69 | 39.7 | 2.159 | 73. 97 | 36.9 | 2. 005 | 84.29 | 37.3 | 2. 258 | 70.50 | 38.4 | 1. 837 | 66.27 | 37.8 | 1. 753 | 69.77 | 39.5 | 1.768 |
| October- | 87.62 | 40.0 | 2. 191 | 73.74 | 36.6 | 2. 015 | 82. 28 | 36.6 | 2. 250 | 69.77 | 37.6 | 1. 854 | 65.15 | 37.3 | 1. 749 | 68.37 | 38.8 | 1. 760 |
| November ${ }^{\text {a }}$ | 86.72 | 39.4 | 2. 203 | 72.96 | 36.1 | 2. 022 | 77. 66 | 34.7 | 2. 238 | 68.99 | 37.2 | 1.855 | 65.17 | 37.2 | 1. 751 | 68.61 | 38.4 | 1. 789 |
| December ${ }^{7}$ | 89.47 | 40.5 | 2. 207 | 71.12 | 35.2 | 2. 019 | 81.52 | 35.6 | 2. 291 | 68.59 | 36.9 | 1.856 | 64.80 | 36.4 | 1. 778 | 66.43 | 37.6 | 1.767 |

See footnotes at end of table.

Table C-6: Average Earnings and Hours on Private Construction Projects, by Type of Firm ${ }^{1}$ - Con.

| Year and month | Nonbuilding construction |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total nonbuilding |  |  | Highway and street |  |  | Heavy construction |  |  | Other |  |  |
|  | Avg. wkly. earnings ${ }^{3}$ | Avg. wkly. hours | Avg. hourly earnings | Avg. wkly. earnings ${ }^{3}$ | Avg. wkly. hours | Avg. hourly earnings | Avg. wkly. earnings ${ }^{3}$ | Avg. wkly. hours | Avg. hourly earnings | Avg. wkly. earnings ${ }^{3}$ | Avg. wkly. hours | Avg. hourly earnings |
| 1940: Average- | (4) | (4) (4) | (4) | (4) | (4) | (4) | (4) $(4)$ | (4) $(4)$ | (4) (4) | (4) (4) | $(4)$ $(4)$ | (4) |
| 1947: December- | \$62.83 | 38.4 | \$1.638 | \$60. 21 | 38.4 | \$1. 570 | \$65. 24 | 38.4 | \$1.697 | \$58.35 | 38.2 | \$1. 528 |
| 1948: January | 63. 28 | 37.8 | 1. 676 | 61.25 | 37.9 | 1.618 | 65.57 | 37.6 | 1.745 | 58.14 | 38.1 | 1. 524 |
| February | 65. 42 | 38.5 | 1. 700 | 60.96 | 37.4 | 1.629 | 68. 78 | 38.6 | 1.781 | 61.24 | 39.0 | 1. 570 |
| March | 65. 85 | 38.9 | 1. 692 | 60.71 | 37.7 | 1. 609 | 68.79 | 39.3 | 1. 750 | 62.89 | 38.9 | 1. 615 |
| April | 66. 92 | 39.6 | 1. 691 | 61.63 | 38.5 | 1.601 | 69.53 | 39.9 | 1.743 | 65.08 | 39.8 | 1. 637 |
| May -- | 66. 72 | 39.1 | 1. 706 | 63.09 | 38.8 | 1. 627 | 69.30 | 39.4 | 1. 760 | 63.86 | 38.8 | 1. 647 |
| June. | 70. 93 | 40.9 | 1. 735 | 67.53 | 40.8 | 1. 656 | 74.06 | 41.5 | 1.785 | 66.61 | 39.5 | 1. 685 |
| July | 72. 27 | 41.2 | 1. 756 | 69.73 | 42.2 | 1. 652 | 74.42 | 41.0 | 1.814 | 69.23 | 40.6 | 1.705 |
| August | 72. 26 | 40.9 | 1. 768 | 68.85 | 41.6 | 1.657 | 75.06 | 40.6 | 1.847 | 69.02 | 40.7 | 1. 694 |
| September. | 72.42 | 40.7 | 1. 779 | 69.22 | 41.3 | 1. 676 | 74. 90 | 40.4 | 1.854 | 69. 88 | 40.9 | 1. 708 |
| October-.. | 71.82 | 40.3 | 1. 780 | 68.63 | 40.2 | 1. 707 | 73.85 | 40.0 | 1. 846 | 70.23 | 41.2 | 1. 704 |
| November ${ }^{6}$ | 69.25 | 38.4 | 1. 803 | 63.27 | 37.6 | 1. 684 | 72.05 | 38.3 | 1.881 | 67.58 | 39.4 | 1. 717 |
| December ${ }^{7}$ | 72.02 | 39.0 | 1.847 | 66.18 | 38.5 | 1.720 | 74.50 | 38.8 | 1.920 | 70.23 | 39.9 | 1. 760 |

[^57]${ }^{8}$ Hourly earnings, when multiplied by weekly hours of work, may not exactly equal weekly earnings because of rounding.

- Not available prior to February 1946.
s Includes general contracting as well as general building maintenance, and other special building data.
${ }^{6}$ Revised.
${ }_{7}$ Rreliminary


## D: Prices and Cost of Living

## Table D-1: Consumers' Price Index ${ }^{1}$ for Moderate-Income Families in Large Cities, by Group of Commodities

| Year and month | All items | Food | Apparel | Rent | Fuel, electricity, and refrigeration* |  |  |  | Housefurnishings | Miscellaneous |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  | Total | Gas and electricity | Other fuels | Ice |  |  |
| 1913: A verage | 70.7 | 79.9 | 69.3 | 92.2 | 61.9 | (2) | $\left.{ }^{2}\right)$ | (2) | 59.1 | 50.9 |
| 1914: July.... | 71.7 | 81.7 | 69.8 | 92.2 | 62.3 | (2) | (2) | (2) | 60.8 | 52.0 |
| 1918: December | 118.0 | 149.6 | 147.9 | 97.1 | 90.4 | $\left.{ }^{2}\right)$ | (2) | (2) | 121.2 | 83.1 |
| 1920: June...- | 149.4 | 185.0 | 209.7 | 119.1 | 104.8 | (2) | (2) | (2) | 169.7 | 100.7 |
| 1929: Average | 122.5 | 132.5 | 115.3 | 141. 4 | 112.5 | (2) | (2) | (2) | 111.7 | 104.6 |
| 1932: A verage | 97.6 | 86.5 | 90.8 | 116.9 | 103.4 | $\left.{ }^{2}\right)$ | (2) | (2) | 85.4 | 101.7 |
| 1939: Average | 99.4 | 95.2 | 100.5 | 104. 3 | 99.0 | 98.9 | 99.1 | 100.2 | 101.3 | 100.7 |
| 1940. August 15 | 98.6 | 93.5 | 100.3 | 104.3 | 97.5 | 99.0 | 95.2 | 100.0 | 100.6 | 100.4 |
| 1940: A verage.- | 100.2 | 96.6 | 101.7 | 104.6 | 99.7 | 98.0 | 101.9 | 100. 4 | 100.5 | 101.1 |
| 1941: A verage | 105.2 | 105.5 | 106.3 | 106.2 | 102.2 | 97.1 | 108.3 | 104. 1 | 107.3 | 104.0 |
| January 1 | 100.8 | 97.6 | 101.2 | 105.0 | 100.8 | 97.5 | 105.4 | 100.3 | 100.2 | 101.8 |
| December 15 | 110.5 | 113.1 | 114.8 | 108.2 | 104.1 | 96.7 | 113.1 | 105.1 | 116.8 | 107.7 |
| 1942: Average | 116.5 | 123.9 | 124.2 | 108.5 | 105. 4 | 96.7 | 115.1 | 110.0 | 122.2 | 110.9 |
| 1943: Average | 123.6 | 138.0 | 129.7 | 108.0 | 107.7 | 96.1 | 120.7 | 114.2 | 125.6 | 115.8 |
| 1944: Average | 125.5 | 136.1 | 138.8 | 108.2 | 109.8 | 95.8 | 126.0 | 115.8 | 136. 4 | 121. 3 |
| 1945: A verage | 128.4 | 139.1 | 145.9 | 108.3 | 110.3 | 95.0 | 128.3 | 115.9 | 145.8 | 124.1 |
| August 15 | 129.3 | 140.9 | 146.4 | $\left.{ }^{3}\right)$ | 111.4 | 95.2 | 131.0 | 115.8 | 146.0 | 124.5 |
| 1946: A verage... <br> June 15 | 139.3 | 159.6 | 160.2 | 108.6 | 112.4 | 92.4 | 136.9 | 115.9 | 159.2 | 128.8 |
| June 15 $\qquad$ <br> November 15 | 133.3 152.2 | 145.6 187.7 | 157.2 171.0 | ${ }_{(3)} 108.5$ | 110.5 | 92.1 | 133.0 | 115.1 | 156.1 | 127.9 |
| November 15 | 152.2 | 187.7 | 171.0 |  | 114.8 | 91.8 | 142.6 | 117.9 | 171.0 | 132.5 |
| 1947: Average | 159.2 | 193.8 | 185.8 | 111.2 | 121.1 | 92.0 | 156.1 | 125.9 | 184.4 | 139.9 |
| December 15 | 167.0 | 206.9 | 191.2 | 115.4 | 127.8 | 92.6 | 171.1 | 129.8 | 191.4 | 144.4 |
| 1948: Average | 171.2 | 210.2 | 198.0 | 117.4 | 133.9 | 94.3 | 183.4 | 135.2 | 195.8 | 149.9 |
| January 15 | 168.8 | 209.7 | 192.1 | 115.9 | 129.5 | 93.1 | 174.6 | 131.2 | 192.3 | 146.4 |
| February 15 | 167.5 | 204. 7 | 195.1 | 116.0 | 130.0 | 93.2 | 175. 4 | 132.2 | 193.0 | 146.4 |
| March 15. | 166.9 | 202.3 | 196.3 | 116.3 | 130.3 | 93.8 | 175.5 | 132.2 | 194.9 | 146.2 |
| April 15 | 169.3 | 207. 9 | 196.4 | 116.3 | 130.7 | 93.9 | 176.1 | 133.2 | 194.7 | 147.8 |
| May 15 | 170.5 171.7 | 210. 9 | 197.5 | 116.7 | 131.8 | 94.1 | 178.5 | 133.7 | 193.6 | 147.5 |
| July 15. | 173.7 | 216.8 | 196.9 | 117.0 | 132.6 134.8 | 94.2 | 180.6 | 134. 2 | 194.8 | 147.5 |
| August 15 | 174.5 | 216.6 | 199.7 | 117.7 | 136.8 | 94.5 | 190.1 | 136.5 137.3 | 195.9 | 150.8 152.4 |
| September 15 | 174.5 | 215.2 | 201. 0 | 118.5 | 137.3 | 94. 6 | 191.0 | 137.6 | 198.1 | 152.4 152.7 |
| October 15 | 173.6 | 211.5 | 201.6 | 118.7 | 137.8 | 95.4 | 191.4 | 137.9 | 198.8 | 153.7 |
| November 15 | 172.2 | 207.5 | 201.4 | 118.8 | 137.9 | 95.4 | 191. 6 | 138.0 | 198.7 | 153.9 |
| December 15.. | 171.4 | 205.0 | 200.4 | 119.5 | 137.8 | 95.3 | 191.3 | 138.4 | 198.6 | 154.0 |
| 1949: January 15 | 170.9 | 204.8 | 196.5 | 119.7 | 138.2 | 95.5 | 191.8 | 139.0 | 196.5 | 154.1 |

[^58]of the cities regularly surveyed by the Bureau and for each of the major groups of living essentials. Indexes for all large cities combined are available since 1913. The beginning date for series of indexes for individual cities varies from city to city but indexes are available for most of the 34 cities since Varies from city
${ }_{2}$ Data not available.
${ }_{3}^{2}$ Data not available.
*The group index formerly entitled "Fuel, electricity, and ice" is now designated "Fuel, electricity, and refrigeration". Indexes are comparable with those previously published for "Fuel, electricity, and ice." The subgroup "Other fuels and ice" "has been discontinued; separate indexes are presented for "Other fuels" and "Ice."

Table D-2: Consumers' Price Index for Moderate-Income Families, by City, ${ }^{1}$ for Selected Periods
$[1935-39=100]$

| City | $\mathrm{Jan.}_{1949}$ | $\begin{gathered} \text { Dec. } 15 \\ 1948 \end{gathered}$ | $\left\lvert\, \begin{gathered} \text { Nov. } \\ 1948 \end{gathered}\right.$ | $\begin{gathered} \text { Oct. } 15, \\ 1948 \end{gathered}$ | $\begin{gathered} \text { Sept.15, } \\ 1948 \end{gathered}$ | ${ }_{1948} \text { A }$ | $\begin{gathered} \text { July } 15, \\ 1948 \end{gathered}$ | June 15, | $\begin{gathered} \text { May 15, } \\ 1948 \end{gathered}$ | Apr. 1948 | $\underset{1948}{\text { Mar. } 15,}$ | Feb. 1948 | $\mathrm{Jan.}_{1948}$ | $\begin{array}{r} \text { Jnne 15, } \\ 1946 \end{array}$ | $\operatorname{Aug.~}_{1939}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| A verag | 170.9 | 171.4 | 172.2 | 173.6 | 174.5 | 174.5 | 173.7 | 171.7 | 170.5 | 169.3 | 166.9 | 167.5 | 168.8 | 133.3 | 98.6 |
| Atlanta, Gs | ${ }^{(2)}$ | ${ }^{(2)}$ | 173.7 | ${ }^{(2)}$ | ${ }^{(2)}$ | 176.2 | ${ }^{(2)}$ | ${ }^{(2)}$ | 170.8 | ${ }^{(2)}$ | (3) | 169.2 | (\%) | 133.8 | 98.0 |
| Baltimore, Md | (2) | 174.0 | ${ }^{(2)}$ | ${ }^{(2)}$ | 179.2 | ${ }^{(2)}$ | (2) | 176.1 | (2) | (2) | 170.9 | ${ }^{(2)}$ | (1) | 135.6 | 98.7 |
| Birmingham, Al | 173.7 | 174.8 | 175.0 | 176.9 | 178.6 | 179.3 | 177.0 | 174.7 | 173.7 | 172.7 | 172.0 | 172.8 | 174.4 | 136. ${ }^{\text {a }}$ | 98.5 |
| Boston, Mass | 163.9 | 164.7 | 166.7 | 167.8 | 169.0 | 168.7 | 168.6 | 166. 1 | 164.1 | 163.6 | 160.8 | ${ }_{(2)}^{161.3}$ | 163.1 | ${ }_{132.9}^{127.9}$ | 97.1 |
| Buffalo, N. Y | 169.8 174.9 | ${ }^{(2)} 175.4$ | 175.9 | 172.7 178.1 | 179.4 | 178.8 | 173.1 178.6 | 176. 2 | 174.9 | 172.1 | 169.0 | 168.8 | 171.5 | 132.6 130.9 | 98.5 98.7 |
| Cincinnati, Oh | 172.0 | 172.2 | 173.8 | 175.5 | 176.3 | 175.7 | 175.9 | 173.5 | 172.3 | 170.8 | 169.3 | 170.1 | 171.2 | 132.2 | 97.3 |
| Cleveland, Oh | ${ }^{(2)}$ | ${ }^{(2)}$ | 176.8 | (2) | ${ }^{(2)}$ | 179.3 | (2) | ${ }^{(2)}$ | 173.7 | ${ }^{(2)}$ | (2) | 171.6 | (2) | 135.7 | 100.0 |
| Denver, Colo | 171.0 | ${ }^{(2)}$ | ${ }^{(2)}$ | 171.0 | (2) | (2) | 172.5 | ${ }^{(2)}$ | (1) | 168.5 | (2) | (3) | 167.0 | 131.7 | 98.6 |
| Detroit, Mich | 171.6 | 172.8 | 173.1 | 174.6 | 175.4 | 176.1 | 175.9 | 174.5 | 173.2 | 171.8 | 168.7 | 169.0 | 170.6 | 136.4 | 98.5 |
| Houston, Tex | 172.6 | 173.8 | 173.9 | 174.7 | 175.4 | 175.2 | 173.7 | 172.5 | 171.5 | 171.4 | 170.0 | 170.4 | 170.8 | 130.5 | 100.7 |
| Indianapolis, Ind. | 173.6 | ${ }^{(2)}$ | ${ }^{(2)}$ | 178.0 | $\left.{ }^{2}\right)$ | ${ }^{2}$ | 176.5 | (9) | (2) | 172.5 | ${ }^{(2)}$ | (9) | 172.3 | 131.9 | 98.0 |
| Jacksonville, Fla | (2) | 176.2 | (2) | (2) | 179.1 | (2) | (2) | 178.3 | (2) | (2) | 172.8 | (2) | (8) | 138.4 | 98.5 |
| Kansas City, Mo | 165.1 | (2) | (2) | 167.5 | ${ }^{(2)}$ | (2) | 166.3 | ${ }^{(2)}$ | (2) | 163.3 | (1) | (2) | 162.4 | 129.4 | 98.6 |
| Los Angeles, Calif | 172.7 | 172.7 | 172.2 | 171.8 | 171.0 | 171.0 | 170.3 | 168.8 | 169.1 | 169.3 | 167.4 | 168.1 | 167.6 | 136.1 | 100.5 |
| Manchester, $\mathrm{N} . \mathrm{H}$ | 172.3 | (2) | ${ }^{(2)}$ | 176.5 | ${ }^{(2)}$ | (2) | 178.1 | ${ }^{(9)}$ | (2) | 172.0 | ${ }^{(2)}$ | ${ }^{(2)}$ | 172.5 | 134.7 | 97.8 |
| Memphis, Tenn | ${ }^{(2)}$ | 174.3 | (2) | ${ }^{(2)}$ | 177.1 | (2) | ${ }^{(2)}$ | 174.7 | (2) | (2) | 172.4 | (2) | (2) | 134.5 | 97.8 |
| Milwaukee. W is | (2) | (2) | 171.2 | (2) | ${ }^{(2)}$ | 174.5 | (2) | (2) | 171.1 | (1) | (2) | 166.9 | (2) | 131.2 | 97.0 |
| Minneapolis, M | (2) | 170.8 | ${ }^{(2)}$ | (2) | 173.8 | (2) | (2) | 171.4 | (8) | (2) | 167.7 | (8) | (2) | 129.4 | 99.7 |
| Mobile, Ala | $\left.{ }^{2}\right)$ | 173.5 | ${ }^{(2)}$ | ${ }^{(2)}$ | 177.3 | (2) | $\left.{ }^{2}\right)$ | 173.5 | ${ }^{(2)}$ | (2) | 169.9 | ${ }^{(1)}$ | ${ }^{(2)}$ | 132.9 | 98.6 |
| New Orleans, La | (2) | (2) | 176.6 | (2) | (2) | 179.8 | (3) | ${ }^{(2)}$ | 176.5 | $\left.{ }^{2}\right)$ | ${ }^{(8)}$ | 177.1 | (2) | 138.0 | 99.7 |
| New York, N. | 169.2 | 169.2 | 171.0 | 171.7 | 173.3 | 173.3 | 172.6 | 169.1 | 167.5 | 167.0 | 164.3 | 166.4 | 167.1 | 135. 8 | 99.0 |
| Norfolk, Va | ${ }^{(2)}$ | ${ }^{(2)}$ | 174.0 | ${ }^{(2)}$ | ${ }^{(2)}$ | 176.2 | ${ }^{(2)}$ | (1) | 171.9 | (8) | ( ${ }^{\text {a }}$ | 170.1 | ${ }^{(2)}$ | 135.2 | 97.8 |
| Philadelphia, P | 170.4 | 170.6 | 171.7 | 174.1 | 174.8 | 174.8 | 172.9 | 172.1 | 170.4 | 169.3 | 165.5 | 166.6 | 168.4 | 132.5 | 97.8 |
| Pittsburgh, Pa | 174.6 | 174.9 | 175.9 | 177.1 | 178.3 | 178.3 | 177.8 | 175.7 | 173.5 | 171.9 | 170.1 | 170.1 | 172.3 | 134.7 | 98.4 |
| Portland, Maine | ${ }^{(2)}$ | 167.1 | ${ }^{(2)}$ | ${ }^{(2)}$ | 170.7 | ${ }^{(2)}$ | ${ }^{(2)}$ | 167.4 | (1) | (9) | 162.7 | ${ }^{(1)}$ | ${ }^{(2)}$ | 128.7 | 97.1 |
| Portland, Oreg | 178.6 | $\left.{ }^{2}\right)$ | (2) | 180.1 | ${ }^{(2)}$ | (2) | 180.3 | (2) | (1) | 175.8 | ${ }^{(2)}$ | (2) | 174.4 | 140.3 | 100.1 |
| Richmond, Va | 166.5 | (2) | (2) | 170.0 | ${ }^{(2)}$ | (2) | 168.9 | (2) | ( $)$ | 163.4 | ${ }^{(2)}$ | ${ }^{(2)}$ | 165.1 | 128.2 | 98.0 |
| St. Louls, Mo | $\left.{ }^{2}\right)$ | 171.1 | (2) | ${ }^{(2)}$ | 175.0 | ${ }^{(2)}$ | ${ }^{(2)}$ | 172.1 | (1) | (1) | 167.8 | ${ }^{2}$ | (8) | 131.2 | 98.1 |
| San Francisco, Ca | (2) | 176.7 | ${ }^{(2)}$ | (3) | 177.1 | ${ }^{(2)}$ | ${ }^{(2)}$ | 174.2 | (1) | (3) | 171. | (2) | ( ${ }^{(17)}$ | 137.8 | 99.3 |
| Savannah, Ga | 176.7 | ${ }^{(2)}$ | ${ }^{(2)}$ | 178.4 | ${ }^{(2)}$ | ${ }^{(2)}$ | 180.2 | (2) | ( ${ }^{\text {a }}$ | 177.6 | (3) | ${ }^{(2)}$ | 175.6 | 140.6 | 99.3 |
| Scranton, Pa | ${ }^{(2)}$ | $\left.{ }^{2}\right)$ | 169.4 | ${ }^{(2)}$ | $\left.{ }^{2}\right)$ | 174.7 | ${ }^{(2)}$ | (2) | 170.2 | ${ }^{(2)}$ | ${ }^{(2)}$ | 166.5 | (1) | 132.2 | 96.0 |
| Seattle, Wash | $\left.{ }^{2}\right)$ | (2) | 174.3 | (2) | (2) | 176.2 | (2) | ${ }^{(2)}$ | 174.3 | ${ }^{(2)}$ | (1) | 170.7 | (1) | 137.0 | 100.3 |
| W ashington, D. | (2) | ${ }^{(2)}$ | 167.1 | (2) | (2) | 169.2 | (2) | (2) | 166.7 | ( ${ }^{\text {( }}$ | (1) | 163.2 | ( ${ }^{\text {( }}$ | 133.8 | 98.6 |

[^59]${ }^{2}$ Through June 1947, consumers' price indexes were computed monthly for

21 cities and in March, June, September, and December for 13 additional cities; beginning July 1947 indexes were computed monthly for 10 cities and once every 3 months for 24 additional cities according to a staggered schedule.

Table D-3: Consumers' Price Index for Moderate-Income Families, by City and Group of Commodities ${ }^{1}$
$[1935-39=100]$

| City | Food |  | Apparel |  | Rent |  | Fuel, electricity, and refrigeration |  |  |  | Housefurnishings |  | Miscellaneous |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Total | Gas and electricity |  |  |  |  |  |
|  | $\begin{gathered} \text { Jan. } 15 \\ 1949 \end{gathered}$ | $\begin{gathered} \text { Dec. } 15 \\ 1948 \end{gathered}$ |  |  | $\begin{gathered} \text { Jan. } 15, \\ 1949 \end{gathered}$ | $\begin{gathered} \text { Dec. } 15 \\ 1948 \end{gathered}$ | $\text { Jan. }_{1949}$ | $\begin{gathered} \text { Dec. } 15, \\ 1948 \end{gathered}$ | $\underset{1949}{\text { Jan. }^{15}}$ | $\begin{gathered} \text { Dec. } 15, \\ 1948 \end{gathered}$ | ${ }_{1949}{ }^{\text {Jan. }} 15,$ | $\begin{gathered} \text { Dec. } 15, \\ 1948 \end{gathered}$ | $\begin{gathered} \text { Jan. } 1549 \end{gathered}$ | $\begin{gathered} \text { Dec. } 15, \\ 1948 \end{gathered}$ | $\text { Jan. } 15$ | $\begin{gathered} \text { Dec. } 15, \\ 1948 \end{gathered}$ |
| Average | 204.8 | 205.0 | 196.5 | 200.4 |  |  | 119.7 | 119.5 | 138.2 | 137.8 | 95.5 | 95.3 | 196.5 | 198.6 | 154.1 | 154.0 |
| Atlanta, Ga | 202.1 | 203.3 | (1) | (1) | ${ }^{(2)}$ | (3) | 151.2 | 151.2 | 83.3 | 83.3 | (1) | (1) | (1) | (1) |
| Baltimore, Md | 213.5 | 214.6 | (1) | 198.3 | $\left.{ }^{2}\right)$ | 116.5 | 148.4 | 148.3 | 122.0 | 122.0 | (1) | 201.9 | (1) | 149.4 |
| Birmingham, Ala | 202.0 | 204.8 | 206.2 | 207.4 | ${ }^{(2)}$ | $\left.{ }^{2}\right)$ | 135.6 | 135.6 | 79.6 | 79.6 | 191.5 | 193.0 | 150.0 | 150.0 |
| Boston, Mass | 194.1 | 194.2 | 185. 6 | 192.1 | $\left.{ }^{2}\right)$ | 115.2 | 154.9 | 154.8 | 117.3 | 116.9 | 187.7 | 193.0 | 146.5 | 146.1 |
| Buffalo, N. Y | 197.9 | 200.0 | 197.7 | (1) | 124.0 | ${ }^{(2)}$ | 140.2 | 140.2 | 96.0 | 96.0 | 195.3 | (1) | 158.8 | ${ }^{(1)}$ |
| Chicago, Ill | 207.3 | 208.2 | 199.6 | 202.4 | $\left.{ }^{2}\right)$ | 138.3 | 131.4 | 131.4 | 83.5 | 83.5 | 184.7 | 186.0 | 155.6 | 155.0 |
| Cincinnati, Ohio | 205.5 | 205. 2 | 193.4 | 196.1 | $\left.{ }^{2}\right)$ | 115.1 | 146.4 | 145.7 | 101.9 | 101.9 | 193.7 | 193.5 | 154.1 | 154.5 |
| Cleveland, Ohio. | 212.8 | 213.0 | (1) | (1) | $\left.{ }^{2}\right)$ | ${ }^{(2)}$ | 145.1 | 145.1 | 105.6 | 105.6 | (1) | ${ }^{1}$ (1) | (1) | (1) |
| Denver, Colo | 209.6 | 211.0 | 193.9 | (1) | 124.2 | $\left.{ }^{2}\right)$ | 112.1 | 112.1 | 69.2 | 69.2 | 214, 8 | (1) | 152.5 | (1) |
| Detroit, Mich. | 197.3 | 198.7 | 192.7 | 198.3 | 127.4 | $\left.{ }^{2}\right)$ | 150.5 | 150.4 | 87.1 | 87.1 | 202.2 | 206.7 | 166.5 | 166.7 |
| Houston, Tex. | 215.7 | 218.1 | 207.2 | 211.0 | (2) | $\left.{ }^{2}\right)$ | 99.4 | 99.4 | 81.5 | 81.5 | 198.5 | 198.5 | 153.3 | 153.4 |
| Indianapolis, Ind | 200.9 | 204.8 | 187.6 | (1) | 129.7 | $\left.{ }^{2}\right)$ | 157.4 | 155.2 | 86.6 | 86.6 | 189.2 | (1) | 160.3 | (1) |
| Jacksonville, Fla. | 210.6 | 209.9 | ${ }^{1}$ ) | 198.1 | $\left.{ }^{2}\right)$ | 127. 7 | 146.8 | 146.8 | 100.2 | 100.2 | (1) | 190.7 | (1) | 159.6 |
| Kansas City, Mo | 194.6 | 194.7 | 187.4 | (1) | 124.2 | $\left.{ }^{2}\right)$ | 128.5 | 129.0 | 67.0 | 66.5 | 186.9 | (1) | 154.2 |  |
| Los Angeles, Calif | 215.5 | 214.9 | 192.0 | 194.8 | $\left.{ }^{2}\right)$ | $\left.{ }^{2}\right)$ | 94.0 | 94.0 | 89.3 | 89.3 | 189.3 | 189.0 | 154.3 | 154.1 |
| Manchester, N. H | 201.8 | 203.6 | 184.6 | (1) | 113.3 | ${ }^{(2)}$ | 156.9 | 156.9 | 99.2 | 99.3 | 201.2 | (1) | 148.4 | (1) |
| Memphis, Tenn | 217.1 | 217.9 | (1) | 210.5 | $\left.{ }^{2}\right)$ | 129.5 | 135.0 | 135.0 | 77.0 | 77.0 | (1) | 182.6 | (1) | 141.5 |
| Milwaukee, W is | 206.5 | 205.0 | (1) | (1) | $\left.{ }^{2}\right)$ | $\left.{ }^{2}\right)$ | 145.8 | 145.8 | 104.5 | 104.5 | (1) | (1) | (1) | (1) |
| Minneapolis, Minn | 195.3 | 195.6 | (1) | 204.2 | $\left.{ }^{2}\right)$ | 129.8 | 142.6 | 142.8 | 78.9 | 78.9 | (1) | 191. 7 | (1) | 159.5 |
| Mobile, Ala.. | 214.5 | 211.8 | (1) | 203.5 | $\left.{ }^{2}\right)$ | 125.9 | 129.8 | 129.8 | 83.9 | 84.0 | (1) | 178.2 | (1) | 145.3 |
| New Orleans, La | 213.2 | 216.1 | (1) | (1) | $\left.{ }^{2}\right)$ | $\left.{ }^{2}\right)$ | 113.4 | 113.4 | 75.1 | 75.1 | (1) | (1) | (1) |  |
| New York, N. Y | 205.3 | 204.3 | 196.4 | 200.7 | 107.8 | $\left.{ }^{2}\right)$ | 134.2 | 133.3 | 101.6 | 100.8 | 185.9 | 187.4 | 159.7 | 159.6 |
| Norfolk, Va | 208.7 | 209.8 | ${ }^{(1)}$ | ${ }^{(1)}$ | ${ }^{(2)}$ | ${ }^{(2)}$ | 149.9 | 149.9 | 102. 6 | 102.6 | (1) | (1) | (1) | (1) |
| Philadelphia, Pa | 200.4 | 199.3 | 190.7 | 195.5 | $\left.{ }^{2}\right)$ | (2) | 144.1 | 142.6 | 103.0 | 103.0 | 196.8 | 201.7 | 152.4 | 152.6 |
| Pittsburgh, Pa | 208.0 | 208.0 | 230.7 | 234.1 | 120.1 | $\left.{ }^{2}\right)$ | 140.3 | 139.7 | 103.3 | 103.3 | 201.7 | 205.4 | 148.4 | 148.5 |
| Portland, Maine | 194.3 | 195.0 | (1) | 200.2 | $\left.{ }^{2}\right)$ | 113.3 | 153.9 | 154.0 | 108.6 | 108.5 | (1) | 193.4 | (1) | 152.0 |
| Portland, Oreg. | 224.2 | 223.5 | 194.9 | (1) | 125.8 | ${ }^{(2)}$ | 130.6 | 130.6 | 95.6 | 95.6 | 187.3 | (1) | 156.5 | $\left.{ }^{1} 1\right)$ |
| Richmond, Va | 200.3 | 201.5 | 196.7 | (1) | 114.5 | ${ }^{(2)}$ | 142.5 | 142. 4 | 95.6 | 95.6 | 207.1 | (1) | 144.0 | (1) |
| St. Louis, Mo .... | 212.4 | 212. 2 | ${ }^{(1)}$ | 201.4 | ${ }^{(2)}$ | 119.7 | 135.7 | 135.7 | 88.4 | 88.4 | ${ }^{1}$ (1) | 175.4 | (1) | 145.3 |
| San Francisco, Calif | 223.2 | 221.1 | (1) | 196.0 | (2) | 115.9 | 82. 8 | 82.8 | 72.7 | 72.7 | (1) | 169.6 | (1) | 164.2 |
| Savannah, Ga..... | 215.3 | 216.0 | 192.9 | ${ }^{1}$ (1) | 118.2 | $\left.{ }^{2}\right)$ | 156.9 | 153.4 | 108.6 | 101.5 | 205.1 | (1) | 155.4 | (1) |
| Scranton, Pa | 201.6 | 201.1 | (1) | (1) | ${ }^{2}$ ) | (2) | 144.7 | 144.7 | 91.8 | 91.8 | (1) | ${ }^{1}$ | ${ }^{(1)}$ | $\left.{ }^{1}\right)$ |
| Seattle, W ash | 214.4 | 211.8 | (1) | (1) | $\left.{ }^{2}\right)$ | $\left.{ }^{2}\right)$ | 127.2 | 126.4 | 93.2 | 91.5 | ${ }^{(1)}$ | (1) | (1) | (1) |
| W ashington, D. C | 202.4 | 201.8 | (1) | (1) | $\left.{ }^{2}\right)$ | ${ }^{(2)}$ | 137.5 | 137.5 | 98.6 | 98.6 | (1) | (1) | ( ${ }^{1}$ | (1) |

1 Prices of apparel, housefurnishings, and miscellaneous goods and services
${ }^{2}$ Rents are surveyed every 3 months in 34 large cities according to a stag. are obtained monthly in 10 cities and once every 3 months in 24 additional gered schedule. cities according to a staggered schedule.

Table D-4: Indexes of Retail Prices of Foods, ${ }^{1}$ by Group, for Selected Periods

| Year and month | $\begin{gathered} \text { All } \\ \text { foods } \end{gathered}$ | $\begin{gathered} \text { Cere- } \\ \text { als } \\ \text { and } \\ \text { bakery } \\ \text { prod- } \\ \text { uets } \end{gathered}$ | Meats, poultry, and fish | Meats |  |  |  | $\begin{gathered} \text { Chick } \\ \text { ens } \end{gathered}$ | Fish | Dairy products | Eggs | Fruits and vegetables |  |  |  | Beverages | Fats and oils |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | Total | Beef and veal | Pork | Lamb |  |  |  |  | Total | Fresh | $\begin{aligned} & \text { Can- } \\ & \text { ned } \end{aligned}$ | Dried |  |  |  |
| 1923: A verage. | 124.0 | 105. 5 | 101.2 |  |  |  |  |  |  | 129.4 | 136.1 | 169.5 | 173.6 | 124.8 | 175.4 | 131.5 | 126.2 | 175.4 |
| 1926: Average. | 137.4 | 115.7 | 117.8 |  |  |  |  |  |  | 127.4 | 141.7 | 210.8 | 226.2 | 122.9 | 152.4 | 170.4 | 145.0 | 120.0 |
| 1929: A verage | 132.5 | 107.6 | 127.1 |  |  |  |  |  |  | 131.0 | 143.8 | 169.0 | 173.5 | 124.3 | 171.0 | 164.8 | 127.2 | 114.3 |
| 1932: Average | 86.5 | 82.6 | 79.3 |  |  |  |  |  |  | 84.9 | 82.3 | 103.5 | 105.9 | 91.1 | 91.2 | 112.6 | 71.1 | 89.6 |
| 1939: A verage | 95.2 | 94.5 | 96.6 | 96.6 | 101.1 | 88.9 | 99.5 | 93.8 | 101.0 | 95.9 | 91.0 | 94.5 | 95.1 | 92.3 | 93.3 | 95.5 | 87.7 | 100.6 |
| 1040. August.-.-...-- | 93. 5 | 93.4 | 95.7 | 95.4 | 99.6 102.8 | 88.0 | 98.8 | 94.6 | 99.6 | 93.1 | 90.7 | 92.4 | 92.8 | 91.6 | 90.3 | 94.9 | 84.5 | 95.6 |
| 1940: Average.......- | 96.6 | 96.8 | 95.8 | 94.4 | 102.8 | 81.1 | 99.7 | 94.8 | 110.6 | 101.4 | 93.8 | 96.5 | 97.3 | 92.4 | 100.6 | 92.5 | 82.2 | 96.8 |
| 1941: Average | 105.5 | 97.8 | 107.5 | 106. 5 | 110.8 | 100.1 | 106.6 | 102.1 | 124.5 | 112.0 | 112.2 | 103.2 | 104.2 | 97.8 | 106. 7 | 101.5 | 94.0 | 106.4 |
| 1042: Decembe | 113.1 | 102.5 | 111.1 | 109.7 | 114.4 | 103.2 | 108.1 | 100.5 | 138.9 | 120.5 | 138.1 | 110.5 | 111.0 | 106.3 | 118.3 | 114.1 | 108.5 | 114.4 |
| 1942: Average | 123.9 | 105.1 | 126.0 | 122.5 | 123.6 | 120.4 | 124.1 | 122.6 | 163.0 | 125.4 | 136.5 | 130.8 | 132.8 | 121.6 | 136.3 | 122.1 | 119.6 | 126.5 |
| 1943: Average | 138.0 | 107.6 | 133.8 | 124. 2 | 124.7 | 119.9 | 136.9 | 146.1 | 206.5 | 134.6 | 161.9 | 168.8 | 178.0 | 130.6 | 158.9 | 124.8 | 126.1 | 127.1 |
| 1944: Average | 136.1 | 108.4 | 129.9 | 117.9 | 118.7 | 112.2 | 134.5 | 151.0 | 207.6 | 133.6 | 153.9 | 168.2 | 177.2 | 129.5 | 164.5 | 124.3 | 123.3 | 126.5 |
| 1945: Average | 139.1 | 109.0 | 131.2 | 118.0 | 118.4 | 112.6 | 136.0 | 154.4 | 217.1 | 133.9 | 164.4 | 177.1 | 188.2 | 130.2 | 168.2 | 124.7 | 124.0 | 126.5 |
| August. | 140.9 | 109.1 | 131.8 | 118.1 | 118.5 | 112.6 | 136.4 | 157.3 | 217.8 | 133.4 | 171.4 | 183.5 | 196.2 | 130.3 | 168. 6 | 124.7 | 124.0 | 126.6 |
| 1946: Average | 159.6 | 125.0 | 161.3 | 150.8 | 150.5 | 148.2 | 163.9 | 174.0 | 236.2 | 165. 1 | 168.8 | 182.4 | 190.7 | 140.8 | 190.4 | 139.6 | 152.1 | 143.9 |
| June. | 145.6 | 122.1 | 134.0 | 120.4 | 121.2 | 114.3 | 139.0 | 162.8 | 219.7 | 147.8 | 147.1 | 183.5 | 196.7 | 127.5 | 172.5 | 125.4 | 126.4 | 136.2 |
| November.... | 187.7 | 140.6 | 203.6 | 197.9 | 191.0 | 207.1 | 205.4 | 188.9 | 265.0 | 198.5 | 201.6 | 184.5 | 182.3 | 167.7 | 251.6 | 167.8 | 244.4 | 170.5 |
| 1947: Average.-...-- | 193.8 | 155.4 | 217.1 | 214.7 | 213.6 | 215.9 | 220.1 | 183.2 | 271.4 | 186.2 | 200.8 | 199.4 | 201.5 | 166.2 | 263.5 | 186.8 | 197.5 | 180.0 |
| 1948: Average | 210.2 | 170.9 | 246.5 | 243.9 | 258.5 | 222.5 | 246.8 | 203.2 | 312.8 | 204.8 | 208.7 | 205.2 | 212.4 | 158.0 | 246.8 | 205.0 | 195.5 | 174.0 |
| January | 209.7 | 172.7 | 237.5 | 233.4 | 239.7 | 225.9 | 231.5 | 200.0 | 310.9 | 205. 7 | 213.6 | 208.3 | 215. 7 | 158.0 | 256.8 | 201.9 | 209.3 | 183.4 |
| Februar | 204.7 | 171.8 | 224.8 | 218.0 | 228.2 | 202.2 | 223.4 | 196. 4 | 315.0 | 204.4 | 189.2 | 213.0 | 222.0 | 157.7 | 256.0 | 204.0 | 194.2 | 176.8 |
| March | 202.3 | 171.0 | 224.7 | 218.2 | 228.5 | 204.3 | 216.8 | 194.7 | 313.6 | 201.1 | 186.3 | 206.9 | 214.2 | 157. 7 | 253.9 | 204.4 | 191.7 | 174.4 |
| April | 207.9 | 171.0 | 233.8 | 229.5 | 241.2 | 212.3 | 232.6 | 198.4 | 307. 2 | 205.8 | 184.7 | 217.4 | 228.4 | 156.4 | 252.1 | 204.4 | 191.4 | 173.6 |
| May | 210.9 | 171.1 | 244.2 | 242.0 | 255.8 | 219.1 | 253.5 | 202.1 | 305.0 | 204.8 | 184.9 | 218.0 | 229.4 | 156.4 | 250.0 | 204.6 | 196.6 | 173.0 |
| June | 214.1 | 171.2 | 255.1 | 255.2 | 273.9 | 223.5 | 271.2 | 207.6 | 299.3 | 205.9 | 194.2 | 214.9 | 225. 2 | 157.4 | 248.0 | 205. 1 | 200.5 | 170.6 |
| July | 216.8 | 171.0 | 261.8 | 263.0 | 280.9 | 233.8 | 275. 0 | 209.3 | 301.6 | 209.0 | 204.3 | 213.4 | 223.2 | 157.7 | 248.0 | 205. 2 | 200.8 | 170.9 |
| August | 216.6 | 170.8 | 267.0 | 269.3 | 286.2 | 246.1 | 266.6 | 207.8 | 304.4 | 211.0 | 220.2 | 199.6 | 204.8 | 157.8 | 249.2 | 205.3 | 197.8 | 172.3 |
| September | 215.2 | 170.7 | 265.3 | 265.9 | 280.8 | 247.9 | 256.6 | 209.4 | 314.9 | 208.7 | 226.6 | 195.8 | 199.6 | 159.0 | 249.1 | 205.6 | 196.8 | 173.2 |
| October | 211.5 | 170.0 | 256.1 | 254.3 | 269.8 | 233.9 | 249.4 | 204.0 | 325.9 | 203.0 | 239.0 | 193.5 | 197.3 | 158.9 | 238.1 | 205.9 | 193.0 | 173.1 |
| November | 207.5 | 169.9 | 246. 7 | 243.1 | 262.4 | 214.4 | 246.5 | 200.5 | 328.1 | 189.5 | 244.3 | 189.4 | 192.4 | 159. 4 | 230.6 | 206. 4 | 189.4 | 173.3 |
| December.. | 205.0 | 170.2 | 241.3 | 235.4 | 255.1 | 206.2 | 238.6 | 208.0 | 328.1 | 199.2 | 217.3 | 192.3 | 196.2 | 159.4 | 229.8 | 207.8 | 184.4 | 173.0 |
| 1949: January | 204.8 | 170.5 | 235.9 | 228.2 | 244.5 | 203.1 | 234.4 | 208.9 | 331.7 | 196.0 | 209.6 | 205.2 | 213.3 | 159.2 | 228.4 | 208.7 | 174.7 | 173.4 |

[^60]income workers, in computing city indexes; and (3) population weights, in combining city aggregates in order to derive average prices and indexes for all cities combined.
Indexes of retail food prices in 56 large cities combined, by commodity groups, for the years 1923 through 1947 ( $1935-39=100$ ), may be found in Bulletin No. 938, "Retail Prices of Food-1946 and 1947," Bureau of Labor Statistics. U. S. Department of Labor, table 3, p. 42. Mimeographed tables of the same data, by months, January 1935 to date, are available upon request.

Table D-5: Indexes of Retail Prices of Foods, by City
$[1835-39=100]$


[^61]reports lost in the mails. Index for Feb. 15, will reflect the correct level of food

Table D-6: Average Retail Prices and Indexes of Selected Foods

| Commodity | Average price Jan. 1949 | Indexes 1935-39 $=100$ |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | $\begin{aligned} & \text { Jan. } \\ & 1949 \end{aligned}$ | Dec. <br> 1948 | Nov. 1848 | $\begin{aligned} & \text { Oct. } \\ & 1948 \end{aligned}$ | Sept. <br> 1948 | ${ }_{1948}$ | $\begin{aligned} & \text { July } \\ & 1948 \end{aligned}$ | $\begin{aligned} & \text { June } \\ & 1948 \end{aligned}$ | $\begin{aligned} & \text { May } \\ & 1948 \end{aligned}$ | Apr. <br> 1948 | Mar. 1948 | Feb. 1948 | $\begin{aligned} & \text { Jan. } \\ & 1948 \end{aligned}$ | $\begin{aligned} & \text { A ug. } \\ & 1939 \end{aligned}$ |
| Cereals and bakery products: Cereals: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Cents 48.3 | 187.0 | 185.7 | 184.0 | 184.2 | 184.9 | 185.7 | 186.9 | 188.4 | 189.4 | 189.6 | 192.4 | 197.3 | 210, 8 | 82. |
| Corn flakes---------------11 ounces.-- | 16.8 | 177.4 | 177.8 | 177.6 | 177.2 | 177.1 | 177.1 | 176.8 | 177.2 | 175. 7 | 175.8 | 173.3 | 172.8 | 172.9 | 92. |
| Corn meal -------------------- pound -- | 9.7 | 189.0 | 194.9 | 199.5 | 210.5 | 214.0 | 215.2 | 215.5 | 213.7 | 215.7 | 216.4 | 216. 6 | 219.9 | 219.9 | 90.7 |
|  | 19.1 | 107.2 | 107.6 | 109.4 | 112.1 | 121.1 | 121.5 | 120.6 | 119.6 | 118.6 | 118.4 | 118.1 | 118.4 | 117.3 | (2) |
| Rolled oats ${ }^{\text {3 }}$------------- 20 ounces-- | 17.1 | 155.5 | 155.8 | 155.2 | 155.5 | 155.6 | 155.4 | 155.2 | 155.0 | 154.8 | 154.8 | 153.5 | 153.4 | 153.6 | ${ }^{(3)}$ |
| Bakery products: <br> Bread, white. poun | 13.9 | 163.2 | 163.0 | 162.8 | 162.7 | 163.1 | 163.1 | 163.1 | 163.5 | 163.5 | 163.2 | 163.1 | 163.1 | 162.3 | 93. 2 |
|  | 45.2 | 195.6 | 194.9 | 194.1 | 193.0 | 192.4 | 191.7 | 192.1 | 190.3 | 188.8 | 189.2 | 187.9 | 187.7 | 183.7 | (1) |
| Meats, poultry, and fil Meats: <br> Beef: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Beef: Round | 83.9 | 248.3 | 261.1 | 269.3 | 277.3 | 292.5 | 299.5 | 294.4 | 287.6 | 267.3 | 250.7 | 234. 0 | 231.4 | 248.4 | 102.7 |
| Rib roast | 69.6 | 241.7 | 253.1 | 262.0 | 267.2 | 277.6 | 283.1 | 276.6 | 266.7 | 249.9 | 238.2 | 227.0 | 227.9 | 242.3 | 97.4 |
| Chuck roast | 57.8 | 257.7 | 276.8 | 291.5 | 301.1 | 315.0 | 322.2 | 315.5 | 309.6 | 283.4 | 263.3 | 249.6 | 250.6 | 263.1 | 97.1 |
| Hamburger ${ }^{\text {a }}$ | 54.4 | 175.9 | 181.7 | 184.6 | 193.7 | 199.2 | 202.5 | 199.3 | 194.7 | 178.6 | 166.3 | 158.0 | 157.3 | 159.7 | (9) |
| Veal: ${ }_{\text {Cutlets }}$ | 99.2 | 248.7 | 248.7 | 248.4 | 253.6 | 258.5 | 259.6 | 256.1 | 252.5 | 245. 6 | 234.9 | 226.8 | 228.0 | 230.0 | 101.1 |
|  | 67.0 | 203.4 | 204.6 | 219.7 | 254.1 | 278.6 | 276.5 | 252.7 | 238.1 | 233.5 | 223.2 | 212.1 | 200.1 | 219.4 | 8 |
| Bacon | 72.4 | 190.0 | 195.8 | 200.7 | 207.0 | 207. 2 | 206.3 | 204.5 | 201.9 | 199.1 | 191.3 | 185.7 | 194.7 | 227.7 | 80.9 |
| Ham, | 65.4 | 222.5 | 233.3 | 227.2 | 239.4 | 253.3 | 251.1 | 244.2 | 231.2 | 223.7 | 220.9 | 213.6 | 212.0 | 234.8 | 92.7 |
| Salt por | 40.0 | 191.6 | 211.6 | 200.1 | 200.2 | 196.1 | 184.1 | 196.0 | 196.6 | 203.5 | 209.9 | 214. 7 | 238.2 | 259.6 | 69.0 |
| Lamb: | 67.6 | 238.1 | 242.4 | 250.4 | 253.4 | 260.7 | 270.8 | 279.4 | 275.6 | 257.6 | 236.3 | 220.3 | 226.8 | 235.2 | 5.7 |
| Poultry: Roast | 63.0 | 208. 9 | 208.0 | 200.5 | 204.0 | 209.4 | 207.8 | 2 C 9.3 | 207.6 | 202.1 | 198.4 | 194.7 | 196.4 | 200.0 | 946 |
| Fish: |  |  |  |  |  |  |  | 253.9 | 251.8 | 261.3 | 264.9 | 274.4 | 276.3 | 270.5 | 8.8 |
| Fish (fresh, frozen) ${ }_{\text {Salmon, pink }}$ | 61.4 | 468.3 | 268.5 466.0 | 467.0 | 452. 6 | 429.2 | 417.1 | 408.1 | 405.2 | 399.7 | 397.1 | 394.1 | 393.7 | 394.9 | 97.4 |
| Salmon, pink ${ }^{\text {S }}$--.-.-16-ounce can--- Dairy produets: | 75.0 | 205.9 | 207.6 | 205.7 | 212.7 | 232.7 | 245.6 | 252.0 | 249.8 | 254.2 | 255.4 | 237.4 | 248.4 | 258.1 | 4. |
|  | 63.9 | 245.8 | 246.8 | 246.6 | 259.0 | 264.1 | 268.6 | 262.1 | 254.6 | 248.1 | 241.5 | 243.7 | 247.9 | 242.2 | 2.3 |
| Milk, fresh (delivered) .-...-.---quart.- | 22.0 | 179.9 | 184.5 | 185.3 | 186.0 | 185.4 | 182.0 | 177.1 | 174.0 | 171.5 | 174.3 | 174.6 | 174. 3 | 173.3 | 97.1 |
| Milk, fresh (grocery) .-.............do.. | 20.9 | 185.7 | 189.4 | 191.4 | 191.1 | 189.4 | 187.8 | 182.1 | 179.3 | 177.3 | 179.0 | 179.5 | 179.7 | 178.5 | 96 |
| Milk, evaporated....-141/2-ounce can.- | 14.6 | 204.6 | 208.0 | 210.0 | 216.9 | 220.8 | 218.3 | 212.8 | 210.9 | 202.1 | 197.2 | 197.1 | 195.8 | 189.6 | 93.9 |
| Fruits and vegetables: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Fresh fruits: <br> Apples. pound | 13.4 | 255.7 | 241.5 | 229.1 | 220.7 | 216.7 | 225.1 | 265.3 | 269.2 | 229.1 | 208. 2 | 205.6 | 208.6 | 219.2 | 1.6 |
|  | 16.2 | 267.7 | 269.3 | 270.6 | 269.9 | 269.3 | 270.7 | 269.3 | 261.7 | 257.8 | 256.3 | 255.3 | 257.4 | 257.9 | 97.3 |
| Oranges, size 200.-.-.------- dozen-- | 47.6 | 168.4 | 153.7 | 151.0 | 192.1 | 187.2 | 183.3 | 169.2 | 155.1 | 149.2 | 142.9 | 145.1 | 135.9 | 133.5 | 96.8 |
| Fresh vegetables: |  | 234.6 |  | 224.9 | 155.1 | 172.0 | 176.0 | 187.7 | 185.1 | 229.1 | 229.5 | 191.2 | 257.2 | 199.9 | 61.7 |
|  | 6.2 | 163.7 | 142.5 | 133.7 | 139.7 | 136.5 | 139.2 | 155.1 | 180.1 | 202. 3 | 250.5 | 174.8 | 191.5 | 222.8 | 103.2 |
|  | 10.7 | 199.9 | 184.2 | 184.3 | 191. 6 | 190.8 | 183.6 | 202.1 | 263.2 | 310.1 | 254.3 | 227.8 | 261.3 | 246.3 | 84.9 |
|  | 15.3 | 185.9 | 170.8 | 158.9 | 163.0 | 156.2 | 143.1 | 177.8 | 164.1 | 200.7 | 159.9 | 138.0 | 153.5 | 201.0 | 97.6 |
|  | 6.4 | 155.7 | 156.9 | 154, 6 | 147.8 | 154.2 | 176.3 | 251.9 | 262.4 | 291.0 | 440.9 | 386.2 | 364.8 | 285.6 | 86.8 |
|  | 81.0 | 225.5 | 208.3 | 199. 1 | 20.4 | 210.8 | 223.5 | 248.4 | 263.5 | 261.7 | 253.6 | 247.0 | 246.9 | 234.4 | 91.8 |
|  | 14.5 | 202.3 | 163.2 | 155.1 | 161.2 | 183.9 | 205. 0 | 174.7 | 145.0 | 158. 4 | 167.4 | 171.5 | 221.5 | 191.4 |  |
| Sweetpotatoes-.-.-------.-. do.-.-- | 11.0 | 211.4 | 198.1 | 181.9 | 181.1 | 196.2 | 235.5 | 286.9 | 273.4 | 225.2 | 213.1 | 208.3 | 207.2 | 196.4 | 115.7 |
| Canned fruits: | 32.6 | 169.0 | 168.2 | 168.2 | 166.5 | 165.1 | 163.0 | 161.6 | 160.8 | 160.8 | 160.6 | 161.0 | 161.5 | 162.4 | 92.3 |
|  | 39.3 | 180.4 | 181.3 | 178.1 | 176.2 | 174.4 | 170.0 | 168.5 | 168.1 | 166.7 | 166.3 | 164.3 | 163.0 | 162.1 | 20 |
| Canned vegetables: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Corn | 19.9 | 160.2 | 160.4 | 159.7 | 160.2 | 159.3 | 158.8 |  | 158.2 | 157.9 | 156.6 |  | 157.0 | 156.6 | 88.6 |
|  | 15.3 | 117.1 | 117.2 | 117.5 | 116.7 | 116.9 | 115.8 | 113.5 | 112.8 | 112.3 | 113.5 | 115.5 | 118.0 | 118.0 | 89.8 |
|  | 16.2 | 179.6 | 180.0 | 181.4 | 181.3 | 183.2 | 182. 6 | 184.7 204.9 | 184.8 | 183.0 206.9 | 183.2 208.6 | 186.2 211.2 | 185.0 216.0 | 185.9 217.8 | 92.5 94.7 |
|  | 22.3 | 218.9 239.1 | 216.6 | 211.6 255.7 | 209.1 278.2 | 205.6 311.5 | 204.7 312.9 | 204.9 309.7 | 204, 310.5 | 106.9 311.6 | 208.6 314.3 | 211.2 31.9 | 216.0 312.9 | 217.8 311.9 | 83.0 |
| Beverages: Coffee............---.--- | 52.3 | 208.3 | 207.4 | 206.0 | 205.5 | 205.2 | 204.9 | 204.8 | 204.7 | 204.2 | 204.0 | 204.0 | 203.6 | 201.5 | 93. |
| Fats and oils: |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 65.2 |
| Lard....---...........-.-.-.--do...- | 24.3 40.9 | 163.2 | 181.0 202.8 | 191.4 | 195. 20.6 | 198.5 | 197.3 209.6 | 198.1 220.3 | 1818 | 111.4 | 207.1 | 191.9 214.4 | 196.0 217.6 | 238.8 <br> 225.8 | ${ }^{65.9}$ |
| Salad dressing .-..-.-.-......---- pint-- | 38.6 | 159.3 | 162.7 | 163.7 | 165.7 | 168.6 | 168.3 | 168.4 | 167.1 | 164.4 | 159.8 | 159.0 | 158.8 | 156.1 | (4) |
|  | 36.3 | 199.0 | 208.6 | 213.4 | 220.4 | 229.8 | 235.3 | 240.1 | 242.0 | 232.6 | 223.9 | 224.0 | 227.8 | 230.5 | 3. |
| Sugar and sweets: Sugar | 9.4 | 174.2 | 173.8 | 174.2 | 174.0 | 174.0 | 173.2 | 171.8 | 171.4 | 173.8 | 174.5 | 175.3 | 177.7 | 184.3 | 95.6 |

1 July $1947=100$.
${ }_{3}^{2}$ Index not computed.

- February $1943=100$.
- Not priced in earlier period.

万 $1938-39=100$.
A verage price not computed.

- Formerly published as shortening in other containers.

Table D-7: Indexes of Wholesale Prices, ${ }^{1}$ by Group of Commodities, for Selected Periods
[1926=100]

| Year and month | All <br> com- <br> modi- <br> ties ${ }^{2}$ | Farm products | Foods | Hides and leather products | Textile products | Fuel and lighting materials | Metals and metal prod. ucts ${ }^{2}$ | Building materials | Chemicals and allied products | House-furnish. ing goods | Mis. cellaneous com-modities | Raw materials | Semi-manu-factured articles | Manu-factured products ${ }^{2}$ | All <br> com. <br> modi- <br> ties <br> except farm <br> prod- <br> ucts ${ }^{2}$ | All <br> com- <br> modi- <br> ties <br> except <br> farm <br> prod. <br> ucts <br> and <br> foods ${ }^{2}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1913: Average | 69.8 | 71.5 | 64.2 | 68.1 | 57.3 | 61.3 | 90.8 | 56.7 | 80.2 | 56.1 | 83.1 | 68.8 |  |  |  |  |
| 1914: July. | 67.3 | 71.4 | 62.9 | 69.7 | 55.3 | 55.7 | 79.1 | 52.9 | 77.9 | 56.7 | 88.1 | 68.8 67.3 | 74.9 67.8 | 69.4 66.8 | 69.0 65.7 | 70.0 65.7 |
| 1918: November | 136.3 | 150.3 | 128.6 | 131.6 | 142.6 | 114.3 | 143.5 | 101.8 | 178.0 | 99.2 | 142.3 | 138.8 | 162.7 | 130.4 | 131.0 | 129.9 |
| 1920: May | 167.2 | 169.8 | 147.3 | 193.2 | 188.3 | 159.8 | 155.5 | 164.4 | 173.7 | 143.3 | 176.5 | 163.4 | 253.0 | 157.8 | 165.4 | 170.6 |
| 1929: Average.-.---- | 95.3 | 104.9 | 99.8 | 109.1 | 90.4 | 83.0 | 100.5 | 95.4 | 94.0 | 94.3 | 82.6 | 97. 5 | 93.9 | 94.5 | 93.3 | 91.6 |
| 1932: Average .-.-.--- | 64.8 | 48.2 | 61.0 | 72.9 | 54.9 | 70.3 | 80.2 | 71.4 | 73.9 | 75.1 | 64.4 | 55.1 | 59.3 | 70.3 | 68.3 | 70.2 |
| 1939: Average. | 77.1 | 65.3 | 70.4 | 95.6 | 69.7 | 73.1 | 94.4 | 90.5 | 76.0 | 86.3 | 74.8 | 70.2 | 77.0 | 80.4 | 79.5 | 81.3 |
| 1040: August......-- | 75.0 | 61.0 | 67.2 | 92, 7 | 67.8 | 72.6 | 93.2 | 89.6 | 74.2 | 85.6 | 73.3 | 66.5 | 74.5 | 79.1 | 77.9 | 80.1 |
| 1940: A verage ....-- | 78.6 | 67.7 | 71.3 | 100.8 | 73.8 | 71.7 | 95.8 | 94.8 | 77.0 | 88.5 | 77.3 | 71.9 | 79.1 | 81.6 | 80.8 | 83.0 |
| 1941: A verage...---- | 87.3 | 82.4 | 82.7 | 108.3 | 84.8 | 76.2 | 99.4 | 103.2 | 84.4 | 94.3 | 82.0 | 83.5 | 86.9 | 89.1 | 88.3 | 89.0 |
| 1042. December...-- | 93.6 | 94.7 | 90.5 | 114.8 | 91.8 | 78.4 | 103.3 | 107.8 | 90.4 | 101.1 | 87.6 | 92.3 | 90.1 | 94.6 | 93.3 | 93.7 |
| 1942: Average ......- | 98.8 | 105.9 | 99.6 | 117.7 | 96.9 | 78.5 | 103.8 | 110.2 | 95.5 | 102.4 | 89.7 | 100.6 | 92.6 | 98.6 | 97.0 | 95. 5 |
| 1943: Average.....-- | 103.1 | 122.6 | 106.6 | 117.5 | 97.4 | 80.8 | 103.8 | 111.4 | 84.9 | 102.7 | 92.2 | 112.1 | 92.9 | 100.1 | 98.7 | 96.9 |
| 1944: Average......- | 104.0 | 123.3 | 104.9 | 116.7 | 98.4 | 83.0 | 103.8 | 115.5 | 95.2 | 104.3 | 93.6 | 113.2 | 94.1 | 100.8 | 99.6 | 98. 5 |
| 1945: A verage. | 105.8 | 128.2 | 106.2 | 118.1 | 100.1 | 84.0 | 104.7 | 117.8 | 95.2 | 104.5 | 94.7 | 116.8 | 95.9 | 101.8 | 100.8 | 99.7 |
| August.------- | 105.7 | 126.9 | 106.4 | 118.0 | 99.6 | 84.8 | 104.7 | 117.8 | 95.3 | 104.5 | 94.8 | 116.3 | 95.5 | 101.8 | 100.9 | 99.9 |
| 1946: A verage | 121.1 | 148.9 | 130.7 | 137.2 | 116.3 | 90.1 | 115.5 | 132.6 | 101.4 | 111.6 | 100.3 | 134.7 | 110.8 | 116.1 | 114.9 | 109. 5 |
| June... | 112.9 | 140.1 | 112.9 | 122.4 | 109.2 | 87.8 | 112.2 | 129.9 | 96. 4 | 110.4 | 98.5 | 126.3 | 105.7 | 107.3 | 106.7 | 105.6 |
| November | 139.7 | 169.8 | 165.4 | 172.5 | 131.6 | 94.5 | 130.2 | 145.5 | 118.9 | 118.2 | 106.5 | 153.4 | 129.1 | 134.7 | 132.9 | 120.7 |
| 1947: Average......- | 152.1 | 181.2 | 168.7 | 182.4 | 141.7 | 108.7 | 145.0 | 179.7 | 127.3 | 131.1 | 115.5 | 165.6 | 148.5 | 146.0 | 145.5 | 135.2 |
| 1948: Average | 165.0 | 188.3 | 179.1 | 188.8 | 148.6 | 134.1 | 163.6 | 199.0 | 135.1 | 144.5 | 120.5 | 178.4 | 156.6 | 159.4 | 159.6 |  |
| January | 165.7 | 199.2 | 179.8 | 200.3 | 148.4 | 130.0 | 154.3 | 193.3 | 138.8 | 141.3 | 123.6 | 183.9 | 156.8 | 157.8 | 158.2 | 148.3 |
| February | 160.9 | 185.3 | 172.4 | 182.8 | 148.9 | 130.8 | 155.3 | 192.7 | 134.6 | 141.8 | 120.1 | 174.9 | 155. 2 | 154.5 | 155.3 | 147.6 |
| March | 161.4 | 186.0 | 173.8 | 185.4 | 149.8 | 130.9 | 155.9 | 193.1 | 136.1 | 142.0 | 120.8 | 174.7 | 152.9 | 155.8 | 155.7 | 147.7 |
| April | 162.8 | 186.7 | 176.7 | 186.1 | 150.3 | 131.6 | 157.2 | 195.0 | 136. 2 | 142.3 | 121.8 | 175.5 | 154.1 | 157.6 | 157.3 | 148.7 |
| May | 163.9 | 189.1 | 177.4 | 188.4 | 150.2 | 132.6 | 157.1 | 196.4 | 134.7 | 142.6 | 121.5 | 177.6 | 153.8 | 158.5 | 158.2 | 149.1 |
| June | 166.2 | 196.0 | 181.4 | 187.7 | 149.6 | 133.1 | 158.5 | 196.8 | 135.8 | 143.2 | 121.5 | 182.6 | 154.5 | 159.6 | 159.4 | 149.5 |
| July.- | 168.7 | 195. 2 | 188.3 | 189.2 | 149.4 | 135.7 | 162.2 | 199.9 | 134.4 | 144.5 | 120.3 | 184.3 | 155.9 | 162.6 | 162.6 | 159.1 |
| August | 169.5 | 191.0 | 189.5 | 188.4 | 148.9 | 136.6 | 170.9 | 203.6 | 132. 0 | 145.4 | 119.7 | 182.0 | 159.6 | 164.6 | 164.6 | 153.1 |
| Septernber | 168.7 | 189.9 | 186.9 | 187.5 | 147.9 | 136.7 | 172.0 | 204.0 | 133.3 | 146. 6 | 119.9 | 181.0 | 158.8 | 163.9 | 163.8 | 153.3 |
| October | 165.2 | 183.5 | 178.2 | 185.5 | 146.9 | 137.2 | 172.4 | 203.5 | 134.8 | 147.5 | 119.0 | 177.0 | 158.4 | 160.2 | 161.0 | 153.2 |
| November | - 164.0 | 180.8 | 174.3 | 186.2 | -147.5 | 137.3 | 173.3 | - 203.0 | - 133.9 | 148.2 | 119.2 | 175.2 | - 161.0 | 158.7 | - 160.1 | c 153.5 |
| 1949: January | - 162.3 | 177.3 172.5 | 170.2 | 185.3 184.8 | -146.7 | 137.0 | 173.8 | c 202.1 | - 130.6 | 148.4 | 118.5 | 172.1 | -160.8 | 157.5 | - 158.8 | - 153.0 |
| 1949: January | 160.6 | 172.5 | 165.8 | 184.8 | 146.0 | 137.0 | 175.9 | 202.2 | 125.7 | 148.2 | 117.3 | 169.3 | 160.3 | 156.3 | 157.8 | 152.9 |

${ }^{1}$ BLS wholesale price data, for the most part, represent prices in primary markets. They are prices charged by manufacturers or producers or are prices prevailing on organized exchanges. The weekly index is calculated from 1 -day-a-week prices; the monthly index from an average of these prices. Monthly indexes for the last 2 months are preliminary.
The indexes currently are computed by the fixed base aggregate method, with weights representing quantities produced for sale in 1929-31. (For a detailed description of the method of calculation see "Revised Method of Calculation of the Bureau of Labor Statistics Wholesale Price Index," in the Journal of the American Statistical Association, December 1937.)
Mimeographed tables are available, upon request to the Bureau, giving monthly indexes for major groups of commodities since 1890 and for subgroups monthly indexes for majar groups of commodities since 1890 and for subgroups
and
available in summary form since 1947 for all commodities; all"commodities less farm products and foods; farm products; foods; textile products; fuel and lighting materials; metals and metal products; and building materials, Weekly indexes are also available for the subgroups of grains, livestock, meats, and hides and skins.
${ }_{2}$ Includes current motor vehicle prices beginning with October 1946. The rate of production of motor vehicles in October 1946 exceeded the monthly average rate of civilian production in 1941, and in accordance with the announcement made in september 1946, the Bureau introduced current prices for motor vehicles in the October calculations. During the war, motor vehicles were not produced for general civilian sale and the Bureau carried A pril 1942 prices forward in each computation through September 1946.

- Corrected.

Table D-8: Indexes of Wholesale Prices, ${ }^{1}$ by Group and Subgroup of Commodities
$[1926=100]$

| Group and subgroup | 1949 | 1948 |  |  |  |  |  |  |  |  |  |  |  | 1946 <br> June | $\frac{1939}{\text { Aug. }}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Jan. | Dec. | Nov. | Oct. | Sept. | Aug. | July | June | May | A pr. | Mar. | Feb. | Jan. |  |  |
| All commodities ${ }^{\text {8 }}$-------------- | 160.6 | - 162.3 | - 164.0 | 165. 2 | 168.7 | 169.5 | 168.7 | 166.2 | 163.9 | 162.8 | 161.4 | 160.9 | 165.7 | 112.9 | 75.0 |
| Farm products_------------- | 172.5 | 177.3 | 180.8 | 183.5 | 189.9 | 191.0 | 195.2 | 196.0 | 189.1 | 186.7 | 186.0 | 185.3 | 199. 2 | 140.1 | 61.0 |
| Grains....- | 167.7 | 171.1 | 171. 1 | 170.4 | 176.9 | 179.2 | 190.6 | 209.2 | 213.5 | 217.9 | 218.0 | 220.0 | 256.3 | 151.8 | 51.5 |
| Livestock a | 194.7 | 204.6 | 213.4 | 223.4 | 244.2 | 250.0 | 250.8 | 239.2 | 219.0 | 204.4 | 209.4 | 210.0 | 232. 9 | 137.4 143.4 | 66.0 |
| Livestock | 209.9 | 221.7 | 234.1 | 246.9 | 268.8 | 273.3 | 272.8 | 259.5 | 236.1 | 219.7 166.4 | 224. 162 | 225.5 159.9 | 250.9 162.4 | 143.4 137.5 | 60.1 |
| Other farm product | 159.4 | 161.4 | 162.6 | 162.0 | 159.6 | 157.8 | 161.9 | 165.4 | 163.3 | 166.4 | 162.2 | 159.9 | 162.4 | 137.5 | 60.1 |
| Foods-.------------------------ | 165.8 | 170.2 | 174.3 | 178.2 | 186.9 | 189.5 | 188.3 | 181.4 | 177.4 | 176.7 | 173.8 | 172.4 | 179.9 | 112.9 | 67.2 |
| Dairy product | 163.6 | - 171.2 | 170.7 | 174.9 | 179.9 | 185. 1 | 182.9 | 181.3 | 176.6 | 181.0 | 179.8 | 184.8 | 183.9 | 127.3 | 67.9 |
| Cereal product | 148.0 | 149.8 | 105.5 | 149.6 | 153.3 | 154.0 | 154.5 | 155.1 | 156.3 | 158.0 | 158.6 | 160.2 | 170.1 | 101. 7 | 71.9 |
| Fruits and vegetables | 145.3 | 139.8 | 139.6 | 137.1 | 139.4 | 140.5 | 151.2 | 147. 7 | 147.0 | 148.6 | 145.7 | 144. 5 | 140.7 | 136. 1 | 58.8 |
| Meats, poultry, and fish. | 214.2 | 220.8 | 227.4 | 239.8 | 266.5 | 273.7 | 263.8 | 241.3 | 233. 2 | 226.0 | 217.1 | 206. 2 | 222.3 248.0 | 110.1 116.6 | 73.7 |
| M | 222.8 | 230.8 140.9 | 240.0 149.4 | 255.0 150.4 | 277.4 149.1 | 279.6 146.9 | 277.2 148.5 | 265.1 148.1 | 262.3 144.2 | 251.5 144.4 | 240.6 144.3 | 230.7 146.7 | 248.0 155.0 | 116.6 98.1 | 78.1 60.3 |
| Hides and leather products.- | 184.8 | 185.3 | 186.2 | 185.5 | 187.5 | 188.4 | 189.2 | 187.7 | 188.4 | 186.1 | 185.4 | 192.8 | 200.3 | 122.4 | 92.7 |
|  | 187.8 | 188.0 | 188.1 | 189. 7 | 190.0 | 189.4 | 186.3 | 185.8 | 185. 6 | 191.7 | 193.8 | 194.7 | 194.3 | 129.5 | 100.8 |
| Hides an | 198.7 | 197.2 | 206.0 | 202.0 | 210.6 | 212.1 | 220.3 | 215.2 | 218.0 | 199.3 | 186.2 | 207.2 | 238.9 | 121.5 | 77.2 |
| Leather | 185.4 | 186.5 | 183.8 | 180.4 | 181.9 | 186.0 | 189.2 | 186.9 | 188.2 | 183.6 | 185.9 | 199.6 | 209.4 | 110.7 | 84.0 |
| Other leather prod | 145.4 | 148.6 | 148.6 | 148.6 | 148.6 | 148.6 | 149.9 | 150.9 | 150.9 | 143.3 | 143.8 | 143.8 | 143.8 | 115.2 | 97.1 |
| Textile products-.----------- | 146.0 | - 146.7 | c 147.5 | 146.9 | 147.9 | 148.9 | 149.4 | 149.6 | 150.2 | 150.3 | 149.8 | 148.9 | 148.4 | 109.2 | 67.8 |
| Clothing ---.-------------------- | 147.7 | 148.8 | c 149.1 | 148.8 | 148.6 | 148.3 | 148.3 | 145.2 | 145.8 | 145.8 | 144.6 | 144.7 | 143.4 | 120.3 | 81.5 |
| Cotton goods | 186.9 | 189.2 | 191.7 | 195.0 | 199.8 | 205.3 | 209.3 | 213.1 | 217.8 | 219.2 | 218.3 | 214.9 | 214.8 | 139.4 | 5 |
| Hosiery and underwear. | 102.5 | - 103.7 | - 104.0 | 104.6 | 104.8 | 104.9 | 104.9 | 105.3 | 105.4 | 105.4 | 105. 4 | 105. 0 | 104.4 | 75.8 | 61.5 |
| Rayon. | 41.8 | 41.8 | 41.8 | 41.8 | 41.8 | 41.6 | 40.7 | 40.7 | 40.7 | 40.7 | 40.7 | 40.7 | 40.7 | ${ }_{\text {(8) }} \mathbf{3 0 . 2}$ | 28.5 44.3 |
| Silk | (4) | 46.4 | 46.4 | 46.4 | $\begin{array}{r}46.4 \\ \hline\end{array}$ | 46.4 149.4 | 46.4 | 46.4 147.5 | 46.4 147.5 | 46.4 147.5 | 46.4 145.7 | 46.4 143.0 | 46.4 141.9 | 112.7 | 44.3 75.5 |
| Woolen and worsted | 161.6 | - 159.6 | - 159.6 | 150.7 | 150.0 | 149.4 | 147.5 | 147.5 | 147.5 | 147.5 | 145.7 174.7 | 143.0 180.2 | 141.9 181.2 | 112.7 112.3 | 75.5 |
| Other textile products--- | 189.0 | 190.0 | 190.5 | 190.5 | 189.3 | 186:6 | 184.5 | 183.1 | 174, 2 | 170.0 | 174.7 | 180.2 | 181.2 | 112.3 | 63.7 |
| Fuel and lighting materials-- | 137.0 | 137.0 | 137.3 | 137.2 | 136.7 | 136.6 | 135.7 | 133.1 | 132.6 | 131.6 | 130.9 | 130.8 | 130.0 | 87.8 | 72.6 |
| Anthracite.------------ | 137.7 | 136.4 | 136.4 | 136.4 | 136. 5 | 136.0 | 131.6 | 127.1 | 125.5 | 124.6 | 124.6 | 124.5 | 124.2 | 106.1 | 72.1 |
| Bituminous | 195.6 | 194.9 | 195. 1 | 195. 1 | 195. 1 | 194.6 | 193.1 | 182.6 | 181.8 | 178.9 | 177.9 | 177.9 | 176.8 | 132.8 | 96. 0 |
| Coke | 220.5 | 219.0 | 219.0 | 218.7 | 217.5 | 217.4 | 212.3 | 206.6 | 205.4 | 197.5 | 190.6 | 190.6 | 190.6 | 133.5 | 104.2 |
| Electricit | (3) | ${ }^{(3)}$ | 67.3 | 66.5 | 66. 3 | 65.5 | 66.4 | 65.7 | 65.4 | 66.1 | 65.7 | 66.6 | 66.4 | 67.2 | 75.8 |
| Gas. | ${ }^{(3)}$ | 91.0 | 92.6 | 90.9 | 90.7 | 86. 9 | 90.4 | 90.7 | 89.3 | 89.1 | 88.7 | $\begin{array}{r}85.8 \\ \hline 121.7\end{array}$ | 84.5 | 6 | 7 |
| Petroleum and products | 121.3 | 122.0 | 122.8 | 122.8 | 122.2 | 122.1 | 122.1 | 122.1 | 122.1 | 121.8 | 121.8 | 121.7 | 120.7 | 4. 0 | 1.7 |
| Metals and metal products 2Agricultural machinery | 175.9 | 173.8 | 173.3 | 172.4 | 172.0 | 170.9 | 162.2 | 158.5 | 157.1 | 157.2 | 155.9 | 155.3 | 154.3 | 112.2 | 93.2 |
|  | 144.0 | - 143.9 | c 143.5 | 142. 5 | 140.5 | 135.6 | 134.1 | 132.2 | 130.5 | 129.8 | 129.3 | 128.9 | 128.6 | 104.5 | 3.5 |
| and equipment : Farm machinery | 146.5 | 146.5 | - 146.0 | 144.9 | 142.8 | 137.7 | 136.3 | 134.1 | 132.1 | 131.3 | 130.8 | 130.4 | 130.0 | 104.9 | 94.7 |
| Iron and steel | 169.1 | 165.4 | 165.0 | 164.5 | 164.0 | 163.1 | 153.2 | 149.4 | 148.9 | 149.4 | 147.7 | 146.3 | 144.6 | 110.1 | 95.1 |
| Motor vehicles $\mathbf{r}$ $\qquad$ Passenger cars : | 176.8 | 175.6 | 175.3 | 175.3 | 175.0 | 174.1 | 168.2 | 163.9 | 161.7 | 161.6 | 161.6 | 161. 6 | 161.6 | 135.5 | 92. 5 |
|  | 184.5 | 183.2 | 183.2 | 183. 2 | 182.9 | 181. 9 | 175.0 | 171.0 | 169.0 | 169. 0 | 169.0 | 169.0 | 169.0 | 142.8 | 95.6 |
| Trucks ${ }^{\text {r }}$ - | 142.4 | 142.0 | 140.4 | 140.3 | 140.2 | 139.7 | 137.3 | 132. 1 | 129.7 | 129.2 | 129.3 | 129.3 | 129.3 | 104.3 | 77. |
| Nonferrous metals | 172.5 | 172.5 | 171.4 | 167.0 | 166.4 | 165. 9 | 153.7 | 152. 1 | 150.0 | 149.8 | 146. 8 | 146.8 | 145.5 | 99.2 | 74.6 |
| Plumbing and heating-- | 156.9 | 157.3 | 157.3 | 157.3 | 157.0 | 153.9 | 145.3 | 145.3 | 143.2 | 138.7 | 138.7 | 138.7 | 138.8 | 106.0 | 79.3 |
| Building materials | 202.2 | - 202.1 | - 203.0 | 203.5 | 204.0 | 203.6 | 199.9 | 196.8 | 196.4 | 195.0 | 193.1 | 192.7 | 193.3 | 129.9 | 89.6 |
| Brick and tile.------ | 162.4 | 160.5 | 160.4 | 160.1 | 158.9 | 158. 6 | 157.9 | 153.3 | 152.8 | 152.5 | 151.6 | 151.1 | 150.9 | 121.3 | 90.5 |
| Cement | 134.0 | 133.5 | 133.7 | 133. 7 | 133.3 | 133.2 | 132.2 | 128.8 | 128.2 | 127. 5 | 127.4 | 127.2 | 126.5 | 102.6 | 91.3 |
| Lumber | 299.1 | - 305.5 | - 310.7 | 314.5 | 317.1 | 319.5 | 318.1 | 313.2 | 312.9 | 309.2 | 303.8 | 303.8 | 307.3 | 176.0 | 90.1 |
| Paint and paint materials | 166.3 | 161.5 | 161.6 | 160.4 | 160.2 | 158.1 | 157.9 | 158.7 | 158.4 | 158. 6 | 156. 7 | 159.6 | 163.2 | 108.6 | 82.1 |
| Prepared paint....-- | 151.3 | 142.9 | 142. 9 | 142.9 | 142. 9 | 142.9 | 142. 9 | 142.9 | 143.1 | 143.1 | 143.1 | 143.1 | 143.1 | 99.3 | 92.9 |
| Paint materials. | 185.8 | 184.8 | 185.2 | 182.5 | 182. 2 | 177.6 | 177.3 | 179.1 | 178.2 | 178.5 | 174.7 | 180. 7 | 188.4 | 120.9 | 71.8 |
| Plumbing and heati | 156.9 | 157.3 | 157.3 | 157.3 | 157.0 | 153.9 | 145.3 | 145.3 | 143. 2 | 138.7 | 138.7 | 138.7 | 138.8 | 106.0 | 79.3 |
| Structural steel .-..... | 178.8 | 178.8 | 178.8 | 178.8 | 178.8 | 178.8 | 159.6 | 153.3 | 153.3 | 155.8 | 155.8 | 149.4 | 143.0 | 120.1 | 107.3 |
| Other building materials.- | 179.1 | 176.9 | 175.6 | 174.8 | 174.8 | 173.4 | 167.1 | 163.5 | 163.1 | 162.2 | 161.8 | 159.8 | 157.9 | 118.4 | 89.5 |
| Chemicals and allied products. | 125.7 | - 130.6 | - 133.9 | 134.8 | 133.3 | 132.0 | 134.4 | 135.8 | 134.7 | 136.2 | 136.1 | 134.6 | 138.8 | 96.4 | 74.2 |
|  | 121.2 | - 122.4 | 124.8 | 127.5 | 126.0 | 126.3 | 127.8 | 126.2 | 125.9 | 126.8 | 126.8 | 126.5 | 125.8 | 98.0 | 83.8 |
| Chemicals <br> Drug and pharmaceu- | 150.3 | 151.4 | 151.9 | 152.6 | 152.7 | 153.3 | 153.6 | 153.7 | 153.3 | 153.8 | 154.4 | 154.3 | 154.4 | 109.4 | 77, 1 |
| Fertilizer materials.----- | 120.8 | 120.1 | 119.5 | 117.2 | 116.2 | 114.9 | 115.0 | 113.9 | 115.0 | 115. 2 | 114.9 | 115.1 | 115.7 | 82.7 | 65.5 |
| Mixed fertilize | 108.7 | 108.3 | 107. 9 | 107. 9 | 107.8 | 105.9 | 104. 4 | 103. 2 | 103.2 | 103.1 | 103.1 | 102.8 | 102.4 | 86. 6 | 73.1 |
| Oils and fats. | 146.1 | - 179.4 | -195. 1 | 192.9 | 188.6 | 180.3 | 193.2 | 212.7 | 205.0 | 212.3 | 211.4 | 201.5 | 236.7 | 102.1 | 40.6 |
| Housefurnishing | 148.2 | 148.4 | 148.2 | 147.5 | 146.6 | 145. 4 | 144.5 | 143. 2 | 142.6 | 142.3 | 142.0 | 141.8 | 141.3 | 110.4 | 85.6 |
| Furnishings. | 153.6 | 153.6 | 153.6 | 152.5 | 151.5 | 149.3 | 148. 6 | 146.7 | 145.8 | 145. 2 | 144.7 | 144. 4 | 143.8 | 114.5 | 90.0 |
| Furniture :- | 142.7 | 143.1 | 142.8 | 142.5 | 141.6 | 141.6 | 140.4 | 139.9 | 139.6 | 139.6 | 139.4 | 139.4 | 139.1 | 108.5 | 81.1 |
| Miscellaneous. | 117.3 | 118.5 | 119.2 | 119.0 | 119.9 | 119.7 | 120.3 | 121.5 | 121.5 | 121.8 | 120.8 | 120.1 | 123.6 | 98. 5 | 73.3 |
| Tires and tube | 65.5 | 66. 2 | 66.2 | 66. 2 | 66. 2 | 66.2 | 66.2 | 63.5 | 63.5 | 63.4 | 63.4 | 63.4 | 63.4 | 65.7 197 | 59.5 |
| Oattle feed | 212.0 | 217.1 | 217.9 | 195.4 | 201.7 | 198.4 | 239.6 | 292. 4 | 291.1 | 296.9 | 284.2 | 262.0 | 336.0 | 197.8 | 68. |
| Paper and pulp | 168.3 | 169.5 | 169.9 | 170.2 | 170.9 | 169.0 | 166.8 | 167.3 | 167.4 | 167. 5 | 167.3 | 167.4 175.0 | 168.1 | 115.8 | 80. |
| Paperboar | 159.0 | 161.7 | 162.2 | 164.0 | 165. 6 | 169.7 | 172.2 | 174.6 | 175. 1 | 175. 6 | 174. 7 | 175.0 | 173.5 | 115. 6 | 66. |
| Paper--- | 158.4 | 158.4 | 158.4 | 158.4 | 158.4 | 154.7 | 150.9 | 150.9 | 150. 9 | 150. 9 | 150.9 | 150.9 | 152.7 | 107.3 | 83. |
| Wood pulp | 227.3 | 233.6 | 236.0 | 236.0 | 238.9 | 238.9 | 238.9 | 238.9 | 238.9 | 238. 9 | 238. 9 | 238. 9 | 236.0 | 154.1 | 69. |
| Rubber, crude | 39.5 | 38.9 | 40.4 | 45. 0 | 46. 4 | 48. 1 | 49.6 | 47.1 | 47.6 | 46. 7 | 42.3 | 42.7 130.8 | 44.7 | 46.2 | 81. |
| Other miscellaneous | 128.1 | 129.5 | 130.5 | 131.1 | 132.1 | 132.2 | 130.0 | 129.8 | 129.7 | 130.2 | 130.2 | 130.8 | 130.7 | 101.0 | 81.3 |
| Soap. | 149.6 | 153.7 | 157.0 | 157.2 | 158.2 | 158.6 | 159.8 | 159.6 | 160.1 | 165.9 | 167.0 | 172.6 | 176.4 | 101.3 | 78.9 |

[^62]2 See footnote 2, table D-7.
${ }^{3}$ Not available.

## E: Work Stoppages

Table E-1: Work Stoppages Resulting From Labor-Management Disputes ${ }^{1}$

| - Month and year | Number of stoppages |  | Workers involved in stoppages |  | Man-days idle during month or year |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Beginning in month or year | In effect during month | Beginning in month or year | In effect during month | Number | Percent of estimated working time |
| $\begin{aligned} & \text { 1935-39 (average) } \\ & \text { 1945 } \\ & 1946 \end{aligned}$ | $\begin{aligned} & 2,862 \\ & 4,750 \\ & 4,985 \\ & 3,693 \end{aligned}$ |  | $\begin{aligned} & 1,130,000 \\ & 3,470,000 \\ & 4,6100,000 \\ & 2,170,000 \end{aligned}$ |  | 16, 900,000 <br> 38,000,000 <br> 116, 000,000 <br> 34, 600, 000 | $\begin{aligned} & 0.27 \\ & .47 \\ & 1.43 \\ & .41 \end{aligned}$ |
| 1948:2 January | $\begin{aligned} & 215 \\ & 245 \\ & 265 \\ & 315 \\ & 330 \\ & 335 \\ & 365 \\ & 350 \\ & 285 \\ & 250 \\ & 200 \\ & 125 \\ & 225 \end{aligned}$ | 300355415485535540575575500425375225400 | $\begin{array}{r} 76,500 \\ 88,200 \\ 493,000 \\ 174,000 \\ 166,000 \\ 165,000 \\ 220,000 \\ 150,000 \\ 16,000 \\ 110,000 \\ 90,000 \\ 40,000 \\ 70,000 \end{array}$ | 100,000127,00050,000621,000347,000215,000312,000250,000275,000200,000100,000100.000110,000 | $\begin{array}{r} 1,050,000 \\ 900,000 \\ 6,430,000 \\ 7,420,000 \\ 4,100,000 \\ 2,20,000 \\ 2,750,000 \\ 2,100,000 \\ 2,500,000 \\ 2,000,000 \\ 1,900,000 \\ 600,000 \\ 800,000 \end{array}$ | $\begin{array}{r} .15 \\ .14 \\ .83 \\ 1.01 \\ .57 \\ .58 \\ .37 \\ .26 \\ .33 \\ .26 \\ .26 \\ .08 \\ .11 \end{array}$ |
| March |  |  |  |  |  |  |
| April |  |  |  |  |  |  |
| May |  |  |  |  |  |  |
| June-.- |  |  |  |  |  |  |
| July |  |  |  |  |  |  |
| September |  |  |  |  |  |  |
| October-.. |  |  |  |  |  |  |
| November- |  |  |  |  |  |  |
| 1040. December ${ }^{2}$ |  |  |  |  |  |  |
| 1949: January-- |  |  |  |  |  |  |

${ }^{1}$ All known work stoppages, arising out of labor-management disputes, involving six or more workers and continuing as long as a full day or shift are included in reports of the Bureau of Labor Statistics. Figures on "workers involved and man-days istepporer involved in a stoppage. They do not measure the indirect
or secondary effects on other establishments or industries whose employees are made idle as a result of material or service shortages.
${ }^{2}$ Revised estimates for some months but figures are not final. December estimates particularly are based on incomplete data.

## F: Building and Construction

Table F-1: Expenditures for New Construction ${ }^{1}$
[Value of work put in place]

| Type of construction | Expenditures (in millions) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1949 |  | 1948 |  |  |  |  |  |  |  |  |  |  | $\frac{1948}{\text { Total }}$ | 1947 |
|  | Feb. | Jan. | Dec. | Nov. | Oct. | Sept. | Aug. | July | June | May | Apr. | Mar. | Feb. |  | Total |
| Total new construction ${ }^{3}$ | \$1,146 | \$1,261 | \$1,391 | \$1, 552 | \$1,707 | \$1, 782 | \$1,799 | \$1,715 | \$1,616 | \$1, 461 | \$1,311 | \$1, 166 | \$1,009 | \$17,666 | \$13,977 |
| Private construction | 889 | 974 | 1, 080 | 1,178 | 1,265 | 1,332 | 1,354 | 1,318 | 1,235 | 1,120 | 1,024 | 940 | 837 | 13, 631 | 10,893 |
| Residential building (nonfarm) ......- | 425 | 490 | 550 | 600 | 650 | 685 | 695 | 680 | 1, 635 | 585 |  | 475 |  | 6,980 | 5, 260 |
| Nonresidential building (nonfarm) ${ }^{\text {4--- }}$ | 278 | 292 | 312 | 330 | 333 | 334 | 332 | 324 | 305 | 277 |  | 268 | 265 | 3,615 | 3,131 |
|  | 105 84 | 110 89 | 114 | 115 | 116 | 113 | 111 | 110 125 | 110 116 | 111 | 116 87 | 120 88 | 125 | 1,391 | 1, 702 |
| Warehouses, office and loft buildings. | 84 33 | 89 36 | 1100 38 | 112 38 | 115 36 | 122 35 | 127 34 | 125 29 | 116 28 | 97 25 | 87 23 | 88 22 | 84 22 | 1,258 354 | 835 216 |
| Stores, restaurants, and garages. | 51 | 53 | 62 | 74 | 79 | 87 | 34 93 | 29 96 | 28 88 | 25 72 | 23 64 | 22 66 | 22 62 | 354 904 | 216 619 |
| Other nonresidential building.---- | 89 | 93 | 98 | 103 | 102 | 99 | 94 | 89 | 79 | 69 | 61 | 58 | 56 | 966 | 619 594 |
|  | 25 | 26 | 28 | 28 | 27 | 26 | 23 | 21 | 18 | 16 | 14 | 13 | 12 | 239 | 118 |
| Hospital and institutional...-- | 11 | 10 | 10 | 10 | 10 | 25 10 | 24 10 | 22 10 | 19 10 | 17 | 16 9 | 15 | 15 | 244 | 164 |
|  | 32 | 35 | 36 | 40 | 39 | 38 | 37 | 10 | 10 32 | 10 | ${ }^{9} 2$ | 21 | 9 20 | 116 | 107 |
| Farm construction | 10 | 12 | 13 | 22 | 39 | 63 | 82 | 81 | 62 | 50 | $\stackrel{22}{27}$ | 21 | 14 | 116 500 50 | 205 450 |
| Public utilities | 176 | 180 | 205 | 226 | 243 | 250 | 245 | 233 | 233 | 208 | 198 | 176 | 158 | 2,536 | 2,052 |
| Railroad.- | 20 | 25 | 30 | 32 | 34 | 36 | 36 | 33 | 30 | 26 | 25 | 23 | 21 | 2, 350 | 2,018 318 |
| Telephone and telegraph | 46 | 45 | 55 | 55 | 60 | 61 | 57 | 55 | 63 | 60 | 63 | 54 | 48 | 676 | 510 |
| Other public utilities Public construction | 110 257 | 110 | 120 311 | 139 374 | 149 | 153 | 152 | 145 | 140 | 122 | 110 | 99 | 89 | 1,510 | 1,224 |
| Public construction ${ }_{\text {Residential building }}$ | 257 | 287 | 311 | 374 | 432 | 450 | 445 | 397 | 381 | 341 | 287 | 226 | 172 | 4, 035 | 3,084 |
| Residential building Nonresidential building (other than | 4 | 4 | 3 | 3 | 4 | 5 | 5 | 5 | 5 | 5 | 6 | 5 | - | 61 | 182 |
| Nonresidential building (other than military or naval facilities) | 104 | 104 | 106 | 108 |  |  |  |  | 79 |  | 71 | 65 | 49 | 1,000 | 505 |
|  | 0 | 0 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 1 | 1, 19 | 25 |
| Educational --..-.................- | 60 | 60 | 60 | 61 | 58 | 56 | 52 | 48 | 43 | 40 | 37 | 36 | 30 | 553 | 275 |
| Hospital and institutional | 25 | 24 | 25 | 25 | 24 | 23 | 22 | 18 | 15 | 15 | 13 | 10 | 7 | 204 | 81 |
| All other nonresidential.. | 19 | 20 | 20 | 21 | 22 | 21 | 20 | 20 | 19 | 20 | 19 | 18 | 11 | 224 | 124 |
| Military and naval facilities. | 7 | 9 | 10 | 11 | 12 | 13 | 13 | 12 | 11 | 13 | 13 | 12 | 11 | 145 | 204 |
| Highways --.-.-. | 55 | 68 | 80 | 126 | 180 | 190 | 200 | 169 | 167 | 136 | 98 | 57 | 41 | 1,500 | 1,233 |
| Sewer and water Miscellaneous public-service enter- | 36 | 38 | 40 | 43 | 47 | 44 | 41 | 41 | 40 | 39 | 38 | 33 | 25 | 458 | 331 |
| Miscellaneous public-service enterprises ${ }^{7}$ | 5 | 7 | 6 | 8 | 10 | 10 | 9 | 10 | 10 | 11 | 9 | 9 | 6 | 106 | 117 |
| Conservation and development...------ | 36 | 46 | 54 | 61 | 67 | 69 | 65 | 58 | 56 | 47 | 41 | 36 | 28 | 615 | 396 |
| All other public ${ }^{8}$-...-....-- | 10 | 11 | 12 | 14 | 16 | 17 | 16 | 14 | 13 | 13 | 11 | 9 | 6 | 150 | 116 |

[^63]${ }^{3}$ Includes major additions and alterations.
\& Excludes nonresidential building by privately owned public utilities.
${ }^{5}$ Includes social and recreational buildings, hotels, and miscellaneous buildings not elsewhere classified.
Excludes expenditures to construct facilities used in atomic energy projects. 7 Covers primarily publicly owned electric light and power systems and local transit facilities.
${ }_{8}$ Covers miscellaneous construction items such as airports, monuments, memorials, ete.

Table F-2: Value of Contracts Awarded and Force-Account Work Started on Federally Financed New Construction, by Type of Construction ${ }^{1}$

${ }^{1}$ Excludes projects classified as "secret" by the military, and all construetion for the Atomic Energy Commission. Data for Federal-aid programs cover amounts contributed by both the owner and the Federal Government. cover amounts contributed by both the owner
? Includes major additions and alterations.
"Excludes hangars and other buildings, which are included under "Other nonresidental" building construction.

- Includes educational facilities under the Federal temnorary reuse educational facilities program.
${ }_{5}^{5}$ Includes post offices, armories, offices, and customs houses. Also
includes, in January 1949, one contract in amount of \$23,810,000 for construction at site of United Nations headquarters in New York City, N. Y. - Includes electrification projects, water-supply and sewage-disposal systems, forestry projects, railroad construction, and other types of projects not elsewhere classified.
7 Included in "All other."
8 Unavailable.
${ }_{10}$ Preliminary.

Table F-3: Urban Building Authorized, by Principal Class of Construction and by Type of Building ${ }^{1}$


1 Building for which building permits were issued and Federal contracts awarded in all urban places, including an estimate of building undertaken in some smaller urban places that do not issue permits.
The data cover federally and nonfederally financed building construction combined. Estimates of nonfederal (private, and State and local government) urban building construction are based primarily on building-permit reports received from places containing about 85 percent of the urban population of the country; estimates of federally financed projects are compiled from notifications of construction contracts awarded, which are obtained from other Federal agencies. Data from building permits are not adjusted to allow for lapsed permits or for lag between permit issuance and the start of construction. Thus, the estimates do not represent construction actually started during the month.

Urban, as defined by the Bureau of the Census, covers all incorporated places of 2,500 population or more in 1940, and, by special rule, a small number of unincorporated civil divisions.
${ }^{3}$ Covers additions, alterations, and repairs, as well as new residential and nonresidential building.
${ }^{3}$ Includes units in 1-family and 2 -family structures with stores.
Includes units in multifamily structures with stores.
${ }^{6}$ Covers hotels, dormitories, tourist cabins, and other nonhousekeeping esidential buildings.

- Revised.

7 Preliminary. Totals for 1948 include revisions which do not appear in data shown for January through October. Revised monthly data will appear in Monthly Labor Review for April.

Table F-4: New Nonresidential Building Authorized in All Urban Places, ${ }^{1}$ by General Type and by Geographic Division ${ }^{2}$

| Geographic division and type of new nonresidential building | Valuation (in thousands) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1948 |  |  |  |  |  |  |  |  |  |  |  | $1947{ }^{3}$ | 19484 | $1947{ }^{\text { }}$ |
|  | Dec. ${ }^{4}$ | Nov. ${ }^{8}$ | Oct. | Sept. | Aug. | July | June | May | Apr. | Mar. | Feb. | Jan. | Dec. | Total | Total |
| All types.---------------- | \$158, 85 | \$165, 182 | \$230, 118 | \$215,929 | \$193, 667 | \$219, 598 | \$219, 962 | \$205, 619 | \$196, 095 | \$222, 565 | \$141, 188 | \$152, 086 | \$177, 386 | \$2, 338, 684 | \$1, 712, 817 |
| New England Middle | 8,092 | 29,184 | 11, 43818 | 29, 925 | $10,532$ | $\begin{aligned} & 15,340 \\ & 30,752 \end{aligned}$ | $\begin{aligned} & 20,512 \\ & 32,431 \end{aligned}$ |  |  | 8,956 | 5,236 | 26,688 | 6,307 | 146, 066 |  |
| East North Centra | 32, 203 | 32, 256 | 43,840 53,569 | 55, 257 | 49,368 | 30, 752 | 55,23113,671 | 37,567 | 45, 082 | 33, 614 | 26, 458 | 21, 268 | 29,08419,008 | 503,173170,345 | $\begin{aligned} & 271,627 \\ & 371,948 \end{aligned}$ |
| West North Central. | 10, 447 | 17, 178 | 22, 623 | 14, 2701 | $\begin{array}{\|} 17,027 \\ 17,104 \end{array}$ | 12,114 |  | 12, 079 | 14,985 | 16, 434 | 16,566 | 8,813 |  |  | $\begin{aligned} & 132,163 \\ & 200,053 \end{aligned}$ |
| South Atlantic | 16, 422 |  | 23, 411 |  |  | $\begin{array}{r} 34,905 \\ 6,392 \end{array}$ | $\begin{array}{r} 24,933 \\ 8,682 \end{array}$ | $\begin{array}{r} 19,745 \\ 7,798 \end{array}$ | 22, 8480 | $\begin{array}{r} 25,267 \\ 9,902 \end{array}$ | $\begin{array}{r} 14,562 \\ 3,928 \end{array}$ | 18,547 |  | $\begin{aligned} & 170,345 \\ & 262,587 \end{aligned}$ |  |
| East South Central- | 8, 076 | 5,198 | 14, 748 | 9,708 | 17, 8,649 |  |  |  |  |  |  | 7,152 |  | $\begin{aligned} & 262,587 \\ & 100,297 \end{aligned}$ | $\begin{array}{r} 200,053 \\ 73,009 \end{array}$ |
| West South Central | 17, 273 | 25, 678 | 16,476 | 25, 387 | 14, 884 | 25, 965 | 20, 319 | $\begin{array}{r} 24,584 \\ 7,818 \end{array}$ | $\begin{array}{r} 21,805 \\ 6,240 \end{array}$ | $\begin{array}{r} 9,902 \\ 21,558 \\ 8,724 \end{array}$ | $\begin{array}{r} 3,928 \\ 27,433 \\ 3,826 \end{array}$ | $\begin{array}{r} 27,121 \\ 2,761 \end{array}$ | $\begin{array}{r} 7,345 \\ 17,923 \end{array}$ | 270, 425 | $\begin{array}{r} 193,220 \\ 58,162 \end{array}$ |
| Mountain | 4,139 | 3,261 | 5,697 |  | 8, 567 | 7,778 | 4, 428 |  |  |  |  |  | 17,923 4 4,067 | $\begin{array}{r} 81,899 \\ 412,108 \end{array}$ |  |
| Pacific | 35, 269 | 32,979 | 38,436 | 29, 415 | 34, 722 |  | 39,75432,832 | 34,989 | 41,350 | $\begin{array}{r} 8,724 \\ 42,340 \end{array}$ | $\begin{array}{r} 3,826 \\ 22,682 \end{array}$ | $\begin{array}{r} 2,761 \\ 30,460 \end{array}$ | 29,660 |  | 301, 658 |
| Industrial buildings | 19, 965 | 20,387 | 33,6322,569 | 21, 172 | $\begin{array}{r} 27,068 \\ 276 \\ -546 \end{array}$ |  |  | 26, 233 | 26, 899 | $\begin{array}{r} 42,340 \\ 32,910 \end{array}$ |  | $\begin{array}{r} 17,403 \\ 803 \\ 2.250 \end{array}$ | $\begin{array}{r} 33,534 \\ \mathbf{1 , 6 4 2} \\ 7,063 \end{array}$ | 3100, 028 <br> 19, 839 | $\begin{array}{r} 22,230 \\ 26,098 \\ 58,139 \end{array}$ |
| New England | 1,445 | 1,483 |  | -1914 |  | $\begin{array}{r} 24,006 \\ 3,526 \\ 5,155 \end{array}$ | $\begin{array}{r} 32,802 \\ 2,365 \\ 4,938 \end{array}$ | $\begin{aligned} & 2,360 \\ & 8,375 \end{aligned}$ | 9717,518 |  | $\begin{array}{r} 16,883 \\ 1,051 \end{array}$ |  |  |  |  |
| Middle Atlantic. | 5, 083 | 7, 347 | 4,955 |  | $\begin{array}{r} 546 \\ \mathbf{7}, 243 \end{array}$ |  |  |  |  |  | 3, 699 |  |  |  |  |
| East North Centra | 7, 601 | 4,393 | 8,137 | 9, 423 | 9,5111,958 | 9, 217 | 15, 602 | 7,908 | 3,081 | 9,5131,728 | 3,859 | 5, 977 | 10, 137 | 100,03416,058 |  |
| West North Centra | 996 | 882 | 822 |  |  | 713 | 2,0392,159 |  |  |  | 1,2051,640 |  |  |  | 118,667 19,890 |
| South Atlantic. | 1, 454 | 2, 010 | 6,972 | $\begin{array}{r} 1,262 \\ 1,507 \\ \hline \end{array}$ | 1,670 | 1,180 |  | 1,496 | 1,519 | 4,469 |  | 971 | 3,851 | 27,776 | $\begin{array}{r} 20,549 \\ 13,426 \\ 17,519 \\ 2,852 \end{array}$ |
| East South Central- | 843 | 458 | 1,506 |  | 1,023 | 452 | 1,465 | 691 | 225 | 1,088 | 330 | 466 | 1,489 | 27,776 9,054 |  |
| West South Central | 244 | 786 | 1,431 | 980 | 1,799 | 1,836 | 1,023 | 1,316 | 760 | 2, 409 | 1,637 | 1,641 | 2, 666 | 15, 864 |  |
| Mountain | 380 |  | 6,827 | 3,876 | 120 |  | 248 | 147 | 79 | 383 | 119 | 380 | 181 | 2, 770 |  |
| Pacific | 1,919 | 2,959 |  |  | 3,198 | 2, 243 | 2, 993 | 2, 943 | 3,484 | 4,691 | 3, 343 | 3,568 | 4, 724 | 42, 044 | 45, 090 |
| Commercial building | 54, 107 | 66, 848 | 84, 895 | 93, 956 | 79,526 | 92, 057 | 82,407 | 84, 424 | 83, 852 | 82, 366 | 47,315 | 72, 617 | 65, 621 | 927, 005 | 686, 282 |
| New England.- | 2, 692 | 3,918 | 2, 453 | 5,688 | 4, 718 | 5,780 | 7,307 | 3,275 | 3,401 | 2,547 | 1, 2571 | 12,431 | 1,804 | 55, 468 | 32, 853 |
| Middle Atlantic... | 6720 11,498 | 13,002 11,907 | 15,091 23,614 | 10,913 20,923 | 12, 884 | 13, 177 | 13,508 17,903 | 10,550 | 11, 506 | 12,753 | 5,411 | 5, 412 10,188 | 13, 252 | 132, 963 | 91, 206 |
| West North Central. | 4, 172 | 3,666 | 10,263 | 9,390 | 7,128 | 6,575 | 4,647 | 6,022 | 15, 5 , 692 | 8, 286 | 2,586 | 5,171 | 6,885 | 177, 7220 | 118,839 57,240 |
| South Atlantic. | 8,126 | 9, 261 | 8,789 | 10, 954 | 10, 426 | 13, 501 | 10,361 | 11, 923 | 13,498 | 9,118 | 8,170 | 7,445 | 7,849 | 121, 570 | 106, 788 |
| East South Centra] | 2, 674 | 3,192 | 3,016 | 3, 502 | 3,864 | 3, 202 | 3, 232 | 3, 375 | 3,891 | 3, 245 | 2,027 | 4, 172 | 1,978 | 39,391 | 34,680 |
| West South Central | 6,804 | 10,684 | 8,342 | 17, 793 | 7,076 | 12, 324 | 8,120 | 13, 455 | 10,441 | 10,917 | 8, 062 | 12, 036 | 8,705 | 126, 056 | 91, 548 |
| Mountain | 1,414 | 1,523 | 2,640 | 2,183 | 4,965 | 4, 192 | 2,761 | 3,275 | 3,747 | 4, 998 | 2, 093 | 1,484 | 1,651 | 35, 274 | 26, 855 |
| Pacific | 10, 007 | 9,695 | 10,687 | 12,610 | 12,740 | 16,132 | 14,568 | 17, 889 | 16,478 | 20, 492 | 9, 818 | 14, 278 | 11,879 | 165, 361 | 126, 273 |
| Community buildings ${ }^{7}$ | 64, 612 | 54, 177 | 82, 884 | 66, 899 | 57,046 | 67, 786 | 66, 074 | 66, 775 | 51,410 | 78,226 | 58, 666 | 34, 404 | 50, 004 | 762, 233 | 406, 920 |
| New England | 1, 051 | 1,741 | 4, 404 | 1,580 | 4,137 | 3, 443 | 8,780 | 3,457 | 4,255 | 3,477 | 1,465 | 5, 044 | 938 | 45, 440 | 25, 759 |
| Middle Atlantic...- | 12, 982 | 7,279 | 20, 166 | 11, 588 | 9,125 | 8,658 | 8,753 | 26, 082 | 4,373 | 32,780 | 10, 048 | 666 | 20,629 | 152, 364 | 80, 190 |
| East North Central | 10, 414 | 11, 143 | 16, 034 | 11, 429 | 13, 394 | 21,303 | 14, 105 | 10, 354 | 13,954 | 8,707 | 10, 989 | 2, 623 | 4, 336 | 146, 405 | 62,542 |
| West North Central. | 4, 289 | 4, 243 | 7,798 | 2,589 | 3, 521 | 2, 736 | 3,994 | 2, 528 | 2,665 | 3,796 | 11, 998 | 787 | 7, 752 | 51, 448 | 34, 639 |
| South A tlantic-... | 4,316 | 4, 437 | 5,471 | 7,832 | 3, 869 | 10,567 | 6, 508 | 2,887 | 4,761 | 9, 623 | 3,341 | 7,570 | 3,628 | 73, 936 | 40,172 |
| East South Central. | 3, 668 | 1,215 | 8,459 | 3, 906 | 2,409 | 2,294 | 2,591 | 2,931 | 1,243 | 1,134 | 675 | 1,757 | 3,257 | 35, 926 | 16, 913 |
| West South Central_ | 8, 420 | 11, 206 | 3,531 | 4,595 | 4,481 | 9,545 | 8,835 | 7,999 | 7,359 | 6,463 | 16,591 | 11, 007 | 4,313 | 101, 975 | 65, 309 |
| Mountain. | 1,197 | 756 | 2,113 | 14, 175 | 2, 578 | 2,825 | 566 | 3, 907 | 1,298 | 2,778 | 608 | 409 | 1,270 | 33, 378 | 18,366 |
| Pacific | 17,675 | 12,157 | 14,908 | 9, 205 | 13, 532 | 6,415 | 11, 942 | 6, 630 | 11,501 | 9,468 | 2,950 | 3,641 | 3,881 | 121, 361 | 63, 030 |
| Public buildings | 4, 420 | 1,938 | 4,452 | 6, 201 | 5,155 | 5, 629 | 14, 736 | 4,296 | 5,508 | 7,055 | 5,323 | 5,577 | 4,556 | 70, 633 | 41,049 |
| New England | 300 |  | 453 | 166 | 100 |  | 613 |  | 121 | 455 | 1,250 | 2, 289 | 502 | 5, 900 | 3, 418 |
| Middle Atlantic. | 194 | 140 | 640 | 1,259 | ${ }_{4} 498$ | 337 | 2,463 | 1,147 | 659 | 488 | 112 | 214 | 219 | 8, 151 | 4, 712 |
| East North Central | 15 | 136 | 15 | 14 | 3,385 | 3,700 | 1,276 | 101 | 475 | 848 | 568 | 684 | 900 | 11, 173 | 8,372 |
| West North Central_ | 215 | 251 |  | 45 | 138 | 36 | 754 | , | 1,500 | 124 | 77 | 535 | 200 | 3,974 | 1,696 |
| South Atlantic | 1,226 | 489 | 633 | 1,441 | 47 | 913 | 1,449 | 91 | 648 | 394 | 349 | 30 | 92 | 7,712 | 6, 285 |
| East South Central- | 721 | 80 | 961 | 1,280 | 0 | 0 | 1,029 | 413 | 209 | 3,374 | 417 | 206 | 150 | 8,936 | 830 |
| West South Central_ | 364 | 211 | 121 | 782 | 260 | 286 | 1,467 | 333 | 203 | 486 | 566 | 1,023 | 551 | 6, 113 | 4, 579 |
| Mountain. | 803 | 260 | 37 | 877 | 73 | 68 | 475 | 36 | 341 | 61 | 259 | 113 | 180 | 3, 605 | , 416 |
| Pacific---.----- | 439 | 364 | 1,567 | 337 | 654 | 234 | 5,210 | 2, 059 | 1,352 | 814 | 1,725 | 483 | 1,762 | 15, 069 | 8,741 |
| Public works and utility buildings 9 | 9,247 | 11,854 | 11,95 | 15, 425 | 11,870 | 17,846 | 9,30 |  | 15,639 | 12,71 | 7,483 | 16,284 | 16,942 |  |  |
| New England | 1,584 | 11,871 | 11,455 | 15, 273 | $\begin{array}{r}11,890 \\ \hline 1,588\end{array}$ | 1,736 | 530 | 10,19 | 15, 581 | 12, 309 | 7, 75 | 16,284 5,113 | 1,092 | 11, 438 | 15, 085 |
| Middle A tlantic. | 1,028 | 262 | 1,423 | 1,280 | 1,586 | 1,923 | 1,252 | 3, 045 | 1,839 | 1,784 | 671 | 365 | 576 | 16,589 | 24,968 |
| East North Central. | 1, 339 | 2,148 | 2, 274 | 9,801 | 3,584 | 3,279 | 2,549 | 1,094 | 2,692 | 2, 889 | 2,481 | 1,649 | 1,211 | 35, 809 | 35, 972 |
| West North Central- | 223 | 620 | 2,327 | 325 | 3,103 | 882 | 1,082 | 1, 055 | 701 | 1,762 | 459 | 1,035 | 1, 803 | 13, 574 | 8,737 |
| South Atlantic. | 787 | 893 36 | 779 534 | 1,946 | 389 | 7,845 | 3,051 | 2, 572 | 1,556 | 592 | 670 | 1,125 | 5,347 | 22, 203 | 19,046 |
| West Eouth Central | 1,044 | 2,241 | 2,241 | 579 | 814 | 193 | 11 |  | 315 | 702 | 325 | 410 | 1307 |  | 4,154 |
| Mountain | 131 | 148 |  | 139 | 334 | 1,494 |  |  | 2, 238 | 155 | 575 | 14 50 | 1, 2491 | 12, 811 | 7,647 |
| Pacific. | 3, 108 | 5,135 | 1,853 | 812 | 1,306 | 285 | 501 | 1,525 | 5,618 | 3, 834 | 2,019 | 5,723 | 4,866 | 31, ${ }^{2} \mathbf{0} 5$ | 3,520 24,695 |
| All other buildings | 6,508 | 9,973 | 12, 303 | 12, 276 | 13, 002 | 11,893 | 14,607 | 13,724 | 12,787 | 9, 293 | 5,518 | 5,751 | 6,729 |  | 24, 695 |
| New England | 420 | 766 | 984 | 12, 955 | ${ }^{1} 741$ | 11,800 | 14, 917 | 12, 841 | 12,950 | 962 | -138 | ${ }^{109}$ | 6, 329 | 128,835 7,981 15, | 112, 512 |
| Middle Atlantic | 931 | 1,154 | 1,565 | 1,598 | 1,478 | 1,502 | 1,517 | 1,698 | 1,443 | 1,142 | 555 | 398 | 830 | 15,128 | 13,412 |
| East North Central. | 1,193 | 2,529 | 3,495 | 3,667 | 3,769 | 3,044 | 3,797 | 3, 361 | 3,501 | 1,646 | 670 | 647 | 982 | 32, 430 | 27, 556 |
| West North Central. | 552 | 800 | 1,388 | 1,265 | 1,179 | 1,172 | 1,155 | 1,540 | 1,346 | 738 | 241 | 314 | 587 | 11,691 | 9, 961 |
| South Atlantic. | 513 | 788 | 767 | 766 | 704 | 899 | 1,405 | 776 | 858 | 1,071 | 392 | 450 | 547 | 9,390 | 7, 213 |
| East South Central - | 167 | 217 | 272 | 243 | 488 | 251 | 353 | 302 | 293 | 359 | 154 | 141 | 164 | 3,240 | 3,006 |
| West South Central- | 397 | 550 | 810 | 658 | 854 | 480 | 552 | 812 | 943 | 585 | 369 | 600 | 447 | 7,606 | 6,618 |
| Mountain | 214 | 505 | 428 | 549 | 497 | 419 | 371 | 451 | 536 | 349 | 172 | 325 | 286 | 4,817 | 4,153 |
| Pac | 2, 121 | 2, 669 | 2,594 | 2, 575 | 3,292 | 3,326 | 4,540 | 3,943 | 2,917 | 3, 041 | 2, 827 | 2,767 | 2, 557 | 36, 552 | 33, 829 |

[^64]6 Includes amusement and recreation buildings, stores and other mercantile buildings, commercial garages, gasoline and service stations, etc.
${ }^{7}$ Includes churches, hospitals, and other institutional buildings, schools, ibraries, etc.
Includes Federal, State, county, and municipal buildings, such as post offices, courthouses, city halls, fire and police stations, jails, prisons, arsenals, armories, army barracks, etc
${ }^{9}$ Includes railroad, bus and airport buildings, roundhouses, radio stations, gas and electric plants, public comfort stations, etc.
${ }^{10}$ Includes private garages, sheds, stables and barns, and other bulldings
not elsewhere classified. not elsewhere classified.

Table F-5: Number and Construction Cost of New Permanent Nonfarm Dwelling Units Started, by Urban or Rural Location, and by Source of Funds ${ }^{1}$

| Period | Number of new dwelling units started |  |  |  |  |  |  |  |  | Estimated construction cost (in thousands) ? |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | All units |  |  | Privately financed |  |  | Publicly financed |  |  |  |  |  |
|  | $\underset{\text { Total }}{\text { Tonfarm }}$ | Urban | $\begin{gathered} \text { Rural } \\ \text { nonfarm } \end{gathered}$ | Total nonfarm | Urban | Rursl nonfarm | Total nonfarm | Urban | $\begin{gathered} \text { Rural } \\ \text { nonfarm } \end{gathered}$ | Total | Privately financed | Publicly financed |
|  | $\begin{array}{r} 937,000 \\ 93,000 \\ 760,100 \\ 141,800 \\ 670,500 \\ 849,000 \end{array}$ | $\begin{array}{r} 752,000 \\ 45,000 \\ 434,300 \\ 96,200 \\ 403,700 \\ 479,800 \end{array}$ | $\begin{array}{r} 185,000 \\ 48,000 \\ 271,800 \\ 45,600 \\ 266,800 \\ 369,200 \end{array}$ | $\begin{array}{r} 937,000 \\ 93,000 \\ 619,511 \\ 138,692 \\ 662,473 \\ 845,560 \end{array}$ | $\begin{array}{r} 752,000 \\ 45,000 \\ 36,499 \\ 93,216 \\ 39,213 \\ 476,360 \end{array}$ | $\begin{array}{r} 185,000 \\ 48,000 \\ 250,012 \\ 45,476 \\ 256,800 \\ 369,200 \end{array}$ | $\begin{array}{r} 0 \\ 0 \\ 86,589 \\ 3,108 \\ 8,027 \\ 3,440 \end{array}$ | $\begin{array}{r} 0 \\ 0 \\ 64,801 \\ 2,984 \\ 8,027 \\ 3,440 \end{array}$ | $\begin{array}{r} 0 \\ 0 \\ 21,788 \\ 124 \\ 0 \\ 0 \end{array}$ | $\begin{array}{r} \$ 4,475,000 \\ 285,446 \\ 2,825,895 \\ 395,054 \\ 3,769,767 \\ 5,642,798 \end{array}$ | $\begin{array}{r} \$ 4,475,000 \\ 285,446 \\ 2,530,765 \\ 483,231 \\ 3,713,776 \\ 5,617,425 \end{array}$ | $\begin{array}{r} 0 \\ 0 \\ \$ 295,130 \\ 11,823 \\ 55,991 \\ 25,373 \end{array}$ |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1947: First quarter January February March.... | 138, 100 <br> 39,300 42,800 <br> 56, 000 | 81, 000 <br> 24, 200 <br> 25,000 31,800 | 57, 100 15,100 <br> 24, 200 | 137,01638,21642,80056,000 | $\begin{aligned} & 79,916 \\ & 23,16 \\ & 25,000 \\ & 31,800 \end{aligned}$ | 57, 100 <br> 15, 100 <br> 17,800 24,200 | $\begin{array}{r} 1,084 \\ 1,084 \\ 0 \\ 0 \end{array}$ | $\begin{array}{r} 1,084 \\ 1,084 \\ 0 \\ 0 \end{array}$ | 00000 | $\begin{aligned} & 808,263 \\ & 223,577 \\ & 244,425 \\ & 340,261 \end{aligned}$ | $\begin{aligned} & 800,592 \\ & 21,596 \\ & 244,425 \\ & 340,261 \end{aligned}$ | 7,6717,67100 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| Second quar | 217, 200 67, 100 72,90077,200 | 119, 100 37,60039 42, 200 | $\begin{aligned} & 98,100 \\ & 29,500 \\ & 33,600 \\ & 35,000 \end{aligned}$ | 217,000 <br> 67, 100 <br> 77, 000 | 118,900 <br> 37,600 <br> 39,000 42,00 | 98,10029,50033,60035,000 | 20000200 | $\begin{array}{r} 200 \\ 0 \\ 0 \\ 200 \end{array}$ | 0000 | $\begin{array}{r} 1,361,677 \\ 418,451 \\ 452,236 \\ 490,990 \end{array}$ | $\begin{array}{r} 1,360,477 \\ 418,451 \\ 452,236 \\ 489,790 \end{array}$ | $\begin{array}{r} 1,200 \\ 0 \\ 0 \\ 1,200 \end{array}$ |
| April |  |  |  |  |  |  |  |  |  |  |  |  |
| May |  |  |  |  |  |  |  |  |  |  |  |  |
| June |  |  |  |  |  |  |  |  |  |  |  |  |
| Third quarte | 261, 200 <br> 81, 100 <br> 93, 800 | 142, 200 44, 500 47, 400 50,300 | 119, 000 <br> 36, 600 <br> 38,900 43,500 | 260, 733 <br> 81,100 86,108 <br> 93, 525 | 141, 733 <br> 44, 208 <br> 50, 025 | 119, 000 <br> 36, 600 <br> 38,900 43,500 | $\begin{array}{r} 467 \\ 0 \\ 192 \\ 275 \end{array}$ | $\begin{array}{r} 467 \\ 0 \\ 192 \\ 275 \end{array}$ | 0000 | $\begin{array}{r} 1,774,150 \\ 539,333 \\ 589,470 \\ 645,347 \end{array}$ | $\begin{array}{r} 1,770,475 \\ 539,333 \\ 57,742 \\ 643,400 \end{array}$ | $\begin{array}{r} 3,675 \\ 0 \\ 1,728 \\ 1,947 \end{array}$ |
| July--- |  |  |  |  |  |  |  |  |  |  |  |  |
| August |  |  |  |  |  |  |  |  |  |  |  |  |
| Septemb |  |  |  |  |  |  |  |  |  |  |  |  |
| Fourth quarte | 232,500 <br> 94, 000 <br> 79,700 58,800 | 137, 500 <br> 53, 200 <br> 48, 000 | $\begin{aligned} & 95,000 \\ & 40,800 \\ & 31,700 \\ & 22,500 \end{aligned}$ | $\begin{array}{r} 230,811 \\ 93,540 \\ 78,835 \\ 58,436 \end{array}$ | $\begin{array}{r} 135,811 \\ 52,740 \\ 47,135 \\ 35,936 \end{array}$ | 95,000 40, 800 32,70022,500 | $\begin{array}{r} 1,689 \\ 460 \\ 865 \\ 364 \end{array}$ | $\begin{array}{r} 1,689 \\ 460 \\ 865 \\ 364 \end{array}$ | 0000 | $\begin{array}{r} 1,698,708 \\ 678,687 \\ 584,781 \\ 435,290 \end{array}$ | $\begin{array}{r} 1,685,881 \\ 675,197 \\ 578,324 \\ 432,360 \end{array}$ | 12,8273,4906,4072,930 |
| October.- |  |  |  |  |  |  |  |  |  |  |  |  |
| November |  |  |  |  |  |  |  |  |  |  |  |  |
| December |  |  |  |  |  |  |  |  |  |  |  |  |
| 1948: First quarter. January February March |  | 101, 200 <br> 30, 400 <br> 28, 8000 <br> 42,000 | 76, 100 22, 200 20, 800 | 174, 996 <br> 51, 776 <br> 48, 445 <br> 74, 775 | 99,05229,603 27, 774 41, 675 | 75, 944 22, 173 20,67133,100 | $\begin{array}{r} 2,304 \\ 824 \\ 1,155 \\ 325 \end{array}$ | $\begin{array}{r} 2,148 \\ 797 \\ 1,026 \\ 325 \end{array}$ | $\begin{array}{r} 156 \\ 27 \\ 129 \\ 0 \end{array}$ | $\begin{array}{r} 1,287,460 \\ 372,657 \\ 363,421 \\ 551,382 \end{array}$ | $\begin{array}{r} 1,268,661 \\ 365,886 \\ 354,218 \\ 548,557 \end{array}$ | 18, 799 <br> 6,771 <br> 9,203 2,825 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| Second quarte | 295. 700 <br> 98,800 <br> 99,400 97,500 | 165, 500 <br> 54,400 <br> 54, 400 | 130, 200 44, 400 42, 700 43.100 | $\begin{array}{r} 291,828 \\ 97,518 \\ 97,902 \\ 96,408 \end{array}$ | $\begin{array}{r} 163,812 \\ 54,156 \\ 55,693 \\ 53,963 \end{array}$ | $\begin{array}{r} 128,016 \\ 43,362 \\ 42,209 \\ 42,445 \end{array}$ | $\begin{aligned} & 3,872 \\ & 1,282 \\ & 1,498 \\ & 1,092 \end{aligned}$ | $\begin{array}{r} 1,688 \\ 244 \\ 1,007 \\ 437 \end{array}$ | $\begin{array}{r} 2,184 \\ 1,038 \\ 491 \\ 655 \end{array}$ | $\begin{array}{r} 2,246,248 \\ 729,713 \\ 753,661 \\ 762,874 \end{array}$ | $\begin{array}{r} 2,210,485 \\ 717,996 \\ 799,605 \\ 752,884 \end{array}$ | $\begin{array}{r} 35,763 \\ 11,717 \\ 14,056 \\ 9,990 \end{array}$ |
| April |  |  |  |  |  |  |  |  |  |  |  |  |
| May |  |  |  |  |  |  |  |  |  |  |  |  |
| June |  |  |  |  |  |  |  |  |  |  |  |  |
| Third quart | 262,000 93,500 <br> 86, 300 <br> 82, 200 | 143, 250 51, 600 47,40044,250 | 118,75041,90038,90037,950 | $\begin{array}{r} 257,549 \\ 92,237 \\ 84,863 \\ 80,449 \end{array}$ | 139, 320 50, 357 42, 500 | 118, 229 <br> 41, 880 <br> 38,400 37,949 | $\begin{aligned} & 4,451 \\ & 1,263 \\ & 1,437 \\ & 1,751 \end{aligned}$ | $\begin{aligned} & 3,930 \\ & 1,243 \\ & 937 \\ & \mathbf{1}, 750 \end{aligned}$ | $\begin{array}{r} 521 \\ 20 \\ 500 \\ 1 \end{array}$ | $\begin{array}{r} 2,099,489 \\ 738,232 \\ 716,972 \\ 644,285 \end{array}$ | $\begin{array}{r} 2,054,651 \\ 726,333 \\ 701,343 \\ 626,975 \end{array}$ | 44, 838 <br> 11, 899 15,629 17,310 <br> 11, 899 15,629 17,310 |
| July--- |  |  |  |  |  |  |  |  |  |  |  |  |
| August... |  |  |  |  |  |  |  |  |  |  |  |  |
| September |  |  |  |  |  |  |  |  |  |  |  |  |
| Fourth quarter | 193,00072,00065,00056,000 | $\begin{gathered} (9) \\ (9) \\ (9) \end{gathered}$ | $\begin{aligned} & \hline \text { (9) } \\ & \text { (1) } \\ & \text { (9) } \end{aligned}$ | (9)(6)(9) | $\begin{aligned} & (9) \\ & (9) \\ & (9) \end{aligned}$ | (9)$(9)$$(9)$$(9)$ | (9)(9)(9) | $\begin{aligned} & \text { (9) } \\ & \text { (9) } \\ & \text { (9) } \end{aligned}$ |  | $\begin{array}{r} 1,512,407 \\ 564,117 \\ 509,901 \\ 438,389 \end{array}$ | $\begin{aligned} & (9) \\ & (9) \\ & (9) \end{aligned}$ | $\begin{aligned} & (9) \\ & (9) \\ & (9) \end{aligned}$ |
| October ${ }^{8}$ |  |  |  |  |  |  |  |  | (9) |  |  |  |
| November ${ }^{8}$ |  |  |  |  |  |  |  |  | (9) |  |  |  |
| December |  |  |  |  |  |  |  |  | ${ }^{(9)}$ |  |  |  |

${ }^{1}$ The estimates shown here do not include temporary units, conversions, dormitory accommodations, trailers, or military barracks. They do include prefabricated housing units.

These estimates are based on building-permit records, which, beginning with 1945, bave been adjusted for lapsed permits and for lag between permit issuance and start of construction. They are based also on reports of Federal construction contract awards and beginning in 1946, on fleld surveys in construction contract awards and beginning in 1946, on field surveys in
nonpermit-issuing places. The data in this table refer to nonfarm dwelling units started, and not to urban dwelling units authorized, as shown in table F-3.

All of these estimates contain some error. In 1948, for example, if the estimate of nonfarm starts is 50,000 , the chances are about 19 out of 20 that an actual enumeration would produce a figure between 47,600 and 52,400. In 1846 and 1947, the range of error was approsimately twice as large. The
reduction was achleved by improvements in estimating and survey techniques.
${ }^{2}$ Private construction costs are based on permit valuation, adjusted for understatement of costs shown on permit applications. Public construction costs are based on contract values or estimated construction costs for individual projects.
${ }_{8}$ Housing peak year.
Depression, low year.
${ }^{6}$ Recovery peak year prior to wartime limitations.

- Last full year under wartime control.
${ }_{8}{ }^{5}$ Revised.
8 Preliminary.
8 Not available
jitized for FRASER
s:///fraser.stlouisfed.org


[^0]:    ${ }^{1}$ Of the Bureau's Branch of Employment Statistics.

[^1]:    ${ }^{1}$ The postwar peak employment month for each industry was: Cotton manufactures, March 1948; woolen and worsted manufactures, December 1946; boots and shoes, February 1948; rubber tires and inner tubes, November 1946; refrigerators and refrigeration equipment, June 1948; radios and phonographs, recember 1946; washing machines, wringers, and driers, domestic, February 1948; furniture, February 1948; stoves, oil burners, and heating equipment, November 1947.

[^2]:    ${ }^{1}$ Of the Office of Foreign Labor Conditions.
    ${ }^{2}$ Labor force includes all those at work, or available for and seeking work, or in the armed forces except indoor private domestics. Civilian labor force excludes the armed forces.

[^3]:    ${ }^{3}$ Cmd. 6527. Presented by the Minister of Reconstruction to Parliament, May 1944.

[^4]:    ${ }^{4}$ See Monthly Labor Review, November 1947, (pp. 568-9), and December 1947 (pp. 683-4).
    ${ }^{5}$ Coal miners have greatly improved their wage rates over prewar, and the National Coal Board is extending welfare facilities as fast as is consistent with other urgent demands of the economy. Preference is being given in new housing for coal miners and agricultural workers. The textile industry group has led 16 industry groups in the percentage increase in earnings between October 1938 and April 1948. Earnings of women in textiles are now above the all-industry average.

[^5]:    6 Within the last 3 years, the development areas greatly improved their employment position compared to prewar and to the country as a whole. Many Government munitions plants in these areas were turned over to private industry and by June 1948, 443 new factory buildings had been completed. Although 100,000 insured people in these areas were out of work in June 1948, the number employed in the development areas was estimated at 250,000 more than in 1939. Some 105,000 of the new jobs were attributed to industrial developments introduced by Government plan.

[^6]:    Source: Monthly Digest of Statistics, Central Statistical Office, London,

[^7]:    ${ }^{7}$ Whereas men in 16 industry groups averaged 47.7 hours a week in October 1938 and 52.9 in July 1943, in April 1948 they averaged 46.5. Women averaged 4 hours less a week both in 1938 and 1948, and 7 hours less than men in 1943.

[^8]:    ${ }^{8}$ See also British Labor under the Labor Government, Part II, in Monthly Labor Review for October 1948 (p. 366) and reprint Serial No. R-1930.

[^9]:    ${ }^{1}$ By Lawrence R. Klein and Witt Bowden, members of the Bureau's staff. The authors are listed in the order in which their respective contributions appear in the accompanying excerpts. Major authorship for the volume as a whole was Mr. Bowden's.

[^10]:    ${ }^{1}$ Third Annual Report to the President by the Council of Economic Advisers. Washington, December 1948.
    ${ }^{2}$ For a summary of the act, see Monthly Labor Review, A pril 1946 (p. 586).

[^11]:    ${ }^{3}$ The Economic Report of the President to the Congress, January 7, 1949, together with a report, The Annual Economic Review, January 1949, by the Council of Economic Advisers. Washington 1949.

[^12]:    ${ }^{4}$ Message of the President to Congress on the State of the Union, White House releaṣe, January 5, 1949.

[^13]:    ${ }^{1}$ Bulletin No. 908. For a summary of two other chapters from this bulletin, see Monthly Labor Review for November 1948 (p. 487). Individual chapters are released as they are completed.

[^14]:    Company Reserves "Customary and Usual Rights, Powers, Functions, and Authority of Management" Except as Abridged or Modified by Agreement.

    It is understood and agreed that the Company has all the customary and usual rights, powers, functions and authority of management.

    Any of the rights, powers, functions or authority which the Company had prior to the signing of this agreement, or any agreement with the Union, including those in respect of rates of pay, hours of employment or conditions of work, are retained by the Company, except as those rights, powers, functions or authority are specifically abridged or modified by this agreement or by any supplement to this agreement arrived at through the process of collective bargaining.

[^15]:    Management Actions not to Confict With Agreement nor Discriminate Against Union Members. Enumeration of Rights not to Exclude Others not Listed.

[^16]:    Management Right to Issue and Enforce Rules Subject to Union Appeal. Rules in Force Pending Adjustment or Arbitration.

    The promulgation and enforcement of rules and regulations not inconsistent with the provisions of this Agreement are vested in the Employer, provided that if the Union deems any such rule or regulation to be inconsistent with the provisions of this Agreement it shall so notify the Employer, and the Employer shall, within twenty-four (24) hours of notice to such effect either withdraw the rule or regulation or submit it to settlement by the adjustment procedure provided for under Article * * * of Section * * * of this Agreement [Arbitration], but the rule or regulation shall remain and [is] enforceable pending such settlement.

[^17]:    ${ }^{1}$ By Albert S. Epstein, statistician, International Association of Machinists.
    ${ }^{2} \mathrm{Mr}$. Epstein described the IAM agreement analysis card in the Monthly Labor Review for July 1947 (p. 75).

[^18]:    ${ }^{1}$ Prepared by Toivo P. Kanninen of the Bureau's Division of Wage Analysis. Data were collected by field representatives under the direction of the Bureau's regional wage analysts. Greater detail on wages and wage practices for each area included in the study is available on request.
    ${ }^{2}$ The number of production areas studied, and estimated employment in the areas in October 1948, were: full-fashioned hosiery, 5 areas, 30,000 workers; men's seamless hosiery, 3 areas, 11,300 workers; and children's seamless hosiery, 2 areas, 3,000 workers. Mills employing less than 21 workers were excluded from the study.

[^19]:    ${ }^{1}$ Prepared in the Bureau of Labor Statistics by Willis C. Quant under the direction of Joseph W. Bloch. For purpose and scope of wage chronology series, see Monthly Labor Review, December 1948. Reprints of chronologies are available upon request.

[^20]:    ${ }^{1}$ Data pertain to bit sharpeners, car droppers, trimmers, car repairmen, dumpers, sand dryers, car cleaners, slate pickers, and other able-bodied labor, and do not necessarily cover other outside workers paid on a day basis. The tabulation does not take into account variations provided by district agreements.
    ${ }_{2}$ The schedule of mine operation provided in master agreements does not represent a guarantee of the stipulated hours or days of work.
    ${ }^{3}$ Includes mines in Maryland, Virginia, southern and upper Potomac

[^21]:    district of West Virginia, eastern Kentucky, and northern Tennessee.
    ${ }^{4}$ Data pertain to motormen, rock drillers, drivers, brakemen, spraggers, trackmen, wiremen, bonders, timbermen, bottom cagers, coal drillers, snappers, trackmen helpers, wiremen helpers, greasers, trappers, flaggers, switch throwers, and other inside labor not classified. Mobile loading equipment operators covered by changes after 1941. The tabulation does not take into account variations provided by district agreements.

[^22]:    4 Retroactive claims for portal-to-portal pay were adjusted by payment of $\$ 40$ to each eligible worker employed from Apr. 1, to June 20,1943, and a pro rata amount for less than continuous employment during this period

[^23]:    1 Prepared by Toivo P. Kanninen of the Bureau's Division of Wage Analysis. Data were collected by field representatives under the direction of the Bureau's regional wage analysts. Greater detail on wages and wage practices for each wage area included in the study is available upon request.
    The study covered the manufacture of selected types of footwear in 13 major production areas. Approximately 65,000 workers were employed in October 1948 in the industry divisions covered. Establishments employing less than 21 workers were excluded from the study.

[^24]:    ${ }^{1}$ Prepared by Annette Simi of the Bureau's Wage Analysis Division. Additional data, including a listing of union scales by commodity classification and type of truck, by city, will be presented in a forthcoming bulletin.

[^25]:    ${ }^{2}$ Information is based on effective union scales as of July 1, 1948, covering 235,394 motortruck drivers and 34,682 helpers engaged in local city trucking in 77 cities. Data were primarily obtained from regional representatives of the International Brotherhood of Teamsters, Chauffeurs, Warehousemen, and Helpers of America (AFL); in some cities they were secured from local union officials by Bureau field repressentatives. Over-the-road drivers and local city drivers paid on a mileage or commission basis were excluded from the study.
    Union scales are defined as the minimum wage rates or maximum schedule of hours agreed upon through collective bargaining by employers and tradeunions. Rates in excess of the agreed minimum which may be paid to union members because of long service, special qualifications, or other reasons are not included.
    ${ }^{3}$ A verages are based on all rates reported for the current year; individual rates are weighted by the number of union members working at the rate. They are not an exact measure for time-to-time comparisons because of change in the classifications studied and in union membership.
    ${ }^{4}$ In the index series designed to show wage-rate trends over a period of years, year-to-year changes in union scales are based on comparable quotations for each trade weighted by the membership for the current year.

[^26]:    ${ }^{5}$ As partial information only is available on wage changes since July 1, 1948, no attempt has been made to estimate their effect on rate levels in this report.

[^27]:    ${ }^{1}$ First Annual Report of the Director of the Federal Mediation and Conciliation Service for the Fiscal Year Ended June 30, 1948. Washington, 1949.
    For the Director's statement on policies and procedures, see Monthly Labor Review, November 1947 (p. 564).
    ${ }^{2}$ A brief summarization of the national emergency disputes which occurred during the year-i. e., the meat packing, atomic energy, bituminous coal, telephone, maritime, and longshoremen's disputes-is given on pp. 41-54 of the report.

[^28]:    3 Under section 8 (d) of the LMRA, a party to a collective agreement in an industry affecting commerce, which desires to terminate or modify an existing contract, shall give advance notice of 60 days to the other party. Further, within 30 days after written notice has been served upon the other party to the contract, notice shall be given to the Federal Mediation and Conciliation Service and also to any State or Territorial Conciliation agency within the region.

[^29]:    ${ }^{1}$ Prepared by Bernard Mandel of the Bureau's Prices and Cost of Living Division.
    ${ }^{2}$ See Monthly Labor Review, February 1948. (Reprinted in BLS Bulletin No. 927.)
    ${ }^{3}$ The items and quantities for each category of goods and services were determined at the point of maximum income elasticity on the consumption scale, or with reference to scientific standards. See BLS Bulletin No. 927, Workers' Budgets in the United States.
    ${ }^{4}$ A manual describing the details for computing intercity indexes by this formula will be available upon request.

[^30]:    ${ }^{5}$ Relative Differences in the Cost of Equivalent Goods, Rents, and Services in 33 Large Cities, March 1945, Bureau of Labor Statistics, mimeographed release, June 1, 1946. This was the first intercity index published by the Bureau subsequent to the discontinuance in June 1943 of the series released between 1939 and 1943 and entitled "Estimated Intercity Differences in Cost of Living." This older series was based on the estimated cost of the "maintenance budget" as defined and priced by the Works Progress Administration in 1935.

[^31]:    ${ }^{8}$ The use of a regression equation to obtain a single average price for a composite classification of related items is a technique extensively employed as part of the calculation of weighted totals in the budget's food groups. In the detailed budget calculations, multiple correlation analysis was applied in many instances whereby the prices of two or more related items were used to obtain the average price for the composite classification. In applying the regression equation technique to the formula procedure to obtain prices, simple correlation analysis of the price of only one item against the average price of the related food group was used. However, the basic data used in the formula procedure to obtain the regression coefficients of the pricing equation were the same as those used in the budget.

[^32]:    ${ }^{7}$ The form $Y=a+b q p^{\prime}$ assumes that only one composite classification of foods is dealt with. Actually, two or three composite classifications make up a particular food group; for example, low-cost meats, medium-cost meats, and high-cost meats are the three composite classifications which make up the food group "meats, fats, and oils." For the group "meats, fats, and oils," one regression equation of the basic form $Y=a+b X$ was computed. Each composite classification making up this food group has its own quantity weight and estimated average price. Hence, the full notation for this situation would be as follows: $Y=a+b\left(q_{1} p_{1}{ }^{\prime}+q_{2} p_{2}{ }^{\prime}+q_{3} p_{3}{ }^{\prime}\right)$ where the subscripts indicate the separate composite classifications making up a particular food group.
    ${ }^{8}$ Annual degree days are the annual sum of the deviation below $65^{\circ}$ in the daily mean temperature as published by the United States Weather Bureau. The normal number of annual degree days is the average of the number of annual degree days over a period of years.

[^33]:    ${ }^{2}$ The equations for clothing are $Y=0.576+.000086 X$ for the "heavy" classification and $Y=1.212-0.000043 X$ for the "light" classification. By substituting a range of annual degree days from lowest to highest for the $X$ of the equations, it is possible to obtain a corresponding range of adjustment ratios (the Y of the equation) representing deviations from the United States average taken as 1.000 . The equation for fuel is $Y=-384.323+128.156 X$ in which $X$ is the logarithm of degree days and $Y$ is the British thermal units requirement (in millions of British thermal units). By substituting in the equation the logarithm of the normal number of annual degree days ranging from the lowest to the highest, it is possible to compute the corresponding range of British thermal units required. Tables of climatic adjustment factors for clothing and quantities of fuel required for a range of annual degree days have been developed from these equations.

[^34]:    ${ }^{10}$ The Bureau is conducting analyses of the stability of measures of price relationships derived from expenditure studies with particular reference to food classifications. Such research may indicate the need as described above for some similar adjustment of the regression equations for estimating average prices of composite food classifications. As subsequent research provides a basis for improving the regression constants and adjustments used in the formula, all such measures will be revised.
    ${ }^{11}$ In order to simplify the calculations in the food group, the adjustment factor represented by the change in the consumers' price index for "all foods" was applied to the sum of the "a" constants for the food subgroups (cereals and bakery products; meats, fats, and oils; fresh fruits and vegetables; etc.). Since the consumers' price index for all foods is a weighted average of the subgroups, the adjustment in terms of all foods does not differ significantly from an adjustment applied separately to the subgroups.

[^35]:    ${ }^{1}$ Prepared in the Office of the Solicitor, U. S. Department of Labor. The cases covered in this article represent a selection of the significant decisions believed to be of special interest. No attempt has been made to reflect all recent judicial and administrative developments in the field of labor law or to indicate the effect of particular decisions in jurisdictions in which contrary results may be reached, based upon local statutory provisions, the existence of local precedents, or a different approach by the courts to the issue presented.
    ${ }^{2}$ This section is intended merely as a digest of some recent decisions involving the Fair Labor Standards Act and the Portal-to-Portal Act. It is not to be construed and may not be relied upon as interpretation of these acts by the Administrator of the Wage and Hour Division or any agency of the Department of Labor.
    ${ }^{3}$ McComb v. Hunsaker Trucking Contractor (U. S. C. C. A. (5th), December 14, 1948).
    ${ }^{4}$ Oklahoma Press Pub. Co. v. Walling (327 U. S. 186).

[^36]:    ${ }^{5}$ Lincoln Federal Labor Union v . Northwestern Iron \& Metal Co.; Whitaker
    v. State of North Carolina (U. S. Supreme Ct., January 3, 1949).
    ${ }^{-}$See Monthly Labor Review, March 1948 (p. 311).
    ${ }^{7}$ See Monthly Labor Review, May 1948 (p. 540).

[^37]:    ${ }^{8}$ American Federation of Labor v. American Sash \& Door Co. (U. S. Supreme Ct., Jan. 3, 1949). For Arizona supreme court decision, see Monthly Labor Review, April 1948 (p. 420 ).

[^38]:    ${ }^{8}$ LaCrosse Telephone Corp. v. Wisconsin Employment Relations Board (U. S. Supreme Ct., January 17, 1949).
    ${ }^{10}$ Bethlehem Steel Co. v. New York Labor Relations Board (330 U. S. 767).

[^39]:    ${ }^{11}$ In re Sam'l Bingham's Son Mfg. Co. (80 NLRB No. 244,"December 31, 1948).
    ${ }^{12}$ Sax v. NLRB (U. S. C. C. A. (7th) December 15, 1948).

[^40]:    ${ }^{13}$ In re Ohio Power Co. (80 NLRB No. 205, December 17, 1948).
    ${ }^{14}$ In re A. S. Abell Co. ( 80 NLRB No. 16, January 11, 1949).

[^41]:    ${ }^{15}$ In re Prudential Insurance Co. of America ( 81 NLRB No. -, January $-, 1949)$.
    ${ }_{10}$ In re Rowe-Jordan Furniture Corp. (81 NLRB No. -, January -, 1949).

[^42]:    ${ }^{17}$ Rose v. Texas \& New Orleans R. R. Co. (U. S. C. C. A. (5th), December 16, 1948).
    ${ }^{18}$ Oil Workers International Union $\nabla$. Sinclair Refining Co.

[^43]:    ${ }^{10}$ Morris v. Chesapeake \& Ohio Co. (U. S. C. C. A. (7th), December 14, 1948).

[^44]:    ${ }^{20}$ Raulins v. Memphis Union Station Co. (168 F. (2d) 466 (U. S. C. C. A. (6th)).
    ${ }^{21}$ Amalgamated Meat Cutters \& Butcher Workmen of North America, Local No. 64, AFL v. Green (Colo. Supreme Ct., December 6, 1948).

[^45]:    ${ }^{22}$ Denver Milk Producers v. International Brotherhood of Teamsters (116 Colo. 389, 183 P. (2d) 529).
    ${ }^{23}$ Howland v. Local Union, UAW (Mich. Supreme Ct., December 17, 1948).

[^46]:    ${ }^{24}$ United Gas Workers v. Wisconsin Employment Relations Board (Wis. Cir. Ct. Milwaukee Co., December 14, 1948).
    ${ }^{25}$ See Monthly Labor Review, May 1948 (p. 541 ).

[^47]:    Editor's Note.-Correspondence regarding the publications to which reference is made in this list should be addressed to the respective publishing agencies mentioned. Where data on prices were readily available, they have been shown with the title entries.

[^48]:    ${ }_{1}$ New or revised series; not included in Handbook.

[^49]:    ${ }^{1}$ Estimates are subject to sampling variation which may be large in cases Where the quantities shown are relatively small. Therefore, the smaller estimates should be used with caution. All data exclude persons in institutions. Because of rounding, the individual figures do not necessarily add to group totals
    ${ }^{2}$ Census survey week contains legal holiday
    ${ }^{3}$ Total labor force consists of the civilian labor force and the armed forces.
    ${ }^{4}$ Excludes persons engaged only in incidental unpaid family work (less than 15 hours); these persons are classified as not in the labor force.
    the census week pens who had a job or business, but who did not work during the census week because of illness, bad weather, vacation, labor dispute, or because of temporary lay-off with definite instructions to return to work within 30 days of lay-off. Does not include unpaid family workers. Source: U. S. Department of Commerce, Bureau of the Census.

[^50]:    ${ }^{1}$ Estimates include all full- and part-time production and nonproduction workers in manufacturing industries who worked or received pay during the workers in manufacturing industries who worked or received pay during the
    pay period ending nearest the 15th of the month. These estimates have been adjusted to levels indicated by Federal Security Agency data through 1946

[^51]:    ${ }^{1}$ Revised data in all except the first three columns are identified by an asterisk for the first month's publication of such data. Comparable series, January 1943 to date, are available upon request to U. S. Department of Labor or cooperating State agency. See table A-5 for addresses of cooperating State agencies.

[^52]:    ${ }^{1}$ Data are based upon reports from cooperating establishments covering both full- and part-time production and related workers who worked or received pay during the pay period ending nearest the 15 th of the month. Major industry groups have been adjusted to levels indicated by Federal Security Agency data through 1946 and have been carried forward from 1946 bench-mark levels, thereby providing consistent series. Data shown for the three most recent months are subject to revision without notation. Revised figures in any column other than the first three are identified by an asterisk for the first month's publication of such data.

    Estimates for the individual industries comprising the major industry groups have been adjusted to levels indicated by Federal Security Agency

[^53]:    ${ }^{1}$ Employment represents an average for the year or is as of the first of the month. Data for the legislative and judicial branches and for all Government corporations except the Panama R. R. Co. are reported directly to the Bureau of Labor Statistics. Data for the executive branch and for the Panama R. R. Co. are reported through the Civil Service Commission but differ from those published by the Civil Service Commission in the following respects: (1) Exclude seamen and trainees who are hired and the by private respects. (1) Erais steamship companies having contracts with the Maritime commission, included by substitute rura, mail carriers, included by the Civi ser vice Commission since September 1945; (3) include in December the additional postal employment necessitated by the Christmas season, excluded from published Civil Service Commission figures starting 1942; (4) include an upward adjustment to Post Office Department employment prior to December 1943 to convert temporary ubstitute employees from a full-time equivalent to a name-count basis the latter being the basis on which data for subsequent months have been reported; (5) the Panama R. R. Co. is shown under Government corporations here, but is included under the executive branch by the Civil Service Commission; (6) employment published by the Civil Service Commission as of the last day of the month is presented here as of the first day of the next month.

    Data for Central Intelligence Agency are excluded.
    ${ }^{2}$ From 1939 through June 1943, employment was reported for all areas monthly and employment within continental United States was secured by deducting the number of persons outside the continental area, which was

[^54]:    ${ }^{1}$ Month-to-month changes in total employment in manufacturing industries as indicated by labor turn-over rates are not precisely comparable to those shown by the Bureau's employment and pay-roll reports, as the former are based on data for the entire month, while the latter, for the most part, refer to a 1 -week period ending nearest the 15 th of the month. The turnrefer sample is not so extensive as that of the employment and payover sample is not so extensive as that of the employment and parey-proportionately fewer small plants are included; printing and publishing, and certain seasonal industries, such as canning and preserving,

[^55]:    ${ }^{1}$ Overtime is defined as work in excess of 40 hours a week and paid for at time and one-half. The method of estimating average hourly earnings exclusive of overtime makes no allowance for special rates of pay for work done on holidays.
    ${ }^{2}$ Eleven-month average only; August 1945 excluded because of VJ-day holiday period.
    ${ }^{3}$ Preliminary.

[^56]:    ${ }^{1}$ Net spendable average weekly earnings are obtained by deducting from gross weekly earnings, social security and income taxes for which the specified type of worker is liable. The amount of income tax liability depends, of course, on the number of dependents supported by the worker as well as on course, on the number of dependents supported by the worker as well as on the level of his gross income. Net spendable earnings have, therefore, been computed for two types of income-rece
    (2) worker with three dependents.
    (2) A worker with three dependents.
    The computations of net spendable earnings for both the factory worker with no dependents and the factory worker with three dependents are based

[^57]:    ${ }^{1}$ Covers all contract construction firms reporting to the Bureau during the months shown (over 14,000), but not necessarily identical establishments. The data include all employees of these construction firms working at the site of privately financed projects (skilled, semiskilled, unskilled, superintendents, time clerks, etc.). Employees of these firms engaged on publicly financed projects and off-site work are excluded.
    ${ }^{2}$ Includes types not shown separately.

[^58]:    ${ }^{1}$ The "Consumers' price index for moderate-income families in large cities," formerly known as the "Cost of living index" measures average changes in retail prices of selected goods, rents, and services weighted by quantities bought in 1934-36 by families of wage earners and moderate-income workers in large cities whose incomes averaged $\$ 1,524$ in 1934-36.
    Bureau of Labor Statistics Bulletin 699, Ohanges in Cost of Living in Large Cities in the United States, 1913-41, contains a detailed description of methods Cities in the United States, 1913-41, contains a detailed description of methods,
    used in constructing this index. Additional information on the consumers' used in constructing this index. Additional information on the consumers'
    price index is given in a compilation of reports published by the Office of price index is given in a compilation of reports published by the Office of
    Economic Stabilization, Report of the President's Committee on the Cost of Living.
    Mimeographed tables are available upon request showing indexes for each

[^59]:    1 The indexes are based on time-to-time changes in the cost of goods and services purchased by moderete-income familles in large cities. They do not services purchased by moderate-income families in large cities.
    indicate whether it costs more to live in one city than in another.

[^60]:    ${ }_{1}$ The Bureau of Labor Statistics retail food prices are obtained monthly during the first three days of the week containing the fifteenth of the month, through voluntary reports from chain and independent retail food dealers. Articles included are selected to represent food sales to moderate-income families.
    sThe indexes, based on the retail prices of 50 foods, are computed by the fixed-base-weighted-aggregate method, using weights representing (1) relative importance of chain and independent store sales, in computing city average prices; (2) food purchases by families of wage earners and moderate-

[^61]:    1. June $1940=100$.
    ${ }^{2}$ Estimated index based on half the usual sample of reports. Remaining prices for New Orleans.
[^62]:    See footnote 1, table D-7.

[^63]:    1 Joint estimates of the Bureau of Labor Statistics, U. 8. Department of Labor, and the Office of Domestic Commerce, U. S. Department of Commerce. Estimated construction expenditures represent the monetary value of the volume of work accomplished during the given period of time. These figures should be differentiated from permit valuation data reported in the tabulations for urban building authorized and the data on value of contract awards reported in table F-2.
    ${ }^{2}$ Preliminary.

[^64]:    ${ }^{1}$ Building for which permits were issued and Federal contracts awarded in all urban places, including an estimate of building undertaken in some smaller urban places that do not issue permits. Sums of components do not always equal totals exactly because of rounding.
    ${ }_{2}$ For scope and source of urban estimates, see table F-3, footnote 1.
    ${ }^{3}$ Revised.
    ${ }^{4}$ Preliminary. Totals for 1948 include revisions which do not appear in data shown for January through October. Revised monthly data will appear in the Monthly Labor Review for April.
    ${ }^{5}$ Includes factories, navy yards, army ordnance plants, bakeries, ice plants, industrial warehouses, and other buildings at the site of these and similar production plants.

