## UNITED STATES DEPARTMENT OF LABOR

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EMPLOYMENT
AND PAY ROLLS

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# Employment and Pay Rolls 

# SURVEY OF EMPLOYMENT AND PAY ROLLS, JULY 1941 

## Total Nonagricultural Employment

MORE than 380,000 additional workers found employment in nonagricultural establishments in July, and total civil nonagricultural employment reached a new all-time peak of $39,241,000$. This total represented an increase of $3,787,000$ workers since July 1940 and exceeded the level of July 1929 by $2,200,000$.

The greater part of the increase in employment between June and July, as shown in table 1, occurred in manufacturing plants and reflected a further acceleration of the production of defense materials. All major groups showed increases in employment between June and July except trade, where a decline of about half the usual seasonal amount occurred in retail stores.

Table 1.—Estimates of Total Nonagricultural Employment [In thousands]

| Industry | July 1941 (prelim- | June 1941 | Change <br> June to <br> July 1941 | July 1940 | Change July 1940 to July 1941 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Total civil nonagricultural employment $1 . .$. | 39,241 | 38,858 | +383 | 35, 454 | +3,787 |
| Employees in nonagricultural establishments ${ }^{2}$.- | 33, 098 | 32, 715 | +383 | 29,311 | +3,787 |
| Manufacturing | 11, 985 | 11,775 | +210 | 9,832 | +2,153 |
| Mining-------- | 887 | 876 | +11 | 837 | $+50$ |
| Construction--...--.-.-.-.-. | 1,877 | 1,816 | $+61$ | 1,378 | +499 |
| Transportation and public utilities.. .- | 3,293 | 3,239 | +54 | 3, 059 | +234 |
|  | 6,503 | 6,530 | $-27$ | 6, 159 | +344 |
| Finance, service, and miscellaneous.-- | 4, 391 | 4,353 | +38 | 4,218 | +173 |
| Federal, State, and local government-- | 4,162 | 4,126 | +36 | 3,828 | +334 |
| Military and naval forces (not included above)..... | 1,857 | 1,740 | +117 | 516 | +1,341 |

[^0]Substantial employment gains since July 1940 were shown by all major industrial groups. The largest employment increase took place in manufacturing, where $2,150,000$ additional workers had secured jobs since July 1940. Construction employment increased by 500,000 ; trade showed a rise of 344,000 workers; and the transportation and

public utilities group reported a gain of 234,000 employees. Approximately 335,000 more civilian workers were employed by Federal, State, and local Government services than in the corresponding month of the preceding year.

## Manufacturing Industries

The defense program is causing a rapid change in the industrial distribution of manufacturing employment. Between June 1940, when the defense effort was inaugurated, and July 1941 employment in 18 private defense industries which handle a major part of the direct defense production orders increased by approximately 910,000 wage earners, or 56 percent, as compared with an increase of 27 percent in total manufacturing employment (see accompanying chart). During the same period durable-goods employment rose 38 percent to reach a total of $5,310,000$, while employment in nondurablegoods manufacturing rose only 16 percent to a total of $4,999,000$.

Table 2.-Employment in 18 Selected Private Defense Industries, Compared With Manufacturing Employment, January 1939 Through July 1941
[Index numbers $1939=100$ ]


Approximately half of the aggregate gain in the 18 private defense manufacturing industries occurred in 3 basic durable-goods industries: Blast furnaces, steel works, and rolling mills; foundry and machineshop products; and electrical machinery. The most pronounced percentage gains took place in industries producing finished war products, such as aircraft, aero engines, munitions, and shipbuilding.

Between June and July 1941, private shipbuilding expanded employment by 20,100 wage earners as new yards in Portland, Oreg.; South Portland, Maine; Los Angeles and Richmond, Calif.; Wilmington, N. C., and at several Gulf coast locations began ship construction. The aircraft industry continued to employ new workers at an increasing rate. During the second quarter of 1941 that industry added to its labor force an average of 10,000 wage earners monthly but this increase was accelerated during July to 15,300 workers as new plant facilities were put into production, notably by Martin, Consolidated, Douglas, Lockheed, and CurtissWright. The industry expected to show even greater employment increases in the fall of 1941 as a result of the heavy-bomber program. Aero-engine employment also expanded sharply in July as some of the major automotive companies tooled up for engine production. Significant gains from June to July were also noted in foundries and machine shops ( 14,300 ) ; blast furances, steel works, and rolling mills $(13,000)$; electrical machinery $(11,300)$; and machine tools $(2,100)$.

Table 3.-Employment in 18 Selected Defense Industries, July 1941

${ }^{1}$ Figures are not published for firearms, ammunition, or explosives, although data for these industries are included in the aggregate for the 18 selected defense industries.

Two important specialty industries, aluminum ware and die castings, reported substantial declines in employment in July 1941 owing to inability to secure materials because of priority rulings. Other
industries in which significant shortages of materials were reported, and priority unemployment was imminent, were silk and rayon, hardware, electrical household appliances, plumbing supplies, heating equipment, radios and parts, nonferrous metals, and cork products. Employment in the automobile industry declined by approximately 30,000 workers in July as the 1941 model year came to a close. The decline this year was less than the usual seasonal amount as many plants continued 1941 production through July.

## Nonmanufacturing Industries

Employment in anthracite mines showed virtually no change from June to July, but pay rolls fell 32 percent as a result of the stoppage of work during the first week of July, due largely to vacations granted in accordance with the terms of the new union contract. Employment in bituminous-coal mines increased contraseasonally while pay rolls declined slightly because of vacation and holiday observance. In metal mines employment remained stable, while pay rolls fell 8.5 percent, partly as a result of the observance of the Fourth of July week end. Employment in quarries and nonmetallic mines increased slightly, while pay rolls remained at the June level. In the crudepetroleum production industry employment remained virtually unchanged, while pay rolls advanced 3.2 percent.

Telephone and telegraph firms in July reported further advances in employment ( 2.7 percent) and pay rolls ( 3.2 percent), which carried them to the highest levels in more than 10 years. In electric light and power, employment and pay rolls from June to July advanced 1.5 percent and 2.0 percent, respectively. Employment and pay rolls in street railways and busses showed little change during the month.

Wholesale trade employment and pay rolls in July remained at the June level. Retail stores showed declines of approximately one-half the usual seasonal amount, the usual summer slackening in depart-ment-store and apparel-store sales being partly offset by gains among automotive and lumber and building-material dealers.

Year-round hotels, which have shown a gradual upward trend in employment and pay rolls since the beginning of the defense program, reported a less-than-seasonal decline from June to July while the gains in employment and pay rolls in laundries raised employment and pay rolls in that group to the highest levels in 10 years. Dyeing and cleaning plants showed less-than-seasonal recessions in employment and pay rolls, and employment and pay rolls declined slightly in brokerage firms. Insurance companies experienced slight gains in both employment and pay rolls.

Employment in the private building construction industry increased 3.4 percent from June to July and corresponding weekly pay rolls 418443-41--2
rose 4.3 percent. These gains were slightly greater than the average July gains of preceding years. From July 1940 to July 1941, there was an increase of 18.8 percent in employment and 31.3 percent in pay rolls.

A preliminary report of the Interstate Commerce Commission for class I steam railroads showed an employment gain of 2.7 percent between June and July, the total number employed in July being $1,187,205$. Corresponding pay-roll figures for July were not available when this report was prepared. For June they were $\$ 187,864,756$, an increase of $\$ 1,931,879$ since May.

## Regional Changes in Nonagricultural Employment

The industrial East North Central region continued to lead in nonagricultural employment gains over the year. From July 1940 to July 1941 over $1,120,000$ workers found employment in this area. Other regional increases during the year were as follows: Middle Atlantic, 810,000; South Atlantic, 530,000; New England, 450,000; Pacific, 360,000; West North Central, 210,000; West South Central, 190,000; East South Central, 180,000; and Mountain States, 60,000.

Percentage changes in employment in nonagricultural establishments from July 1940 to July 1941 in the various States are shown in the accompanying map and in table 4 . States in which the largest percentage increases occurred over the year were Indiana, Virginia, Rhode Island, Connecticut, and Michigan. The smallest percentage increases took place in Montana, North Dakota, and South Dakota.

The defense program has brought about marked changes in the employment structure of many communities located in various parts of the country. Many metropolitan areas have experienced substantial employment gains as a result of expansion in plants devoting their entire capacity to the filling of primary defense contracts. Gains in other areas have resulted from subcontracts for materials, supplies, and parts, while still other localities have been affected indirectly as suppliers of basic raw materials used in defense production.


Table 4.-Estimated Number of Employees in Nonagricultural Establishments, by States
[Excludes proprietors, firm members, self-employed persons, casual workers, domestic workers, the armed forces of the United States, and employees on merchant vessels]
[Numbers in thousands]

| Geographic division and State | July 1941 (prelim. inary) | June | Change June to July 1941 |  | July 1940 | Change July 1940 to July 1941 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Number | Percentage |  | Number | Percentage |
| New England. | 2,943 | 2, 898 | +44 | +1.4 | 2,497 | +448 | +17.8 |
| Maine. | 217 | 210 | +7 | +3.4 | 193 | +24 | +12.3 |
| New Hampshire. | 152 | 147 | $+5$ | +3.3 | 134 | +18 | +13.7 |
| Vermont....-..... | 82 | 79 | +3 | +.9 | 74 | +8 | +8. 1 |
| Massachusetts. | 1,527 | 1,508 | +19 | +1.3 | 1,303 | +224 | +17.2 |
| Rhode Island. | 273 | 270 | $+3$ | +1.1 | 224 | +49 | +22.3 |
| Connecticut..- | 692 | 685 | $+7$ | +1.0 | 569 | +123 | +21.7 |
| Middle Atlantic. | 8,422 | 8,354 | +68 | +. 8 | 7,815 | +807 | +10.6 |
| New York. | 4,136 | 4, 112 | +24 | $+.6$ | 3,839 | $+297$ | $+7.7$ |
| New Jersey. | 1,315 | 1,296 | +19 | +1.4 | 1,140 | +175 | +15.3 |
| Pennsylvania. | 2,971 | 2,946 | +25 | +. 8 | 2,636 | +335 | +12.7 |
| East North Central. | 7,793 | 7,724 | +69 | +.9 | 6, 668 | +1,127 | +18.9 |
| Ohio .-. | 2,042 | 2,016 | $+26$ | $+1.3$ | 1,750 | +292 | $+16.7$ |
| Indiana... | 929 | 924 | $+5$ | +.5 | -757 | +172 | +22.7 |
| Illinois-...-.. | 2,524 | 2, 503 | $+21$ | +. 8 | 2,227 | +297 | +13.3 |
| Michigan... | 1, 561 | 1,573 | $-12$ | $-8$ | 1,283 | +278 | +21.7 |
| Wisconsin.. | 737 | 708 | +29 | +4.1 | 649 | +88 | +13.6 |
| West North Central. | 2,559 | 2,530 | +29 | +1.2 | 2, 346 | +213 | +8.1 |
| Minnesota. | 578 | 564 | +14 | +2.6 | 533 | +45 | +8. 6 |
| Iowa.-.... | 430 | 424 | +6 | +1.5 | 400 | $+30$ | +7.4 |
| Missouri- | 848 | 844 | +4 | +. 5 | 758 | +90 | +11.9 |
| North Dakota. | 79 | 78 | +1 | +2.1 | 77 | $+2$ | +2.7 |
| South Dakota. | 86 | 85 | +1 | +1.6 | 84 | +2 | +2.3 |
| Nebraska. | 213 | 211 | +2 | +1.1 | 201 | +12 | +6.1 |
| Kansas.- | 325 | 324 | +1 | +. 3 | 293 | +32 | +10.9 |
| South Atlantic. | 3,924 | 3, 808 | +16 | +. 4 | 3, 393 | +531 | +15.7 |
| Delaware. - | 79 | 79 | 0 | $+.1$ | 72 | $+7$ | $+10.4$ |
| Maryland. | 602 | 598 | +4 | $+.7$ | 507 | +95 | +18.7 |
| District of Columbia.. | 408 | 405 | +3 | $+.6$ | 344 | $+64$ | +18.6 |
| Virginia.---.-- | 595 | 585 | $+10$ | +1.8 | 485 | $+110$ | $+22.7$ |
| West Virginia... | 404 | 401 | +3 | +. 7 | 368 | $+36$ | +9.6 |
| North Carolina. | 624 | 625 | -1 | -. 2 | 560 | +64 | $+11.4$ |
| South Carolina.. | 320 | 316 | +4 | +1.1 | 273 | +47 | +17.1 |
| Georgia. | 530 | 531 | -1 | -. 2 | 461 | $+69$ | +15.1 |
| Florida. | 362 | 368 | -6 | $-1.7$ | 323 | +39 | +12.2 |
| East South Central... | 1,498 | 1,473 | +25 | +1.7 | 1,321 | +177 | +13.5 |
| Kentucky.- | 388 | 385 | +3 | +.8 | 356 | +32 | +8.9 |
| Tennessee.. | 491 | 482 | +9 | +1.8 | 430 | +61 | +14.2 |
| Alabama...- | 424 | 414 | +10 | +2.4 | 358 | +66 | $+18.6$ |
| Mississippi. | 195 | 192 | +3 | +1.6 | 177 | +18 | +10.2 |
| West South Central. | 1,992 | 1,968 | +24 | +1.2 | 1,798 | +194 | +10.8 |
| Arkansas... | 192 | 188 | +4 | +2.0 | 176 | +16 | +9.0 |
| Louisiana-- | 383 | 395 | $-2$ | $-4$ | 353 | $+40$ | +11.4 |
| Oklahoma... | 306 | 301 | $+5$ | $+1.7$ | 286 | +20 | $+6.8$ |
| Texas.. | 1,101 | 1,084 | +17 | +1.6 | 983 | +118 | +12.0 |
| Mountain | 851 | 825 | +26 | +3.3 | 789 | +62 | +7.9 |
| Montana. | 119 | 117 | +2 | +2.2 | 115 | +4 | $+3.7$ |
| Idaho..-... | 91 | 89 | +2 | +2.1 | 86 | +5 | $+5.6$ |
| Wyomiag... | 58 | 57 | +1 | +2.9 | 54 | +4 | +8.2 |
| Colorado...... | 246 | 235 | +11 | +4.7 | 224 | +22 | +9.7 |
| New Mexico. | 79 | 77 | +2 | +2.7 | 72 | +7 | +9.2 |
| Arizona... | 95 | 96 | $-1$ | -6. 6 | 87 | +8 | $+9.9$ |
| Utah--.- | 125 | 117 | +8 | +6.8 | 117 | +8 | +6.8 |
| Nevada................. | 38 | 37 | +1 | +2.3 | 34 | +4 | +11.6 |
| Pacific. | 2, 762 | 2, 683 | $+79$ | +2.9 | 2,405 | +357 | +14.8 |
| Washington.- | 493 | 474 | +19 | +3.8 | 426 | $+67$ | $+15.7$ |
| Oregon-.-................... | 275 | - 277 | -2 | $-7.7$ | 244 | +31 | $+12.4$ |
| California...-................. | 1,984 | 1,932 | +62 | +3.2 | 1,735 | +259 | +14.9 |

The accompanying chart shows recent trends of factory employment in cities which have been particularly affected by the defense
program. The spectacular rise in employment in Wichita and San Diego reflects the growth of aircraft plants located in those areas. Norfolk, Va., has experienced a marked expansion in both Government and private shipyards. Los Angeles is a leading aircraft center, but has also shown significant employment gains in shipbuilding and in the aluminum industry. Seattle has reported gains in both aircraft and shipbuilding employment. The employment

rise in Paterson, N. J., has followed principally from expansion in the aero-engine industry, while gains in Bridgeport, Conn., can be attributed to expansions in the ammunition; aircraft; brass, bronze, and copper products; and machine-tool industries.
Indexes of factory wage-earner employment for 93 metropolitan areas for the months of June 1941 and July 1941, together with percentage changes from June to July 1941 and from July 1940 to July 1941 are shown in table 5.

Table 5.-Indexes of Employment in Manufacturing Industries, by Metropolitan Area ${ }^{1}$
[12-month average $1937=100$ ]

| Metropolitan area | Employment index |  | Percentage change, June to July 1941 | Employment index, July 1940 | Percentage change, <br> July 1940 to July 1941 |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | July 1941 | June 1941 |  |  |  |
| Akron, Ohio | 112.0 | 109.3 | +2.5 | 81.9 | +36.8 |
| Albany, N. Y. ${ }^{\text {a }}$-..--.......... | 111.0 | 107.1 | +3.6 | 86.3 | +28.6 |
| Atlanta, Ga | 103.6 | 108.1 | $-4.2$ | 88. 6 | +16.9 |
| Baltimore, Md......-.-.-......... .... | 149.4 | 142.8 | +4.6 | 112.4 | +32.9 |
| Birmingham, Ala | 132.9 | 131.5 | +1.1 | 103.0 | $+29.0$ |
| Boston, Mass. ${ }^{2}$ | 136.3 | 133.1 | $+2.4$ | 101.5 | +34.3 |
| Cambridge, Mass | 105.0 | 102. 4 | $+2.5$ | 83.9 | +25.1 |
| Lynn, Mass. | 170.5 | 158.3 | $+7.7$ | 98.4 | +73.3 |
| Somerville, Mass. | 91.9 | 103.1 | -10.9 | 94.5 | -2.8 |
| Boston city and outside ${ }^{2}$.-......... | 138.1 | 135. 2 | +2.1 | 104.0 | +32.8 |
| Bridgeport, Conn | 147.2 | 142.6 | +3.2 | 96.9 | +51.9 |
| Buffalo, N. Y | 140.9 | 139.0 | +1.4 | 102.4 | +37.6 |
| Canton, Ohio. | 139.7 | 136.2 | $+2.6$ | 92.6 | +50.9 |
| Chattanooga, Tenn | 119.3 | 118.0 | +1.1 | 96.2 | +24.0 |
| Chicafo, Ill | 126.8 | 122.5 | $+3.5$ | 98.3 | +29.0 |
| Gary, Ind | 123.3 | 121.9 | +1.1 | 111.4 | +10.7 |
| Chicago city and outside. | 127.0 | 122.6 | +3.6 | 97.5 | +30.3 |
| Cincinnati, Ohio | 116.9 | 114.9 | +1.7 | 91.5 | +27.8 |
| Cleveland, Ohio | 131.9 | 129.2 | $+2.1$ | 95.0 | +38.8 |
| Columbus, Obio | 128.2 | 123.9 | +3.5 | 92.3 | +38.9 |
| Dallas, Tex-- | 132.6 | 127.0 | +4.4 | 101.8 | +30.3 |
| Dayton, Obio | 113.5 | 113.6 | -. 1 | 86.5 | +31.2 |
| Denver, Colo | 117.8 | 115.0 | +2.4 | 97.0 | +21.4 |
| Des Moines, Iowa | 116.4 | 117.2 | $-7$ | 108.4 | +7.4 |
| Detroit, Mich | 92.5 | 96. 9 | -4.5 | 64.3 | +43.9 |
| Duluth, Minn... | 84.5 | 82.6 | +2.3 | 71.9 | +17.5 |
| El Paso, Tex....... | 98.1 | 96.7 | +1.4 | 89.9 | +9.1 |
| Erie, Pa | 148.2 | 144.3 | $+2.7$ | 100.3 | +47.8 |
| Evansville, Ind.- | 94.2 | 98.7 | $-4.6$ | 83.1 | +13.4 |
| Flint, Mich | 93.5 | 96.4 | -3.0 | 51.4 | +81.9 |
| Fort Wayne, Ind | 119.3 | 118.1 | +1.0 | 77.4 | +54.1 |
| Fort Worth, Tex | 105.6 | 105.3 | +. 3 | 86.7 | +21.8 |
| Grand Rapids, Mich. | 134.4 | 136.9 | -1.8 | 93.4 | +43.9 |
| Hartford, Conn....... | 146.1 | 142.6 | $+2.5$ | 102. 7 | +42.3 |
| Houston, Tex | 114.6 | 108. 6 | $+5.5$ | 98.1 | +16.8 |
| Indianapolis, Ind. | 136. 1 | 133.9 | +1.6 | 104.8 | +29.9 |
| Jacksonville, Fla | 135.5 | 134.9 | +. 4 | 108.2 | +25. 2 |
| Kansas City, Mo-.--- | 112.4 | 109.9 | +2.3 | 92.3 | +21.8 |
| Kansas City, Kans.-.-.----- | 99.9 | 100.8 | $-9.9$ | 93.9 | +6.4 |
| Kansas City, Mo., and outside | 117.2 | 113.4 | +3.4 | 91.7 | +27.8 |
| Knoxville, Tenn. | 116.4 | 100.3 | +16. 1 | 87.0 | +33.8 |
| Los Angeles, Calif. | 177.3 | 168.8 | $+5.0$ | 113.1 | +56.8 |
| Long Beach, Calif | 125. 2 | 119.8 | +4.5 | 90.3 | +38.6 |
| Los Angeles city and outside.- | 178.7 | 170.1 | +5.1 | 113.7 | +57.2 |
| Louisville, Ky... | 115.9 | 113.9 | +1.8 | 95.4 | +21.5 |
| Lowell, Mass....- | 111.8 | 109.5 | +2.1 | 89.2 | +25.3 |
| Memphis, Tenn. | 118.4 | 116. 2 | +1.9 | 87.3 | +35.6 |
| Miami, Fla- | 84.8 | 93.7 | -9.5 | 73.4 | +15.6 |
| Milwaukee, Wis | 116.8 | 116.5 | +. 3 | 86.1 | +35.7 |
| Minneapolis-Saint Paul | 118.7 | 115.1 | +3. 1 | 90.5 | +31.2 |
| Saint Paul, Minn. | 126.2 | 121.4 | +4.0 | 87.4 | +44.4 |
| Minneapolis city and outside | 114.8 | 111.8 | $+2.7$ | 92.2 | +24.5 |
| Nashville, Tenn.............. | 108.6 | 106.0 | $+2.5$ | 87.1 | +24.7 |
| New Haven, Conn. | 138.7 | 137.3 | +1.0 | 94.0 | +47.6 |
| New Orleans, La. | 132.4 | 128.5 | +3.0 | 92.9 | +42.6 |
| New York City and northeastern New Jersey ${ }^{2}$ |  |  |  |  |  |
| Jersey ${ }^{2}$ <br> Newark, N. J | 127.8 133.4 | 126.5 | +1.0 +.9 | 99.8 101.9 | +28.1 +30.9 |
| Jersey City, $\mathrm{N},{ }^{\text {J }}$. | 114.6 | 112.0 | +.9 +2.3 | 101.9 98.3 | +38.9 +16.6 |
| Patterson, N. J.. | 151.9 | 148.3 | +2.4 | 114.5 | +32.7 |
| Elizabeth, N. J.. | 133.0 | 130.1 | +2.2 | 98.6 | +34.9 |
| Yonkers, N. Y .-...-......--....... | 114. 1 | 112.3 | +1.6 | 91.2 | +25.1 |
| New York City and outside ${ }^{2}$-....... | 128.1 | 126.0 | +1.7 | 09.4 | +28.9 |

[^1]Table 5.-Indexes of Employment in Manufacturing Industries, by Metropolitan Area ${ }^{1}$ Continued
[12-month average $1937=100$ ]

| Metropolitan area | Employment index |  | Percentage change, June to July 1941 | $\begin{gathered} \text { Employ- } \\ \text { ment } \\ \text { index, } \\ \text { July } 1940 \end{gathered}$ | Percentage change, <br> July 1940 to July 1941 |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | July 1941 | June 1941 |  |  |  |
| Norfolk, Va.2 | 219.1 | 212.6 | +3.1 | 140.9 | +55.5 |
| Oklahoma City, Okla | 106.9 | 104.2 | +2.6 | 93.0 | +14.9 |
| Omaha, Nebr-- .. | 111.3 | 107.3 | +3.7 | 92.5 | +20.3 |
| Peoria, IIl.......... | 111.1 | 111.3 | $-8.2$ | 87.8 | $+26.5$ |
| Philadelphia, Pa. ${ }^{2}$ | 120.7 | 118.2 | +2.1 | 93.6 | $+29.0$ |
| Camden, N. J | 140.5 119.1 | 138.7 116.6 | +1.3 +2.1 | 122.8 91.2 | +14.4 +306 |
| Philadelphia city and outside ${ }^{2}$-. ...- | 119.1 | 116.6 | +2.1 | 91. 2 | $+30.6$ |
| Pittsburgh, Pa | 122.5 | 120.0 | +2.1 | 97.5 | +25.6 |
| Portland, Oreg--. | 126.2 | 129.8 | -2.8 | 91.1 | +38.5 |
| Providence, R. I. ${ }^{3}$-- | 121.6 | 120.9 | +. 6 | 96.7 | $+25.7$ |
| Fall River, Mass. | 112.5 | 112.9 | -. 4 | 102.9 | +9.3 |
| New Bedford, Mass | 100.3 | 98.9 | +1.4 | 72.1 | +39.1 |
| Providence city and outside ${ }^{2}$ | 128.6 | 127.8 | +. 6 | 101.1 | +27.2 |
| Reading, Pa | 77.4 | 76.3 | +1.4 | 67.3 | +15.0 |
| Richmond, $\mathrm{Va}_{7}$ | 114.8 | 112.4 | +2.1 | 102.6 | +11.9 |
| Rochester, N. Y | 119.2 | 115.6 | +3.1 | 97.2 | +22.6 |
| Saint Louis, Mo. | 118.6 | 116.7 | +1.6 | 93.3 | +27.1 |
| Salt Lake City, Utah.. | 95.7 | 94.2 | +1.6 | 78.7 | +21.6 |
| San Antonio, Tex | 113.1 | 111.1 | +1.8 | 107.0 | $+5.7$ |
| San Diego, Calif --..-- | 308.0 | 279.1 | $+10.4$ | 165.6 | +86.0 |
| San Francisco, Calif. ${ }^{2}$-- | 144.4 | 129.0 | +11.9 | 94.1 | +53.5 |
| Oakland, Calif | 160.9 | 122.8 | +31.0 | 98.5 | +63.4 |
| San Francisco city and outside ${ }^{2}$ | 140.5 | 130.5 | +7.7 | 93.0 | +51.1 |
| Scranton, Pa - | 99.3 | 99.3 | 0 | 86.3 | +15.1 |
| Seattle, Wash.... | 161.9 | 152.4 | +6. 2 | 115.7 | +39.9 |
| South Bend, Ind. | 136.9 | 137.2 | -. 2 | 76.7 | +78.5 |
| Spokane, Wash....- | 105.9 | 106.0 | -. 1 | 102.5 | +3.3 |
| Springfield, Mass. ${ }^{2}$. | 128.1 | 124.4 | +3.0 | 92.9 | +37.9 |
| Syracuse, N. Y.. | 130.5 | 130.0 | +. 4 | 98.3 | +32.8 |
| Tacoma, Wash.. | 109.6 | 104.7 | +4.7 | 100.2 | +9.4 |
| Tampa, Fla. - | 123.5 | 125. 2 | -1.4 | 97.3 | +26.9 |
| Toledo, Ohio ... | 98.7 | 99.2 | $-.5$ | 73.0 | +35.2 |
| Trenton, N. J. | 133.3 | 137.1 | +2.8 | 109.0 | +22.3 |
| Tulsa, Okla | 115.2 | 107.6 | +7.1 | 90.7 | +27.0 |
| Utica, N. Y. | 133.9 | 131.2 | +2.1 | 94.2 | +42.1 |
| Washington, D. C. ${ }^{-}$- | 154. 6 | 149.0 | +3.8 | 108.6 | +42.4 |
| Wichita, Kans...- | 351.8 | 330.6 | +6.4 | 116.0 | +203.3 |
| Wilmington, Del.. | 129.9 | 128.8 | +.9 | 94.1 | +38.0 |
|  | 119.5 | 118.0 110.2 | +1.3 +5.2 | 96.1 | +24.3 +26.4 |
| Youngstown, Ohio | 115.9 | 110.2 | +5.2 | 91.7 | +26.4 |

${ }^{1}$ These indexes have been adjusted to levels indicated by the 1939 Census of Manufactures, and are not comparable to those previously published. The revised indexes for previous months are available upon request. The metropolitan areas covered are in each case as defined in the 1930 Census of Population. In cases where cities of 100,000 population or over are located within metropolitan areas, those cities are also shown separately.

For areas in which Government arsenals or navy yards are located, the scope of the indexes has been widened to include those as well as private manufacturing establishments. In those areas, and in others where there are large plants important to the defense program the data have been weighted to reflect more accurately local employment conditions.
${ }^{2}$ Includes employment in Government navy yards and arsenals.

## Hours and Earnings

Hourly earnings of wage earners in manufacturing industries in July rose to a new high level, but weekly earnings declined slightly as many industries reported a reduction in hours because of the Fourth of July holiday. Wage-rate increases were reported for a substantial but smaller number of workers during July than in the preceding 3 months.

Strategic defense industries continued extensive overtime, 31 of the 43 durable-goods industries regularly tabulated averaging more than 40 hours per week per wage earner. Three defense industries operated in excess of 50 hours per week per wage earner in July: Firearms ( 51.8 hours), machine tools ( 50.9 hours), and machine-tool accessories ( 51.8 hours). Other important defense industries operated at the following levels: Instruments--professional, scientific, and commercial (47.3); screw-machine products (47.2); aircraft (44.7); shipbuilding (44.3); explosives (42.8); brass, bronze, and copper products (44.2); ammunition (41.3); optical goods (40.9); aluminum (40.8) ; and smelting and refining-copper, lead, and zinc (39.4).

Wage-rate increases (see table 6) during the month ending July 15 1941, averaging 8.5 percent for nearly 500,000 wage earners, were reported by 1,421 manufacturing plants out of a reporting sample of 33,520 establishments employing $7,400,000$ workers. Substantial numbers of workers were affected in the following industries: Cotton goods ( 109,081 ); shipbuilding ( 57,792 ); electrical machinery ( 22,652 ); brass, bronze, and copper products (22,412) ; foundry and machineshop products ( 17,431 ); engines, turbines, etc. $(17,079)$; aircraft $(14,897)$; refrigerating and refrigerating apparatus ( 13,646 ) ; agricultural implements $(12,835)$; and boots and shoes $(11,500)$. As the Bureau's survey does not cover all establishments, and as some firms may have failed to report wage-rate changes, these figures should not be construed as representing the total number of wage changes occurring during the period.

Average hourly earnings in manufacturing industries rose to 74.4 cents in July, an increase of 0.7 percent over June 1941 and of 12.0 percent over July 1940. A considerable number of industries reported reductions in hourly earnings between June and July owing to a decline in overtime payments, but all 90 of the industries covered showed increases over July 1940. Average hours worked per wage earner for all manufacturing combined declined from 41.3 n June to 40.3 in July, or 2.4 percent. Factory workers, however, were averaging 8.3 percent longer hours in July 1941 than in July 1940. Weekly earnings of full-time and part-time workers averaged $\$ 31.20$, a decrease of 1.7 percent from June to July, but an increase of 22.9 percent above July 1940.

As a result of the concentration of the defense production among the durable-goods industries, the expansion in hours and earnings of wage earners over the year interval was considerably greater in the durable- than in the nondurable-goods industries. Average hours in July 1941 in durable goods were 9.7 percent above the July 1940 level while nondurable goods showed an increase of 6.4 percent. Hourly earnings in durable goods in July advanced 14.1 percent over the year as compared with 7.2 percent for the nondurable-goods group. As a
result of these increases, weekly earnings in the durable-goods group ( $\$ 35.80$ ) were 26.5 percent above July 1940, while in nondurable goods ( $\$ 25.15$ ) they increased 14.9 percent.

Among the nonmanufacturing industries surveyed, anthracite and bituminous-coal mines showed declines in weekly earnings from June to July as the miners received vacations in the first week of July in accordance with the new union agreements. The decline was less pronounced in bituminous-coal mining because those miners received a $\$ 20$ payment for the vacation period, while the anthracite miners are to receive vacation allowances in December. Average weekly earnings in metalliferous mining declined 8.3 percent as hours were reduced, but the level of weekly earnings was 10.6 percent higher than a year earlier. Weekly earnings in quarrying and nonmetallic mining declined during the month but were 16.3 percent above the level of July 1940, reflecting increases in both average hours worked and average hourly earnings. In wholesale and retail trade establishments the higher level of weekly earnings as compared with last year was largely due to increased commissions.

Table 6.-Wage-Rate Changes Reported by Manufacturing and Nonmanufacturing Establishments During Month Ending July 15, $1941^{12}$

| Group and industry | Establishments |  | Employees |  | Average percentage change in wage rates of employees having increases |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total number covered | Number reporting increases | Total number covered | Number having increases |  |
| All manufacturing | 33, 520 | 1,421 | 7, 405, 902 | 489, 915 | 8.5 |
| Durable | 12,747 | 516 | 4, 056, 823 | 259, 534 | 9.2 |
| Nondurable. | 20,773 | 905 | 3, 349, 079 | 230, 381 | 7.8 |
|  |  |  |  |  |  |
| Blast furnaces, steel works, and rolling mills.-. | 304 | 10 | 549, 310 | 3,202 | 7.1 |
|  | 72 | 6 | 20,366 | 1,432 | 8.3 |
| Cutlery (not including silver and plated cutlery) and édge tools.... | 113 | 5 | 16,015 | 1,084 | 7.4 |
| Forgings, iron and steel. --- | 97 | 8 | 19,500 | 1,972 | 10.0 |
| Hardware, -------- | 156 | 7 | 42,040 | 1,084 | 6. 6 |
| Plumbers' supplies.----.---- | 112 | 5 | 29,215 | 715 | 5.2 |
| Stamped and enameled ware .... | 245 | 12 | 53, 264 | 3,211 | 7.3 |
|  | 244 | 11 | 42,912 | 1,632 | 7.4 |
| Structural and ornamental metalwork.. | 297 | 12 | 35, 627 | , 524 | 9.9 |
| Tin cans and other tinware | 135 | 6 | 38, 659 | 1, 192 | 9.0 |
| Tools (not including edge tools, machine tools, files, and saws) . | 134 | 3 | 20,432 | 389 285 | 7.6 |
| Wirework .-............. -- | 162 | 5 | 29, 861 | 253 | 7.3 |
| Screw-machine products... | 83 | 9 | 18,236 | 711 | 9.8 |
| Wiredrawing...- ... .. | 46 |  | 17,538 | 1,223 | 6.5 |

${ }^{1}$ Figures are not given for some industries to avoid disclosure of information concorning individual establishments. They are, however, included where practicable in "all manufacturing," and in the varions industry groups.
${ }^{2}$ No decreases reported.

[^2]Table 6.-Wage-Rate Changes Reported by Manufacturing and Nonmanufacturing Establishments During Month Ending July 15, 1941-Continued

| Group and industry | Establishments |  | Employees |  | A verage percentage change in wage rates of employees having increases. |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total number covered | Number reporting increases | Total number covered | Number having increascs |  |
| Machinery, not including transportation equipment. | 3,859 | 158 | 1,201,727 | 102,859 | 8.9 |
| Agricultural implements (including tractors) -- | 110 | 3 | 1, 70,446 | 12,835 | 3.4 |
| Cash registers, adding machines, and calculating machines. | 33 | 3 | 24, 115 | 528 | 8.3 |
| Electrical machinery, apparatus, and supplies | 590 | 35 | 331,407 | 22, 652 | 10.4 |
| Engines, turbines, water wheels, and windmills. | 69 | 6 | 87, 266 | 17,079 | 6.1 |
| Foundry and machine-shop products. | 2,282 | 83 | 390, 363 | 17, 431 | 11.7 |
| Machine tools....-.....-- | 202 | 6 | 94, 971 | 7, 448 | 10.2 |
| Radios and phonographs. | 80 | 5 | 56, 114 | 8, 851 | 10.0 |
| Machine-tool accessories. | 97 | 3 | 17, 743 | 388 | 7.4 |
| Pumps | 108 | 5 | 26,799 | 1,021 | 5. 5 |
| Refrigerating and refrigerating apparatus - | 56 | 3 | 34, 795 | 13, 646 | 10.5 |
| Transportation equipment.- | 832 | 42 | 924, 072 | 78,254 | 11.0 |
| Aircraft -..... | 109 | 8 | 201,938 | 14, 897 | 11.9 |
| Automobiles | 418 | 12 | 451, 111 | 5, 210 | 9.6 |
| Shipbuilding. | 192 | 19 | 201, 110 | 57, 792 | 10.9 |
| Nonferrous metals and their products. | 1,083 | 50 | 254, 694 | 28, 491 | 7.3 |
| Brass, bronze, and copper products | 341 | 27 | 101, 351 | 22, 412 | 6.7 |
| Smelting and refining-copper, lead, and zinc- | 56 | 9 | 33,717 | 4, 233 | 9.3 |
| Sheet-metal work. | 132 | 6 | 8,038 | 610 | 11.1 |
| Lumber and allied products. | 2, 816 | 103 | 372,860 | 17, 166 | 8. 2 |
| Furnitnre_ | 715 | 29 | 114, 557 | 4,175 | 8.6 |
| Lumber: <br> Millwork | 585 | 26 | 44, 282 | 2, 291 | 8.3 |
| Sawmills. | 751 | 20 | 143, 561 | 5,782 | 8.3 |
| Caskets and morticians goods- | 106 | 5 | 5,908 | 169 | 10.0 |
| Wood, turned and shaped....... | 88 | 3 | 6,856 | 232 | 9.8 |
| Wooden boxes, other than cigar- | 139 | 4 | 15, 234 | 784 | 5.5 |
| Mattresses and bedsprings | 192 | 6 | 12,831 | 2, 056 | 6. 5 |
| Stone, clay, and glass products. | 1,590 | 50 | 235, 599 | 10,886 | 8.4 |
| Brick, tile, and terra cotta. | 520 | 20 | 46, 503 | 2, 002 | 12.6 |
| Cement - | 130 | 3 | 23, 238 | 714 | 10.2 |
| Marble, granite, slate, and other products. | 247 | 5 | 6, 227 | 120 | 5.1 |
| Pottery--...-.-.-- | 130 | 7 | 33, 696 | 1. 455 | 7.4 |
| Asbestos products. | 22 | 3 | 10,724 | 864 | 4.4 |
| Concrete products .-............-.-.-.-.... | 103 | 3 | 3,290 | 89 | 14.3 |
| Wallboard and plaster, except gypsum- | 23 |  | 7,032 | 1,907 | 7.0 |
| Textiles and their products. | 6,480 | 440 | 1,379, 861 | 150,436 | 7.5 |
| Fabrics........-. | 3,451 | 357 | 1, 034, 325 | 138, 396 | 7.3 |
| Cotton goods......-. | 801 | 204 | 425, 870 | 109, 081 | 6.9 |
| Cotton small wares... | 128 | 10 | 15,005 | 1,018 | 12.7 |
| Dyeing and finishing textiles. | 229 | 19 | 61,680 | 4,231 | 8.3 |
| Hosiery --.......... | 317 | 3 | 99,454 | 879 | 6. 9 |
| Knitted outerwear - | 226 | 9 | 19,303 | 623 | 9.6 |
| Knit cloth | 75 | 7 | 7,165 | 1,097 | 8.7 |
| Silk and rayon goods. | 403 | 53 | 78,975 | 9,739 | 8.8 |
| Woolen and worsted goods. | 405 | 13 | 166,373 | 3,988 | 8.9 |
| Cordage and twine .-...- | 61 | 7 | 13,497 | 2, 097 | 6.8 |
| Housefurnishings, other. | 69 | 5 | 6,877 | 210 | 7.1 |
| Wearing apparel.--- | 3,029 | 83 | 345, 536 | 12,040 | 9.5 |
| Clothing, men's. .-. | 1,131 | 47 | 153,984 | 4,539 | 9.9 |
| Clothing, women's.-.-.-.-.- | 1,155 | 16 | 88, 568 | 1,412 | 8.2 |
| Corsets and allied garments. | 65 | 5 | 12, 118 | 1,562 | 11.8 |
| Shirts and collars.- | 267 | 12 | 55, 747 | 3,880 | 9.0 |
| Leather and its manufactures.. | 1,085 | 47 | 255, 524 | 15,220 | 6.1 |
| Boots and shoes. | 515 | 28 | 180, 641 | 11,500 | 6.3 |
| Leather--...............-.-.- | 179 | 8 | 40, 259 | 3,136 | 5.4 |
| Boot and shoe cut stock and findings. | 127 | 8 | 10,938 | 444 | 5.0 |

Table 6.-Wage-Rate Changes Reported by Manufacturing and Nonmanufacturing Establishments During Month Ending July 15, 1941—Continued


[^3]
## Public Employment

Increasing at the rate of approximately 40,500 per month during the first year of the defense emergency, employment on construction projects financed from appropriations to regular Federal agencies rose to 873,000 in the month ending July 15. Employment on building construction projects increased fifteenfold over the year period while the number of men at work on heayy engineering projects rose from 140 in July 1940 to almost 9,000 in July 1941. Employment on the construction of naval vessels more than doubled during the year. On the construction of cargo vessels the number of men at work rose from 26,000 to 40,000 . Total pay-roll disbursements on construction projects financed from regular funds were $\$ 121,148,000$ in the month ending July 15.

With a large part of defense housing being financed by appropriations to regular Federal agencies, employment on housing projects under the United States Housing Authority program showed a decline of 4,000 during the month ending July 15.

Employment on construction projects financed by the Reconstruction Finance Corporation increased sixfold from July 1940 to July 1941. Increased activity on construction work essential to the defense program was largely responsible for the gain.

Increasing employment in other fields and on vital defense projects lightened the relief load considerably during the year. In July approximately $1,055,000$ persons were employed on work relief projects financed from Work Projects Administration funds. This figure represents a decrease of about 700,000 over the year period. Twothirds of workers remaining on work relief were employed on defense projects. Pay-roll disbursements on these projects totaled $\$ 68,200,000$.

Because of the completion of the school year in June only 2,300 students were employed on the student-work program of the National Youth Administration in July. Employment on the out-of-school work program was curtailed to 323,000 .

Employment in camps of the Civilian Conservation Corps showed a loss of 24,000 in July. Of the 210,000 on the pay roll, 178,300 were enrollees; 1,400 , educational advisers; 100 , nurses; and 30,200 , supervisory and technical employees. Total pay rolls of $\$ 10,388,000$ were $\$ 890,000$ less than in June.
Increased employment was reported in all of the regular services of the Federal Government. Of the $1,392,000$ employees in the executive service, 185,000 were working in the District of Columbia and $1,207,000$ outside the District. Force-account employees (employees on the pay roll of the United States Government who are engaged on construction projects, and whose period of employment
terminates as the project is completed) constituted 12 percent of the total number of employees in the executive service. Increased employment was reported in the War, Navy, and Post Office Departments and the Tennessee Valley Authority while decreases were reported in the Federal Security and Federal Works Agencies.

The seasonal increase of activity on State-financed road projects in July resulted in an employment gain of 6,000 . Of the 202,000 men on the pay roll, 65,000 were engaged in the construction of new roads and 137,000 in maintenance.

A summary of employment and pay-roll data in the regular Federal services and on projects financed wholly or partially from Federal funds is given in table 7.

Table 7.-Summary of Employment and Pay Rolls in Regular Federal Services and on Construction Projects Financed Wholly or Partially from Federal Funds, July 1941
[Preliminary figures]

| Class | Employment |  |  | Pay rolls |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{aligned} & \text { July } \\ & 1941 \end{aligned}$ | ${ }_{1941}$ | $\begin{gathered} \text { Percent- } \\ \text { age } \\ \text { change } \end{gathered}$ | July 1941 | Juno 1941 | $\begin{gathered} \text { Percent- } \\ \text { age } \\ \text { change } \end{gathered}$ |
|  |  |  |  |  |  |  |
| Executive ${ }^{1}$. | 1,391, 689 | 1,370, 110 | +1.6 | \$205, 977, 306 | \$205, 581, 047 | +0.2 |
| Judicial_-.-- | 2,637 | 2, 526 | +4.4 | 647, 810 | 644,557 | +. 5 |
| Legislative.- | 6, 142 | 6,132 | $+{ }^{+}$ | 1, 334, 763 | 1,336, 535 | $-1$ |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
| Defense.- | 653, 779 | 615, 695 | +6. 2 | 98, 908, 072 | 91, 385, 025 | +8. 2 |
| Other | 218, 884 | 204, 415 | +7.1 | 22, 240, 117 | 20, 097, 621 | +10.7 |
| U. S. H. A. low-rent housing | 36, 543 | 40,958 | -10.8 | 3, 849,428 | 4, 247, 710 | -9.4 |
| Defense.. | 2, 765 | 5, 082 | -45.6 | 290,522 | 503, 929 | -42.3 |
| Other | 33,778 | 35, 876 | $-5.8$ | 3, 558,906 | 3, 743, 781 | -4.9 |
| Financed by P.W. A ${ }^{\text {2... }}$ | 7,456 | 9,507 | -21.6 | 807,747 | 1, 056, 578 | $-23.6$ |
| Financed by R. F. C.3.- | 13,398 | 10,935 | +22.5 | 1,908, 303 | 1, 522, 123 | +25.4 |
| Defense.- | 10, 719 | 8,572 | +25.0 | 1, 587, 160 | 1, 232, 888 | +28.7 |
| Other | 2,679 | 2,363 | +13.4 | 321, 143 | 289, 235 | +11.0 |
| Work Projects Administration projects. | 1,055, 012 | 1,419, 017 | -25.7 | 68, 200,000 | 81, 546, 281 | -16.4 |
| Defense.. | 357, 593 | 420,965 | $-15.1$ | (4) | (4) |  |
| Other | 697, 419 | 998, 052 | -30.1 | (4) | (4) | ......- |
| National Youth Administration: Student work program |  |  |  |  |  |  |
| Student work program.-....-- | 2,309 322,736 | 358,004 392,514 | -99.4 | 12,375 $7,163,747$ | $2,602,449$ $8,112,719$ | -99.5 -11.7 |
| Civilian Conservation Corps...... | 210, 121 | 235, 024 | -10.6 | 10, 388, 164 | 11, 277,971 | -7.9 |

[^4]
## DETAILED TABLES, JULY 1941

## Industrial and Business Employment

MONTHLY reports on employment and pay rolls are available for 157 manufacturing industries; 16 nonmanufacturing industries, including. private building construction; water transportation; and class I steam railroads. The reports for the first 2 of these groups--manufacturing and nonmanufacturing-are based on sample surveys by the Bureau of Labor Statistics. The figures on water transportation are based on estimates frepared by the Maritime Commission, and those on class I steam railroads are compiled by the Interstate Commerce Commission. They are presented in the foregoing summary.

The indexes of factory employment and pay rolls relate to wage earners only. Those shown in tables 8 and 9 are based on the 3 -year average $1923-25$ as 100 . For all manufacturing industries combined, the durable-goods group, the nondureble-goods group, and aluminum. manufactures, they have been adjusted to preliminary 1939 census figures and for automobiles to the 1933 census. The indexes for all other groups and industries heve been adjusted to 1937 census data except for the ajrcraft industry and the transportation equipment group, which bave been adjusted on the basis of a complete employment survey of the aircraft industry made by the Bureau of Labor Statistics in August 1940. The over-all menufacturing indexes are computed from reports supplied by representative manufacturing establishments in 90 of the 157 industries surveyed. These reports cover more than 55 percent of the total wage earners in all manufacturing industries of the country and more than 65 percent of the wage earners in the 90 industries covered.

Indexes for 55 of the 67 manufacturing industries recently added to the monthly survey are shown in table 10. These indexes are based on 1939 as 100.

The indexes for the nonmanufecturing industries are based on the 12 -month average for 1929 as 100 . Figures for mining, laundries, and dyeing and cleaning cover wage earners only, but the figures for public utilities, trade, and hotels relate to all employees except corporation officers, executives, and other employees whose duties are mainly supervisory. For crude-petroleum production they cover wage earners and clerical field force. The coverage of the r $\epsilon$ porting samples for the various nonmanufacturing industries ranges from approximately 25 percent for wholesale and retail trade, dyeing and cleaning, and insurance, to approximately 80 percent for quarrying and nonmetallic mining, anthracite mining, and public utilities.

The indexes for retail trade have been adjusted to conform in general with the 1935 Census of Retail Distribution and are weighted
by lines of trade. For the public utilities they have been adjusted to the 1937 Census of Electrical Industries, for wholesale trade to the 1933 census, and for coal mining, year-round hotels, laundries, and dyeing and cleaning to the 1935 censuses.

Data for both manufacturing and nonmanufacturing industries are based on reports of the number of employees and the amount of pay rolls for the pay period ending nearest the 15 th of the month.

The average weekly earnings shown in tables 8 and 9 are computed by dividing the weekly pay rolls in the reporting establishments by the total number of full- and part-time employees reported. As not all reporting establishments supply man-hours, average hours worked per week and average hourly earnings are necessarily based on data furnished by a slightly smaller number of reporting firms. As the size and composition of the reporting sample vary somewhat from month to month, the average hours per week, average hourly earnings, and average weekly earnings shown may not be strictly comparable from month to month. The sample, however, is believed to be sufficiently adequate in virtually all instances to indicate the general movement of earnings and hours over the period shown. The changes from the preceding month, expressed as percentages, are based on identical lists of firms for the 2 months, but the changes from July 1940 are computed from chain indexes based on the month-to-month percentage changes.

## EMPLOYMENT AND PAY-ROLL INDEXES, AVERAGE HOURS, AND AVERAGE EARNINGS

The indexes of employment and pay rolls as well as average hours worked per week, average hourly earnings, and average weekly earnings in manufacturing and nonmanufacturing industries in July 1941 are shown in table 8. Percentage changes from June 1941 and July 1940 are also given.

The employment and pay-roll indexes, as well as average hours worked per week, average hourly earnings, and average weekly earnings for May, June, and July 1941, where available, are presented in table 9. The May and June figures, where given, may differ in some instances from those previously published because of revisions necessitated primarily by the inclusion of late reports. Indexes of employment and pay rolls are given in table 10 for 55 of the 67 newly added manufacturing industries for the months of May, June, and July 1941. These indexes are based on 1939 as 100 and are available in mimeographed form for the period from January 1939 to January 1941, inclusive.

In table 11 indexes of employment and pay rolls are given for all manufacturing industries combined, for the durable- and nondurable-
goods groups of manufacturing industries, and for each of 13 nonmanufacturing industries, by months, from July 1940 to July 1941, inclusive. The indexes for all manufacturing industries combined, the durable-goods group, and the nondurable-goods group have been adjusted to preliminary 1939 census figures. Comparable indexes for all available months and years back to January 1919 are given in tables 9, 10, and 11 of the December 1940 issue of this pamphlet. The chart on page 2 indicates the trend of factory employment and pay rolls from January 1919 to July 1941.

Use of average hourly earnings in "escalator" clauses.-Average hourly earnings of wage earners, such as those shown in table 8, have been compiled regularly by the Bureau of Labor Statistics since 1932. These averages are published for the use of those who wish either to compare the average earnings of wage earners in different industries, or to study the changes in average earnings over a period of time.

Certain characteristics of the average earnings should be indicated. The average of the actual earnings of wage earners as a group may change from one period to another for either of two reasons: (1) By reason of changes in the wages paid or (2) by reason of changes in the composition of the group of wage earners actually at work in different periods. As an example of the latter cause of change, it is evident that if, from one month to the next, the number of wage earners employed in a high-wage industry increases proportionally more than employment generally has increased, the average of actual earnings for the group as a whole will increase. This increase might take place even though there were no changes whatsoever in the earnings of any wage earner in any one of the establishments. It is apparent, therefore, that the Bureau's averages reflect both changes in the actual hourly rates paid as well as changes in the composition of the wage earners in the group. The averages contained in table 8 for all manufacturing, for durable goods, for nondurable goods, and for the various subgroups of industries, such as "iron and steel and their products," reflects both types of influence upon hourly earnings; and they measure the average of the actual earnings of the wage earners actually at work in each respective period.
To an increasing extent, use is being made of these average hourly earnings figures in so-called "escalator" clauses in Government contracts. These are designed to protect contractors from losses that might arise from general wage increases over which they could exercise no control. A number of contracts extending over many months have been written recently with clauses that provide for increased payments to the contractor in case of increases in the average of the hourly earnings in the durable-goods industries.
It should be pointed out that the characteristics of the Bureau's average hourly earnings figures, as described above, make it desirable
to use these averages for other than their designed purpose with a certain degree of caution. The purpose for which they were compiled limits their usefulness, especially in July and August, as a measure of change in labor rates. In these months the averages usually show a seasonal movement unrelated to rates of pay. For example, the average hourly earnings figure in the durable-goods industries dropped from 73.2 cents in June 1940 to 72.7 cents in July 1940. This did not represent a general decline in wages but only reflected a sharp reduction in employment in the automobile

industry at the close of the model year. This industry is a high-wage industry in which the average hourly earnings are about 95 cents an hour. Between June 1940 and July 1940 employment in the automobile industry dropped from 104.9 to 82.3 . This relative decline, of a purely seasonable character, in the number of highly paid automobile workers was very largely responsible for the decline of half a cent noted in the average hourly earnings in durable-goods industries.

By way of illustration of the problem involved it would be possible to construct an index of earnings that was unrelated to changes in
the relative occupational composition of the group workers actually at work. For example, giving the averages for the several industries the same weights in July and August that they had in June and considering only the influence of changes in average earnings in each industry, we find no change in the rate of earnings from June 1940 to July 1940 and approximately the same percentage change as is shown by the published figures from July 1940 to August 1940. This means that from June to August 1940, the published figures show a slight decline over this 3 -month interval whereas the series computed with constant weights shows a small gain.

It is not within the province of the Bureau to indicate the type of average that was contemplated by the contracting parties in the contracts already drawn; least of all can the method of compiling an average be changed. It is obvious, however, that in incorporating any statistical series in legal documents careful consideration should be given to the purpose for which the figures were originally compiled and to their relevance to some new purpose. The officials of the Bureau are at the disposal of all those who wish to apply any of the Bureau's series to administrative problems. Carefully interpreted and applied, these data have a present usefulness far greater than was imagined in the past. Their appropriate adaptation to new uses involves on the one hand a careful consideration by the Bureau of the purposes of the contracting parties; on the other, consultation with the Bureau to discover whether the new figures as they stand meet the purposes in mind.

Table 8.-Employment, Pay Rolls, Hours, and Earnings in Manufacturing and Nonmanufacturing Industries, July 1941

## manufacturing

[Indexes are based on 3-year average, $1923-25=100$. For "all manufacturing," "durable goods," "nondurable goods," and "aluminum manufactures," they bave been adjusted to preliminary 1939 census figures. The indexes for all other manufacturing groups and industries have been adjusted to 1937 census figures, except as otherwise noted, and are not comparable to indexes published in pamphlets prior to August 1939. Comparable series available upon request]


| Industry | Employment |  |  | Pay rolls |  |  | A verage weekly earnings |  |  | A verage bours worked per week |  |  | Average hourly earnings |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{gathered} \text { lndex } \\ \begin{array}{c} \text { July } \\ 1941 \end{array} \end{gathered}$ | Percentage change from- |  | $\begin{gathered} \text { Index } \\ \text { July } \\ \text { Ju4y } \end{gathered}$ | Percentage change from- |  | $\begin{gathered} \text { July } \\ \text { 1941 } \end{gathered}$ | Percentagechange from- |  | $\begin{gathered} \text { July } \\ 1941 \end{gathered}$ | Percentagechange from- |  | $\begin{aligned} & \text { July } \\ & 1941 \end{aligned}$ | Percentage change from- |  |
|  |  | $\begin{aligned} & \text { June } \\ & 1941 \end{aligned}$ | $\begin{aligned} & \text { July } \\ & 1940 \end{aligned}$ |  | $\begin{aligned} & \text { June } \\ & 1941 \end{aligned}$ | $\begin{aligned} & \text { July } \\ & 1940 \end{aligned}$ |  | $\underset{\substack{\text { June } \\ 1941}}{ }$ | July 1940 |  | $\begin{gathered} \text { June } \\ 1941 \end{gathered}$ | $\begin{aligned} & \text { July } \\ & 1940 \end{aligned}$ |  | ${ }_{\text {June }} 1941$ | July 1940 |
| Durable goods-Continued |  |  |  |  |  |  |  |  |  |  |  |  | Cents |  |  |
| Machinery, not including transportation equipment - | 172.6 171.4 | $\underline{+2.7}$ | +48.7 +31.3 | 293.3 228.4 | ${ }_{-2.1}^{+1.3}$ | ${ }_{+53.5}^{+85}$ | ${ }_{3}^{397.51} 3$ | -1.3 | +25.0 +16.8 | 44.6 41.2 | $-2.0$ | +10.2 +5.7 | 883 89.0 8.0 | +.4 + + | +012.9 +10.6 |
| ${ }_{\text {A }}$ Aricultural implements (including tractors) | 171.4 | -. 2 | +31.3 | 228.4 | -2.1 | +53.5 | 36.62 | -1.8 | +16.8 | 41.2 | -2.1 | +5.7 | 89.0 | +. 5 | +10.6 |
| ing machines | 167.5 163.6 | $+{ }_{+3.0}^{+3.0}$ | + +29.3 | ${ }_{2314.0}^{214}$ | -1.0 +3.5 | +57.8 +96.4 | 39.87 37.34 | 1.8 -3.9 +4 | $\underline{+22.1}$ | $\begin{array}{r}43.9 \\ 43 \\ \hline\end{array}$ | -3.0 -8 | +10.5 +9.5 | 91.6 85.5 | +1.1 | +11.4 |
| Electrical machinery, apparatus, and supplies | 163.6 | +3.2 | +57.6 | 231.9 | +3.5 | +96.4 | 37. 34 | +. 4 | +24.6 | 43.5 | -. 8 | +9.5 | 85.5 | +1.1 | +13.2 |
| moundry and machine-shop products | 297.8 143.3 | +4.3 +2.6 | +77.8 +46.2 | 497.7 177.8 | +4.5 +8 | +123.6 +84.7 | 44. 34 36.61 | +.3 | +25.8 +26.3 | 46.5 44.6 | $-.1$ | +6.9 +11.8 | 95.2 81.7 | +. 3 | +17.7 +12.7 |
| Machine toois 3...........- - | 346.0 | +2.2 | +47.4 | 534.7 | +1.0 | +73.7 | 42.80 | -1.2 | +17.9 | 50.9 | -2.1 | +6.9 | 84.1 | +1.0 | +10.2 |
| Radios and phonographs. | 188.7 | +4.4 | $+31.6$ | 218.7 | +9.1 | +57.9 | ${ }^{28.30}$ | +4.5 | +20.0 | 41.2 | +. 4 | $+{ }_{+6.9}^{+1.8}$ | ${ }^{69.3}$ | +4.0 | +12.4 |
| Textile macbinery and parts.- | 106.3 153.1 | +2.5 +3.3 | +38.1 +33.9 | 132.7 217.2 | $+{ }_{+4.7}^{+1.7}$ | +80.9 +85.7 | 34.31 34.77 | -1.8 | ${ }_{+}^{+31.0}$ | 46.5 46.4 | - 7.5 | +18.4 +20.6 | 74.2 74.9 | $-{ }_{-(1)}$ | +10.6 +15.0 |
| Transportation equipment ${ }^{6}$ | 179.2 | +. 8 | +79.7 | 229.9 | -4.0 | +132.5 | 40.67 | -4.8 | +29.3 | 41.2 | -5.8 | +14.3 | 98.8 | +1.2 | +12.2 |
| Aircraft ${ }^{\text {a }}$ - | 7,280.0 | +8.1 | +131.4 | 9,077. 7 | +10.5 | +190.5 | 36. 48 | +2.3 | +18.8 | 44.7 | -. 5 | +6.5 | 82.0 | +2.7 | +10.7 |
| Automobiles ${ }^{\text {cars en }}$ electric- and steam-r-aiload | 127.3 | -5.6 | +54.6 | 160.1 | $-15.1$ | +98.9 +113.1 | ${ }_{32.41}^{41.13}$ | ${ }_{-5.1}^{-10.1}$ | +28.6 +20.3 | 38.8 39.0 | ${ }_{-10.2}^{-1.6}$ | +13.8 +9.6 | 106.4 83.2 | +. 5 | +12.9 +9.1 |
| Locomotives.- | 75.7 | +11.2 | +143.5 | 102.5 | +12.8 | +227.4 | 41. 49 | +1.5 | +34.4 | ${ }_{46.3}$ | -. 4 | +18.2 | ${ }_{89,6}$ | +1.9 | +13.7 |
| Sbipbuilding-........... | 368.9 | +10.3 | +116.8 | 571.0 | +14.7 | +195.2 | 45.59 | +4.0 | +36.1 | 44.3 | 9 | +13.5 | ${ }_{101.6}$ | +6.8 | +19.2 |
| Nonferrous metals and their prod | 143.5 | +1.1 | +34.1 | 174.1 | -. 3 | $+84.4$ | ${ }^{33.82}$ | $-1.4$ | +22.5 | 42.0 | -2.4 | +7.8 | 80.3 | +1.1 | +14.3 |
| Aluminum manufactures 8. | 233.7 | +2.3 +.2 | +25.3 +46.4 | ${ }_{263.9}^{319.8}$ | $\begin{array}{r}-.4 \\ + \\ \hline .6\end{array}$ | +59.4 +80.5 | 34.17 38.55 | -2.7 +.4 | +27.3 +23.3 | 40.8 44.2 | $-3.2$ | +11.8 +7.7 | 83.7 87.8 | +1.6 +1.8 | +13.8 +15.0 |
| Brass, bronze, and copper products-......--- | 189.7 | +. 2 | +46.4 | 263.9 | +. 6 | +80.5 | 38.55 | +. 4 |  | 44.2 | -1.2 | +7.7 | 87.8 | +1.8 |  |
| veweesy- | 1118.3 | +1.1 +4.6 | +31.4 +19.8 | 138.4 | -6.4 | +51.9 +38.8 | 25. 24 | -7.5 -.7 | +15.7 +15.8 | 38.5 41.5 | $\begin{array}{r}-9.1 \\ + \\ + \\ \hline\end{array}$ | +2.6 +9.0 | 67.1 60.7 | +1.8 +1.3 | +13.1 +8.3 |
| Lighting equipment ${ }^{\text {a }}$ | 116.4 | +2.1 | +51.6 | 117.8 | +3.8 ++3 + | +82.9 | 31.52 | -1.7 | +20.7 | 40.5 | ${ }_{-2.0}^{+}$ | $+$ | 67.7 77 | +. 2 | +13.4 |
| Silverware and plated ware | 83.4 | -. 7 | +31.7 | 87.4 | -6.9 | +69.7 | 30.43 | $-6.3$ | +28.8 | 42.1 | -4.5 | +15.0 | 73.1 | -1.9 | +13.0 |
| Smelting and refining-copper, lead and zinc.- | 102.7 | +. 9 | +15.5 | 116.7 | +. 1 | +34.4 | 32.00 | -. 8 | +16.4 | 39.4 | -2.7 | +2.7 | 81.3 | +1.9 | +13.5 |
| Lumber and allied products. | ${ }^{7} 79.7$ | $+{ }_{+1 .}+1$ | +16.9 +20. | 85.6 110.1 | $+1.9$ | +41.0 | 23.23 | $-1.6$ | +20.7 | 39.9 41.4 | $-2.6$ | +7.9 +1.2 | ${ }_{60}^{57.7}$ | +.9 | +11.8 +11.4 |
| Furniture <br> Lumber: | 105.6 | +1.7 | +20.4 | 110. | +. 1 | +48.2 | 24.68 | -1.6 | +23.2 | 41.4 | -2.4 | +11.2 | 60.1 | +.8 | +11.4 |
| Millwork Sawmills | 75.7 70.2 | $\begin{aligned} & +4.5 \\ & +4.4 \end{aligned}$ | +21.0 +14.0 | 68.3 73.6 | $\begin{aligned} & +1.7 \\ & +3.3 \end{aligned}$ | +40.1 +36.7 | $\xrightarrow{24.74} \begin{aligned} & 21.61\end{aligned}$ | -2.7 -1.3 | $\begin{aligned} & +15.7 \\ & +19.9 \end{aligned}$ | 41.7 38.6 | $\begin{aligned} & -2.3 \\ & -2.7 \end{aligned}$ | $\begin{aligned} & +6.1 \\ & +6.2 \end{aligned}$ | $\begin{aligned} & 59.3 \\ & 55.9 \end{aligned}$ | $\begin{array}{r} -1.3 \\ +1.4 \end{array}$ | $\begin{array}{r} +9.3 \\ +12.9 \end{array}$ |


| Stone, clay, and glass products | 99.8 | +8.6 | $+20.9$ | 99.1 | -1.18 | +39.4 | 26. 94 | -3.6 | +15.3 | 97.4 | -3.6 | +4.7 +3 | 72.0 <br> 64 | +.4 +8 | +8.3 +145 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Brick, tile, and terra cotta | 77.6 | +3.9 | +21.1 | 73.8 | +2.8 | +42.4 | 24.70 | -1.1 | $+17.6$ | 38.4 | -1.2 | +3.9 | 64.7 | $+{ }_{+}+$ | +14.5 |
| Cement. | 82.4 | +4.1 | +14.5 | 90.6 | +1.2 | +32.3 | 31.00 | -2.8 | +15.6 | 40.2 | $-3.6$ | +6.5 | 77.1 | $+8$ | +8.5 |
| Glass | 127.9 | +1.9 | +23.9 | 147.1 | -4.1 | +39.8 | 28.19 | $-5.9$ | +13.0 | 36.1 | -6. 1 | +7.0 | 78.2 | -(4) | +5.1 |
| Marble, granite, slate, and other products.. | 45.3 | -. 5 | $-4.7$ | 34. 9 | +.8 | +2.0 | 26.90 | +1.3 | +7.0 | 36. 6 | $-.1$ | +4.3 | 73.3 | +1.2 | +1.8 |
| Pottery - | 116.7 | +2.0 | +33.7 | 114.9 | -2.8 | $+61.9$ | 24. 90 | $-4.7$ | +21.1 | 36.5 | -4.7 | +5.9 | 68.3 | +. 4 | +0.8 |
| Nondurable goods |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Textiles and their products | 113.2 | $+.5$ | +19.8 | 113.6 | +2.0 | +46. 2 | 20.57 | +1.5 | +22.1 | 37.4 | -1.7 | +10.8 | 55.0 | +2.8 | $+9.6$ |
| Fabrics ............ | 107.0 | +. 8 | $+21.6$ | 113.3 | +1.5 | +48.3 | 20.46 | +. 8 | +22.0 | 38.5 | -1.6 | +10.7 | 53.4 | +2.3 | +10.3 |
| Carpets and rugs... | 89.0 | $-1.0$ | +25.7 | 89.5 | -. 8 | $+65.8$ | 27.77 | +. 2 | +31.9 | 39.2 | $-.3$ | +23.5 | 70.9 | +. 4 | +6.7 |
| Cotton goods --.---- | 109.1 | $+.5$ | +23.9 | 122.9 | +2.4 | $+57.0$ | 18.26 | $+1.8$ | +26.6 | 38.8 | -2. 2 | +11.5 | 47.1 | +4.2 | $+13.8$ |
| Cotton small wares. | 105.2 | +1.4 | +42.0 | 120.6 | +3.7 | +74.1 | 22.29 | $+2.3$ | +22.5 | 40.9 | -1.5 | +10.6 | 54.6 | +3.8 | $+10.6$ |
| Dyeing and flnishing textiles.. | 139.0 | $-.2$ | +19.7 | 134.3 | +.8 | +41.4 | 23.43 | $+1.0$ | +18.0 | 38.2 | -. 6 | +5.8 | 60.8 | +1.7 | +11.7 |
| Hats, fur-felt ${ }^{\text {S.- }}$ | 83.6 | +1.1 | $+.8$ | 91.4 | +6.6 | +16.6 | 29.97 | +5.4 | +15.6 | 38.0 | +5.4 | +5.3 | 80.5 | +. 7 | +9.5 |
| Hosiery--..-...-.-- | 143.4 | $+.5$ | +9.3 | 159.9 | +1.1 | +23.8 | 19.93 | $+6$ | +13.2 | 36.3 | $-6$ | +12.5 | 55.2 | +1.3 | $+.6$ |
| Knitted outerwear. - | S0.8 | +1.8 | +22.2 | 75.0 | +. 2 | +39.5 | 19.29 | $-1.6$ | +14.0 | 37.9 | -2.4 | +5.7 | 50.3 | +. 5 | +7.1 |
| Knitted underwear. | 85.7 | +8.2 | +18.4 | 91.0 | +9.9 | +44.5 | 17.89 | +1.6 | +22.3 | 38.8 | +1.1 | +13.3 | 46.1 | $+.7$ | $+6.2$ |
| Knitted cloth...... | 159.7 | $-.3$ | +17.1 | 152.4 | $-3$ | + 30.2 | 21.74 | 0 | +11.2 | 39.6 | $-1.1$ | $+1.6$ | 53.9 | +1.3 | +7.5 |
| Silk and rayon goods. | 69.3 | $+.1$ | +14.6 | 64.0 | -. 1 | +37.4 | 19.00 | $-.2$ | +19.8 | 37.3 | -3.5 | +8.6 | 50.3 | +3.4 | $+10.3$ |
| Woolen and worsted goods.. | 109.0 | +1.0 | $+30.9$ | 116.8 | -. 1 | +58.1 | 24.75 | -1.1 | +20.9 | 39.5 | -1.3 | +8.9 | 62.8 | +. 2 | +10.9 |
| Wearing apparel | 122.3 | +. 3 | +16.6 | 107.3 | +3.1 | +41.7 | 20.88 | $+2.7$ | +21.5 | 35.4 | -1.8 | +10.8 | 58.2 | +3.9 | +8.9 |
| Clothing, men's. | 121.9 | +1. 5 | +18.1 | 109.4 | +2.0 | +42.6 | 22.82 | +. 4 | +20.2 | 35.6 | $-1.8$ | $+10.3$ | 63.8 | +1.9 | +9.1 |
| Clothing, women's | 159.8 | +. 7 | +16.4 | 127.8 | +7.5 | +43.0 | 21.43 | +6.8 | +23.1 | 35.0 | $-1.7$ | +9.8 | 58.4 | +7.5 | $+10.7$ |
| Corsets and allied garments. | 115.1 | $-2.4$ | +12.4 | 131.6 | -5. 2 | +31.9 | 19.01 | -2.8 | +17.4 | 37.9 | -2.8 | +10.6 | 50.1 | +.9 | $+6.7$ |
| Men's furnishings. | 126.2 | $+3.6$ | $+15.0$ | 137.3 | +4.7 | +40.6 | 16.07 | +1.1 | +22.5 | 34.9 | $-3.2$ | +9.9 | 44.7 | +3.4 | +11.9 |
| Millinery | -57. 5 | -8.5 | +5.4 | 39.6 | $-6.7$ | +8.4 +49. | 21. 05 | +1.9 | +2.9 | $\stackrel{27.6}{ }$ | -3.5 | $-5.5$ | 71.7 | +4.8 | +10.7 |
| Shirts and collars ${ }^{5}$ - | 129.2 | -2.2 | +16.8 | 131.0 | $-3.5$ | +49.3 | 16. 11 | $-1.3$ | +27.8 | 36.9 | -1.2 | +16.2 | 43.8 | +. 2 | +7.4 |
| Leather and its manufactures.. | 101.0 | +3.0 | +10.3 | 103.3 | +6.3 | + 35.2 | 23. 64 | +3.2 | +22.7 | 38.7 | +. 3 | $+9.3$ | 60.9 | +1.8 | +11.6 |
| Boots and shoes.- | -98. 1 | +3.3 | +8.1 | 98.8 | +7.5 | +32.4 | 22.53 | +4.1 | +22.7 | 38.4 | +. 8 | +9.1 | 58.4 | +1.9 | +11.6 |
| Leather | 95.5 | $+1.7$ | +19.2 | 109.4 | +2.7 | +44.1 | 23.64 | +1.0 | $+20.9$ | 40.3 | -1.4 | +9.9 | 71.1 | +1.5 | +9.3 |
| Food and kindred products.. | 144.5 | +7.0 | +6. 7 | 152.4 | +5. 6 | +16.1 | 26.81 | $-1.3$ | +8.8 | 41.1 | +. 5 | +3.0 | 66.1 | -1.6 | +6.1 |
| Baking...- | 150.2 | $-1.3$ | +2. 1 | 153.1 | -7.9 | $+7.7$ | 28.26 | +. 4 | +5.4 | 42.1 | -. 5 | +1.3 | 67.4 | +1.0 | +4.5 |
| Beverages. | 323.6 | +4.5 | +7.8 | 421.6 | +7.7 | +19.5 | 38.15 | +3.1 | +10.8 | 42.2 | +2.1 | $+6.6$ | 91.3 | +1.1 | +4.0 |
| Butter.-.-. | 112.6 | -1.1 | +7.7 | 103.8 | $-7$ | +15.5 | 24.06 | +. 3 | +7.1 | 46.8 | -. 2 | +2.2 | 50.8 | +. 4 | +5.6 |
| Canning and preserving-. | 210.1 | +54.6 | +17.3 | 213.4 | +59.8 | +46.1 | 19.38 | +3.4 | +24.6 | 38.9 | +6.2 | +7.2 | 50.4 | $-2.7$ | +15.0 |
| Confectionery | 83.2 | +3.4 | +13.0 | 84.5 | $-1.2$ | +22.0 | 19.61 | -4.5 | +7.9 | 35.6 | $-6.5$ | -. 8 | 54.6 | $+\left({ }^{4}\right.$ | +7.2 |
| Flour .-... | 80.1 | +2.8 | $-{ }^{(4)}$ | 82.4 | +4.2 | +8.8 | 27.61 | +1.4 | +8.8 | 43.3 | +. 4 | +4. 5 | 63.7 | +1.0 | +4.2 |
| Ice crearn--.-..............- | $\begin{array}{r}95.9 \\ \hline 18.5\end{array}$ | +4.1 | +4.1 | 84.9 | +2.8 | +8.7 | 29.99 | -1.2 | +4.5 | 46.7 | -6 | +2.2 | 64. 2 | -. 3 | +2.4 |
| Slaughtering and meat packing. | 118.5 | -1.6 | +6.6 | 139.3 | +1.1 | +18.5 | 30.62 | +2.7 | +11.1 | 41.5 | $+2.9$ | +3.4 | 73.7 | $-.1$ | +7.3 |
| Sugar, beet............ | 51.5 | $+7.1$ | $-10.7$ | 56.6 | -1.0 | +2.0 | 28.47 | $-7.5$ | +14.4 | 37.3 | $-6.3$ | +5.1 | 78.3 | -1.2 | +8.2 |
| Sugar refining, cane. | 93.1 | -5.5 | -7.9 | 87.0 | $-10.5$ | -4.9 | 26.47 | -5.2 | +3.2 | 39.3 | -5.8 | -. 1 | 67.4 | +. 7 | +3.4 |
| Tobacco manufactures | 65.4 | -. 2 | +4.8 | 69.8 | -. 6 | +12.0 | 19.45 | -. 5 | +6.9 | 37.3 | -1.0 | +2.1 | 52.3 | +. 7 | +5.5 |
| Chewing and smoking tobacco and snuff. | 52.0 | -. 2 | $-7.2$ | 67.9 | +1.3 | +2.1 | 21. 06 | +1. 4 | $+10.5$ | 36. 4 | +. 1 | +3.0 | 58.0 | +1.1 | $+6.6$ |
| Cigars and cigarettes.. | 67.0 | -. 3 | +6.0 | 69.9 | -. 8 | +13.2 | 19. 16 | $-.6$ | +6.8 | 37.4 | -1.1 | +1.4 | 51.7 | +. 6 | $+6.0$ |

MANUFACTURING-Continued

| Industry | Employment |  |  |  |  |  | A verage weekly carnings : |  |  | Average hours worked per week |  |  | Average hourly earnings |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Index July 1941 | Percentage change from |  |  |  |  | $\begin{aligned} & \text { July } \\ & 1941 \end{aligned}$ | Perc change | tage from- | $\begin{aligned} & \text { July } \\ & 1941 \end{aligned}$ | Percentage change from-. |  | $\begin{aligned} & \text { July } \\ & 1941 \end{aligned}$ | Percentage change from- |  |
|  |  | ${ }_{1941}$ | July 1940 |  |  |  | June <br> 1941 | July 1940 | ${ }_{1941}$ |  | July | $\underset{1941}{\text { June }}$ |  | $\begin{aligned} & \text { July } \\ & 1940 \end{aligned}$ |
| Nondurable goods-Continued |  |  |  |  |  |  |  |  |  |  |  |  |  | Cents |  |  |
| Paper and printing | 123.0 | $+1.2$ | +7.2 | 128.7 | +0.1 | $+15.7$ | 831. 70 | -1.1 | $+7.9$ | 39.6 | -1.3 | +3.0 | 82.5 | -(4) | +4.4 |
| Boxes, paper-.-- | 138.8 | +2.7 +1 | +19.7 +76 | 173.7 | +1.9 $+\quad 5$ | +36.0 +24.2 | ${ }_{30}^{25.12}$ | $-8$ | +13.7 +15 | 41.2 | $-2.3$ | +5.4 | 61. 4 | +1.3 | +8.1 |
| Paper and pulp --inio... | 126.0 | +1.1 | +7.6 | 156.9 | -. 5 | +24.2 | 30.49 | -1.6 | +15.5 | 42.0 | -3.0 | +3.2 | 72.7 | +1.3 | +11.8 |
| Book and job | 105.4 | +3.6 | +6.4 | 98. 4 | +3.8 | +13.5 | 32. 24 | +. 2 | +6.7 | 39.9 | +. 6 | +3.7 | 82.0 | $-.8$ | +2.4 |
| Newspapers and periodicals. | 114.8 | -2.2 | +1.2 | 109.8 | -3.3 | $+3.5$ | 38.93 | -1.1 | +2.3 | 35.6 | $-1.0$ | $-.3$ | 106.8 | +. 1 | +2.3 |
| Chemical, petroleum, and coal products.. | 138.3 | +1.8 | +16.7 | 175.2 | +2.4 | +31.7 | 33. 82 | +. 6 | $+12.9$ | 40.0 | $-1.0$ | +3.9 | 83.8 | +1.6 | +8.1 |
| Petroleum refining ......-.... | 127.4 | +1.7 | $+3.6$ | 157.2 | +. 3 | +15.1 | 38. 26 | -1.4 | $+11.1$ | 37.4 | -1.9 | +5.9 | 103.0 | +. 7 | +5.6 |
| Other than petroleum refining. | 140.9 | +1.9 | +20.0 | 180.7 | +3.0 | +37.0 | 32.27 | +1.0 | +14.1 | 40.8 | -. 8 | +2.9 | 77.7 | +1.9 | $+10.6$ |
| Chemicals .-.......... | 175.8 | +2.2 | +25.2 | 239.7 | +3.0 | +43.4 | 36.38 | +.9 | +14.5 | 41.0 | -1.7 | +2.3 | 88.6 | +2.3 | +11.7 |
| Cottonssed-oil, cake, and meal | 63.4 | -4.3 | +39.8 | 60.0 | -3.8 | +38.3 | 15. 23 |  | -1.2 | 40.0 | $-1.2$ | -4.9 | 36.4 | +1.8 | --4. 4 |
| Druggists' preparations. | $\underset{(9)}{128.7}$ | +1.0 | ${ }_{+}^{+13.5}$ | 162.8 | +8.6 | +30.7 | 28.33 <br> 38 <br> 8 | +7.5 | +15.1 | 41.5 | +1.4 | +3.2 +4.5 | 64.5 89 9 | +3.0 | +8.1 |
| Explosives* | $\stackrel{(9)}{91.0}$ | -1.6 | $(9)$ +14.1 | ${ }_{90} 9$ | ${ }^{(8)}{ }^{-3.4}$ | (1) +29.9 | 38.48 <br> 18.20 | $\pm .5$ | +11.9 +13.2 | 42.8 36.6 | -1.6 | +4.5 +3.7 | 89.9 49.7 | +1.1 +1.7 | +7.1 +9.1 |
| P'aints and varnishes. | 145.5 | +. 5 | +-16. 8 | 173.2 | -2.6 | +30.8 | 32. 69 | $-3.0$ | +12.0 | 41.8 | $-3.8$ | +4.1 | 78.3 | +.1 | +7.7 |
| Rayon and allied products. | 324.4 | -. 8 | +5.7 | 368.6 | $+1.7$ | +17.1 | 29.06 | +2.5 | +10.8 | 39.8 | +1.5 | +3.0 | 72.9 | +1.1 | +7.6 |
| Soap - | 101.4 | +8.7 | +24.8 | 140.6 | +8.9 | +40.7 | 32.65 | +. 2 | +13.5 | 41.2 | +.2 | +1.9 | 79.3 | $\underline{+}$ | +11.3 |
| Rubber products | 111.4 | +. 6 | +33.4 | 135.7 | -3.9 | +59.3 | 33. 13 | -4. 5 | +19.4 | 39.2 | $-5.2$ | +10.1 | 84.5 | $+.8$ | +8.1 |
| Rubher boots and shoes ..... | 79.3 | +1.4 | +46.9 | 94.2 | $-4.2$ | +84.2 | 27.31 | -5. 5 | +25.5 | 40.1 | -7.1 | +11.9 | 68.2 | +1.5 | +11.9 |
| Rubber tires and inner tubes. | 87.4 189.2 | $+1.3$ | +26.1 +37.3 | 118.4 214.2 |  | +53.0 +62.8 |  | -4.5 | +21.3 +18.6 | 37.8 40.4 | -5.3 | +11.8 +7.3 | 104.8 68.5 |  | +7.8 +100 |
| Rubber goods, other. | 189.2 | $-.5$ | +37.3 | 214.2 | -4.7 | +62.8 | 27.52 | -4.3 | +18.6 | 40.4 | -4. 5 | +7.3 | 68.5 | +. 2 | +10.0 |
| NONMANUFACTURING <br> [Indexes are based on 12 -month average, $1929=100$ ] |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Coal mining: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Anthracite 1011 | 49.3 | +0.1 | -2. 4 | 34.8 | -31.9 | $-4.7$ | 23.25 | $-32.0$ | -2.3 | 23.2 | -31.7 | -12. 1 | 99.8 | --0. 4 | +7.7 |
| Bituminous ${ }^{\text {a }} 10 .$. | 90.3 | +-2.4 | +6.3 | 104.4 | -2.6 | +38.9 | 30.91 | $-5.0$ | +30.6 | 28.7 | -9.9 | +8.3 | 102.8 | +. 2 | +14.1 |
| Metalliferous mining ${ }^{12}$, $\ldots$....-. | 78.7 | -. 2 | +10.9 | 78.1 | -8.5 | +22.7 | 31. 24 | -8. 3 | +10.6 | 39.4 | -7.6 | +.6 | 79.6 | $-.7$ | +10.0 |
| Quarrving and nonmetallic mining- | 52.8 61.8 | +1.8 +1 | +9.7 -3.1 | 55.4 61.8 | - -3.4 | +27.5 +4.6 | 26. 62 36.81 | -2.1 +3.0 | +16.3 +7.9 | 41.7 38.4 | -2.5 <br> +3.5 | a +4.3 +.1 | 63.9 93.3 | $\pm .6$ | +11.2 +7.1 |

elephone and telegraph 1314
Electric light and power 1314
Street railways and busses ${ }^{13}$ i4 16.
Trade:
Wholesale ${ }^{13} 16$.
Retail ${ }^{12}{ }^{14}$
General merchandising is 14 -
Apparel ${ }^{14}$.-.-
Automotive is
Luniber ${ }^{14}$
Hotels (year-round) 101317
Hotels year
Dyeing and cleaning ${ }^{10}$ -
Brokerage ${ }^{33}$
Building construction

| 88.6 | +2.7 | +12.4 |
| ---: | ---: | ---: |
| 94.9 | +1.5 | +2.8 |
| 69.4 | +.5 | +1.4 |
| 93.9 | +.1 | +5.3 |
| 96.7 | -1.1 | +8.5 |
| 108.8 | +.3 | +5.0 |
| 100.9 | -4.0 | +11.7 |
| 81.2 | -10.1 | +8.1 |
| 78.5 | -1.0 | +4.1 |
| 94.8 | +1.0 | +9.2 |
| 81.3 | +1.6 | +7.5 |
| 94.0 | -1.1 | +4.1 |
| 115.5 | +3.2 | +12.6 |
| 122.1 | -1.3 | +12.0 |
| $(9)$ | -.4 | -15.1 |
| $(9)$ | +1.0 | +1.5 |
| $(9)$ | +3.4 | +18.8 |


1 Mimeorraphed sheets giving a verages by years, 1932 to 1939 , inclusive, and by months, January 1088 to August 1940, inclusive, available on request. Average hours and average hourly earnings arc computed from data supplied by a smaller number of establishments than average weekly earnings, as not all rejorting firms furnish man-hours. The figures position of the reporting sample.
${ }^{2}$ See tables 9,10 , and 11 in the December 1940 issue of Employment and Pay Rolls for comparable series back to January 1919 for all manufacturing and back to January 1923 for the durable- and nondurable-goods groups
hfloymfnt and pay Rolls for revised figures ${ }_{4}{ }^{\text {Lrom Jess than }} 1,10$ or 11 Dercent.

Revisions have been made in the following industries as indicated:
Machine tools-April average weekly hours and average nourly earnings to 51.0 hours, 80.6 cents; April employge weekly hours and average nourly earnings
pay indexes to 316.7 and 471.5 .

Lighting equipment-February, Miarch, and April average weekly and hourly earnemployment and pay-roll indexes to $111.4,112.0,113.4$ and $104.9,105.5,105$
Sawmills-February, March, and April average weekly earnings to $\$ 19.59 ; \$ 20.32$, and $\$ 21.02$, February average weekly hours and average hourly earnings to 38.5 hours, 51.7 cents.
Hats, fur-fdt-January, February, March, and April average weekly earnings and hours to $\$ 27.12 . \$ 29.26, \$ 29.10, \$ 22.50$, and $36.2,38.4,38.5,29.1$ hours; November and to i3.0, $75.3,75.5,77.2,76.7,75.6$ cents; January, February, March, and April employment and pay-roll indexes to 83.0, 84.3, 85.2, and 81.7, 89.4, 89.9, 66.0.
Shirts and collars-January, February, Mareh, and April average weekly oarnings to $\$ 13.86, \$ 14.86, \$ 15.04, \$ 15.42$ : February average weekly hours to 35.8 ; January and February average hourly carnings to 42.0 and 41.5 cents; January, February, March, 117.8, $121.9,127$.

Bituminous-coal mining-April 1941 average weekly carnings to $\$ 17.63$.


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| $\dot{d}$ | $\infty$ |



- Adjusted on basis of a complete employment survey of the aircraft industry made by the Bureau of Labor Statistics for August 1940 . Not comparable with previously published indexes from January 1939 to August 1940, inclusive. Comparable figures for this period given in table 9 of the September 1940 issue of EMPlorment and Pay Rolls.
: The indexes for "Automobiles" have been adjusted to 1933 census figures, but not later census firures because of problems involving integrated industrie ${ }^{\circ}$ See table 8 in March 1941 EMployment and Par Rolls pamphlet for revised figures from January 1935 to February 1941.
${ }^{-}$Not available.
${ }^{10}$ Indcxes adjusted to 1935 census. Comparable series back to January 1929 presented in See table - issue of this pamphiet.
and pay-roll indexes, 1940 Emproyment and Pay Rolly for revised employment average weekly earnings average hours worked per week, average hourly earnings, and 12 See table 7 of February 1941 pamphitet for revised figures for metalliferous mining from January 1938 to January 1941, inclusive.
${ }^{13 *}$ A verage wcekly carnings, hourly earnings, and hours not comparable with figures published in pamphets prior to January 1938 as they now exclude corporation officers, executives, and other employees whose duties are mainiy supervisory
${ }^{14}$ Retail-trade indexes adjusted to 1935 census and public-utility indexes to 1937 census. Not comparable to indexes published in pansphlets prior to January 1940 or in Monthly Labor Review prior to Aprill 1940, with but 1 exception, retaill furniture, which has series for carlier months available upon request.
${ }^{13}$ Covers strect-railways and trolley and motorbus operations of subsidiary, affiliated, and successor companies; formerly "electric-railroad and motorbus operation and maintenance. 16
${ }^{16}$ Indexes adjusted to 1833 census. Comparable series in November 1934 and subse17 Cissucs of Employment and Pay Rolls
${ }_{18}$ See footnote 18 only; additional value or board, room, and tips not included. dustry from January 1939 through Jantary 1941 .
*See corresponding footnote on page 33 .

Table 9.-Employment, Pay Rolls, Hours, and Earnings in Manufacturing and Nonmanufacturing Industries, May through July 1941

## MANUFACTURING

[Indexes are based on 3-year average, 1923-25=100. For "all manufacturing," "durable goods," "nondurable goods," and "aluminum manufactures," they have been adjusted to preliminary 1939 census figures. The indexes for all other manufacturing groups and industries have been adjusted to 1937 census figures, except as otherwise noted, and are not

| Industry | Employment index |  |  | Pay-roll index |  |  | A verage weekly earnings ${ }^{\text {a }}$ |  |  | A verage hours worked per week ${ }^{1}$ |  |  | A verage hourly earnings ${ }^{\text {1 }}$ |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{aligned} & \text { July } \\ & 1941 \end{aligned}$ | $\begin{aligned} & \text { June } \\ & 1941 \end{aligned}$ | $\begin{aligned} & \text { May } \\ & 1941 \end{aligned}$ | $\begin{aligned} & \text { July } \\ & \text { 1941 } \end{aligned}$ | $\begin{aligned} & \text { June } \\ & \text { 1941 } \end{aligned}$ | $\begin{gathered} \text { May } \\ 194 \mathbf{1} \end{gathered}$ | $\begin{aligned} & \text { July } \\ & \text { 1941 } \end{aligned}$ | $\begin{aligned} & \text { June } \\ & 1941 \end{aligned}$ | $\begin{gathered} \text { May } \\ 1941 \end{gathered}$ | $\underset{1941}{\text { July }}$ | $\begin{aligned} & \text { June } \\ & \text { I } 941 \end{aligned}$ | $\begin{aligned} & \text { May } \\ & 1941 \end{aligned}$ | July <br> 1941 | ${ }_{1941}^{\text {June }}$ | $\begin{aligned} & \text { May } \\ & 1941 \end{aligned}$ |
| All manufacturing ${ }^{2}$ | 130.6 | 127.8 | 124.8 | 152.8 | 152.1 | 144. 1 | \$ 31.20 | \$31.85 | \$30. 78 | 40.3 | 41.3 | 40.8 | Cents 74.4 | $\begin{array}{r} \text { Cents } \\ 73.8 \end{array}$ | Cents 72.6 |
| Durable goods ${ }^{2}$ | 137.9 | 135.1 | 131.3 | 172.6 | 173.8 | 169.1 | 35.80 | 36.90 | 35.57 | 41.5 | 43.1 | 42.5 | 82.8 | 82.2 | 80.6 |
| Nondurable goods ${ }^{\text {a }}$ | 123.7 | 121.0 | 118.8 | 130.6 | 127.8 | 122.9 | 25.15 | 25.09 | 24.48 | 39.0 | 39.4 | 38.9 | 65.7 | 65.0 | 64.1 |
| Durable goods |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Iron and steel and their products, not including machinery $\qquad$ | 138.3 | 136.1 | 132.9 | 168.9 | 188.6 | 160.9 | 35.46 | 36.38 | 35.71 | 39.9 | 42.0 | 41.5 | 86.2 | 88.3 | 85.8 |
| Blast furnaces, steel works, and rolling mills.-. .- | 147.2 | 144.0 | 140.6 | 181.5 | 179.9 | 172.7 | 38.99 | 39.46 | 38.98 | 38.7 | 41.0 | 40.4 | 96.3 | 96.4 | 96.7 |
| Bolts, nuts, wasbers and rivets.. | 167.4 | 165. 6 | 161.1 | 224.3 | 248.4 | 233.7 | 32.14 | 36.02 | 34.92 | 41.6 | 45.8 | 45.1 | 77.2 | 78.7 | 77.5 |
| Cast-iron pipe...-.....--.....-.---- | 97.6 | 96.9 | 94.4 | 112.2 | 114.6 | 110.3 | 27.45 | 28.25 | 27.93 | 40.4 | 41.9 | 41.7 | 67.7 | 67.0 | 66.6 |
| Cutlery (not including silver and plated cutlery) and edge tools... | 123.6 | 120.4 | 118.5 | 134.9 | 139.2 | 134.3 | 28.65 | 30.32 | 29.73 | 42.0 | 43.9 | 43.4 | 69.1 | 69.9 | 69.4 |
| Forgings, iron and steel...- ..... | 107.2 | 104. 3 | 102.1 | 157.1 | 163.7 | 152.3 | 38.84 | 41.63 | 39.62 | 43.9 | 47.0 | 46.0 | 88.6 | 88.8 | 86.4 |
| Hardware.- | 114.2 | 118.3 | 116.7 | 136.8 | 150.2 | 141.5 | 29.51 | 31. 26 | 29.89 | 40.5 | 42. 5 | 42.3 | 73.0 | 73.7 | 70.7 |
| Plumbers' supplies ${ }^{3}$ | 101.7 | 102.4 | 102.1 | 101.6 | 106.3 | 104.9 | 28.89 | 29.90 | 29.64 | 38.9 | 40.4 | 40.6 | 74.2 | 74.0 | 73.0 |
| Stamped and enameled ware | 222.0 | 220.2 | 218.0 | 272.1 | 279.0 | 265.0 | 28.61 | 29.67 | 28.51 | 39.9 | 41.7 | 40.5 | 71.6 | 71.2 | 70.5 |
| Steam and hot-water heating apparatus and steam fittings. | 119.0 | 114.1 | 112.1 | 137.5 | 137.8 | 128.6 | 34.65 | 36.32 | 34.63 | 43.4 | 44.8 | 44.0 | 80.1 | 81.2 | 78.8 |
|  | 116.6 | 115.9 | 113.4 | 122.0 | 124.7 | 119.3 | 29.61 | 30.33 | 29.66 | 40.3 | 41.5 | 41.2 | 73.0 | 73.1 | 72.1 |
| Structural and ornamental metalwork. | 107.3 | 105.5 | 102.3 | 112.1 | 120.1 | 113.8 | 33.74 | 36.98 | 36.13 | 41.2 | 44.4 | 44.0 | 82.2 | 83.6 | 82.5 |
| Tin cans and other tinware --.-.......-----.-- | 138.8 | 132.0 | 120.5 | 171.3 | 163.2 | 146.4 | 27.59 | 27.70 | 27.27 | 42.0 | 42.1 | 42.1 | 66.4 | 63.0 | 65.2 |
| Tools (not including edge tools, machine tools, files, and saws). | 139.8 | 138.2 | 135.5 | 172.6 | 181.0 | 171.7 | 31. 29 | 33.07 | 32.01 | 43.3 | 46.8 | 46.1 | 72.9 | 71.3 | 70.0 |
|  | 213.2 | 216.1 | 213.3 | 271.6 | 284.5 | 276.5 | 30.85 | 31.88 | 31.32 | 42.0 | 42.9 | 42.9 | 73.5 | 74.3 | 73.1 |
| Machinery, not including transportation equipment | 172.6 | 188.0 | 162.5 | 233.3 | 230.2 | 217.2 | 37.51 | 38.00 | 37.17 | 44.6 | 45.6 | 45.4 | 88.6 | 83.2 | 81.8 |
| Agricultural implements (including tractors) | 171.4 | 171.8 | 170.7 | 228.4 | 233.3 | 229.0 | 36.62 | 37.32 | 36.88 | 41.2 | 42.1 | 41.8 | 89.0 | 88.6 | 88.6 |
| Cash registers, adding machines, and calculating machines | 167.5 | 162.6 | 151.3 | 214.0 | 216.2 | 196.0 | 39.87 | 41.34 | 40.28 | 43.9 | 45.3 | 45.9 | 91.6 | 92.4 | 88.8 |
| Electrical machinery, apparatus, and supplies- | 163.6 | 158.5 | 154.0 | 231.9 | 223.9 | 215. 3 | 37.34 | 37.21 | 36. 68 | 43.5 | 43.9 | 44.4 | 85.5 | 84.5 | 82.9 |
| Engines, turbines, water wheels, and windmills | 297.8 | 285.5 | 271.5 | 497.7 | 476.0 | 444. 1 | 44.34 | 44. 23 | 43.39 | 46.5 | 46.7 | 46.5 | 95.2 | 94.9 | 93.6 |
| Foundry and machine-sbop products. | 143.3 | 139.7 | 134.9 | 177.8 | 179.1 | 166.2 | 36.61 | 37.76 | 36.51 | 44.6 | 46.0 | 45.4 | 81.7 | 81.9 | 80.3 |

Machine tools 4 －．．．．．．．．．．． Radios and phonographs．－．－ Textile machinery and parts．

Transportation equipment ${ }^{\text {s }}$ ．．．． Aircraft ${ }^{\text {s }}$
Automobiles 0 ．－
Cars，electric and steam－railroad． Shipbuilding

Nonferrous metal and their products．－． Aluminum manufactures ${ }^{7}$ Brass，bronze，and copper products． Clocks and watches and time－recording de－ Jewelry
Lighting equipment ${ }^{4}$
Silverware and plated ware
Smelting and refining－copper，lead，and zinc
Lumber and allied products．
Furniture
Millwork
Sawmills－－
Stone，clay，and glass products
Brick，tile，and terra cotta
Cement
Marble，granite，slate，and other products
Pottery
Nondurable goods
Textiles and their product
Fabrics－－．．．．．．．．．．．．．
Cotton goods
Cotton small wares－．．．．．．－．－．
Hats，fur felt ${ }^{4}$ ．．
Hosiery
Knitted outerwear－
Knitted underwear
Knitted cloth
Woolen and worsted goods
See footnotes at end of table．

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Table 9.-Employment, Pay Rolls, Hours, and Earnings in Manufacturing and Nonmanufacturing Industries, May through July 1941-Continued
MANUFACTURING-Continued

| Industry | Employment index |  |  | Pay-roll index |  |  | Average weekly earnings |  |  | A verage hours worked per week |  |  | A verage hourly earnings |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | July 1941 | June | ${ }_{1941}^{\text {May }}$ | $\begin{aligned} & \text { July } \\ & 1941 \end{aligned}$ | June | May 1941 | July 1941 | June | May 1941 | $\begin{aligned} & \text { July } \\ & 1941 \end{aligned}$ | $\begin{aligned} & \text { June } \\ & 1941 \end{aligned}$ | May | July 1941 | $\operatorname{June}_{1941}$ | $\begin{aligned} & \text { May } \\ & 1941 \end{aligned}$ |
| Nondurable goods-Continued |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Textiles and their products-Continued. |  |  |  |  |  |  |  |  |  |  |  |  | Cents | Cents | Cents |
| Wearing apparel...-- | 122.3 | 121.9 | 124.2 | 107.3 | 104. 1 | 105.9 | \$20.88 | \$20.48 | \$20.22 | 35.4 | 36.0 | 36. 2 | 58.2 | 55. 9 | 55.0 |
| Clothing, men's..... | 121.9 <br> 159 | 120.0 158.6 | 118.8 165.4 | 109.4 127.8 | 107.3 118.9 | 101.2 | ${ }_{21}^{22.82}$ | 22.77 20.14 | 21.66 21.37 | 35.6 350 | 36.3 35.7 |  | 63.8 <br> 58 <br> 8 | ${ }_{52}^{62.9}$ | 60.1 |
| Clothing, women's....-.-...-. | 159.8 115.1 | 158.6 118.0 | 165.4 118.1 | 127.8 131.6 | 118.9 138.7 | 131.7 136.6 | 21.43 | 20.14 19.49 | 21.37 19.12 | 35.0 37.9 | 35.7 38.8 | 36.7 38.7 | 58.4 50.1 | 54.3 49.6 | 54.6 48.8 |
| Men's furnishings.-- | 126.2 | 121.8 | 122.0 | 137.3 | 131.1 | 129.9 | 16.07 | 15. 89 | 15.85 | 34.9 | 36.1 | 36.5 | 44.7 | 43.3 | 42.7 |
| Millinery ......- | 57.5 | 62.8 | 75.7 | 39.6 | 42.5 | 51.0 | 21.05 | 20.66 | 20.59 | 27.6 | 28.6 | 28.6 | 71.7 | 68.4 | 66.6 |
| Shirts and collars ${ }^{\text {d }}$ | 129.2 | 132.0 | 131.9 | 131.0 | 135.7 | 130.7 | 16.11 | 16. 29 | 15. 74 | 36.9 | 37.3 | 37.0 | 43.8 | 43.7 | 42.9 |
| Leather and its manufactures | 101.0 | 98.1 | 95.5 | 103.3 | 97.2 | 91.0 | 23.64 | 22.97 | 22.09 | 38.7 | 38.7 | 37.5 | 60.9 | 59.9 | 59.0 |
| Boots and shoes... ... | 98.1 | 94.9 | 93.0 | 98.8 | 91.9 | 86.7 | 22.53 | 21.66 | 20.89 | 38.4 | 38.2 | 36.9 | 58.4 | 57.3 | 56.7 |
| Leather.-.----- | 95.5 | 93.9 | 89.6 | 109.4 | 106.6 | 97.6 | 28.64 | 28.52 | 27.29 | 40.3 | 40.8 | 40.1 | 71.1 | 70.1 | 68.1 |
| Food and kindred products | 144.5 | 135.0 | 127.4 | 152.4 | 144.3 | 134.7 | 26.61 | 27.07 | 26.68 | 41.1 | 41.0 | 40.3 | 66.1 | 67.2 | 87.0 |
| Baking..... | 150.2 | 152.2 | 149.0 | 153.1 | 154.4 | 148.4 | 28.26 | 28.21 | 27.56 | 42. 1 | 42.5 | 41.8 | 67.4 | 66.5 | 65.9 |
| Beverages.. | 323. 6 | 309.6 | 293.0 | 421.6 | 391.3 | 362.4 | 38. 15 | 35.99 | 36. 19 | 42.2 | 41.4 | 40.7 | 91.3 | 90.2 | 89.8 |
| Butter-..- | 112.6 | 113.8 | 109.6 | 103.8 | 104. 6 | 97.4 | 21.06 | 23.98 | 23.15 | 46.8 | 46.9 | 45.9 | 50.8 | 50.6 | 49.5 |
| Canning and preserving.. | 210.1 | 135.9 | 99.9 | 213.4 | 133.5 | 91.1 | 19. 38 | 18.75 | 17.44 | 38.9 | 36. 6 | 34.3 | 50.4 | 51.9 | 51.7 |
| Contectioncry .. | 83.2 | 80.4 | 81.0 | 84.5 | 85.5 | 83.7 | 19.61 | 20.50 | 19.91 | 35.6 | 38.1 | 37.6 | 54.6 | 54.6 | 53.1 |
| Flour..... | 80.1 | 77.9 | 76.5 | 82.4 | 79.1 | 75.3 | 27.61 | 27.22 | 26. 44 | 43.3 | 43.2 | 42.0 | 63.7 | 63.1 | 62.6 |
| Ice cream..... | 95. 9 | 92.1 | 86.9 | 84.9 | 82.6 | 75.1 | 29.99 | 30.65 | 29.28 | 46.7 | 46.7 | 45.4 | 64.2 | 64.4 | 63.9 |
| Slaughtering and meat packing.- | 118.5 | 120.3 | 116.8 | 139.3 | 137.8 | 133.1 | 30.62 | 29.79 | 29.55 | 41.5 | 40.4 | 40.5 | 73.7 | 73.8 | 73.1 |
| Sugar, beet | 51.5 | 48.1 | 47.4 | 56.6 | 57.2 | 53.8 | 28. 47 | 30.71 | 29.35 | 37.3 | 39.8 | 39.5 | 78.3 | 79.0 | 77.2 |
| Sugar refining, cane. | 93.1 | 98.6 | 102.5 | 87.0 | 97.1 | 90.0 | 26.47 | 27.91 | 24.89 | 39.3 | 41.7 | 38. 2 | 67.4 | 66.9 | 65.2 |
| Tobacco manufactures. | 65.4 | 65.5 | 64. 9 | 69.8 | 70.2 | 67.1 | 19.45 | 19.48 | 18.82 | 37.3 | 37.6 | 36. 9 | 52.3 | 51.7 | 50.9 |
| Chewing and smoking tobacco and snuff. | 52.0 | 52.1 | 52.8 | 67.9 | 67.1 | 66.9 | 21.06 | 20.76 | 20.45 | 36.4 | 36.4 | 36.4 | 58.0 | 57.4 | 56.4 |
| Cigars and cigarettes........................ | 67.0 | 67.2 | 66.4 | 69.9 | 70.4 | 67.0 | 19.16 | 19.25 | 18. 52 | 37.4 | 37.8 | 36.9 | 51.7 | 51.3 | 50.3 |
| Paper and printing | 123.0 | 121.6 | 120.8 | 128.7 | 128.6 | 124.9 | 31.70 | 32.01 | 31.13 | 39.6 | 40.1 | 40.0 | 82.5 | 82.6 | 81.1 |
| Boxes, paper | 138.8 | 135.1 | 129.7 | 173.7 | 170.4 | 159.2 | 25. 12 | 25.31 | $\stackrel{24.55}{ }$ | 41. 2 | 42.3 | 41.8 | 61.4 | 60.5 | 59.2 |
| Paper and pulp- | 126.0 | 124.6 | 122.7 | 156.9 | 157.7 | 145.6 | 30.49 | 30.97 | 29.07 | 42.0 | 43.3 | 43.0 | 72.7 | 71.6 | 67.6 |
| Printing and publishing: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Book and job... | 105.4 | 101.7 | 103.2 | 98.4 | 94.8 | 95.7 | 32.24 | 32.30 | 32.01 | 39.9 | 39.7 | 39.7 | 82.0 | 82.6 | 81.9 |
| Newspapers and periodicals --... | 114.8 | 117.4 | 117.6 | 109.8 | 113.6 | 114.0 | ${ }^{33} 93$ | 39. 39 | 39.51 | 35.6 | 35.8 | 36.2 | 106.8 | 106.9 | 106.6 |
| Chemical, petroleum, and coal products. | 138.3 | 135.8 | 134.3 | 175.2 | 171.1 | 163.6 | 33.82 | 33. 61 | 32.41 | 40.0 | 40.5 | 39.8 | 83.8 | 82.4 | 80.6 |
| Petroleum refining .-..---........ | 127.4 | 125. 2 | 122.0 | 157.2 | 156.7 | 146. 3 | 38. 26 | 38.74 | 37.14 | 37.4 | 38.2 | 37.0 | 103.0 | 102.0 | 100.8 |
| Other than petroleum refining....- | 140.9 | 138.3 | 137.3 | 180.7 | 175.5 | 168.9 | 32.27 | 31. 73 | 30.78 | 40.8 | 41.2 | 40.7 | 77.7 | 76.1 | 74.4 |
| Chemicals --..-....-..........-.-. | 175.8 | 172. 1 | 166.8 | 239.7 | 232.6 | 221.8 | 36. 38 | 36. 00 | 35. 48 | 41.0 | 41.7 | 41.1 | 88.6 | 86.4 | 86.3 |
| Cottonseed-oil, cake, and meal. Druggists' preparations | 63.4 128.7 | 66.3 127.4 | 72.1 125.2 | 60.0 162.8 | 62.4 149.9 | 66.3 1428 | 15. 23 28.33 | 15. 17 26.43 | 14.73 25.49 | 40.0 41.5 | 40.4 41.0 | 40.3 39.4 | 36.4 64.5 | 35.9 62 | 35.0 61.5 |


| Explosives*- |  | (8) | ${ }^{(8)}$ | (8) | ${ }^{8}$ | ${ }^{(8)}$ | ${ }^{(8)}$ | 38.48 | 38.31 | 37.02 | 42.8 | 43.0 | 42.0 | 89.9 | 89.1 | 88.2 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Fertilizers - |  | 91.0 | 92.5 | 127.1 | 00.5 | 93.7 | 127.4 | 18.20 | 18.15 | 17.99 | 36.6 | 37.4 | 38.5 | 49.7 | 48.5 | 46.8 |
| Paints and varnishes. |  | 145.5 | 144.8 | 141.4 | 173.2 | 177.8 | 170.4 | 32. 69 | 33.81 | 33.05 | 41.8 | 43.4 | 43.0 | 78.3 | 78.0 | 77.0 |
| Rayon and allied products. |  | 324.4 | 327.0 | 323. 5 | 368.6 | 362.4 | 356.2 | 29. 06 | 28.35 | 28. 16 | 39.8 | 39.3 | 39.5 | 72.9 | 72.2 | 71.2 |
| Soap. |  | 101.4 | 93.3 | 92.2 | 140.6 | 129.0 | 125.7 | 32.65 | 32. 58 | 32. 13 | 41.2 | 41.1 | 40.7 | 79.3 | 79.3 | 78.9 |
| Rubber products. |  | 111.4 | 110.7 | 106.4 | 135.7 | 141.2 | 128.7 | 33. 13 | 34.69 | 32. 82 | 38.2 | 41.4 | 40.8 | 84.5 | 83.6 | 81.6 |
| Rubber boots and shoes. |  | 79.3 | 78.2 | 74.8 | 94.2 | 98.4 | 88.3 | 27.31 | 28.91 | 27.11 | 40.0 | 43.0 | 41.2 | 68.2 | 67.2 | 65.8 |
| Rubber tires and inner tubes... |  | 87.4 | 86.3 | 83.3 | 118.4 | 122.4 | 111.1 | 39. 54 | 41.41 | 38.88 | 37.8 | 39.9 | 38.6 | 104.8 | 103.7 | 100.8 |
| Rubber goods, other ...... |  | 189.2 | 190.1 | 181.7 | 214.2 | 224.9 | 207.2 | 27.52 | 28.61 | 27. 56 | 40.4 | 42.3 | 41.7 | 68.5 | 68.0 | 66.6 |

NONMANUFACTURING

| [Indexes are based on 12-month average, 1929 = 100] |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Coal mining: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Anthracite ${ }^{10}$ | 49.3 | 49.2 | 48.6 | 34.8 | 51.2 | 33.4 | 23.25 | 34. 20 | 22.59 | 23.2 | 34.0 | 22.9 | 99.8 | 100.2 | 94.5 |
| Bituminous ${ }^{\circ}$ | 90.3 | 88.1 | 87.9 | 104.4 | 107.2 | 103.4 | 30.91 | 32.37 | 31.31 | 28.7 | 31.7 | 30.9 | 102.8 | 102.3 | 100.5 |
| Metalliferous mining ${ }^{11}$ | 78.7 | 78.9 | 77.1 | 78.1 | 85. 3 | 81.5 | 31.24 | 34. 07 | 33. 28 | 39.4 | 42.7 | 41.8 | 79.6 | 80.2 | 79.9 |
| Quarrying and nonmetallic mining | 52.8 | 51. 9 | 51.0 | 55.4 | 55.7 | 53.2 | 26. 62 | 27. 19 | 26. 30 | 41.7 | 42.8 | 42.5 | 63.9 | 63.5 | 61.7 |
| Crude-petroleum production | 61.8 | 61.7 | 60.4 | 61.8 | 59.9 | 58.8 | 36.81 | 35.72 | 35. 59 | 38.4 | 37.1 | 38.0 | 93.3 | 93.4 | 91.1 |
| Public utilities: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Telephone and telegraph ${ }^{19} 13$ | 88.6 | 86.3 | 84.6 | 116. 5 | 113.0 | 110.5 | 32.16 | 32.02 | 31.91 | 40.7 | 40. 2 | 40.3 | 79.5 | 80.2 | 79.7 |
| Electric light and power ${ }^{12} 13$ | 94.9 | 93.5 | 92.2 | 113.7 | 111.4 | 109. 6 | 36. 64 | 36.44 | 36. 32 | 39.7 | 39.3 | 40.2 | 92.9 | 92.9 | 90.7 |
| Street railways and husses ${ }^{15} 1314$ | 69.4 | 69.1 | 68.9 | 76.0 | 76.2 | 72.7 | 35.64 | 35.91 | 34.36 | 45.8 | 47, 7 | 46.4 | 76.5 | 74.5 | 73.0 |
| Trade: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Wholesale $12{ }^{13}$.. | 93.9 | 93.8 | ${ }^{92.2}$ | 88.1 | 88.2 | 84.6 | 32. 04 | 32. 14 | 31. 90 | 41.0 | 41.4 | 41.2 | 79.0 | 78.4 | 78. 1 |
| Retail ${ }^{1213}$ | 96.7 | 97.8 | 96.1 | 94.1 | 95.2 | 91.5 | 22. 49 | 22. 31 | 21.94 | 42.7 | 42.8 | 42.4 | 57.5 | 57.2 | 56. 4 |
| Food ${ }^{13}$ | 108.8 | 108. 5 | 107.5 | 105. 4 | 104.0 | 100.7 | 24.85 | 24. 61 | 23.95 | 43.1 | 42.6 | 42.4 | 55.3 | 55.1 | 54.1 |
| General merchandising ${ }^{12} 18$ | 100.9 | 105. 1 | 102.5 | 97.5 | 100.1 | 96.0 | 18. 06 | 18.75 | 18. 55 | 38.8 | 38.7 | 38.4 | 48.7 | 48.0 | 47.6 |
| Apparel ${ }^{18}$--. | 81.2 | 90.3 | 90.5 | 78.7 | 85.6 | 84.5 | 22.44 | 21.95 | 21.47 | 38.3 | 38.0 | 37.7 | 58.7 | 57.6 | 56. 9 |
| Furniture ${ }^{13}$ | 78.5 | 79.3 | 78.7 | 75.9 | 77.8 | 75.7 | 29.96 | 30.59 | 29.99 | 43.9 | 44.4 | 44.3 | 72.3 | 74.0 | 72.6 |
| Automotive ${ }^{13}$. | 94.8 | 93.9 | 92.3 | 99.2 | 102.7 | 99.9 | 30.85 | 32. 31 | 32.44 | 47.1 | 48.0 | 47.2 | 67.2 | 68.7 | 69.3 |
| Lumber ${ }^{13}$.- | 81.3 | 80.0 | 77.0 | 82.4 | 81.0 | 76.5 | 28. 28 | 28. 26 | 27.85 | 42.9 | 43.2 | 43.0 | 67.3 | 66.4 | 65.3 |

Table 9.-Employment, Pay Rolls, Hours, and Earnings in Manufacturing and Nonmanufacturing Industries, May through July 1941-Continued
NONMANUFACTURING-Continued

| Industry | Employment index |  |  | Pay-roll index |  |  | A verage weekly earnings |  |  | Average hours worked per week |  |  | A verage hourly earnings |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | July | June 1941 | May | July | June | ${ }_{1941}^{\text {May }}$ | July 1941 | June | ${ }_{1941}^{\text {May }}$ | July | June | May 1941 | July 1941 | June | May 1941 |
| Hotels (year-round) ${ }^{12}{ }^{16} \ldots$ | 94.0 | 95.0 | 96.3 | 87.2 | 87.4 | 87.9 | \$16.01 | \$15. 86 | \$15.77 | 46.4 | 45.8 | 45.4 | C- $\overline{\text { chts }}$ | Crents | ${ }_{\text {Cents }}^{34.1}$ |
| Laundries ${ }^{\text {P }}$-..........-. ${ }^{\text {- }}$ | 115.5 | 112.0 | 108. 3 | 106.4 | 102.5 | 98.7 | \$18. 19 | +19.09 | 19.02 19.02 | 46.4 43.6 | 43.7 | 45.4 43.7 | 34.2 44.1 | 34.2 43.9 | 34.1 43.7 |
| $D$ yeing and cleaning 0 | 121. 1 | 122.7 | 120.6 | 96.2 | 98.4 | 96.1 | 22.05 | 22.27 | 22.04 | 43.8 | 44.7 | 44.7 | 51.1 | 50.6 | 50.2 |
|  | $-0.4$ | -0.9 | $-1.6$ | -0.2 | +0.1 | $-1.3$ | 39.41 | 39.32 | 38. 58 | ${ }^{(5)}$ | ${ }^{(3)}$ | (8) | ${ }^{(8)}$ | ${ }^{8}$ (8) | ${ }^{8}$ ) |
| Insurance ${ }^{12} 17$.-.-.-- | +1.0 | +. 3 | +. 2 | +. 4 | +.8 | +. 7 | 37.44 | 37.65 | 37.55 | ${ }^{(8)}$ | (8) | (8) | (8) | ${ }^{(8)}$ | (8) |
| Building construction ${ }^{17}$. | +3.4 | +3.3 | +5.4 | +4.3 | +4.2 | +8.0 | 35. 38 | 35.15 | 34.87 | 35.4 | 35.3 | 35.1 | 100.0 | 99.7 | 99.3 |

1 Mimeographed sheets giving averages by years, 1932 to 1939, inclusive, and by months, January 1938 to August 1940, inclusive, available on request. A verage hours and average hourly earnings are computed from data supplied by a smaller number of establishments than average weekly earnings, as not all reporting firms furnish man-hours. size and composition of the reporting sample.
${ }_{9}$ See tables 9,10 , and 11 in the Deeember 1940 issue of Emplofment and Pay Rolls for comparable series back to January 1919 for all manufacturing and back to January 1923 for the durable- and nondurable-goods groups.
${ }^{3}$ See table 7 in the April 1941 issue of Employment and Pay Rolls for revised figures from January 1940 to March 1941

Machine tools-April average weekly hours and average hourly earnings to 51.0 hours, 80.6 cents; A pril employment and pay-roll indexes to 316.7 and 471.5 .
Lighting equipment-February, March and April average weekly and hourly earnings to $\$ 29, \$ 29.05, \$ 28.81$ and $71.7,71.7,72.3$ cents; February, March, and April employment and pay-roll indexes to 11.4, 112.0, 113.4 and 104.9, 100.5, 105.7 . and $\$ 21.02$, February average weekly hours and average hourly earnings to 38.5 hours, 51.7 cents.

Hats, fur-felt-January, February, March, and April average weekly earnings and Hats, fur-fell-- anuary, February, March, and April a verage weekly earnings and
hours to $\$ 27.12, \$ 29.26, \$ 29.10, \$ 22.50$, and $36.2,38.4$, $38.5,29.1$ hours; November and December 1g40, January, February, Mareh, and April 1941 average hourly earnings to 73.0, 75.3, 75.5, 77.2, 76.7, 75.6 cents; January, February, March,
which has been revised since publication of July 1940 pamphlet back to January 1936. Comparable series for earlier months avaliable upon request. ${ }^{14}$ Covers street-railways and trolley and motorbus operations of subsidiary, affiliated, and suceessor companies; formerly "electric-railroad and motorbus operation and maintenance.
adjusted to 1933 consus. Comparable series in November 1934 and subseque Cash payments only; additional value of board, room, and tips not included.
${ }^{17}$ Indexes of employment and pay rolls are not available; percentage changes from preceding month substituted:
${ }^{19}$ Average weekly earnings in brokerage from January 1939 through January 1941
vised as follows:

| Year | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. | Av- er- age |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Dol. | Dol. |  | Dol. | Dol. | Dol. | Dol. | Dol. | Dol. | Dol. | Dol. | Dol. | Dol. |
| 1939 | 35. 93 | 36.27 | 36. 50 | 36.45 | 36.69 | 36.29 | 36. 36 | 35.91 | 36.84 | 37. 22 | 37.00 | 37.99 | 36.63 |
| 1940 | 37.62 | 37.62 | 37.49 | 48.29 | 37.95 | 37.27 | 36.88 | 35.76 | 36.54 | 37. 70 | 37.55 | 38.86 | 37. 46 |
| 1941. | 38. 25 |  |  | -. $\cdot$ | -..... | -. .- | -. .- | -. .- |  |  |  |  |  |

and April employment and pay-roll indexes to 83.0, 84.3, 85.2, 80.9 and 81.7,
Shirts and collars-January, February, March, and A pril average weekly earnings to $\$ 13.86, \$ 14.86, \$ 15.04, \$ 15.42$; February average weekly hours to 35.8 ; JanFebruary March and April employment and pay-roll indexes to 118.8, 126.0, 128.3, 130.8 and 104.3, 117.8, 121.9, 127.1.

Bituminous-coal mining-A pril 1941 average weekly earnings to $\$ 17.63$.
${ }^{5}$ Adjusted on basis of a complete employment survey of the aircrat industry made by the Bureau of Labor Statistics for August 1940. Not comparable with previously published indexes from January 1939 to August 1940 , inclusive. Comparable figures for t
period given in table 9 of the September 1940 issue of EMPLOYMENT AND PAY Rolls. ${ }^{6}$ The indexes for "Automobiles" have been adjusted to 1933 census figures, but not to later census figures because of problems involving integrated industries.
"See table 8 in March 1941 Employment and Pay Rolls pamphlet for revised figures from January 1935
${ }^{9}$ Indexes adjusted to 1935 census. Comparable series back to January 1929 presented in January 1938 issue of this pamphlet. in See table 7 of October 1940 Emplo YMENT AND PAY ROLLS for revised employment and pay-roll indexes, average hours worked per week, average hourly earnings, and
average weekly earnimgs in anthracite mining, February 1940 to September 1940 , inclusive. average weekly earnings in anthracite mining, February 1840 to september 1940 , inclusive.
it See table 7 of February 1941 pamphlet for revised figures for metalliferous mining 11 See table 7 of February 1941 pamphlet for
from January 1938 to January 1941, inclusive.
${ }_{12}$ A verage weekly earnings, hourly earnings, and hours not comparable with figures published in pamphlets prior to January 1938 as they now exclude corporation officers, executives, and other employees whose duties are mainly supervisory.
${ }^{13}$ Retail-trade indexes adjusted to 1935 census and public-utility indexes to 1937 census. Not comparable to indexes published in pamphlets prior to January 1940 or in th MONTHLY Labor Review prior to April 1940 , with but 1 exception, retail furniture
*Average hours and earnings in explosives revised as follows:


Table 10.-Indexes of Employment and Pay Rolls in 55 Additional Manufacturing Industries
[12-month average $1939=100$ ]


1 Not a vailable.
${ }_{3}$ Revisions of employment and pay-roll indexes in the following industries have been made as indicated:
Wire, not made in rolling mills-January, February, and March employment and pay-roll indexes to 126.5, $130.6,133.0$ and $141.2,146.9$, 154.0.

Steel barrels, kegs and drums-March employment and pay-roll indexes to 108.4 and 127.1.
Refrigerators and refrigerating apparatus-March employment and pay-roll indexes to 148.2 and 174.0 .
Sewing machines-January employment and pay-roll indexes to 112.1 and 127.5 .
Motorcycles, bicycles and parts-January employment and pay-roll indexes to 117.1 and 120.0 .
Sheet-metal work-January pay-roll index to 146.0 .
Smelting and refining of scrap metal-February pay-roll index to 146.7.
Caskets and morticians goods-January, February, and March employment indexes to 100.2, 102.3, 102.9; February and March pay-roll indexes to ilo.6 and ind.
Lime-January, February, March employment and pay-roll indexes to 107.8, 108.9, 111.7, and 120.1, 116.9, 120.7.

Curtains, draperies and bedspreads--January, February employment and pay-roll indexes to 95.0, 103.9, and $102.5116 \mathrm{R}_{\mathrm{i}}$

「able 11.-Indexes of Employment and Pay Rolls in Selected Manufacturing ${ }^{1}$ and Nonmanufacturing ${ }^{2}$ Industries, July 1940 to July 1941

| Industry | 1940 |  |  |  |  |  |  | 1941 |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Av. | July | Aug. | Sept. | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July |
|  | Employment |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| All lndustrles... | 107.5 | 103. 2 | 107.4 | 111.4 | 113.8 | 114.7 | 116.2 | 115. 5 | 117.8 | 119.9 | 122.6 | 124.9 | 127.8 | 130.6 |
| Durable goods ${ }^{3}$ | 104.3 | 98. 4 | 102.4 | 108.2 | 112.8 | 115.5 | 117. 7 | 118.3 | 121.0 | 123. 7 | 127.7 | 131.3 | 135.1 | 137.9 |
| Nondurable goods ${ }^{4}$ | 110.6 | 107.8 | 112.2 | 114.4 | 114.8 | 113.8 | 114.8 | 112.7 | 114.7 | 116.3 | 117.8 | 118.8 | 121.0 | 123.7 |
| Non manufacturing |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Anthracite mining 5 | 50.7 | 50.5 | 49.9 | 49.8 | 49.4 | 50.4 | 50.8 | 50.3 | 50.6 | 50.2 | 48.7 | 48.6 | 49.2 | 49.3 |
| Bituminous-coal mining ${ }^{5}$-. | 88.0 | 84.9 | 86.6 | 87. 7 | 89.2 | 89.8 | 90,1 | 90, 2 | 90.6 | 91. 1 | 23.5 | 87.9 | 88.1 | 90.3 |
| Metalliferous mining ${ }^{6}$...... | 69.9 | 71.0 | 71.5 | 72. 5 | 72.6 | 72.5 | 72, 2 | 72.5 | 73, 4 | 74.3 | 77.2 | 77.1 | 78.9 | 78. 7 |
| Quarrying and nonmetal- | 45.3 | 48.1 | 48.5 | 48.9 | 48.8 |  |  |  | 42. |  | 18.2 | 510 | 519 | 528 |
| Crude-petroleum production | 62 |  |  |  |  |  |  |  |  |  |  |  | 61.7 | 61.8 |
| Telcphone and telegraph ${ }^{\text {? }}$ | 77.9 | 78.8 | 79.0 | 78.9 | 79.1 | 79.2 | 79, 7 | 80.4 | 80.9 | 81.8 | 83.2 | 84.6 | 86.3 | 88.6 |
| Electric llght and power ${ }^{7}$. | 91.1 | 92. 2 | 93.0 | 92. 7 | 92.3 | 91.8 | 91.3 | 90.5 | 90.1 | 90.3 | 91.3 | 92, 2 | 93.5 | 94.9 |
| Street railways and busses 78 | 68.5 |  | 68.4 |  |  |  | 68.4 | 68.3 |  |  |  |  |  | 69.4 |
| Wholesale trade | 90.4 | 89.2 | 90.1 | 90.9 | 91.0 | 91.8 | 92. 5 | 91. 2 | 91.4 | 91.8 | 92.4 | 92. 2 | 93.8 | 93.9 |
| Retail trade ${ }^{\text {a }}$ | 92.3 | 89.1 | 88.7 | 92.8 | 94.3 | 96.3 | 108.1 | 90.5 | 90.7 | 92.5 | 97.8 | 96.1 | 97.8 | 96.7 |
| Year-round hotels | 92, 0 | 90.3 | 90.3 | 91.6 | 93.4 | 92.3 | 92.6 | 92.9 | 93.9 | 94.2 | 95.2 | 96.3 | 95.0 | 94. 0 |
| Laundries ${ }^{\text {b }}$ | 99.5 | 102.5 | 102.8 | 101.9 | 100.2 | 99.7 | 100.3 | 101. 4 | 101. 1 | 102.5 | 104.9 | 108. 3 | 112.0 | 115.5 |
| Dyeing and cleaning ${ }^{5}$. | 104. 7 | 108. 2 | 106. 7 | 110.0 | 109.4 | 106. 0 | 103.3 | 101.0 | 101. 4 | 104. 4 | 117.2 | 120.6 | 122.7 | 121.1 |
| Manufacturing |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| All industries... | 105. 4 | 98.2 | 105. 5 | 111.6 | 116.2 | 116.4 | 122.4 | 120.7 | 126.8 | 131. 2 | 134.7 | 144. 1 | 152. 1 | 1528 |
| Durable goods | 107.8 | 97.4 | 106.5 | 115.1 | 123.4 | 125. 1 | 131. 7 | 132.0 | 139.3 | 144. 6 | 149.9 | 163.1 | 173.8 | 172.6 |
| Nondurable goods ${ }^{\text {4 }}$ | 102. 7 | 99.1 | 104.4 | 107.7 | 108. 1 | 106.6 | 112.1 | 108.1 | 112.9 | 116.3 | 117.7 | 122.9 | 127.8 | 130.6 |
| Nonmanufacturing |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Anthracito mining ${ }^{\text {B }}$ | 38.5 | 36.5 | 33.1 | 39.3 | 32.3 | 37.6 | 42.7 | 38.5 | 45. 2 | 42.4 | 24.3 | 33.4 | 51.2 | 34.8 |
| Bituminous-coal mining ${ }^{\text {a }}$ - | 81. 2 | 75. 2 | 82. 5 | 83.2 | 83.6 | 84.5 | 91.4 | 87.8 | 90.8 | 93.8 | ${ }^{9} 15.5$ | 103.4 | 107. 2 | 104.4 |
| Metalliferous mining ${ }^{\text {c }}$-..-- | 66.7 | 63.6 | 68.5 | 69.5 | 71.3 | 69.8 | 72.8 | 70.4 | 71.8 | 72.7 | 78.9 | 81.5 | 85.3 | 78.1 |
| Quarrying and nonmetallic mining. | 40.5 | 43.5 | 45.2 | 46.2 | 46.7 | 42, 3 | 42.4 | 36.9 | 38.2 | 40.3 | 47.0 | 53.2 | 55. | 55.4 |
| Crude-petroleum produc- |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| tion..-.----.---...-. | 58.2 | 59.1 | 59.0 | 58.2 | 57.6 | 56.8 | 55. 9 | 55.7 | 57.3 | 56.1 | ${ }^{9} 57.8$ | 58.8 | 59.9 | 61.8 |
| Telephone and telegraph ${ }^{7}$ - | 100. 2 | 101. 3 | 100.4 | 101.8 | 102.2 | 103.2 | 103.5 | 103.9 | 104.3 | 106. 4 | 107.3 | 110.5 | 113.0 | 116. 5 |
| Electric light and power ${ }^{7}$-- | 104.8 | 105. 8 | 108.1 | 105.8 | 107.0 | 106.9 | 106.0 | 105. 1 | 105. 4 | 106.1 | 107. 6 | 109.6 | 111. 4 | 113.7 |
| Street railways and busses 78 | 70.4 | 70.0 | 70.4 | 71.5 | 70.7 | 70.3 | 73.1 | 70.7 | 71. | 72.5 | 72.0 | 72.7 | 76.2 | 76.0 |
| Wholesale trade | 79.0 | 78.3 | 78.7 | 81.1 | 80.2 | 80.7 | 83.4 | 80.5 | 81.4 | 82.0 | 83.4 | 84.6 | 88.4 | 88.1 |
| Retail trade 7 | 84, 2 | 82.6 | 81.5 | 85.1 | 85.8. | 87.1 | 97.3 | 83.7 | 84. 6 | 86.2 | 91.7 | 91.5 | 95.2 | 94.1 |
| Year-round hotels ${ }^{\text {s }}$ | 82.4 | 80.5 | 80.7 | 81.8 | 84.2 | 83.6 | 84.1 | 84.1 | 86.1 | 85.7 | 87.1 | 87.9 | 87.4 | 87.2 |
| Lanndries ${ }^{\text {b }}$ | 87.7 | 90.0 | 90.5 | 89.9 | 88.0 | 87.2 | 89.2 | 89.8 | 89.7 | 90.9 | 95.8 | 98.7 | 102. 5 | 106.4 |
| Dyeing and cleaning ${ }^{5}$ | 78.2 | 80.0 | 78.9 | 85.6 | 82.4 | 77.8 | 75.8 | 73.3 | 74.4 | 77.2 | 97.8 | 96.1 | 98.4 | 96.2 |

[^5]
## Public Employment

Employment created by the Federal Government includes employment financed from both regular and emergency appropriations.

## EXECUTIVE SERVICE OF THE FEDERAL GOVERNMENT

Statistics of employment and pay rolls for the executive service of the Federal Government in June and July 1941 are given in table 12.

Table 12.-Employment and Pay Rolls for the Executive Service of the United States Government, July $1941{ }^{\text {t }}$
[Subject to revision]

| Class | Employment |  |  | Pay rolls |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{aligned} & \text { July } \\ & 1941 \end{aligned}$ | $\begin{aligned} & \text { June } \\ & 1941 \end{aligned}$ | $\begin{gathered} \text { Percent- } \\ \text { age } \\ \text { change } \end{gathered}$ | $\begin{aligned} & \text { July } \\ & 1941 \end{aligned}$ | $\begin{aligned} & \text { July } \\ & 1941 \end{aligned}$ | Percentage change |
| Entire service: Total. | 1,391,689 | 1,370, 110 | +1.6 | \$205, 977, 306 | \$205, 581, 047 | +0.2 |
| Regular appropriation | 1, 203, 371 | 1, 167, 162 | +3.1 | 178, 152, 006 | 176, 632, 657 | $+.9$ |
| Emergency appropriation.. | 24, 486 | 48,206 | -49.2 | 3, 407, 055 | 6, 711, 406 | $-49.2$ |
| Force-account --.-.-.-.-. | 163, 832 | 154, 742 | +5.9 | 24, 418, 245 | 22, 236,984 | +9.8 |
| Inside the District of Columbia: Total. | 185, 182 | 184, 236 | +. 5 | 28, 524, 770 | 30, 601, 662 | -6.8 |
| Regular eppropriation.-... | 171, 425 | 167, 672 | +2.3 | 26, 063, 693 | 27, 739, 709 | $-6.0$ |
| Emergency appropriation.. | 3,558 | 7, 845 | $-54.6$ | 482, 691 | 1, 216, 424 | $-60.3$ |
| Force-account-- | 10,199 | 8,719 | +17.0 | 1,978, 386 | 1,645,529 | +20.2 |
| Outside the District of Columbia: Total. | 1, 206, 507 | 1, 185, 874 | +1.7 | 177,452,536 | 174, 979,385 | +1. 4 |
| Regular appropriation..... | 1,031,946 | 999, 490 | +3.2 | 152, 088,313 | 148, 892, 948 | +2.1 |
| Emergency appropriation. | 20,928 | 40, 361 | -48. 1 | 2, 224,364 | 5, 494, 982 | -46.8 |
| Force-account .-.................... | 153, 633 | 146, 023 | +5.2 | 22, 439, 859 | 20,591, 455 | +9.0 |

${ }^{1}$ Data relate to the last pay period of the month.

## CONSTRUCTION PROJECTS FINANCED BY THE PUBLIC WORKS ADMINISTRATION

Details concerning employment, pay rolls, and man-hours worked during July on construction projects financed from Public Works Administration funds are given in table 13, by type of project.

Table 13.-Employment and Pay Rolls on Projects Financed from Public Works Administration Funds, July $1941{ }^{1}$
[Subject to revision]

| Type of project | Employment |  | Monthly pay rolls | Manhours worked during month | Average earnings per hour | Value of material orders placed during month |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Maximum ${ }^{2}$ | Weekly average |  |  |  |  |
| All programs.- | 7,456 | 6,351 | \$807, 747 | 910.668 | \$0. 887 | \$1, 247, 860 |
|  | Federal projects financed from National Industrial Recovery Act and Public Works Administration Appropriation Act 1938 funds |  |  |  |  |  |
| All projects. . .. | ${ }^{3} 1,047$ | 986 | \$116, 247 | 144, 158 | \$0. 806 | \$185, 785 |
| Airport construction (exclusive of buildings) - | 129 | 129 | 12,748 | 19,063 | . 669 | 7,361 |
| Building construction.-. | 186 | 168 | 21, 525 | 20, 812 | 1. 034 | 117, 477 |
| Public roads ${ }^{1 .}$ | (5) | 60 | 2, 482 | 6, 716 | . 370 | 5,000 |
| Reclamation....---..........-- | 612 | 575 | 76,356 | 94,665 | 807 | 49, 184 |
| River, harbor, and flood control..... | 36 | 36 | 932 | 1,286 | . 725 | 96 |
| Streets and roads .--- ....... | 15 | 9 | 567 | 1,685 | . 840 | 6,656 |
| Water and sewerage_ | 7 | 7 2 | 1, 556 | 784 147 | 1. 985 | 7 4 |
| Miscellancous---- -....---- | 2 | 2 | 81 | 147 | . 551 | 4 |

Non-Federal projects financed from National Industrial Recovery Act, Emergency Relief Appropriation Act 1935, 1936, and 1937, and Public Works Administration Aet 1938 funds

All projects.
Building construction
Electrification.
Heavy engineering....
Heavy engineering......
Railroad construction...
Reclamation
Streets and roads...
Water and sewerage.
Miscellaneous.

| 6,409 | 5,365 | \$691,500 | 766, 510 | \$0.902 | \$1,062,075 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 952 | 713 | 105, 246 | 73, 708 | 1. 428 | 129,010 |
| 311 | 287 | 53, 885 | 38, 187 | 1. 411 | 36,071 |
| 4, 268 | 3,623 | 460, 661 | 578, 624 | . 796 | 851, 233 |
| 51 | 51 | 120 | 248 | . 484 |  |
| 81 | 40 | 4,981 | 5,048 | . 987 | 8,052 |
| 163 | 145 | 12,928 | 10,972 | 1. 178 | 2, 714 |
| 562 | 485 | 51,000 | 57, 046 | . 894 | 34,995 |
| 21 | 21 | 2,679 | 2,679 | 1. 000 | 0 |

${ }^{1}$ Data are for the month ending on the 15th
2 Maximum number employed during any 1 week of the month by each contractor and Government agency doing force-account work.
${ }_{3}$ Includes weekly average for public roads.

- Under the jurisdiction of Public Roads Administration.
${ }^{5}$ Not available; weekly average included in total for all projects.


## UNITED STATES HOUSING AUTHORITY

Table 14 shows data concerning employment, pay rolls, and manhours worked in July 1941 on low-rent projects of the United States Housing Authority.

Table 14.-Employment and Pay Rolls on Low-Rent Housing Projects Operated by the United States Housing Authority, July 1941
[Subject to revision]

| Geographic division | Employment |  | Monthly pay rolls | Man-hoursWorkedduringmonth | A verage earnings per hour | Value of material orders placed during month |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Maximum | Weekly average |  |  |  |  |
| All divisions..... | 36,543 | 31,213 | \$3, 849, 428 | 4, 016, 493 | \$0.958 | \$4, 818, 811 |
| New England. | 3,711 | 3,225 | 461, 908 | 426, 498 | 1. 083 | 877,489 |
| Middle Atlantic. | 4,684 | 4, 012 | 661, 798 | 500, 115 | 1. 323 | 847,385 |
| East North Central. | 6,639 | 5,749 | 882, 716 | 748, 814 | 1. 179 | 1,015, 212 |
| West North Central. | 468 | 439 | 47,721 | 39,543 | 1. 207 | 76, 529 |
| South Atlantic--. | 9, 292 | 7,891 | 879, 207 | 1,023, 840 | . 859 | 870,007 |
| East South Central. | 2, 258 | 1, 881 | 160,837 | 231, 854 | . 694 | 161,559 |
| West South Central | 4,944 | 4,173 | 415, 550 | 518, 601 | . 801 | 576, 278 |
| Mountain.-..- | 472 | , 437 | 28,770 | 28, 406 | 1. 013 | 33,386 |
| Pacific.- | 1,676 | 1, 361 | 222, 554 | 183, 118 | 1. 215 | 289,616 |
| Outside continental United States.- | 2,399 | 2, 045 | 88,367 | 315, 704 | . 280 | 71,350 |

## WORK PROJECTS ADMINISTRATION PROGRAM

A record of employment, pay rolls, and man-hours worked in July on work-relief projects of the Work Projects Administration is shown in table 15.

Table 15.-Employment and Pay Rolls on Work Relief Projects of the Work Projects Administration, July 1941
[Subject to revision]

| Type | Employ ment | Pay rolls | $\begin{gathered} \text { Man-hours } \\ \text { worked } \end{gathered}$ | Average earnings per hour |
| :---: | :---: | :---: | :---: | :---: |
| All W. P. A. projects.. | 1,055, 012 | \$68, 200,000 | 147, 200, 000 | \$0. 463 |
| Projects operated by W. P. A.-.......... | 1,041, 123 | 67, 400, 000 | 145, 400, 000 | . 464 |
| Projects operated by other Federal agencies. | 13, 880 | 800, 000 | 1, 800, 000 | . 444 |

${ }^{1}$ Employment represents the average of weekly counts made as of each Wednesday during the calendarmonth.

Data on employment, pay rolls, and man-hours worked in July on each type of project operated by the Work Projects Administration were not available when this report was prepared. The figures for June are presented in table 16.

Table 16.-Average Employment and Pay Rolls on Projects Operated by the Work Projects Administration, by Type of Project, June 1941
[Subject to revision]

| Type of project | $\underset{\text { ment } i}{\text { Employ- }}$ | Pay rolls | $\begin{gathered} \text { Man-hours } \\ \text { worked } \end{gathered}$ | Average earnings per hour |
| :---: | :---: | :---: | :---: | :---: |
| All projects.---------.---. .-... | 1,369, 728 | \$79, 222, 498 | 172, 559,357 | \$0.459 |
| Conservation | 31, 551 | 1,747, 149 | 3, 913, 385 | . 446 |
| Highways, roads, and streets. | 536, 362 | 24, 633, 353 | 58,530, 639 | . 421 |
| Community service programs, excluding sewing-- | 273,575 | 18, 052, 534 | 35, 644, 239 | . 506 |
| Public buildings ${ }^{2}$ | 114, 845 | 8,932, 865 | 18, 119, 980 | . 493 |
| Publicly owned or operated utilities.... ...... | 126, 203 | 7,712, 295 | 16, 233, 049 | . 475 |
| Recreational facilities ${ }^{3}$ | 71,936 | 3, 125, 112 | 6,233,412 | . 501 |
| Sanitation-- | 18, 930 | 764, 376 | 1, 856, 552 | . 412 |
| Sewing.... | 108, 194 | 4,985, 582 | 12, 241, 089 | . 407 |
| Airports and airways.- | 17,668 | 4, 343, 699 | $10,193,631$ | . 426 |
| Not elsewhere classified-Total | 70, 464 | 4, 925, 533 | 9, 593, 381 | . 513 |
| National defense vocational training | 35,959 | 1, 980, 348 | 4, 365, 605 | . 454 |
| Other- | 34, 505 | 2, 945,185 | 5,227, 776 | . 563 |

${ }^{1}$ Data for "All projects" and for "National defense vocational training" represent the average of the weekly counts made as of each Wednesday during the calendar month; data for all other types are estimated on the basis of employment on June 25, 1941.

* Separate data for housing projects are not available.
${ }^{3}$ Exclusive of buildings.


## NATIONAL YOUTH ADMINISTRATION

Employment and pay rolls on the National Youth Administration projects for June and July 1941 are shown in table 17.

Table 17.-Employment and Pay Rolls on National Youth Administration Projects, July and June 1941
[Subject to revision]

| Type of project | Employment |  | Pay rolls |  |
| :---: | :---: | :---: | :---: | :---: |
|  | July | June | July | June |
| Total | 325, 045 | 750, 518 | \$7, 176, 122 | \$10, 715, 168 |
| Student work program. | 2,309 | 358, 004 | 12, 375 | 2,602, 449 |
| Out-of-school work program. | 322,736 | 392, 514 | 7,163, 747 | 8,112,719 |

## CIVILIAN CONSERVATION CORPS

Employment and pay rolls in the Civilian Conservation Corps in June and July 1941 are presented in table 18.

Table 18.-Employment and Pay Rolls in the Civilian Conservation Corps, July 1941 ${ }^{1}$ [Subject to revision]

| Group | Employment |  | Pay rolls |  |
| :---: | :---: | :---: | :---: | :---: |
|  | July 1941 | June 1941 | July 1941 | June 1941 |
| All groups | 210, 121 | 235, 024 | \$10, 388, 164 | \$11, 277, 971 |
| Enrolled personnel ${ }^{2}$-... | 178, 296 | 199, 646 | 5, 603, 997 | 5, 988, 552 |
| Nurses ${ }^{3}$....-....-.-.--- | ${ }_{1} 124$ | 125 | 17, 313 | 17,349 |
| Educational advisers ${ }^{\text {a }}$--1..- | 1,392 30 | 1,476 | - 244, 314 | 5 257, 384 |
| Supervisory and technical ${ }^{3}$ - | 30,309 | 33,777 | 4, 522, 540 | 5, 014, 686 |

1 Employment figure is an average of counts of enrolled personnel taken at 10 -day intervals, and number employed on last day of month for other groups.
${ }^{2}$ July data include 3,249 enrollees and pay roll of $\$ 60,711$ outside continental United States; in June the corresponding figures were 3,166 enrollees and pay roll of $\$ 61,506$.
${ }^{3}$ Included in executive service, table 12.

## CONSTRUCTION PROJECTS FINANCED BY THE RECONSTRUCTION FINANCE CORPORATION

Statistics of employment, pay rolls, and man-hours worked on construction projects financed by the Reconstruction Finance Corporation in July are presented in table 19, by type of project.

Table 19.-Employment and Pay Rolls on Projects Financed by the Reconstruction Finance Corporation, by Type of Project, July $1941^{1}$
[Subject to revision]

| Type of project |  | Employment ${ }^{2}$ | Monthly pay rolls | Man-hours worked during month | Average carnings per hour | Value of material orders placed during month |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| All projects. |  | 13,398 | \$1, 908, 303 | 1,762, 708 | \$1.083 | \$7, 111, 944 |
| Building construction ${ }^{3}$ Streets and roads. Water and sewerage. Heavy engineering. |  | 12, 750 | 1, 865, 024 | 1,716, 975 | 1. 086 | \$7, 027, 032 |
|  |  | 412 | 6,913 | 10,624 | . 651 |  |
|  |  | 155 | 27, 435 | 27,899 | . 983 | 78,812 |
|  |  | 81 | 8,931 | 7,210 | 1. 239 | 6, 100 |

${ }^{t}$ Data are for the month ending on the 15th.
9 Maximum number employed during any 1 week of the month by each contractor.
${ }^{3}$ Includes 467 employees; pay-roll disbursements of $\$ 93,869 ; 73,899$ man-hours worked; and material orders placed of $\$ 33,837$ on projects financed by RFO Mortgage Co.

## CONSTRUCTION PROJECTS FINANCED FROM REGULAR FEDERAL APPROPRIATIONS

Data concerning employment, pay rolls, and man-hours worked on construction projects financed from regular Federal appropriations during July 1941 are given in table 20, by type of project.

Table 20.-Employment and Pay Rolls on Construction Projects Financed from Regular Federal Appropriations, by Type of Project, July $19411^{1}$
[Subject to revision]

| Type of project | Employment |  | Monthly pay rolls | Manhours worked during month | Average earnings per hour | Value of material orders placed during month |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Maximum ${ }^{2}$ | Weekly a verage |  |  |  |  |
| All projects. | 3 872,663 | 797, 294 | \$121, 148, 189 | 135, 617, 465 | \$0.893 | \$203, 484, 140 |
| Airport construction.. | 59,996 | 54, 987 | 8, 435,957 | 9,490,936 | . 889 | 11, 716, 752 |
| Building construction: Residential | 68,095 | 58,806 | 7,363, 244 | 8,360, 224 | . 881 | 8,866, 924 |
| Nonresidential.. | 335, 854 | 295, 070 | 48, 862, 601 | 49, 552, 870 | . 986 | 59, 232, 107 |
| Electrification: <br> Rural Electrification Administration projects 4 | 11,036 | 9,048 | 612,426 | 1,142,083 | . 536 | 3,347, 221 |
| Other than R. E. A. projects.- | 823 | 691 | 105, 158 | 1, 96, 333 | 1. 092 | 98,448 |
| Heavy engineering.. | 8,678 | 8,678 | 433, 118 | 802,762 | . 540 | 431, 804 |
| Public roads ${ }^{\text {a }}$. | (e) | 86,436 | 9, 271,125 | 13, 647, 938 | . 679 | 12,990, 893 |
| Reclamation--- | 30,275 | 29,509 | 4,450, 706 | 4, 909, 600 | . 907 | 9, 879,401 |
| River, harbor, and flood control: Dredging, dikes, revetments, etc. | 33, 949 | 30, 204 | 3,623, 432 | 4, 951, 591 | . 732 | 5, 761, 588 |
| Locks and dams. | 7,709 | 7,082 | 940, 672 | 1, 184, 470 | 794 | 2, 114, 768 |
| Ship construction: <br> Naval vessels. | 168, 250 | 160, 528 | 30, 364, 601 | 32, 780, 502 | . 926 | 74, 466,681 |
| Other than naval vessels.. | 39,603 | 35, 198 | 5,637,564 | 6, 062,681 | . 930 | 12,069, 245 |
| Streets and roads.... | 2, 419 | 2, 103 | 213, 825 | 291, 004 | . 735 | 422, 116 |
| Water and sewerage. | 1,902 | 1,771 | 217,806 | 286, 681 | . 760 | 600, 492 |
| Miscellaneous.. | 17,638 | 17, 183 | 616, 054 | 2,057,790 | . 299 | 1,485,700 |

${ }^{1}$ Data are for the month ending on the 15th.
${ }^{2}$ Maximum number employed during any 1 week of the month by each contractor and Government agency doing force-account work.
${ }^{3}$ Includes weekly average for public-road projects.
4 Financed by Rural Electrification Administration loans.
${ }^{s}$ Under the jurisdiction of the Public Roads Administration.
${ }^{6}$ Not available; weekly average included in the total for all projects.

## STATE-ROADS PROJECTS

A record of employment and pay-roll disbursements on the construction and maintenance of roads financed wholly from State or local funds in July 1941, compared with June 1941, and July 1940, is presented in table 21.

Table 21.-Employment and Pay Rolls on Construction and Maintenance of State Roads, July 1941, June 1941, and July $1940{ }^{1}$
[Subject to revision]

| Item | Employment ${ }^{3}$ |  |  | Pay rolls |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | July 1941 | June 1941 | July 1940 | July 1941 | June 1941 | July 1940 |
| Total. | 202,158 | 196, 655 | 197,950 | \$16, 758, 517 | \$14, 596, 060 | \$14, 696, 498 |
| New roads.... Maintenance. | $\begin{array}{r} 65,507 \\ 136,651 \end{array}$ | $\begin{array}{r} 61,759 \\ 134,896 \end{array}$ | $\begin{array}{r} 61,705 \\ 136,245 \end{array}$ | $4,924,578$ $11,833,939$ | $4,231,809$ $10,364,260$ | $3,884,957$ $10,711,541$ |

1 Projects financed wholly from State or local funds.
${ }^{2}$ Average number working during month.


[^0]:    ${ }^{1}$ Excludes military and naval forces, as well as employees on W. P. A. and N. Y. A. projects, and enrollees in C. C. C. camps.
    ${ }^{2}$ Excludes also proprietors, firm members, self-employed persons, casual workers, and domestic servants.

[^1]:    See footnotes at end of table.

[^2]:    418443-41-3

[^3]:    * Approximate-based on previous month's sample.

[^4]:    ${ }^{1}$ Includes force-account and supervisory and technical employees shown under other classifications to the extent of 196,080 employees and pay-roll disbursements of $\$ 29,267,610$ for July 1941, and 190,120 employees and pay-roll disbursements of $\$ 27,526,403$ for June 1941 .
    ${ }_{2}$ Data covering P. W. A. projects financed from National Industrial Recovery Aet funds, Emergency Relief Appropriation Acts of 1935, 1936, 1937 funds, and Public Works Administration Appropriation Aet of 1938 funds are included. These data are not shown under projects financed by the Work Projects Administration. Includes 3,446 wage earners and $\$ 358,713$ pay roll for July 1941; 3,327 wage earners and $\$ 363,935$ pay roll for June 1941; covering Public Works Administration projects financed from Emergency Relief Appropriation Acts of 1935,1936 , and 1937 funds. Includes 3,758 wage oarners and $\$ 437,254$ pay roll for July 1941 financed from funds provided by the Public Works Administration Appropriation Act of 1938.
    ${ }^{1}{ }^{3}$ Includes 467 employees and pay-roll disbursements of $\$ 93,869$ for July $1941 ; 351$ employees and pay-roll disbursements of $\$ 59,073$ for June 1941; on projects financed by the RFC Mortgage Co.
    4 Pay-roll data not available.

[^5]:    ${ }^{1} 3$-year average 1923-25=100-adjusted to preliminary 1939 Census of Manufactures. Sce tables 9, 10, and 11 of Jecember 1940 Employment and Par Rolls for comparable figures back to January 1919 for "all manufacturing" and January 1923 for "durable goods" and "nondurable goods."
    212 -month average for $1929=100$. Comparable indexes for wholesale trade, quarrying, metal mining, and crude-petroleum production are in November 1934 and subsequent issues of Employment and Pay Rolls, or in February 1935 and subsequent issues of Monthly Labor Review. For other nonmanufacturing indexs see notes 5,6 , and 7 .
    ${ }^{3}$ Includes: Iron and steel, machinery, transportation equipment, nonferrous metals, lumber and allied products, and stone, clay, and glass products.
    a Includes: Textiles and their products, leather and its manufactures, food and kindred products, tobacco manulactures, paper and printing, chemicals and allied products, products of petroleum and coal, rubber products, and a number of miscellancous industries not included in other groups.
    $s$ Indexes have been adjusted to the 1935 census. Comparable series from January 1929 forward are presented in January 1938 and subsequent issues of this pamphlet. See also table 7 of October 1940 pamphlet for revised figures for anthracite mining February 1940 to September 1940.

    - See table 7 of February 1941 pamphlet for revised indexes January 1938 to January 1941.

    7 Retail-trade indexes adjusted to 1935 census and public-utility indexes to 1937 census. Not comparable with indexes published in Employmmet and Pay Rolls pamphlets prior to January 1940 or in Monthly Labor Review prior to April 1940. Comparable series January 1929 to December 1939 available in mimeographed form.
    ${ }_{8}$ Covers street railways and trolley and motorbns operations of subsidiary, affiliated, and successor companies.
    ${ }^{0}$ Revised.

