

*Serial No. R. 1347*

**UNITED STATES DEPARTMENT OF LABOR**

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# EMPLOYMENT AND PAY ROLLS

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**JUNE 1941**

UNITED STATES GOVERNMENT PRINTING OFFICE • WASHINGTON • 1941

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# *Employment and Pay Rolls*

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## SUMMARY OF REPORTS FOR JUNE 1941

### *Total Nonagricultural Employment*

APPROXIMATELY 38,808,000 persons were employed in civil non-agricultural occupations in June 1941. This total, which is above all preceding levels, represented an increase of 494,000 workers over May and a gain of 3,383,000 since June 1940. These figures do not include C. C. C. enrollees, workers on W. P. A. or N. Y. A. projects, nor the armed forces.

The greater part of the expansion over the month occurred in manufacturing (230,000), particularly in industries primarily devoted to the defense program. Trade establishments showed an increase of 101,000 workers, and all other major groups, to a smaller extent, also showed employment gains. The increase in construction employment was due to a seasonal expansion in privately financed construction which more than offset a slight decrease in Federal financed construction.

All major groups showed substantial employment gains over June 1940. In manufacturing, the gain amounted to 1,951,000 workers; in construction 489,000; in trade 268,000; Federal, State, and local government service 307,000; and transportation and public utilities 202,000.

Emergency employment decreased 32,000 over the month as a result of the following changes: An increase of 78,000 in the military service and decreases of 77,000 on projects operated by the Work Projects Administration, 7,000 on the out-of-school work program of the National Youth Administration, and 26,000 in the Civilian Conservation Corps.

### *Industrial and Business Employment*

Of the 157 manufacturing industries surveyed, 129 reported employment increases and 135 pay-roll gains over the month, most of the increases being larger than seasonal or contraseasonal, as in preceding months. Of the 16 nonmanufacturing industries regularly covered, all but 2 showed gains in employment and pay rolls. Employment and weekly pay rolls in all manufacturing industries combined advanced

contraseasonally in June to the highest levels reached since the beginning of the Bureau's series of indexes. The gains were 2.3 percent or 230,000 wage earners in employment and 5.6 percent or \$15,195,000 in weekly pay rolls. The usual seasonal changes from May to June are decreases of 0.7 percent in employment and 0.8 percent in pay rolls. The gains since June of last year were 24.0 percent in factory employment and 52.9 percent in factory pay rolls, pay rolls having increased more sharply over the year interval than employment because of wage-rate increases, increased hours, and overtime premiums.

For the durable-goods group of manufacturing industries, in which operations have been particularly stimulated by defense activity, employment showed a gain of 2.9 percent over the month and 35.4 percent over the year, with corresponding pay-roll increases of 6.6 percent and 71.4 percent. The increases in the nondurable-goods group were smaller, namely, 1.8 percent and 13.8 percent in employment and 4.1 percent and 31.2 percent in pay rolls. Strategic defense industries in which employment continued to expand were shipbuilding (14,800), aircraft (11,800), engines (4,500), machine tools (3,300), machine-tool accessories (2,800), screw-machine products (1,100), and abrasives (300). Other manufacturing industries affected by war-material orders and showing large employment gains were foundry and machine-shops (19,100); steel (13,800); electrical machinery (10,000); brass, bronze, and copper products (3,400); chemicals (3,000); and automobiles (2,400). Large employment gains were also shown in many other manufacturing industries, among them being canning (30,100), cotton goods (9,800), sawmills (7,200), furniture (6,400), baking (5,200), beverages (4,700), meat packing (4,400), shoes (4,100), and tin cans (3,500). Substantial decreases in employment, primarily seasonal, were shown for women's clothing (9,100), fertilizers (6,400), millinery (4,100), and book and job printing (2,200).

Anthracite mining employment and pay rolls rose contraseasonally by 1.3 percent and 53.3 percent, respectively, reflecting increased production schedules and wage-rate increases. Employment in this industry was slightly below the level of June 1940, but pay rolls were more than 25 percent higher. Bituminous-coal mines increased employment and pay rolls by 0.2 percent and 2.5 percent, respectively. These slight gains were lower than the average June increases but were significant, nevertheless, in view of the very large percentage increases in the preceding month (May), which had reflected the return to work of miners upon the conclusion of new wage agreements. The pay-roll index of bituminous-coal mining (104.5 on the basis of 100 for the base period 1929) was 40 percent above that of June 1940 and was at the highest point since December 1929. Metal mines reported an employment increase of 1.3 percent and a pay-roll gain of 5.0 percent, the pay-roll level being higher than any reached during the last 10 years.

Quarries and nonmetallic mines reported seasonal gains of 1.5 percent in employment and 4.5 percent in pay rolls, while crude petroleum production showed corresponding gains of 1.9 percent and 1.1 percent, respectively. The telephone and telegraph industry showed an employment increase of 1.7 percent, continuing the series of monthly employment gains which has been interrupted only once (September 1940) since March of last year. The electric light and power industry also showed an employment increase of 1.7 percent, while street railways and busses reported virtually no change in employment (+0.2 percent).

Wholesale trade employment increased more than seasonally by 1.0 percent, with all lines which employed large numbers of workers showing employment increases except farm products in which employment fell seasonally 2.8 percent. Retail trade stores reported a larger-than-seasonal employment gain of 1.6 percent, with most of the retail lines contributing to the expansion. Laundries and dyeing and cleaning establishments reported employment gains of 3.2 percent and 1.9 percent, respectively, the employment levels for these industries being the highest recorded in the past 10 years. Hotels reported a seasonal employment reduction of 1.5 percent, and brokerage firms a decline of 1.0 percent. Insurance firms increased their personnel by 0.2 percent.

Employment in private building construction increased 3.3 percent from May to June, a somewhat larger rise than the average May-June percentage gain (2.3 percent) over the 9-year period 1932-40. The gain from June of last year was 21.6 percent. Increases over the month occurred in 8 of the 9 major geographic divisions, the largest being in the East North Central States (8.8 percent) and the Mountain States (7.3 percent). The East South Central States showed a decline of 0.6 percent. General building contractors as a group increased employment 4.4 percent and the special trades group 2.1 percent. Of the 15 special building trades surveyed, 10 reported increased employment, namely, ornamental iron contracting (13.1 percent), carpentering (12.2 percent), brick and stone masonry (10.0 percent), elevator installation (5.6 percent), glazing (4.6 percent), plumbing and heating (3.2 percent), structural steel erection (2.7 percent), roofing and sheet metal work (2.2 percent), electrical contracting (2.0 percent), tile and terrazzo contracting (0.6 percent), and excavating (less than 0.1 percent). The trades showing decreased employment were: Plastering (6.9 percent), building insulation (4.7 percent), painting and decorating (2.4 percent), and wood flooring (1.1 percent).

A preliminary report of the Interstate Commerce Commission for class I steam railroads showed an employment gain of 2.8 percent between May and June, the total number employed in June being 1,156,144. Corresponding pay-roll figures for June were not available

when this report was prepared. For May they were \$185,932,877, a gain of \$11,594,453 since April.

*Hours and earnings.*—The average hours worked per week by manufacturing wage earners were 41.3 in June, a gain of 1.3 percent since May. The corresponding average hourly earnings were 73.8 cents, an increase of 1.8 percent from the preceding month. The average weekly earnings of factory wage earners, both full- and part-time combined, were \$31.84, an increase of 3.1 percent since May. Of the 16 nonmanufacturing industries regularly surveyed, 13 reported increases in average weekly earnings. Of the 14 nonmanufacturing industries for which man-hours are available, 9 showed gains in average hours worked per week and 14 reported increases in average hourly earnings.

TABLE 1.—*Employment, Pay Rolls, and Earnings in All Manufacturing Industries Combined and in Nonmanufacturing Industries, June 1941*

Industry	Employment			Pay roll			Average weekly earnings		
	Index June 1941	Percentage change from—		Index June 1941	Percentage change from—		Average in June 1941	Percentage change from—	
		May 1941	June 1940		May 1941	June 1940		May 1941	June 1940
All manufacturing industries combined <sup>1</sup> .....	(1923-25=100) 127.8	+2.3	+24.0	(1923-25=100) 152.1	+5.6	+52.9	31.84	+3.1	+23.3
Class I steam railroads <sup>2</sup> .....	113.3	+2.8	+11.6	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
Coal mining:	(1929=100)			(1929=100)					
Anthracite <sup>4</sup> .....	49.2	+1.3	-1.1	51.2	+53.3	+26.0	34.20	+51.4	+27.4
Bituminous <sup>4</sup> .....	86.6	+2	+3.4	104.5	+2.5	+41.4	32.08	+2.4	+36.8
Metalliferous mining <sup>5</sup> .....	78.1	+1.3	+11.1	85.6	+5.0	+31.1	34.50	+3.7	+17.9
Quarrying and nonmetallic mining.....	51.7	+1.5	+7.9	55.5	+4.5	+26.5	27.07	+2.9	+17.2
Crude-petroleum production.....	61.6	+1.9	-3.4	59.4	+1.1	+1.0	35.31	-.8	+4.6
Public utilities:									
Telephone and telegraph <sup>6</sup> .....	86.1	+1.7	+10.6	112.1	+1.4	+12.0	31.82	-.3	+1.3
Electric light and power <sup>6</sup> .....	93.7	+1.7	+2.8	111.3	+1.6	+6.2	36.28	-.1	+3.3
Street railways and busses <sup>6</sup> .....	69.0	+2	+7	75.6	+3.9	+7.2	35.62	+3.7	+6.4
Trade:									
Wholesale <sup>8</sup> .....	93.1	+1.0	+4.0	87.5	+3.5	+11.6	32.68	+2.5	+7.4
Retail <sup>8</sup> .....	97.6	+1.6	+6.2	94.5	+3.3	+11.4	22.31	+1.7	+4.9
Hotels (year-round) <sup>4 10</sup> .....	94.9	-1.5	+3.1	87.0	-1.0	+6.1	15.84	+5	+2.9
Laundries <sup>4</sup> .....	111.7	+3.2	+9.4	102.3	+3.6	+10.8	19.11	+5	+1.2
Dyeing and cleaning <sup>4</sup> .....	122.9	+1.9	+9.1	98.4	+2.4	+9.9	22.15	+5	+7
Brokerage.....	( <sup>9</sup> )	-1.0	-16.3	( <sup>9</sup> )	-6	-14.0	38.75	+4	+2.7
Insurance.....	( <sup>9</sup> )	+2	+1.2	( <sup>9</sup> )	+1.6	+4.6	38.08	+1.4	+3.4
Building construction.....	( <sup>9</sup> )	+3.3	+21.6	( <sup>9</sup> )	+4.2	+32.5	35.15	+9	+8.9
Water transportation <sup>11</sup> .....	80.3	-1.2	+2.9	( <sup>9</sup> )	( <sup>9</sup> )	( <sup>9</sup> )	( <sup>9</sup> )	( <sup>9</sup> )	( <sup>9</sup> )

<sup>1</sup> Indexes adjusted to preliminary 1939 Census of Manufactures. See table 9 in December 1940 EMPLOYMENT AND PAY ROLLS for comparable series back to January 1919.

<sup>2</sup> Preliminary—Source: Interstate Commerce Commission.

<sup>3</sup> Not available.

<sup>4</sup> Indexes adjusted to 1935 census. Comparable series back to January 1929 presented in January 1938 issue of EMPLOYMENT AND PAY ROLLS. See also table 7 of October 1940 pamphlet for revised figures for anthracite mining February to September 1940, inclusive.

<sup>5</sup> See table 7 of February 1941 pamphlet for revised figures January 1938 to January 1941.

<sup>6</sup> Retail-trade indexes adjusted to 1935 census and public-utility indexes to 1937 census. Not comparable with indexes published in pamphlets prior to January 1940. Revised series available upon request.

<sup>7</sup> Average weekly earnings not strictly comparable with figures published in issues of this pamphlet dated earlier than January 1938, as they now exclude corporation officers, executives, and other employees whose duties are mainly supervisory.

<sup>8</sup> Covers street railways and trolley and motorbus operations of subsidiary, affiliated, and successor companies.

<sup>9</sup> Indexes adjusted to 1933 census. Comparable series in November 1934 and subsequent issues of this pamphlet.

<sup>10</sup> Cash payments only; the additional value of board, room, and tips cannot be computed.

<sup>11</sup> Based on estimates prepared by the United States Maritime Commission.

Wage-rate increases between May 16 and June 15 averaging 9.1 percent and affecting 729,280 wage earners were reported by 1,374 manufacturing plants out of a reporting sample of 33,016 plants employing 7,150,772 wage earners. Among the industries in which substantial numbers of workers received pay increases were automobiles, bodies and parts (263,600); paper and pulp (49,653); electrical machinery (29,885); shipbuilding (28,159); rubber tires and inner tubes (26,288); brass, bronze, and copper products (20,644); foundries and machine shops (16,409); and rayon and allied products (15,829). The wage-rate changes reported for nonmanufacturing industries affected 49,192 of the approximately 3,000,000 workers covered. About one-third of those affected were in the street railways and busses industry.

As the Bureau's survey does not cover all the establishments in an industry, and furthermore as some firms may have failed to report wage changes, these figures should not be construed as representing the total number of wage changes occurring in manufacturing and nonmanufacturing industries.

Employment and pay-roll indexes and average weekly earnings for July 1941 are given in table 1 for all manufacturing industries combined and selected nonmanufacturing industries, for water transportation, and for class I steam railroads. Percentage changes over the month and year intervals are also given.

### *Public Employment*

Substantial gains on Federal-aid roads, ship construction, and airports, which more than offset a decrease on building construction, resulted in a net employment gain of 19,000 in the month ending June 15 on construction projects financed from appropriations to regular Federal agencies. Approximately 616,000 persons were employed on defense projects and 204,000 were engaged in nondefense work. Pay-roll disbursements of \$111,483,000 to the 820,000 persons employed on all projects were \$4,466,000 more than in the month ending May 15.

Contractors on low-rent projects of the United States Housing Authority curtailed employment to the extent of 600 in the month ending June 15. Approximately 250 additional building-trades workers were employed on defense housing projects while the number at work on nondefense housing declined 850. Pay-roll disbursements of \$4,248,000 to the workers on all types of projects were \$258,000 less than in the preceding month.

Employment on construction projects financed by the Public Works Administration showed a decline of about 700 in the month ending June 15. Wage payments of \$1,057,000 to the 9,500 men employed were \$163,000 less than in May.



The number of men at work on construction projects financed by the Reconstruction Finance Corporation rose to 10,900 in the month ending June 15. Defense construction absorbed the increase of 1,700 over May, with employment on nondefense construction remaining at about the same level as in the earlier month. Pay rolls of \$1,522,000 represent an increase of \$261,000 over May.

Not since October 1935 has employment on work relief projects operated by the Work Projects Administration been lower than the 1,370,000 persons reported at work in June. Employment on work relief projects designated as defense projects decreased 14,000 during the month and on nondefense projects the decrease amounted to 63,000. Total payrolls of \$79,222,000 were \$7,305,000 less than in May. Federal agency projects financed by the Work Projects Administration furnished employment to 49,000 persons in June, a decrease of 5,000 from the preceding month. Wage payments amounted to \$2,324,000.

With the closing of the school year in June, employment on the student work program of the National Youth Administration decreased 106,000, leaving 358,000 still employed. The number of youths at work on the out-of-school work program fell to 393,000 in June, a decrease of 7,000 from the preceding month. Pay-roll disbursements on the student program totaled \$2,602,000 and on the out-of-school program the amount was \$8,113,000.

The number of persons in camps of the Civilian Conservation Corps declined 26,000 in June. Of the 235,000 persons on the pay roll, 199,600 were enrollees; 1,500, educational advisers; 100, nurses; and 33,800, supervisory and technical employees. Pay-roll disbursements of \$11,278,000 exceeded May disbursements by \$965,000.

Increased employment was reported in all of the regular services of the Federal Government. The executive and military branches reported sizable gains while the legislative and judicial branches showed only slight increases. Of the 1,370,000 employees in the executive service, 184,000 were working in the District of Columbia and 1,186,000 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) were 11 percent of the total number of employees in the executive service. Employment gains were reported in the War, Navy, and Post Office Departments, the Department of Agriculture, the Panama Canal, and the Department of the Interior.

State-financed road projects showed a seasonal employment increase of 22,000 in June. Of the 197,000 on the pay roll, 62,000 were engaged in the construction of new roads and 135,000 on main-

tenance. Wage payments of \$14,596,000 were \$75,000 less than in May.

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 2.

**TABLE 2.—Summary of Employment and Pay Rolls in Regular Federal Services and on Projects Financed Wholly or Partially from Federal Funds, June 1941**

[Preliminary figures]

Class	Employment			Pay rolls		
	June 1941	May 1941	Percentage change	June 1941	May 1941	Percentage change
<b>Federal services:</b>						
Executive.....	1,370,110	1,306,333	+4.9	\$205,581,047	\$198,382,389	+3.6
Judicial.....	2,526	2,517	+4	644,557	642,704	+1.3
Legislative.....	6,132	6,055	+1.3	1,339,535	1,339,550	+1.2
Military.....	1,740,058	1,662,428	+4.7	105,021,351	96,262,203	+9.1
<b>Construction projects:</b>						
Financed by regular Federal appropriations:	820,110	801,095	+2.4	111,482,646	107,017,114	+4.2
Defense.....	615,695	612,109	+6	91,385,025	87,816,709	+4.1
Other.....	204,415	188,986	+8.2	20,097,621	19,200,405	+4.7
U. S. H. A. low-rent housing.....	40,958	41,576	-1.5	4,247,710	4,505,728	-5.7
Defense.....	5,082	4,837	+5.1	503,929	534,147	-5.7
Other.....	35,876	36,739	-2.4	3,743,781	3,971,581	-5.7
Financed by P. W. A. <sup>1</sup> .....	9,507	10,209	-6.9	1,056,578	1,219,777	-13.4
Financed by R. F. C. <sup>2</sup> .....	10,935	9,258	+18.1	1,522,123	1,261,547	+20.7
Defense.....	8,572	6,852	+25.1	1,232,888	980,240	+25.8
Other.....	2,363	2,406	-1.8	289,235	281,307	+2.8
<b>Federal agency projects financed by Work Projects Administration.....</b>	<b>49,289</b>	<b>54,174</b>	<b>-9.0</b>	<b>2,323,783</b>	<b>2,711,234</b>	<b>-14.3</b>
Defense.....	20,583	22,600	-8.9	1,036,380	1,191,626	-13.0
Other.....	28,706	31,574	-9.1	1,287,403	1,519,608	-15.3
<b>Projects operated by W. P. A. ....</b>	<b>1,369,728</b>	<b>1,446,994</b>	<b>-5.3</b>	<b>79,222,498</b>	<b>86,527,291</b>	<b>-8.4</b>
Defense.....	400,382	414,187	-3.3	( <sup>3</sup> )	( <sup>3</sup> )	-----
Other.....	969,346	1,032,807	-6.1	( <sup>3</sup> )	( <sup>3</sup> )	-----
<b>National Youth Administration:</b>						
Student work program.....	358,004	463,978	-22.8	2,602,449	3,400,476	-23.5
Out-of-school work program.....	392,514	399,480	-1.7	8,112,719	8,208,793	-1.2
Civilian Conservation Corps.....	235,024	261,357	-10.1	11,277,971	12,242,700	-7.9

<sup>1</sup> Includes force-account and supervisory and technical employees shown under other classifications to the extent of 190,120 employees and pay-roll disbursements of \$27,526,403 for June 1941, and 177,904 employees and pay-roll disbursements of \$26,841,076 for May 1941.

<sup>2</sup> Data covering P. W. A. projects financed from National Industrial Recovery Act funds, Emergency Relief Appropriation Acts of 1935, 1936, 1937 funds, and Public Works Administration Appropriation Act of 1938 funds are included. These data are not shown under projects financed by the Work Projects Administration. Includes 3,327 wage earners and \$363,935 pay roll for June 1941; 3,354 wage earners and \$374,798 pay roll for May 1941; covering Public Works Administration Projects financed from Emergency Relief Appropriation Acts of 1935, 1936, and 1937 funds. Includes 5,876 wage earners and \$667,884 pay roll for June 1941 financed from funds provided by the Public Works Administration Appropriation Act of 1938.

<sup>3</sup> Includes 351 employees and pay-roll disbursements of \$69,073 for June 1941; 348 employees and pay-roll disbursements of \$70,313 for May 1941; on projects financed by the RFC Mortgage Co.

<sup>4</sup> Pay-roll data not available.

The value of material orders placed on projects financed from regular Federal appropriations during the second quarter of 1941 amounted to \$599,048,000. Approximately 1,197,000 man-months

of labor were involved in the final fabrication of these materials. On U. S. H. A. low-rent housing projects orders were placed for \$17,134,000 worth of materials, for which it is estimated 40,000 man-months of labor were required in final fabrication processes.

The value of material orders placed on the various programs financed by Federal funds during the second quarter of 1941, the first quarter of 1941, and the second quarter of 1940, and the man-months of employment created in the final fabrication of the materials used are shown in table 3.

**TABLE 3.—Value of Material Orders Placed on Projects Financed Wholly or Partially From Federal Funds and Number of Man-Months of Labor Created**

[Subject to revision]

Program	Value of material orders placed			Man-months of labor created in final fabrication		
	Second quarter 1941	First quarter 1941	Second quarter 1940	Second quarter 1941	First quarter 1941	Second quarter 1940
Public Works Administration <sup>1</sup> .....	\$5,809,167	\$6,662,758	\$42,624,146	10,701	13,698	88,349
U. S. H. A. low-rent housing.....	17,133,737	19,842,884	22,889,484	39,727	45,722	53,442
Reconstruction Finance Corporation <sup>2</sup> .....	9,220,102	6,134,407	1,077,339	18,348	12,240	2,094
Regular Federal appropriations.....	599,047,698	576,698,550	128,933,372	1,197,128	1,270,870	242,488
Federal agency projects financed from W. P. A. funds <sup>3</sup> .....	1,967,551	2,210,234	2,152,477	3,865	4,723	4,130
Projects operated by W. P. A.....	(4)	73,473,221	69,378,385	(4)	172,156	160,097
Rentals and services on projects operated by W. P. A.....	(4)	63,093,825	67,118,105	(4)	(4)	(4)

<sup>1</sup> Data covering projects financed from E. R. A. A., 1935, 1936, 1937, and P. W. A. A., 1938 funds are included. These data are not shown under projects financed from W. P. A. funds. Includes low-rent housing projects financed from funds of N. I. R. A. and E. R. A. A., 1935.

<sup>2</sup> Includes RFC Mortgage Co.

<sup>3</sup> Includes projects financed by transfer of W. P. A. funds to other Federal agencies under sec. 3, E. R. A. A., 1938, and sec. 11-A, E. R. A. A., 1939.

<sup>4</sup> Data not available.



## DETAILED TABLES FOR JUNE 1941

### *Estimates of Nonagricultural Employment*

THE estimates of "Total civil nonagricultural employment," given on the first line of table 4, represent the total number of persons engaged in gainful work in the United States in nonagricultural industries, excluding military and naval personnel, persons employed on W. P. A. or N. Y. A. projects, and enrollees in C. C. C. camps. The series described as "Employees in nonagricultural establishments" also excludes proprietors and firm members, self-employed persons, casual workers, and persons in domestic service. The estimates for "Employees in nonagricultural establishments" are shown separately for each of seven major industry groups. Tables giving figures for each group, by months, for the period from January 1929 to date are available on request.

The figures represent the number of persons working at any time during the week ending nearest the middle of each month. The totals for the United States have been adjusted to conform to the figures shown by the 1930 Census of Occupations for the number of non-agricultural "gainful workers" less the number shown to have been unemployed for 1 week or more at the time of the census. Separate estimates for "employees in nonagricultural establishments" are shown in table 5 for each of the 48 States and the District of Columbia for May and June 1941 and June 1940. Tables showing monthly figures for each State from January 1938 to date are available on request. Because the State figures do not include employees on merchant vessels, and because of certain adjustments in the United States estimates which have not been made on a State basis, the total of the State estimates will not agree exactly with the figures for the United States as a whole.

These estimates are based in large part on industrial censuses and on regular reports of employers to the United States Bureau of Labor Statistics and to other Government agencies, such as the Interstate Commerce Commission. Data derived from employers' quarterly reports in connection with "old-age and survivors' insurance," and employers' monthly reports in connection with unemployment compensation have been used extensively as a check on estimates derived from other sources, and in some industries they have provided the most reliable information available.

TABLE 4.—*Estimates of Total Nonagricultural Employment, by Major Groups*

[In thousands]

Industry	June 1941 (preliminary)	May 1941	Change May to June 1941	June 1940	Change June 1940 to June 1941
Total civil nonagricultural employment <sup>1</sup> .....	38,808	38,314	+494	35,425	+3,383
Employees in nonagricultural establishments <sup>1 2</sup> .....	32,685	32,171	+494	29,282	+3,383
Manufacturing <sup>3</sup> .....	11,775	11,545	+230	9,824	+1,951
Mining.....	868	862	+6	838	+30
Construction.....	1,810	1,782	+28	1,321	+489
Transportation and public utilities.....	3,234	3,185	+49	3,052	+202
Trade.....	6,522	6,421	+101	6,254	+268
Finance, service, and miscellaneous.....	4,350	4,327	+23	4,214	+136
Federal, State, and local Government:					
Civil employees.....	4,106	4,049	+57	3,799	+307
Military and naval forces <sup>4</sup> .....	1,740	1,662	+78	474	+1,266

<sup>1</sup> 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. Includes proprietors, firm members, self-employed persons, casual workers, and domestic servants. Includes allowance for adjustment of factory wage-earner totals to preliminary 1939 Census of Manufactures. Revised series available on request.

<sup>2</sup> Excludes all of the groups omitted from "Total civil nonagricultural employment" as well as proprietors, firm members, self-employed persons, casual workers, and domestic servants.

<sup>3</sup> Adjusted to preliminary 1939 Census of Manufactures.

<sup>4</sup> Not included in total shown above. Includes members of the National Guard inducted into the Federal Service by act of Congress.

TABLE 5.—*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 divisions and States	June 1941 (preliminary)	May 1941	Change May to June 1941		June 1940	Change June 1940 to June 1941	
			Number	Percentage		Number	Percentage
<b>New England</b> .....	2,893	2,839	+54	+1.9	2,448	+445	+18.2
Maine.....	212	204	+8	+3.8	185	+27	+14.4
New Hampshire.....	147	142	+5	+3.3	127	+20	+15.6
Vermont.....	80	77	+3	+3.7	74	+6	+8.3
Massachusetts.....	1,501	1,478	+23	+1.6	1,277	+224	+17.6
Rhode Island.....	270	266	+4	+1.3	221	+49	+22.1
Connecticut.....	683	672	+11	+1.6	564	+119	+21.0
<b>Middle Atlantic</b> .....	8,343	8,241	+102	+1.2	7,692	+751	+9.5
New York.....	4,107	4,072	+35	+ .9	3,863	+244	+6.3
New Jersey.....	1,294	1,269	+25	+2.0	1,130	+164	+14.5
Pennsylvania.....	2,942	2,900	+42	+1.4	2,629	+313	+11.9
<b>East North Central</b> .....	7,712	7,567	+145	+1.9	6,703	+1,009	+15.1
Ohio.....	2,014	1,975	+39	+2.0	1,749	+265	+15.1
Indiana.....	923	903	+20	+2.2	767	+156	+20.3
Illinois.....	2,501	2,452	+49	+2.0	2,219	+282	+12.7
Michigan.....	1,567	1,544	+23	+1.5	1,341	+226	+16.9
Wisconsin.....	707	693	+14	+2.1	627	+80	+12.8
<b>West North Central</b> .....	2,594	2,497	+97	+3.7	2,347	+247	+10.5
Minnesota.....	563	554	+9	+1.7	527	+36	+6.9
Iowa.....	421	421	+0	+ .0	403	+18	+4.6
Missouri.....	844	833	+11	+1.3	764	+80	+10.4
North Dakota.....	77	77	+0	+ .0	76	+1	+1.0
South Dakota.....	84	83	+1	+1.4	83	+1	+1.2
Nebraska.....	210	207	+3	+1.7	201	+9	+4.7
Kansas.....	325	322	+3	+ .9	293	+32	+10.8
<b>South Atlantic</b> .....	3,911	3,889	+22	+ .6	3,386	+525	+15.5
Delaware.....	78	77	+1	+1.0	72	+6	+8.5
Maryland.....	602	597	+5	+ .8	499	+103	+20.5
District of Columbia.....	405	398	+7	+1.9	338	+67	+20.0
Virginia.....	585	577	+8	+1.5	488	+97	+20.0
West Virginia.....	398	394	+4	+1.1	368	+30	+8.1
North Carolina.....	626	629	-3	- .5	562	+64	+11.5
South Carolina.....	315	313	+2	+ .9	270	+45	+16.6
Georgia.....	533	522	+11	+2.1	463	+70	+15.2
Florida.....	369	375	-6	-1.6	326	+43	+13.2
<b>East South Central</b> .....	1,468	1,458	+10	+ .7	1,319	+149	+11.2
Kentucky.....	384	384	0	+ .0	357	+27	+7.5
Tennessee.....	484	479	+5	+1.0	432	+52	+12.2
Alabama.....	413	406	+7	+1.7	354	+59	+16.4
Mississippi.....	187	189	-2	-1.2	176	+11	+6.1
<b>West South Central</b> .....	1,970	1,950	+20	+1.0	1,794	+176	+9.8
Arkansas.....	189	184	+5	+2.4	172	+17	+9.7
Louisiana.....	397	390	+7	+1.8	354	+43	+12.1
Oklahoma.....	300	299	+1	+ .4	286	+14	+4.9
Texas.....	1,084	1,077	+7	+ .7	982	+102	+10.4
<b>Mountain</b> .....	825	804	+21	+2.7	775	+50	+6.3
Montana.....	117	114	+3	+2.5	114	+3	+2.7
Idaho.....	90	87	+3	+3.0	85	+5	+5.2
Wyoming.....	56	54	+2	+4.6	53	+3	+7.2
Colorado.....	237	231	+6	+2.5	219	+18	+7.9
New Mexico.....	77	74	+3	+4.7	73	+4	+6.1
Arizona.....	96	95	+1	+1.2	88	+8	+8.5
Utah.....	115	114	+1	+1.7	110	+5	+4.6
Nevada.....	37	35	+2	+3.4	33	+4	+8.5
<b>Pacific</b> .....	2,677	2,613	+64	+2.5	2,387	+290	+12.2
Washington.....	471	462	+9	+1.9	420	+51	+12.3
Oregon.....	282	263	+19	+7.3	246	+36	+14.5
California.....	1,924	1,888	+36	+1.9	1,721	+203	+11.8

### *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 prepared 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 6 and 7 are based on the 3-year average 1923–25 as 100. For all manufacturing industries combined, the durable-goods group, the nondurable-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 have been adjusted to 1937 census data except for the aircraft industry and the transportation equipment group, which have 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 manufacturing 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 8. These indexes are based on 1939 as 100.

The indexes for the nonmanufacturing 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 reporting 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 15th of the month.

The average weekly earnings shown in tables 6 and 7 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 June 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 June 1941 are shown in table 6. Percentage changes from May 1941 and June 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 April, May, and June 1941, where available, are presented in table 7. The April and May 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 8 for 55 of the 67 newly added manufacturing industries for the months of April, May, and June 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 9 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 non-manufacturing industries, by months, from June 1940 to June 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 13 indicates the trend of factory employment and pay rolls from January 1919 to June 1941.





*Use of average hourly earnings in "escalator" clauses.*—Average hourly earnings of wage earners, such as those shown in table 6, 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 6 for all manufacturing, for durable goods, for nondurable goods, and for the various subgroups of industries, such as "iron and steel and their products," reflect 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 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 to 72.7 cents in July. This drop was due not to a general decline in wages in this period but almost entirely to the fact that employment in the automobile industry declined sharply as the

result of model changes. This industry is a high-wage industry in which the average hourly earnings are about 95 cents an hour. Between June and July 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 to July and approximately the same percentage change as is shown by the published figures from July to August. This means that from June to August, the currently 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 6.—*Employment, Pay Rolls, Hours, and Earnings in Manufacturing and Nonmanufacturing Industries, June 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 comparable to indexes published in pamphlets prior to August 1939. Comparable series available upon request.]

Industry	Employment			Pay rolls			Average weekly earnings <sup>1</sup>			Average hours worked per week <sup>1</sup>			Average hourly earnings		
	Index June 1941	Percentage change from—		Index June 1941	Percentage change from—		June 1941	Percentage change from—		June 1941	Percentage change from—		June 1941	Percentage change from—	
		May 1941	June 1940		May 1941	June 1940		May 1941	June 1940		May 1941	June 1940		May 1941	June 1940
<b>All manufacturing<sup>2</sup></b> .....	127.8	+2.3	+24.0	152.1	+5.6	+52.9	\$31.84	+3.1	+23.3	41.3	+1.3	+10.2	<i>Cents</i> 73.8	+1.8	+10.6
Durable goods <sup>2</sup> .....	135.6	+2.9	+35.4	173.8	+6.6	+71.4	36.89	+3.5	+26.6	43.1	+1.4	+11.7	82.2	+2.0	+12.8
Nondurable goods <sup>2</sup> .....	120.9	+1.8	+13.8	127.8	+4.1	+31.2	25.08	+2.2	+15.3	39.4	+1.0	+7.9	65.0	+1.3	+6.0
<i>Durable goods</i>															
<b>Iron and steel and their products, not including machinery</b> .....	136.1	+2.3	+31.2	168.7	+4.8	+63.9	36.44	+2.4	+25.0	42.0	+1.4	+11.6	86.3	+8	+12.2
Blast furnaces, steel works, and rolling mills.....	144.0	+2.4	+25.9	179.9	+4.1	+57.9	39.46	+1.7	+25.4	41.0	+1.6	+10.5	96.4	0	+13.9
Bolts, nuts, washers, and rivets.....	165.6	+2.8	+58.9	248.4	+6.3	+123.2	36.02	+3.4	+40.5	45.8	+1.7	+23.5	78.7	+1.7	+13.7
Cast-iron pipe.....	96.9	+2.6	+26.1	114.6	+3.8	+63.7	28.25	+1.1	+29.8	41.9	+4	+15.7	67.0	+6	+11.8
Cutlery (not including silver and plated cutlery) and edge tools.....	120.4	+1.6	+18.9	139.2	+3.6	+52.0	30.32	+2.0	+28.0	43.9	+1.1	+12.6	69.9	+7	+13.3
Forgings, iron and steel.....	104.3	+2.1	+58.0	163.7	+7.6	+120.9	41.63	+5.4	+39.9	47.0	+2.4	+20.5	88.8	+2.9	+16.0
Hardware.....	118.3	+1.4	+44.9	150.2	+6.1	+75.1	31.26	+4.7	20.7	42.5	+5	+11.3	73.7	+4.2	+8.6
Plumbers' supplies <sup>3</sup> .....	102.8	+7	+24.1	107.6	+2.7	+43.7	30.03	+1.9	+15.9	40.7	+2	+6.4	74.4	+1.7	+8.9
Stamped and enameled ware.....	220.2	+1.0	+44.2	278.7	+5.2	+71.4	29.81	+4.2	+18.9	41.6	+2.9	+9.3	71.3	+1.1	+8.9
Steam and hot-water heating apparatus and steam fittings.....	114.1	+1.8	+34.2	137.8	+7.2	+79.7	36.32	+5.2	+33.8	44.8	+2.0	+14.8	81.2	+3.4	+16.6
Stoves.....	115.8	+2.1	+25.2	124.7	+4.5	+50.7	30.55	+2.2	+20.4	41.6	+9	+10.2	73.0	+1.3	+8.3
Structural and ornamental metalwork.....	105.5	+3.1	+43.5	120.1	+5.5	+85.2	36.98	+2.3	+29.0	44.4	+1.0	+15.5	83.6	+1.2	+12.0
Tin cans and other tinware.....	135.2	+9.5	+31.5	169.0	+11.5	+48.9	28.15	+1.8	+13.2	42.1	+1	+5.9	66.5	+1.4	+6.4
Tools (not including edge tools, machine tools, files, and saws).....	138.2	+2.0	+50.9	181.0	+5.4	+104.3	33.07	+3.3	+35.4	46.8	+1.4	+19.5	71.3	+1.9	+13.4
Wirework.....	214.2	+1.5	+40.8	280.9	+2.9	+74.5	31.95	+1.4	+24.0	42.6	—,1	+12.7	73.9	+1.3	+9.6

<b>Machinery, not including transportation equipment.</b>	187.9	+3.4	+45.9	230.2	+5.8	+84.0	37.98	+2.4	+26.1	45.6	+4	+11.7	83.2	+1.9	+12.6
Agricultural implements (including tractors)...	171.8	+6	+25.1	233.3	+1.9	+47.8	37.32	+1.2	+18.1	42.1	+9	+7.3	88.6	+1	+9.9
Cash registers, adding machines, and calculating machines.	162.6	+7.5	+24.7	216.2	+10.3	+56.6	41.34	+2.6	+25.6	45.3	-1.4	+12.9	92.4	+4.1	+12.1
Electrical machinery, apparatus, and supplies	158.5	+2.9	+53.5	223.9	+4.0	+89.3	37.21	+1.1	+23.4	43.9	-9	+9.6	84.5	+1.8	+12.1
Engines, turbines, water wheels, and wind-mills.	285.5	+5.1	+80.6	480.1	+6.2	+127.9	44.61	+1.0	+26.1	47.3	+2	+7.7	94.1	+7	+16.9
Foundry and machine-shop products.	139.7	+3.6	+44.1	179.1	+7.8	+87.0	37.76	+4.1	+29.8	46.0	+1.5	+14.6	81.9	+2.3	+13.1
Machine tools.	337.1	+3.5	+47.1	526.6	+4.2	+73.9	43.37	+7	+18.2	51.9	-8	+8.0	83.6	+1.4	+9.5
Radios and phonographs.	180.7	+4.0	+28.2	200.4	+4.7	+49.6	27.09	+6	+16.8	40.9	+ <sup>(1)</sup>	+6.7	66.4	+6	+9.6
Textile machinery and parts.	103.8	+2.4	+31.4	130.5	+5.0	+76.2	34.84	+2.5	+34.1	46.8	+4	+18.4	74.5	+2.1	+13.3
Typewriters and parts.	148.3	+3.3	+33.6	207.5	+9.4	+85.0	34.31	+5.9	+38.6	45.8	+1.1	+21.3	74.9	+4.7	+14.2
<b>Transportation equipment <sup>4</sup></b>	177.7	+3.6	+55.5	239.1	+10.6	+97.6	42.61	+6.8	+27.1	43.8	+3.1	+15.4	97.6	+3.2	+9.3
Aircraft <sup>5</sup>	710.5	+6.7	+130.3	815.3	+6.0	+174.8	35.48	-7	+13.1	44.7	-1.0	+4.6	79.9	+3	+7.4
Automobiles <sup>6</sup>	134.7	+5	+28.4	187.9	+10.3	+67.7	45.68	+9.9	+30.6	43.1	+4.8	+16.2	106.5	+4.9	+12.4
Cars, electric- and steam-railroad.	85.6	+7.6	+67.2	91.6	+8.7	+102.3	34.16	+1.1	+21.1	40.9	-3	+9.5	83.6	+1.4	+9.8
Locomotives.	68.1	+4.5	+133.7	90.8	+13.7	+218.4	40.87	+8.8	+36.2	46.5	+4.6	+21.6	87.9	+3.9	+12.0
Shipbuilding.	335.0	+8.9	+105.8	499.8	+16.3	+169.0	43.45	+6.9	+30.7	45.3	+3.1	+16.1	94.3	+2.4	+10.3
<b>Nonferrous metals and their products.</b>	142.0	+1.5	+33.2	175.2	+5.0	+65.6	34.39	+3.5	+24.4	43.1	+5	+10.1	79.4	+3.0	+13.0
Aluminum manufactures <sup>7</sup>	228.4	-2.2	+25.3	321.1	-3	+51.8	35.09	+1.0	+21.2	42.2	-7	+5.9	83.1	+2.6	+14.4
Brass, bronze, and copper products <sup>8</sup>	189.7	+2.9	+49.3	264.4	+7.2	+87.8	38.69	+4.2	+25.8	44.8	+6	+11.2	86.1	+3.6	+13.3
Clocks and watches and time-recording devices	117.0	+9	+28.3	147.9	+3.1	+60.4	27.93	+2.2	+25.1	42.4	+1	+13.4	65.9	+2.1	+10.6
Jewelry.	106.8	+2.2	+17.0	101.4	+3.7	+32.8	25.51	+1.5	+13.5	41.3	+5	+7.8	61.2	+8	+6.3
Lighting equipment.	114.1	+1.7	+36.1	117.6	+6.4	+68.1	31.57	+4.7	+23.6	41.3	+1	+11.6	76.5	+4.6	+10.8
Silverware and plated ware.	83.9	+1.2	+23.0	93.8	+3.4	+67.9	32.32	+2.1	+36.6	44.0	-2.6	+20.4	74.4	+5.1	+14.9
Smelting and refining—copper, lead, and zinc.	101.8	+1	+16.7	116.6	+4.4	+36.1	32.28	+4.3	+16.5	40.5	+3.1	+4.4	79.8	+1.2	+11.7
<b>Lumber and allied products.</b>	76.9	+2.9	+12.6	83.9	+7.6	+31.9	23.61	+4.5	+17.2	40.9	+2.2	+6.7	57.0	+2.5	+9.9
Furniture.	103.8	+3.7	+17.9	109.7	+7.0	+44.6	25.19	+3.2	+22.7	42.3	+1.5	+11.2	59.5	+1.9	+11.0
Lumber:															
Millwork.	72.5	+5.5	+17.9	67.2	+7.7	+38.7	25.24	+4.1	+17.5	42.5	+1.0	+6.7	59.4	+2.9	+10.2
Sawmills.	67.2	+2.3	+8.5	71.3	+8.0	+22.8	21.88	+5.5	+13.3	39.7	+2.8	+3.7	55.1	+2.7	+9.2
<b>Stone, clay, and glass products.</b>	97.1	+1.6	+17.1	100.2	+2.5	+36.5	27.97	+9	+16.6	38.6	+4	+6.4	71.7	+9	+7.9
Brick, tile, and terra cotta.	74.8	+3.0	+18.6	71.9	+4.0	+40.7	24.82	+1.0	+18.7	38.4	-2	+3.9	64.5	+1.0	+14.5
Cement.	79.2	+1.5	+9.4	89.5	+5.0	+28.1	31.93	+3.5	+17.1	41.6	+2.4	+7.5	76.7	+1.1	+8.9
Glass.	125.4	+1.2	+19.5	153.3	+2.0	+38.0	30.00	+8	+15.6	38.4	+1.6	+9.8	77.8	+1.2	+5.2
Marble, granite, slate, and other products <sup>9</sup>	45.5	-1.8	-6.1	35.1	-9.4	-1.5	27.10	-7.8	+4.9	37.2	-5.8	+4.2	73.0	-1.4	+3
Pottery.	114.4	+1.7	+27.8	118.2	+4.1	+55.8	26.06	+2.4	+22.0	38.1	+6	+8.7	68.1	+1.5	+8.8
<i>Nondurable goods</i>															
<b>Textiles and their products.</b>	112.5	+1	+20.1	111.8	+9	+47.6	20.22	+8	+22.9	38.1	+4	+13.4	53.4	+9	+8.1
Fabrics.	106.2	+1.0	+23.9	111.6	+2.2	+53.9	20.12	+1.2	+24.2	39.1	+6	+14.6	52.2	+5	+8.3
Carpets and rugs.	89.9	+9	+28.1	90.2	+7	+65.2	27.71	-1	+29.0	39.3	+ <sup>(1)</sup>	+21.6	70.6	-1	+6.1
Cotton goods.	108.5	+2.1	+24.9	120.0	+2.7	+60.6	17.87	+6	+28.6	39.6	+3	+17.0	45.1	+3	+9.6
Cotton small wares.	103.7	+1.1	+40.6	116.2	+1.8	+74.1	21.75	+7	+23.7	41.5	+3	+14.6	52.5	+4	+8.1
Dyeing and finishing textiles.	139.3	-1.4	+20.4	133.2	-5	+43.3	23.21	+8	+19.0	38.3	-2	+9.2	59.9	+1.1	+9.1
Hats, fur-felt.	82.2	+2.9	+15.4	83.8	+12.1	+45.6	28.17	+9.0	+26.2	36.0	+7.5	+12.2	79.3	+2.8	+11.7

See footnotes at end of table.

TABLE 6.—*Employment, Pay Rolls, Hours, and Earnings in Manufacturing and Nonmanufacturing Industries, June 1941—Continued*

## MANUFACTURING—Continued

Industry	Employment			Pay rolls			Average weekly earnings			Average hours worked per week			Average hourly earnings		
	Index June 1941	Percentage change from—		Index June 1941	Percentage change from—		June 1941	Percentage change from—		June 1941	Percentage change from—		June 1941	Percentage change from—	
		May 1941	June 1940		May 1941	June 1940		May 1941	June 1940		May 1941	June 1940		May 1941	June 1940
<i>Nondurable goods—Continued</i>															
<b>Textiles and their products—Continued.</b>															
<i>Fabrics—Continued.</i>													<i>Cents</i>		
Hosiery.....	142.7	-0.2	+9.5	158.1	+ (4)	+23.6	\$19.70	+0.3	+12.8	36.2	+1.0	+11.2	54.5	-0.6	+0.6
Knitted outerwear <sup>10</sup> .....	79.5	+3.6	+26.1	75.5	+4.8	+49.1	19.57	+1.1	+18.1	38.7	+1.8	+10.1	49.9	+1.2	+7.3
Knitted underwear.....	79.3	-3.7	+8.9	82.8	-2.1	+30.3	17.61	+1.7	+19.9	38.5	+1.2	+11.8	45.7	+1.8	+6.2
Knitted cloth.....	160.4	+3.7	+25.3	153.2	+2.7	+43.0	21.82	-1.0	+14.1	40.3	-8	+8.5	52.9	-7	+3.7
Silk and rayon goods.....	69.3	+1.1	+16.0	64.1	+2.6	+40.4	18.93	+1.5	+21.0	38.7	+2	+13.2	49.0	+1.3	+7.0
Woolen and worsted goods.....	107.9	+1.0	+42.6	117.1	+3.3	+79.2	25.02	+2.2	+25.6	40.2	+1.2	+13.5	62.8	+1.1	+10.6
Wearing apparel.....	121.7	-1.9	+12.8	103.8	-1.8	+35.5	20.50	+1	+20.1	36.0	-3	+10.5	55.9	+1.8	+7.9
Clothing, men's.....	120.1	+1.1	+21.8	107.4	+6.2	+51.0	22.79	+5.0	+23.3	36.3	+1.0	+11.9	63.0	+4.8	+9.7
Clothing, women's.....	158.1	-4.3	+6.8	118.1	-10.0	+24.1	20.23	-6.0	+16.2	35.8	-2.5	+7.3	53.7	-1.5	+7.4
Corsets and allied garments.....	118.0	-1	+5.4	138.7	+1.6	+27.0	19.49	+1.7	+20.4	38.8	+5	+13.9	49.6	+1.2	+6.6
Men's furnishings.....	121.8	-1	+11.1	131.1	+1.9	+38.2	15.89	+1.0	+24.6	36.1	-1.2	+13.4	43.3	+1.8	+10.1
Millinery.....	62.8	-17.1	-4.5	42.5	-16.8	-9.9	20.66	+3	-5.6	28.6	-3	-10.0	68.4	+2.7	-1
Shirts and collars.....	131.3	+1	+14.1	134.8	+3.8	+46.4	16.06	+3.7	+28.3	37.3	+1.1	+17.0	43.7	+2.0	+8.2
<b>Leather and its manufactures.....</b>	98.1	+2.7	+13.0	97.2	+6.8	+45.1	22.97	+4.0	+28.4	38.7	+3.0	+17.5	59.9	+1.6	+9.9
Boots and shoes.....	94.9	+2.1	+12.0	91.9	+6.0	+46.5	21.66	+3.8	+30.9	38.2	+3.2	+19.2	57.3	+1.1	+10.1
Leather.....	93.9	+4.8	+17.3	106.6	+9.2	+40.9	28.52	+4.3	+20.1	40.8	+1.9	+11.0	70.1	+2.6	+8.2
<b>Food and kindred products.....</b>	135.0	+5.9	+4.1	144.3	+7.1	+11.9	27.05	+1.2	+7.4	41.0	+1.4	+2.1	67.2	+1	+5.6
Baking.....	152.2	+2.2	+3.6	154.4	+4.0	+9.7	28.21	+1.8	+5.9	42.5	+1.1	+2.1	66.5	+8	+4.0
Beverages.....	309.6	+5.7	+2.7	391.3	+8.0	+4.2	36.99	+2.2	+1.4	41.4	+1.8	-1.4	90.2	+2	+2.1
Butter.....	113.8	+3.9	+8.4	104.6	+7.4	+15.2	23.98	+3.4	+6.3	46.9	+1.6	+1.7	50.6	+2.1	+5.3
Canning and preserving.....	135.9	+36.1	-3.3	133.5	+46.5	+13.9	18.75	+7.6	+17.8	36.6	+6.3	+6.0	51.9	+6	+9.7
Confectionery <sup>1</sup> .....	80.4	-7	+7.7	85.5	+2.2	+18.2	20.50	+2.8	+9.8	38.1	+1.2	+2.6	54.6	+2.5	+7.8
Flour.....	77.9	+1.8	+4	79.2	+5.3	+9.6	27.34	+3.4	+9.2	43.1	+2.9	+5.7	63.3	+1.1	+3.2
Ice cream.....	92.3	+0.2	+4	82.7	+10.1	+6.1	30.35	+3.6	+5.7	46.7	+3.2	+1.0	64.0	+3	+4.2
Slaughtering and meat packing.....	120.3	+3.1	+11.2	137.8	+3.5	+20.1	29.79	+5	+7.9	40.4	-1	+5	73.8	+5	+7.1
Sugar, beet.....	48.1	+1.4	-9.1	57.2	+6.3	+5.5	30.71	+4.7	+16.1	39.8	+7	+8.7	79.0	+2.5	+6.9
Sugar refining, cane.....	98.5	-3.8	+2	97.5	+8.3	+9.9	27.77	+12.6	+9.7	41.8	+9.6	+7.5	66.9	+2.7	+2.0

<b>Tobacco manufactures</b> .....	65.5	+ .9	+ .9	70.1	+4.5	+4.8	19.56	+3.5	+3.8	37.6	+2.0	— .3	51.7	+1.7	+4.3
Chewing and smoking tobacco and snuff.....	52.1	—1.2	—10.1	67.1	+ .3	— .5	20.76	+1.5	+11.2	36.4	— .2	+3.0	57.4	+1.7	+6.9
Cigars and cigarettes.....	67.2	+1.3	+2.3	70.3	+4.9	+5.3	19.34	+3.6	+2.9	37.7	+2.2	—1.3	51.1	+1.7	+4.3
<b>Paper and printing</b> .....	121.5	+ .6	+6.1	128.6	+3.0	+14.5	32.10	+2.3	+7.8	40.1	+ .2	+3.8	82.6	+1.7	+4.0
Boxes, paper.....	135.1	+4.2	+17.1	170.3	+7.0	+33.7	25.34	+2.8	+14.2	42.3	+1.0	+7.6	60.6	+1.9	+6.5
Paper and pulp.....	124.6	+1.5	+7.2	157.7	+8.3	+25.0	30.97	+6.7	+16.7	43.3	+1.0	+4.5	71.6	+5.7	+11.6
<b>Printing and publishing:</b>															
Book and job.....	101.6	—1.5	+4.6	94.8	— .9	+11.3	32.21	+ .6	+6.5	39.7	— .1	+4.1	82.5	+ .7	+2.4
Newspapers and periodicals.....	117.4	— .2	+1.0	113.6	— .3	+2.3	39.39	— .2	+1.3	35.8	—1.2	— .4	106.9	+ .4	+1.7
<b>Chemical, petroleum, and coal products</b> .....	135.8	+1.1	+14.1	171.1	+4.6	+28.5	33.52	+3.4	+12.6	40.5	+1.4	+4.9	82.4	+2.3	+7.3
Petroleum refining.....	125.4	+2.8	+1.8	156.7	+7.1	+14.3	38.64	+4.2	+12.3	38.3	+3.0	+6.8	102.2	+1.4	+5.3
Other than petroleum refining.....	138.3	+ .7	+17.2	175.5	+3.9	+33.0	31.73	+3.2	+13.4	41.2	+1.0	+4.0	76.1	+2.5	+9.6
Chemicals.....	172.1	+3.2	+24.4	232.6	+4.9	+40.8	36.00	+1.7	+13.1	41.7	+1.1	+3.5	86.4	+ .5	+9.4
Cottonseed—oil, cake, and meal.....	66.3	—3.1	+28.9	62.4	+5.9	+34.8	15.17	+2.4	+4.5	40.4	+1.7	+3.1	35.9	+1.7	+2.1
Druggists' preparations.....	127.4	+1.7	+10.0	149.9	+5.0	+15.9	26.43	+3.2	+7.9	41.0	+3.6	+6.4	62.7	+1.9	+5.0
Explosives.....	(u)	(u)	(u)	(u)	(u)	(u)	39.41	+3.7	+18.6	44.6	+3.4	+12.1	88.6	+ .3	+5.8
Fertilizers.....	92.5	—27.2	+4.5	93.7	—26.5	+19.5	18.15	+1.8	+13.7	37.4	—2.6	+3.0	48.5	+4.5	+10.4
Paints and varnishes.....	144.8	+2.4	+14.6	177.8	+4.4	+30.5	33.81	+1.9	+14.0	43.4	+ .6	+5.6	78.0	+1.3	+8.2
Rayon and allied products.....	327.0	+1.1	+6.8	362.4	+1.7	+15.3	28.35	+ .7	+7.9	39.3	— .7	+1.0	72.2	+1.4	+6.8
Soap.....	93.3	+1.2	+14.5	129.0	+2.7	+28.5	32.58	+1.4	+12.9	41.1	+ .8	+1.8	79.3	+ .5	+11.0
<b>Rubber products</b> .....	110.7	+4.0	+32.7	141.1	+9.6	+63.3	34.78	+5.4	+23.1	41.3	+2.7	+13.8	83.6	+2.3	+7.6
Rubber boots and shoes.....	78.2	+4.4	+42.4	98.4	+11.4	+75.2	28.91	+6.6	+23.0	43.0	+4.4	+12.4	67.2	+2.1	+9.5
Rubber tires and inner tubes.....	86.3	+3.5	+25.0	122.4	+10.2	+57.9	41.41	+6.5	+25.4	39.9	+3.4	+16.3	103.7	+2.9	+7.2
Rubber goods, other.....	190.2	+4.7	+37.5	224.4	+8.3	+68.6	28.57	+3.5	+22.7	42.2	+1.4	+11.1	68.1	+1.7	+9.9

See footnotes at end of table.

TABLE 6.—Employment, Pay Rolls, Hours, and Earnings in Manufacturing and Nonmanufacturing Industries, June 1941—Continued

## NONMANUFACTURING

[Indexes are based on 12-month average, 1929=100]

Industry	Employment			Pay rolls			Average weekly earnings			Average hours worked per week			Average hourly earnings		
	Index June 1941	Percentage change from—		Index June 1941	Percentage change from—		June 1941	Percentage change from—		June 1941	Percentage change from—		June 1941	Percentage change from—	
		May 1941	June 1940		May 1941	June 1940		May 1941	June 1940		May 1941	June 1940		May 1941	June 1940
Coal mining:													<i>Cents</i>		
Anthracite <sup>12 13</sup> .....	49.2	+1.3	-1.1	51.2	+53.3	+26.0	\$34.20	+51.4	+27.4	34.0	+48.6	+16.3	100.2	+6.0	+7.7
Bituminous <sup>12</sup> .....	86.6	+2	+3.4	104.5	+2.5	+41.4	32.08	+2.4	+36.8	31.5	+1.9	+18.6	102.0	+1.3	+14.5
Metalliferous mining <sup>14</sup> .....	78.1	+1.3	+11.1	85.6	+5.0	+31.1	34.50	+3.7	+17.9	43.1	+3.1	+6.1	80.3	+5	+11.2
Quarrying and nonmetallic mining.....	51.7	+1.5	+7.9	55.5	+4.5	+26.5	27.07	+2.9	+17.2	42.8	+7	+5.7	63.1	+2.3	+10.5
Crude-petroleum production.....	61.6	+1.9	-3.4	59.4	+1.1	+1.0	35.31	-8	+4.6	36.9	-2.9	-1.4	92.8	+1.9	+5.3
Public utilities:															
Telephone and telegraph <sup>15 16</sup> .....	86.1	+1.7	+10.6	112.1	+1.4	+12.0	31.82	-3	+1.3	39.8	-1.0	+9	80.3	+8	+3
Electric light and power <sup>15 16</sup> .....	93.7	+1.7	+2.8	111.3	+1.6	+6.2	36.28	-1	+3.3	39.3	-2.3	-4	92.5	+2.1	+3.7
Street railways and busses <sup>15 16 17</sup> .....	69.0	+2	+7	75.6	+3.9	+7.2	35.62	+3.7	+6.4	47.7	+2.9	+4.3	73.7	+1.0	+2.3
Trade:															
Wholesale <sup>15 18</sup> .....	93.1	+1.0	+4.0	87.5	+3.5	+11.6	32.68	+2.5	+7.4	41.3	+3	+1.0	79.8	+2.1	+7.0
Retail <sup>15 18</sup> .....	97.6	+1.6	+6.2	94.5	+3.3	+11.4	22.31	+1.7	+4.9	42.7	+9	-3	57.2	+1.3	+5.6
Food <sup>16</sup> .....	108.1	+6	+3.1	103.6	+2.9	+7.6	24.55	+2.2	+4.2	42.6	+4	-1.6	54.9	+1.5	+5.0
General merchandising <sup>15 16</sup> .....	104.8	+2.2	+8.9	99.6	+3.8	+11.5	18.81	+1.4	+2.4	38.8	+1.0	-(6)	48.1	+1.1	+1.6
Apparel <sup>16</sup> .....	90.6	+1	+3.0	85.5	+1.2	+6.3	21.99	+1.1	+3.3	38.0	+1.0	-5	57.7	+1.5	+4.1
Furniture <sup>16</sup> .....	78.8	+1	+1.8	76.3	+8	+8.7	30.28	+6	+6.7	44.0	-6	+5	75.0	+3.3	+6.2
Automotive <sup>16</sup> .....	94.0	+1.8	+8.7	102.5	+2.6	+22.9	32.63	+7	+13.1	47.6	+8	-1	70.1	+1.2	+15.4
Lumber <sup>16</sup> .....	79.4	+3.1	+5.7	80.1	+4.7	+12.2	28.25	+1.5	+6.1	43.3	+7	-2	65.9	+9	+7.0
Hotels (year-round) <sup>12 15 16</sup> .....	94.9	-1.5	+3.1	87.0	-1.0	+6.1	15.84	+5	+2.9	45.7	+6	-1.3	34.1	+1	+3.6
Laundries <sup>12</sup> .....	111.7	+3.2	+9.4	102.3	+3.6	+10.8	19.11	+5	+1.2	43.6	-1	-3	44.0	+7	+2.0
Dyeing and cleaning <sup>12</sup> .....	122.9	+1.9	+9.1	98.4	+2.4	+9.9	22.15	+5	+7	44.6	-2	-5	50.3	+1	+6
Brokerage.....	(11)	-1.0	-16.3	(11)	-6	-14.0	38.75	+4	+2.7	(11)	(11)	(11)	(11)	(11)	(11)
Insurance <sup>15</sup> .....	(11)	+2	+1.2	(11)	+1.6	+4.6	38.08	+1.4	+3.4	(11)	(11)	(11)	(11)	(11)	(11)
Building construction.....	(11)	+3.3	+21.6	(11)	+4.2	+32.5	35.15	+9	+8.9	35.3	+2	+3.4	99.7	+7	+5.3

<sup>1</sup> Mimeographed sheets giving averages by years, 1932 to 1939, inclusive, and by months January 1938 to August 1940, inclusive, available on request. Average 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. The figures are not strictly comparable from month to month because of changes in the size and composition of the reporting sample.

<sup>2</sup> 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.

<sup>3</sup> See table 7 in the April 1941 issue of *EMPLOYMENT AND PAY ROLLS* for revised figures from January 1940 to March 1941.

<sup>4</sup> Less than  $\frac{1}{10}$  of 1 percent.

<sup>5</sup> 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 this pamphlet.

<sup>6</sup> The indexes for "Automobiles" have been adjusted to 1933 census figures, but not to later census figures because of problems involving integrated industries.

<sup>7</sup> See table 8 in March 1941 *EMPLOYMENT AND PAY ROLLS* pamphlet for revised figures from January 1935 to February 1941.

<sup>8</sup> Revisions in the brass, bronze, and copper products industry have been made as follows: November and December 1940, January and February 1941 average weekly and hourly earnings to \$34.17, \$35.80, \$35.27, \$35.20, and 80.2, 80.8, 80.8, and 81.1 cents; November 1940 and February 1941 average weekly hours to 42.7 and 43.5; January, February, and March employment indexes to 171.5, 175.9, and 180.5; November and December 1940, January, February, and March 1941 pay-roll indexes to 201.9, 218.9, 220.1, 224.4, and 237.9.

<sup>9</sup> Because of change in the composition of the reporting sample, hours and earnings are not comparable with those previously published for months prior to those for which comparable figures are given as indicated:

*Marble*—Average weekly earnings, average weekly hours, average hourly earnings (comparable March figures \$25.19, 35.5 hours, 71.1 cents).

*Confectionery*.—Average weekly earnings and average weekly hours (comparable December 1940 figures \$19.75 and 40.2 hours); average hourly earnings (comparable December 1940, January, and February 1941 figures 49.0, 51.1, and 51.8 cents).

<sup>10</sup> Because of expansion in the reporting sample, average weekly earnings, average weekly hours, and average hourly earnings are not comparable with those previously published for February and prior months (comparable February figures \$18.04, 36.8 hours, and 48.3 cents).

<sup>11</sup> Not available.

<sup>12</sup> Indexes adjusted to 1935 census. Comparable series back to January 1929 presented in January 1938 issue of this pamphlet.

<sup>13</sup> See table 7 of October 1940 *EMPLOYMENT AND PAY ROLLS* for revised employment and pay-roll indexes, average hours worked per week, average hourly earnings, and average weekly earnings in anthracite mining, February 1940 to September 1940, inclusive.

<sup>14</sup> See table 7 of February 1941 *EMPLOYMENT AND PAY ROLLS* pamphlet for revised figures for metalliferous mining from January 1938 to January 1941, inclusive.

<sup>15</sup> Average weekly earnings, hourly earnings, and hours not comparable with figures published in *EMPLOYMENT AND PAY ROLLS* pamphlets prior to January 1938 as they now exclude corporation officers, executives, and other employees whose duties are mainly supervisory.

<sup>16</sup> Retail-trade indexes adjusted to 1935 census and public-utility indexes to 1937 census. Not comparable to indexes published in *EMPLOYMENT AND PAY ROLLS* pamphlets prior to January 1940 or in issues of *MONTHLY LABOR REVIEW* prior to April 1940, with but one exception, retail furniture, which has been revised since publication of July 1940 pamphlet back to January 1936. Comparable series for earlier months available upon request.

<sup>17</sup> Covers street-railways and trolley and motorbus operations of subsidiary, affiliated, and successor companies, formerly "electric-railroad and motorbus operation and maintenance."

<sup>18</sup> Indexes adjusted to 1933 census. Comparable series in November 1934 and subsequent issues of *EMPLOYMENT AND PAY ROLLS*.

<sup>19</sup> Cash payments only; additional value of board, room, and tips not included.



TABLE 7.—*Employment, Pay Rolls, Hours, and Earnings in Manufacturing and Nonmanufacturing Industries*

## 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 comparable to indexes published in pamphlets prior to August 1939. Comparable series available upon request]

Industry	Employment index			Pay-roll index			Average weekly earnings <sup>1</sup>			Average hours worked per week <sup>1</sup>			Average hourly earnings <sup>1</sup>		
	June 1941	May 1941	April 1941	June 1941	May 1941	April 1941	June 1941	May 1941	April 1941	June 1941	May 1941	April 1941	June 1941	May 1941	April 1941
<b>All manufacturing <sup>2</sup></b> .....	127.8	124.9	122.6	152.1	144.1	134.7	\$31.84	\$30.76	\$29.17	41.3	40.8	40.0	Cents 73.8	Cents 72.6	Cents 70.8
Durable goods <sup>2</sup> .....	135.1	131.3	127.7	173.8	163.1	149.9	36.89	35.55	33.54	43.1	42.5	41.5	82.2	80.6	78.5
Nondurable goods <sup>2</sup> .....	120.9	118.8	117.8	127.8	122.8	117.7	25.08	24.48	23.62	39.4	38.9	38.4	65.0	64.1	62.9
<i>Durable goods</i>															
<b>Iron and steel and their products, not including machinery</b> .....	136.1	133.0	129.4	168.7	161.0	150.9	36.44	35.73	34.40	42.0	41.5	40.8	86.3	85.9	84.1
Blast furnaces, steel works, and rolling mills...	144.0	140.6	137.4	179.9	172.7	164.1	39.46	38.98	37.87	41.0	40.4	39.8	96.4	96.7	95.4
Bolts, nuts, washers, and rivets...	165.6	161.1	154.7	248.4	233.7	212.0	36.02	34.92	32.99	45.8	45.1	44.7	78.7	77.5	73.8
Cast-iron pipe.....	96.9	94.4	92.6	114.6	110.3	104.2	28.25	27.93	27.00	41.9	41.7	41.8	67.0	66.6	64.1
Cutlery (not including silver and plated cutlery) and edge tools.....	120.4	118.5	116.6	139.2	134.3	125.1	30.32	29.73	28.16	43.9	43.4	42.6	69.9	69.4	67.3
Forgings, iron and steel.....	104.3	102.1	99.5	163.7	152.3	140.3	41.63	39.62	37.57	47.0	46.0	45.0	88.8	88.4	83.6
Hardware.....	118.3	116.7	116.6	150.2	141.5	135.7	31.26	29.89	28.64	42.5	42.3	41.4	73.7	70.7	69.3
Plumbers' supplies <sup>3</sup> .....	102.8	102.1	100.8	107.6	104.8	98.4	30.03	29.62	28.18	40.7	40.5	39.4	74.4	73.1	71.6
Stamped and enameled ware.....	220.2	218.0	210.0	278.7	265.0	242.5	29.81	28.51	27.08	41.6	40.5	40.4	71.3	70.5	67.2
Steam and hot-water heating apparatus and steam fittings.....	114.1	112.1	108.9	137.8	128.6	116.8	36.32	34.63	32.28	44.8	44.0	43.6	81.2	78.8	74.1
Stoves.....	115.8	113.4	109.2	124.7	119.3	110.6	30.55	29.66	28.60	41.6	41.2	40.4	73.0	72.1	70.8
Structural and ornamental metalwork.....	105.5	102.3	99.1	120.1	113.8	103.4	36.98	36.13	33.71	44.4	44.0	43.2	83.6	82.5	78.2
Tin cans and other tinware.....	135.2	123.4	109.5	169.0	151.6	127.3	28.15	27.65	26.17	42.1	42.3	41.0	66.5	65.5	64.2
Tools (not including edge tools, machine tools, files, and saws).....	138.2	135.5	133.2	181.0	171.7	165.5	33.07	32.01	31.57	46.8	46.1	46.4	71.3	70.0	68.1
Wirework.....	214.2	211.1	207.4	280.9	273.0	242.8	31.95	31.37	28.22	42.6	42.7	40.1	73.9	72.9	70.5
<b>Machinery, not including transportation equipment</b> .....	167.9	162.4	156.2	230.2	217.5	197.4	37.98	37.21	35.20	45.6	45.4	44.5	83.2	81.8	78.9
Agricultural implements (including tractors)...	171.8	170.7	168.5	233.3	229.0	229.6	37.32	36.88	37.52	42.1	41.8	43.2	88.6	88.6	87.2
Cash registers, adding machines, and calculating machines.....	162.6	151.3	151.3	216.2	196.0	191.0	41.34	40.28	39.26	45.3	45.9	45.3	92.4	88.8	87.7
Electrical machinery, apparatus, and supplies.....	158.5	154.0	147.3	223.9	215.3	192.3	37.21	36.68	34.41	43.9	44.4	44.1	84.5	82.9	78.2
Engines, turbines, water wheels, and wind-mills.....	285.5	271.6	257.2	480.1	452.0	372.4	44.61	44.01	38.30	47.3	47.2	43.3	94.1	93.5	88.7

Foundry and machine-shop products.....	139.7	134.9	130.0	179.1	166.2	152.2	37.76	36.51	34.75	46.0	45.4	44.5	81.9	80.3	78.0
Machine tools.....	337.1	325.6	316.9	526.6	505.3	472.2	43.37	42.98	41.10	51.9	52.3	51.1	83.6	82.4	80.8
Radios and phonographs.....	180.7	173.7	158.5	200.4	191.5	163.9	27.09	27.02	25.31	40.9	41.0	39.4	66.4	66.1	64.4
Textile machinery and parts.....	103.8	101.3	98.9	130.5	124.3	112.1	34.84	33.72	31.32	46.8	46.4	45.0	74.5	72.8	69.7
Typewriters and parts.....	148.3	143.5	138.3	207.5	189.6	174.5	34.31	32.40	30.93	45.8	45.3	43.8	74.9	71.6	70.6
<b>Transportation equipment</b> <sup>4</sup> .....	177.7	171.6	166.4	239.1	216.2	191.4	42.61	39.87	36.41	43.8	42.4	39.7	97.6	94.5	92.3
Aircraft <sup>4</sup> .....	6,710.5	6,290.3	5,929.2	8,155.3	7,697.3	7,134.4	35.48	35.73	35.15	44.7	45.2	45.1	79.9	79.5	78.8
Automobiles <sup>5</sup> .....	134.7	134.1	132.4	187.9	170.3	147.3	45.68	41.64	36.36	43.1	41.0	37.0	106.5	101.5	98.3
Cars, electric- and steam-railroad..	85.6	79.5	73.7	91.6	84.2	73.4	34.16	33.71	31.71	40.9	41.0	39.7	83.6	82.3	79.8
Locomotives.....	68.1	65.1	59.7	90.8	79.9	71.6	40.87	37.58	36.75	46.5	44.4	44.2	87.9	84.6	83.1
Shipbuilding.....	335.0	307.7	294.4	499.8	429.6	392.6	43.45	40.66	39.08	45.3	44.0	42.7	94.3	92.1	90.6
<b>Nonferrous metals and their products</b> .....	142.0	139.9	138.7	175.2	166.8	157.2	34.39	33.10	31.50	43.1	42.8	42.0	79.4	77.0	74.9
Aluminum manufactures <sup>6</sup> .....	228.4	233.5	231.0	321.1	322.0	290.4	35.09	34.36	31.40	42.2	42.5	41.7	83.1	80.8	75.4
Brass, bronze, and copper products <sup>7</sup> .....	189.7	184.5	182.5	264.4	246.7	234.8	38.69	37.10	35.70	44.8	44.5	43.8	86.1	83.4	81.6
Clocks and watches and time-recording devices.....	117.0	115.9	114.2	147.9	143.4	133.6	27.93	27.36	25.83	42.4	42.2	41.2	65.9	64.8	62.7
Jewelry.....	106.8	104.4	104.4	101.4	97.7	93.7	25.51	25.08	24.07	41.3	40.9	40.3	61.2	60.7	59.4
Lighting equipment.....	114.1	112.2	113.3	117.6	110.5	105.8	31.57	30.16	28.60	41.3	41.2	39.8	76.5	73.1	71.8
Silverware and plated ware.....	83.9	82.9	81.5	93.8	90.8	82.0	32.32	31.64	29.07	44.0	45.1	43.2	74.4	70.8	67.9
Smelting and refining—copper, lead, and zinc.....	101.8	101.7	100.3	116.6	111.7	106.6	32.28	30.94	29.96	40.5	39.2	39.0	79.8	78.9	76.9
<b>Lumber and allied products</b> .....	76.9	74.7	73.8	83.9	78.0	75.7	23.61	22.54	22.16	40.9	40.1	40.2	57.0	55.6	54.7
Furniture.....	103.8	100.1	97.6	109.7	102.5	95.2	25.19	24.29	23.22	42.3	41.8	40.8	59.5	58.4	57.0
Lumber:															
Millwork.....	72.5	70.0	69.7	67.2	62.4	59.3	25.24	24.29	23.36	42.5	42.2	41.1	59.4	57.5	56.6
Sawmills.....	67.2	65.7	65.2	71.3	66.0	66.4	21.88	20.73	21.01	39.7	38.6	39.7	55.1	53.7	53.0
<b>Stone, clay, and glass products</b> .....	97.1	95.6	93.0	100.2	97.8	91.1	27.97	27.65	26.50	38.6	38.5	38.0	71.7	71.0	69.5
Brick, tile, and terra cotta.....	74.8	72.7	69.2	71.9	69.1	62.4	24.82	24.68	23.38	38.4	38.4	38.4	64.5	63.9	60.6
Cement.....	79.2	78.0	74.2	89.5	85.2	75.5	31.93	30.71	28.72	41.6	40.6	40.3	76.7	75.7	71.3
Glass.....	125.4	124.0	121.8	153.3	150.3	143.5	30.00	29.53	28.70	38.4	37.8	37.4	77.8	76.9	77.0
Marble, granite, slate, and other products <sup>8</sup> .....	45.5	46.3	45.3	35.1	38.7	34.6	27.10	29.38	26.80	37.2	39.5	36.9	73.0	74.1	72.3
Pottery.....	114.4	112.5	113.1	118.2	113.6	111.1	26.06	25.58	24.88	38.1	38.1	37.6	68.1	67.0	66.2
<i>Nondurable goods</i>															
<b>Textiles and their products</b> .....	112.5	112.4	112.1	111.3	110.3	107.0	20.22	20.12	19.48	38.1	37.9	37.3	53.4	53.0	52.4
Fabrics.....	106.2	105.1	103.7	111.6	109.2	104.1	20.12	20.08	19.33	39.1	38.8	38.3	52.2	52.0	50.9
Carpets and rugs.....	89.9	89.2	87.0	90.2	89.6	81.5	27.71	27.78	25.94	39.3	39.3	37.4	70.6	70.7	69.4
Cotton goods.....	108.5	106.3	104.7	120.0	116.9	113.3	17.87	17.83	17.54	39.6	39.5	39.3	45.1	45.1	44.6
Cotton small wares.....	103.7	102.6	100.8	116.2	114.1	107.4	21.75	21.70	20.73	41.5	41.5	40.2	52.5	52.5	51.6
Dyeing and finishing textiles.....	139.3	141.2	143.3	133.2	133.9	134.7	23.21	23.06	22.78	38.3	38.6	38.7	59.9	59.4	58.4
Hats, fur-felt.....	82.2	79.9	80.7	83.8	74.8	66.9	28.17	25.77	23.00	36.0	33.5	29.4	79.3	77.1	75.9
Hosiery.....	142.7	143.0	141.9	158.1	158.1	155.2	19.70	19.64	19.37	36.2	35.8	35.4	54.5	54.8	54.7
Knitted outerwear <sup>9</sup> .....	79.5	76.8	71.4	75.5	72.1	63.9	19.57	19.36	18.50	38.7	38.7	37.3	49.9	49.8	48.9
Knitted underwear.....	79.3	82.3	82.6	82.8	84.6	84.0	17.61	17.21	17.03	38.5	38.0	37.8	45.7	45.1	44.8
Knitted cloth.....	160.4	154.7	141.5	153.2	149.2	132.7	21.82	21.79	21.17	40.3	40.4	40.1	52.9	53.3	52.6
Silk and rayon goods.....	69.3	68.5	68.5	64.1	62.4	60.1	18.93	18.72	18.04	38.7	38.5	37.6	49.0	48.4	47.8
Woolen and worsted goods.....	107.9	106.8	104.2	117.1	113.3	101.5	25.02	24.58	22.58	40.2	39.7	38.7	62.8	62.1	58.4

See footnotes at end of table.

TABLE 7.—*Employment, Pay Rolls, Hours, and Earnings in Manufacturing and Nonmanufacturing Industries—Continued*

## MANUFACTURING—Continued

Industry	Employment index			Pay-roll index			Average weekly earnings			Average hours worked per week			Average hourly earnings		
	June 1941	May 1941	April 1941	June 1941	May 1941	April 1941	June 1941	May 1941	April 1941	June 1941	May 1941	April 1941	June 1941	May 1941	April 1941
<i>Nondurable goods—Continued</i>															
<b>Textiles and their products—Continued.</b>													<i>Cents</i>	<i>Cents</i>	<i>Cents</i>
Wearing apparel.....	121.7	124.0	126.2	103.8	105.7	106.2	\$20.50	\$20.23	\$19.91	36.0	36.2	35.3	55.9	55.0	55.3
Clothing, men's.....	120.1	118.8	117.9	107.4	101.2	98.3	22.79	21.71	21.32	36.3	35.9	35.6	63.0	60.3	60.0
Clothing, women's.....	158.1	165.2	171.9	118.1	131.3	132.3	20.23	21.36	20.53	35.8	36.7	35.0	53.7	54.5	55.0
Corsets and allied garments.....	118.0	118.1	118.1	138.7	136.6	132.5	19.49	19.12	18.65	38.8	38.7	37.5	49.6	48.8	49.2
Men's furnishings.....	121.8	122.0	122.3	131.1	129.9	123.9	15.89	15.85	15.13	36.1	36.5	34.9	43.3	42.7	42.6
Millinery.....	62.8	75.7	87.8	42.5	51.0	75.5	20.66	20.59	26.37	28.6	28.6	32.6	68.4	66.6	69.7
Shirts and collars.....	131.3	131.1	130.0	134.8	129.8	126.3	16.06	15.49	15.20	37.3	37.0	36.4	43.7	42.9	42.6
<b>Leather and its manufactures.....</b>	<b>98.1</b>	<b>96.5</b>	<b>98.0</b>	<b>97.2</b>	<b>91.0</b>	<b>92.3</b>	<b>22.97</b>	<b>22.09</b>	<b>21.87</b>	<b>38.7</b>	<b>37.5</b>	<b>38.0</b>	<b>59.9</b>	<b>59.0</b>	<b>57.9</b>
Boots and shoes.....	94.9	93.0	95.8	91.9	86.7	89.1	21.66	20.89	20.84	38.2	36.9	37.7	57.3	56.7	55.5
Leather.....	93.9	89.6	90.0	106.6	97.6	95.1	23.52	27.29	26.52	40.8	40.1	39.2	70.1	68.1	67.7
<b>Food and kindred products.....</b>	<b>135.0</b>	<b>127.5</b>	<b>123.6</b>	<b>144.3</b>	<b>134.7</b>	<b>125.2</b>	<b>27.05</b>	<b>26.88</b>	<b>25.56</b>	<b>41.0</b>	<b>40.3</b>	<b>39.6</b>	<b>67.2</b>	<b>67.0</b>	<b>65.5</b>
Baking.....	152.2	149.0	146.5	154.4	148.4	140.9	28.21	27.56	26.59	42.5	41.8	41.1	66.5	65.9	64.7
Beverages.....	309.6	293.0	271.5	391.3	362.4	331.4	36.99	36.19	35.67	41.4	40.7	40.1	90.2	89.8	89.8
Butter.....	113.8	109.6	102.3	104.6	97.4	89.9	23.98	23.15	22.96	46.9	45.9	45.3	50.6	49.5	50.0
Canning and preserving.....	135.9	99.9	96.9	133.5	91.1	87.5	18.75	17.44	17.33	36.6	34.3	34.2	51.9	51.7	51.4
Confectionery.....	80.4	81.0	86.4	85.5	83.7	85.8	20.50	19.91	19.17	38.1	37.6	37.1	54.6	53.1	51.9
Flour.....	77.9	76.5	77.4	79.2	75.3	76.4	27.34	26.44	26.59	43.1	42.0	42.5	63.3	62.6	62.3
Ice cream.....	92.3	87.0	77.8	82.7	75.1	68.8	30.35	29.28	30.08	46.7	45.5	45.9	64.0	63.8	64.2
Slaughtering and meat packing.....	120.3	116.8	110.2	137.8	133.1	115.1	29.79	29.55	27.14	40.4	40.5	39.1	73.8	73.1	69.4
Sugar, beet.....	48.1	47.4	43.6	57.2	53.8	48.2	30.71	29.35	28.63	39.8	39.5	37.9	79.0	77.2	78.6
Sugar refining, cane.....	98.5	102.5	102.6	97.5	90.0	92.5	27.77	24.89	25.53	41.8	38.2	39.1	66.9	65.2	65.2
<b>Tobacco manufactures.....</b>	<b>65.5</b>	<b>64.9</b>	<b>63.5</b>	<b>70.1</b>	<b>67.1</b>	<b>68.9</b>	<b>19.56</b>	<b>18.82</b>	<b>18.88</b>	<b>37.6</b>	<b>36.9</b>	<b>33.2</b>	<b>51.7</b>	<b>50.9</b>	<b>50.6</b>
Chewing and smoking tobacco and snuff.....	52.1	52.8	53.5	67.1	66.9	61.6	20.76	20.45	18.50	36.4	36.4	33.7	57.4	56.4	54.9
Cigars and cigarettes.....	67.2	66.4	64.7	70.3	67.0	58.5	19.34	18.52	16.58	37.7	36.9	33.0	51.1	50.3	50.1
<b>Paper and printing.....</b>	<b>121.5</b>	<b>120.8</b>	<b>119.4</b>	<b>128.6</b>	<b>124.9</b>	<b>121.2</b>	<b>32.10</b>	<b>31.13</b>	<b>30.54</b>	<b>40.1</b>	<b>40.0</b>	<b>39.6</b>	<b>82.6</b>	<b>81.1</b>	<b>80.5</b>
Boxes, paper.....	135.1	129.7	126.6	170.3	159.2	150.7	25.34	24.55	23.74	42.3	41.8	40.8	60.6	59.2	58.5
Paper and pulp.....	124.6	122.7	120.3	157.7	145.6	139.1	30.97	29.07	28.31	43.3	43.0	42.6	71.6	67.6	66.6
Printing and publishing:															
Book and job.....	101.6	103.2	102.8	94.8	95.7	93.7	32.21	32.01	31.54	39.7	39.7	39.4	82.5	81.9	81.4
Newspapers and periodicals.....	117.4	117.6	117.1	113.6	114.0	112.4	39.39	39.51	39.01	35.8	36.2	36.0	106.9	106.6	105.7

<b>Chemical, petroleum, and coal products</b> .....	<b>135.8</b>	<b>134.3</b>	<b>134.7</b>	<b>171.1</b>	<b>163.6</b>	<b>157.0</b>	<b>33.52</b>	<b>32.41</b>	<b>30.96</b>	<b>40.5</b>	<b>39.8</b>	<b>39.9</b>	<b>82.4</b>	<b>80.6</b>	<b>77.3</b>
Petroleum refining.....	125.4	122.0	120.5	156.7	146.3	142.4	38.64	37.14	36.64	38.3	37.0	37.0	102.2	100.8	99.5
Other than petroleum refining.....	138.3	137.3	138.1	175.5	168.9	161.5	31.73	30.78	29.09	41.2	40.7	40.7	76.1	74.4	70.7
Chemicals.....	172.1	166.8	162.4	232.6	221.8	208.3	36.00	35.48	34.24	41.7	41.1	40.8	86.4	86.3	83.9
Cottonseed—oil, cake, and meal.....	66.3	72.1	90.6	62.4	66.3	84.2	15.17	14.73	14.90	40.4	40.3	42.5	35.9	35.0	34.2
Druggists' preparations.....	127.4	125.2	122.4	149.9	142.8	137.7	26.43	25.49	25.12	41.0	39.4	39.4	62.7	61.5	61.1
Explosives.....	(10)	(10)	(10)	(10)	(10)	(10)	39.41	38.01	36.15	44.6	43.1	41.4	88.6	88.3	87.4
Fertilizers.....	92.5	127.1	178.7	93.7	127.4	176.9	18.15	17.99	17.48	37.4	38.5	41.9	48.5	46.8	41.7
Paints and varnishes.....	144.8	141.4	137.4	177.8	170.4	157.9	33.81	33.05	31.57	43.4	43.0	41.9	78.0	77.0	75.5
Rayon and allied products.....	327.0	323.5	317.9	362.4	356.2	342.3	28.35	28.16	27.54	39.3	39.5	39.0	72.2	71.2	70.6
Soap.....	93.3	92.2	91.6	129.0	125.7	115.6	32.58	32.13	29.76	41.1	40.7	40.4	79.3	78.9	73.7
<b>Rubber products</b> .....	<b>110.7</b>	<b>106.4</b>	<b>105.0</b>	<b>141.1</b>	<b>138.7</b>	<b>122.3</b>	<b>34.78</b>	<b>32.82</b>	<b>31.82</b>	<b>41.3</b>	<b>40.3</b>	<b>39.4</b>	<b>83.6</b>	<b>81.6</b>	<b>80.4</b>
Rubber boots and shoes.....	78.2	74.9	72.4	98.4	88.3	83.6	28.91	27.11	26.54	43.0	41.2	40.9	67.2	65.8	64.9
Rubber tires and inner tubes.....	86.3	83.3	82.3	122.4	111.1	106.3	41.41	38.88	37.68	39.9	38.6	37.9	103.7	100.8	99.5
Rubber goods other.....	190.2	181.7	180.5	224.4	207.2	194.9	28.57	27.56	26.10	42.2	41.7	40.4	68.1	66.6	65.1

See footnotes at end of table.

TABLE 7.—*Employment, Pay Rolls, Hours, and Earnings in Manufacturing and Nonmanufacturing Industries—Continued*

## NONMANUFACTURING

[Indexes are based on 12-month average, 1929=100]

Industry	Employment index			Pay-roll index			Average weekly earnings			Average hours worked per week			Average hourly earnings		
	June 1941	May 1941	April 1941	June 1941	May 1941	April 1941	June 1941	May 1941	April 1941	June 1941	May 1941	April 1941	June 1941	May 1941	April 1941
Coal mining:													<i>Cents</i>	<i>Cents</i>	<i>Cents</i>
Anthracite <sup>11 12</sup> .....	49.2	48.6	48.7	51.2	33.4	24.3	\$34.20	\$22.59	\$16.43	34.0	22.9	18.5	100.2	94.5	92.3
Bituminous <sup>11</sup> .....	86.6	86.5	23.5	104.5	102.0	15.8	32.08	31.34	18.02	31.5	30.9	22.8	102.0	100.6	84.1
Metalliferous mining <sup>13</sup> .....	78.1	77.1	77.2	85.6	81.5	78.9	34.50	33.28	32.19	43.1	41.8	41.2	80.3	79.9	78.5
Quarrying and nonmetallic mining.....	51.7	51.0	48.2	55.5	53.2	47.0	27.07	26.30	24.37	42.8	42.5	40.7	63.1	61.7	60.0
Crude-petroleum production.....	61.6	60.4	60.1	59.4	58.8	57.8	35.31	35.59	35.31	36.9	38.0	38.0	92.8	91.1	90.0
Public utilities:															
Telephone and telegraph <sup>14 15</sup> .....	86.1	84.6	83.2	112.1	110.5	107.1	31.82	31.91	31.55	39.8	40.3	39.8	80.3	79.7	79.6
Electric light and power <sup>14 15</sup> .....	93.7	92.2	91.3	111.3	109.6	107.6	36.28	36.32	35.96	39.3	40.2	39.8	92.5	90.7	90.6
Street railways and busses <sup>14 15 16</sup> .....	69.0	68.9	68.3	75.6	72.7	72.0	35.62	34.36	34.37	47.7	46.4	46.4	73.7	73.0	73.1
Trade:															
Wholesale <sup>14 17</sup> .....	93.1	92.2	92.4	87.5	84.6	83.4	32.68	31.90	31.36	41.3	41.2	41.0	79.8	78.1	77.5
Retail <sup>14 15</sup> .....	97.6	96.1	97.8	94.5	91.5	91.7	22.31	21.94	21.56	42.7	42.4	42.5	57.2	56.4	55.0
Food <sup>15</sup> .....	108.1	107.5	107.5	103.6	100.7	100.8	24.55	23.95	23.88	42.6	42.4	43.0	54.9	54.1	53.1
General merchandising <sup>14 15</sup> .....	104.8	102.5	108.7	99.6	96.0	98.6	18.81	18.55	18.13	38.8	38.7	38.7	48.1	47.6	46.1
Apparel <sup>15</sup> .....	90.6	90.5	99.9	85.5	84.5	94.4	21.99	21.47	21.97	38.0	37.7	38.1	57.7	56.9	57.3
Furniture <sup>15</sup> .....	78.8	78.7	76.8	76.3	75.7	71.9	30.28	29.99	29.44	44.0	44.3	44.4	75.0	72.6	70.3
Automotive <sup>15</sup> .....	94.0	92.3	90.7	102.5	99.9	95.8	32.63	32.44	31.52	47.6	47.2	47.6	70.1	69.3	66.4
Lumber <sup>15</sup> .....	79.4	77.0	74.9	80.1	76.5	72.6	28.25	27.85	27.11	43.3	43.0	42.4	65.9	65.3	64.8
Hotels (year-round) <sup>11 14 15</sup> .....	94.9	96.3	95.2	87.0	87.9	87.1	15.84	15.77	15.87	45.7	45.4	45.4	34.1	34.1	34.0
Laundries <sup>11</sup> .....	111.7	108.3	104.9	102.3	98.7	95.8	19.11	19.02	18.98	43.6	43.7	43.8	44.0	43.7	43.4
Dyeing and cleaning <sup>11</sup> .....	122.9	120.6	117.2	98.4	96.1	97.8	22.15	22.04	22.94	44.6	44.7	45.8	50.3	50.2	51.1
Brokerage <sup>14 19</sup> .....	-1.0	-1.6	-0.8	-0.6	-1.3	+0.2	38.75	38.58	38.54	(10)	(10)	(10)	(10)	(10)	(10)
Insurance <sup>14 19</sup> .....	+2.2	+2.2	+3.3	+1.6	+7.7	+4.4	38.08	37.55	37.34	(10)	(10)	(10)	(10)	(10)	(10)
Building construction <sup>19</sup> .....	+3.3	+5.4	+11.1	+4.2	+8.0	+15.5	35.15	34.87	33.96	35.3	35.1	34.4	99.7	99.3	98.9

<sup>1</sup> Mimeographed sheets giving averages by years, 1932 to 1939, inclusive, and by months, January 1938 to August 1940, inclusive, available on request. Average 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. The figures are not strictly comparable from month to month because of changes in the size and composition of the reporting sample.

<sup>2</sup> 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.

<sup>3</sup> See table 7 in the April 1941 issue of this pamphlet for revised figures from January 1940 to March 1941.

<sup>4</sup> 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 this pamphlet.

<sup>5</sup> The indexes for "Automobiles" have been adjusted to 1933 census figures, but not to later census figures because of problems involving integrated industries.

<sup>6</sup> See table 8 in March 1941 EMPLOYMENT AND PAY ROLLS pamphlet for revised figures from January 1935 to February 1941.

<sup>7</sup> Revisions in the brass, bronze, and copper products industry have been made as follows: November and December 1940, January and February 1941 average weekly and hourly earnings to \$34.17, \$35.80, \$35.27, \$35.20, and 80.2, 80.8, 80.8, and 81.1 cents; November 1940 and February 1941 average weekly hours to 42.7 and 43.5; January, February, and March employment indexes to 171.5, 175.9, and 180.5; November and December 1940, January, February, and March 1941 pay-roll indexes to 201.9, 218.9, 220.1, 224.4, and 237.9.

<sup>8</sup> Because of change in the composition of the reporting sample, hours and earnings are not comparable with those previously published for months prior to those for which comparable figures are given as indicated;

*Marble.*—Average weekly earnings, average weekly hours, average hourly earnings (comparable March figures \$25.19, 35.5 hours, 71.1 cents).

*Confectionery.*—Average weekly earnings and average weekly hours (comparable December 1940 figures \$19.75 and 40.2 hours); average hourly earnings (comparable December 1940, January, February 1941 figures 49.0, 51.1, and 51.8 cents).

<sup>9</sup> Because of expansion in the reporting sample, average weekly earnings, average weekly hours, and average hourly earnings are not comparable with those previously published for February and prior months (comparable February figures \$18.04, 36.8 hours, and 48.3 cents).

<sup>10</sup> Not available.

<sup>11</sup> Indexes adjusted to 1935 census. Comparable series back to January 1929 presented in January 1938 issue of this pamphlet.

<sup>12</sup> See table 7 of October 1940 EMPLOYMENT AND PAY ROLLS for revised employment and pay-roll indexes, average hours worked per week, average hourly earnings, and average weekly earnings in anthracite mining, February 1940 to September 1940, inclusive.

<sup>13</sup> See table 7 of February 1941 EMPLOYMENT AND PAY ROLLS pamphlet for revised figures for metalliferous mining from January 1938 to January 1941, inclusive.

<sup>14</sup> Average weekly earnings, hourly earnings, and hours not comparable with figures published in this pamphlet prior to January 1938 as they now exclude corporation officers, executives, and other employees whose duties are mainly supervisory.

<sup>15</sup> Retail-trade indexes adjusted to 1935 census and public-utility indexes to 1937 census. Not comparable to indexes published in EMPLOYMENT AND PAY ROLLS pamphlets prior to January 1940 or in issues of MONTHLY LABOR REVIEW prior to April 1940, with but one exception, retail furniture, which has been revised since publication of July 1940 pamphlet back to January 1936. Comparable series for earlier months available upon request.

<sup>16</sup> Covers street-railways and trolley and motorbus operations of subsidiary, affiliated, and successor companies; formerly electric-railroad and motorbus operation and maintenance.

<sup>17</sup> Indexes adjusted to 1933 census. Comparable series in November 1934 and subsequent issues of EMPLOYMENT AND PAY ROLLS.

<sup>18</sup> Cash payments only; additional value of board, room, and tips not included.

<sup>19</sup> Indexes of employment and pay rolls are not available; percentage changes from preceding month substituted.

TABLE 8.—*Indexes of Employment and Pay Rolls in Fifty-Five Additional Manufacturing Industries*

[12-month average 1939=100]

Industry	Employment			Pay rolls		
	June 1941	May 1941	April 1941	June 1941	May 1941	April 1941
<b>Iron and steel group:</b>						
Metal doors and shutters.....	133.9	128.8	126.9	170.3	142.7	135.9
Firearms.....	(1)	(1)	(1)	(1)	(1)	(1)
Screw-machine products.....	191.1	184.7	178.7	263.5	249.5	226.6
Wire drawing.....	136.7	137.2	136.5	169.8	168.1	157.6
Wrought pipe not made in rolling mills.....	156.5	156.2	155.7	200.2	201.4	175.7
Steel barrels, kegs, and drums.....	133.2	128.8	117.8	181.9	168.9	147.9
<b>Machinery group:</b>						
Machine-tool accessories.....	222.3	211.2	200.5	281.9	275.7	251.7
Pumps.....	183.4	173.9	165.5	268.0	243.1	218.6
Refrigerators and refrigerating apparatus.....	154.8	154.6	150.9	186.1	191.7	179.0
Sewing machines.....	128.2	125.3	122.3	194.1	178.1	165.4
Washing machines, wringers, and driers.....	138.3	137.5	130.8	179.5	173.0	162.6
<b>Transportation equipment group:</b>						
Motorcycles, bicycles, and parts.....	166.9	158.0	147.3	204.9	182.8	168.3
<b>Nonferrous metals group:</b>						
Sheet-metal work.....	142.9	141.3	142.2	179.9	170.9	161.2
Smelting and refining of scrap metal.....	143.2	138.4	141.2	175.0	163.6	167.5
<b>Lumber group:</b>						
Caskets and morticians goods.....	100.3	101.5	102.5	108.5	110.3	109.3
Wood preserving.....	119.6	120.2	121.0	146.7	143.5	142.8
Wood, turned and shaped.....	117.8	117.4	117.2	138.2	134.9	130.9
Wooden boxes, other than cigar.....	126.9	121.6	118.3	161.4	149.5	137.7
Mattresses and bedsprings.....	123.7	119.1	116.2	146.2	135.7	127.7
<b>Stone, clay, and glass products group:</b>						
Abrasive wheels.....	181.3	178.1	172.3	224.2	219.8	202.8
Asbestos products.....	137.3	126.8	121.3	171.4	158.3	139.6
Lime.....	124.0	125.6	120.0	153.0	157.7	141.0
Gypsum.....	121.7	118.2	112.6	147.8	137.2	127.4
Glass products made from purchased glass.....	140.8	144.6	134.6	157.0	160.9	143.5
Wallboard and plaster, except gypsum.....	133.6	127.9	122.8	156.2	148.9	137.1
<b>Textiles group:</b>						
Textile bags.....	111.2	110.3	110.8	124.4	120.4	110.6
Cordage and twine.....	133.6	129.2	124.6	171.6	161.1	148.1
Curtains, draperies, and bedspreads.....	99.1	101.0	98.2	115.3	115.9	115.0
Housefurnishings, other.....	147.6	143.0	136.0	168.7	159.8	141.3
Jute goods, except felt.....	126.1	120.1	121.5	159.5	151.4	150.7
Handkerchiefs.....	103.3	103.2	101.1	119.6	120.0	112.8
<b>Leather group:</b>						
Boot and shoe cut stock and findings.....	106.3	103.7	103.3	127.4	115.2	111.9
Leather gloves and mittens.....	141.3	135.7	135.7	179.0	172.1	169.4
Trunks and suitcases.....	150.6	142.1	136.4	148.3	138.4	131.6
<b>Food group:</b>						
Cereal preparations.....	109.8	106.1	101.7	125.5	118.7	113.9
Condensed and evaporated milk.....	124.8	119.8	109.6	146.7	134.9	117.7
Feeds, prepared.....	109.6	106.9	105.4	127.0	117.7	113.5
<b>Paper and printing group:</b>						
Paper bags.....	120.8	118.5	115.0	146.7	138.7	129.9
Envelopes.....	115.5	113.8	112.0	128.4	125.3	118.5
Paper goods, not elsewhere classified.....	121.1	118.8	117.7	137.1	129.0	124.7
Bookbinding.....	92.3	106.7	105.9	110.7	119.6	121.5
Lithographing.....	104.2	100.2	98.7	113.1	110.5	107.4
<b>Chemical, petroleum, and coal products group:</b>						
Ammunition.....	(1)	(1)	(1)	(1)	(1)	(1)
Compressed and liquefied gases.....	139.5	138.1	135.7	179.0	180.1	160.9
Perfumes and cosmetics.....	98.1	95.8	99.4	100.5	99.2	99.5
Coke-oven products.....	122.1	120.8	115.8	145.7	141.5	125.6
Paving materials.....	117.6	117.9	97.2	139.6	130.7	102.2
Roofing materials.....	128.8	124.7	121.5	165.4	149.3	136.0
<b>Miscellaneous group:</b>						
Chemical fire extinguishers.....	257.7	240.7	224.4	357.6	330.2	271.0
Buttons.....	112.4	114.8	111.9	139.3	138.2	129.6
Instruments—professional, scientific, and commercial.....	185.5	175.8	169.2	231.1	218.5	203.7
Optical goods.....	166.3	160.1	155.9	196.4	182.5	174.8
Photographic apparatus.....	120.4	115.6	113.6	154.3	135.3	128.9
Pianos, organs, and parts.....	121.5	121.1	123.1	133.2	131.2	129.3
Toys, games, and playground equipment.....	134.7	122.2	106.6	145.8	127.0	108.5

<sup>1</sup> Not available.

TABLE 9.—*Indexes of Employment and Pay Rolls in Selected Manufacturing<sup>1</sup> and Nonmanufacturing<sup>2</sup> Industries, June 1940 to June 1941*

Industry	1940								1941					
	Av.	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
<b>Employment</b>														
<i>Manufacturing</i>														
All industries.....	107.5	103.1	103.2	107.4	111.4	113.8	114.7	116.2	115.5	117.8	119.9	122.6	124.8	127.8
Durable goods <sup>3</sup> .....	104.3	99.8	98.4	102.4	108.2	112.8	115.5	117.7	118.3	121.0	123.7	127.7	131.2	135.1
Nondurable goods <sup>4</sup> .....	110.6	106.2	107.8	112.2	114.4	114.8	113.8	114.8	112.7	114.7	116.3	117.8	118.7	120.9
<i>Nonmanufacturing</i>														
Anthracite mining <sup>5</sup> .....	50.7	49.7	50.5	49.9	49.8	49.4	50.4	50.8	50.3	50.6	50.2	48.7	48.6	49.2
Bituminous-coal mining <sup>5</sup> .....	88.0	83.8	84.9	86.6	87.7	89.2	89.8	90.1	90.2	90.6	91.1	23.5	86.5	86.6
Metalliferous mining <sup>6</sup> .....	69.9	70.3	71.0	71.5	72.5	72.6	72.5	72.2	72.5	73.4	74.3	77.2	77.1	78.1
Quarrying and nonmetallic mining.....	45.3	47.9	48.1	48.5	48.9	48.8	47.2	45.4	41.7	42.4	44.2	48.2	51.0	51.7
Crude-petroleum production.....	62.9	63.8	63.7	63.6	63.0	62.4	61.3	60.7	60.3	60.4	60.2	60.1	60.4	61.6
Telephone and telegraph <sup>7</sup> .....	77.9	77.8	78.8	79.0	78.9	79.1	79.2	79.7	80.4	80.9	81.8	83.2	84.6	86.1
Electric light and power <sup>7</sup> .....	91.1	91.2	92.2	93.0	92.7	92.3	91.8	91.3	90.5	90.1	90.3	91.3	92.2	93.7
Street railways and busses <sup>7</sup> .....	68.5	68.5	68.4	68.4	68.5	68.7	68.7	68.4	68.3	68.0	68.2	68.3	68.9	69.0
Wholesale trade.....	90.4	89.6	89.2	90.1	90.9	91.0	91.8	92.5	91.2	91.4	91.8	92.4	92.2	93.1
Retail trade <sup>7</sup> .....	92.3	91.9	89.1	88.7	92.8	94.3	96.3	108.1	90.5	90.7	92.5	97.8	96.1	97.6
Year-round hotels <sup>8</sup> .....	92.0	92.0	90.3	90.3	91.6	93.4	92.3	92.6	92.9	93.9	94.2	95.2	96.3	94.9
Laundries <sup>8</sup> .....	99.5	102.1	102.5	102.8	101.9	100.2	99.7	100.3	101.4	101.1	102.5	104.9	108.3	111.7
Dyeing and cleaning <sup>8</sup> .....	104.7	112.6	108.2	106.7	110.0	109.4	106.0	103.3	101.0	101.4	104.4	117.2	120.6	122.9
<b>Pay rolls</b>														
All industries.....	105.4	99.5	98.2	105.5	111.6	116.2	116.4	122.4	120.7	126.8	131.2	134.7	144.0	152.1
Durable goods <sup>3</sup> .....	107.8	101.4	97.4	106.5	115.1	123.4	125.1	131.7	132.0	139.3	144.6	149.9	163.0	173.8
Nondurable goods <sup>4</sup> .....	102.7	97.4	99.1	104.4	107.7	108.1	106.6	112.1	108.1	112.9	116.3	117.7	122.7	127.8
<i>Nonmanufacturing</i>														
Anthracite mining <sup>5</sup> .....	38.5	40.6	36.5	33.1	39.3	32.3	37.6	42.7	38.5	45.2	42.4	24.3	33.4	51.2
Bituminous-coal mining <sup>5</sup> .....	81.2	73.9	75.2	82.5	83.2	83.6	84.5	91.4	87.8	90.8	93.8	15.8	102.0	104.5
Metalliferous mining <sup>6</sup> .....	66.7	65.3	63.6	68.5	69.5	71.3	69.8	72.8	70.4	71.8	72.7	78.9	81.5	85.6
Quarrying and nonmetallic mining.....	40.5	43.9	43.5	45.2	46.2	46.7	42.3	42.4	36.9	38.2	40.3	47.0	53.2	55.5
Crude-petroleum production.....	58.2	58.8	59.1	59.0	58.2	57.6	56.8	55.9	55.7	57.3	56.1	57.8	58.8	59.4
Telephone and telegraph <sup>7</sup> .....	100.2	100.0	101.3	100.4	101.8	102.2	103.2	103.5	103.9	104.3	106.4	107.1	110.5	112.1
Electric light and power <sup>7</sup> .....	104.8	104.8	105.8	108.1	105.8	107.0	106.9	106.0	105.1	105.4	106.1	107.6	109.6	111.3
Street railways and busses <sup>7</sup> .....	70.4	70.5	70.0	70.4	71.5	70.7	70.3	73.1	70.7	71.0	72.5	72.0	72.7	75.6
Wholesale trade.....	79.0	78.4	78.3	78.7	81.1	80.2	80.7	83.4	80.5	81.4	82.0	83.4	84.6	87.5
Retail trade <sup>7</sup> .....	84.2	84.8	82.6	81.5	85.1	85.8	87.1	97.3	83.7	84.6	86.2	91.7	91.5	94.5
Year-round hotels <sup>8</sup> .....	82.4	82.0	80.5	80.7	81.8	84.2	83.6	84.1	84.1	86.1	85.7	87.1	87.9	87.0
Laundries <sup>8</sup> .....	87.7	92.4	90.0	90.5	89.9	88.0	87.2	89.2	89.8	89.7	90.9	95.8	98.7	102.3
Dyeing and cleaning <sup>8</sup> .....	78.2	89.6	80.0	78.9	85.6	82.4	77.8	75.8	73.3	74.4	77.2	97.8	96.1	98.4

<sup>1</sup> 3-year average 1923-25=100—adjusted to preliminary 1939 Census of Manufactures. See tables 9, 10, and 11 of December 1940 EMPLOYMENT AND PAY ROLLS for comparable figures back to January 1919 for "all manufacturing" and January 1923 for "durable goods" and "nondurable goods."

<sup>2</sup> 12-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 indexes see notes 5, 6 and 7.

<sup>3</sup> Includes: Iron and steel, machinery, transportation equipment, nonferrous metals, lumber and allied products, and stone, clay, and glass products.

<sup>4</sup> Includes: Textiles and their products, leather and its manufactures, food and kindred products, tobacco manufactures, paper and printing, chemicals and allied products, products of petroleum and coal, rubber products, and a number of miscellaneous industries not included in other groups.

<sup>5</sup> 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.

<sup>6</sup> See table 7 of February 1941 pamphlet for revised indexes January 1938 to January 1941.

<sup>7</sup> Retail-trade indexes adjusted to 1935 census and public-utility indexes to 1937 census. Not comparable with indexes published in EMPLOYMENT 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.

<sup>8</sup> Covers street railways and trolley and motorbus operations of subsidiary, affiliated, and successor companies.



## INDUSTRIAL AND BUSINESS EMPLOYMENT IN PRINCIPAL METROPOLITAN AREAS

A comparison of employment and pay rolls in May and June 1941 is made in table 10 for 13 metropolitan areas, each of which had a population of 500,000 or over in 1930. Cities within these areas but having a population of 100,000 or over are not included. Footnotes to the table specify which cities are excluded. Data concerning them have been prepared in a supplementary tabulation which is available on request. The figures represent reports from cooperating establishments and cover both full- and part-time workers in the manufacturing and nonmanufacturing industries presented in table 6, with the exception of building construction, and include also miscellaneous industries.

Revisions made in the figures after they have gone to press, chiefly because of late reports by cooperating firms, are incorporated in the supplementary tabulation mentioned above. This supplementary tabulation covers these 13 metropolitan areas as well as other metropolitan areas and cities having a population of 100,000 or more according to the 1930 census of population.

**TABLE 10.—Comparison of Employment and Pay Rolls in Identical Establishments in May and June 1941, by Principal Metropolitan Areas**

Metropolitan area	Number of establishments June 1941	Number on pay roll June 1941	Percentage change from May 1941	Amount of pay roll (1 week) June 1941	Percentage change from May 1941
New York <sup>1</sup> .....	13, 268	772, 580	+0.6	\$24, 661, 472	+2.6
Chicago <sup>2</sup> .....	4, 282	553, 503	+2.5	17, 833, 867	+4.4
Philadelphia <sup>3</sup> .....	2, 345	278, 032	+1.3	8, 997, 741	+4.1
Detroit.....	1, 169	395, 144	+8	17, 402, 363	+7.8
Los Angeles <sup>4</sup> .....	2, 907	253, 006	+2.7	8, 368, 443	+4.1
Cleveland.....	1, 507	161, 876	+2.6	5, 757, 124	+4.8
St. Louis.....	1, 354	157, 464	+3.1	4, 450, 435	+6.3
Baltimore.....	1, 118	147, 392	-1.0	4, 605, 952	+4
Boston <sup>5</sup> .....	2, 761	210, 262	+2.5	6, 312, 995	+4.3
Pittsburgh.....	1, 252	246, 943	+2.5	9, 156, 868	+3.5
San Francisco <sup>6</sup> .....	1, 606	109, 659	+3.4	3, 828, 974	+9.7
Buffalo.....	785	119, 182	+2.1	4, 089, 027	+4.4
Milwaukee.....	966	135, 816	+2.3	4, 597, 831	+5.7

<sup>1</sup> Does not include Elizabeth, Jersey City, Newark, or Paterson, N. J., or Yonkers, N. Y.

<sup>2</sup> Does not include Gary, Ind.

<sup>3</sup> Does not include Camden, N. J.

<sup>4</sup> Does not include Long Beach, Calif.

<sup>5</sup> Does not include Cambridge, Lynn, or Somerville, Mass.

<sup>6</sup> Does not include Oakland, Calif.

## WAGE-RATE CHANGES IN AMERICAN INDUSTRIES

The following table gives information concerning wage-rate adjustments occurring during the month ending June 15, 1941, as shown by reports received from manufacturing and nonmanufacturing establishments which supply employment data to this Bureau.

As the Bureau's survey does not cover all establishments in an indus-

try and, furthermore, 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 in manufacturing and non-manufacturing industries.

**TABLE 11.—*Wage-Rate Changes Reported by Manufacturing and Nonmanufacturing Establishments During Month Ending June 15, 1941*<sup>1 2</sup>**

Group and industry	Establishments		Employees		Average percent- age change in wage rates of employees having increases
	Total number covered	Number reporting increases	Total number covered	Number having increases	
<b>All manufacturing</b> .....	<b>33, 016</b>	<b>1, 374</b>	<b>7, 150, 772</b>	<b>728, 280</b>	<b>9. 1</b>
<b>Iron and steel and their products, not including machinery</b> .....	<b>2, 531</b>	<b>132</b>	<b>1, 058, 483</b>	<b>52, 802</b>	<b>9. 2</b>
Blast furnaces, steel works, and rolling mills.....	347	9	570, 595	5, 588	7. 1
Bolts, nuts, washers, and rivets.....	64	6	18, 651	2, 633	13. 9
Cutlery(not including silver and plated cutlery) and edge tools.....	117	4	15, 692	400	5. 9
Forgings, iron and steel.....	91	7	16, 663	335	9. 9
Hardware.....	157	8	53, 267	16, 248	10. 0
Stamped and enameled ware.....	228	21	49, 284	4, 343	7. 3
Steam and hot-water-heating apparatus and steam fittings.....	111	15	40, 225	6, 370	8. 9
Stoves.....	240	11	43, 095	1, 963	7. 2
Structural and ornamental metalwork.....	299	15	35, 713	2, 105	10. 5
Tin cans and other tinware.....	134	5	36, 901	704	7. 3
Tools (not including edge tools, machine tools, files, and saws).....	131	3	19, 698	386	8. 0
Wirework.....	163	9	29, 314	1, 722	6. 8
Firearms.....	12	4	15, 214	7, 774	9. 9
Screw-machine products.....	80	4	16, 848	128	6. 7
<b>Machinery, not including transportation equipment</b> .....	<b>3, 816</b>	<b>211</b>	<b>1, 155, 741</b>	<b>61, 684</b>	<b>9. 0</b>
Agricultural implements (including tractors).....	110	5	70, 260	2, 179	5. 7
Cash registers, adding machines, and calculat- ing machines.....	35	4	23, 802	990	8. 4
Electrical machinery, apparatus, and supplies.....	590	46	317, 665	29, 885	10. 2
Engines, turbines, water wheels, and wind- mills.....	68	8	82, 491	6, 410	7. 8
Foundry and machine-shop products.....	2, 249	106	374, 390	16, 409	9. 0
Machine tools.....	196	13	86, 553	6, 077	9. 8
Textile machinery and parts.....	125	8	22, 430	3, 282	9. 7
Typewriters and parts.....	13	3	17, 939	7, 583	6. 5
Machine-tool accessories.....	92	5	17, 334	859	8. 5
Pumps.....	106	6	25, 597	4, 760	8. 6
Refrigerating and refrigerating apparatus.....	59	4	40, 931	1, 740	10. 3
<b>Transportation equipment</b> .....	<b>795</b>	<b>53</b>	<b>917, 648</b>	<b>114, 385</b>	<b>9. 6</b>
Automobiles.....	410	86	489, 086	263, 600	9. 2
Cars, electric- and steam railroad.....	70	4	43, 115	3, 013	6. 9
Shipbuilding.....	175	15	177, 111	28, 159	14. 6
<b>Nonferrous metals and their products</b> .....	<b>1, 078</b>	<b>61</b>	<b>247, 887</b>	<b>36, 628</b>	<b>8. 1</b>
Brass, bronze, and copper products.....	332	27	98, 878	20, 644	7. 2
Clocks and watches and time-recording de- vices.....	36	6	23, 643	4, 336	6. 0
Jewelry.....	202	4	16, 984	51	6. 7
Lighting equipment.....	92	6	14, 538	4, 551	10. 8
Smelting and refining—copper, lead, and zinc.....	55	7	33, 120	3, 562	10. 2
Electroplating.....	36	3	2, 269	263	10. 2
Sheet-metal work.....	130	7	7, 545	1, 031	12. 3
<b>Lumber and allied products</b> .....	<b>2, 790</b>	<b>111</b>	<b>352, 680</b>	<b>23, 015</b>	<b>9. 2</b>
Furniture.....	705	27	107, 115	11, 506	10. 7
Lumber:					
Millwork.....	588	22	41, 675	1, 529	10. 3
Sawmills.....	760	47	136, 475	8, 924	7. 0
Wooden boxes, other than cigar.....	134	7	15, 164	564	11. 0

See footnotes at end of table.

**TABLE 11.—Wage-Rate Changes Reported by Manufacturing and Nonmanufacturing Establishments During Month Ending June 15, 1941—Continued**

Group and industry	Establishments		Employees		Average percent- age change in wage rates of employees having increases
	Total number covered	Number reporting increases	Total number covered	Number having increases	
<b>Stone, clay, and glass products</b> .....	1,572	65	224,584	12,296	8.2
Brick, tile, and terra cotta.....	528	20	45,581	2,173	10.0
Cement.....	130	10	21,933	1,654	10.5
Glass.....	144	9	70,307	1,530	8.0
Marble, granite, slate, and other products.....	250	4	6,133	66	5.5
Pottery.....	129	5	33,184	1,758	7.0
Asbestos products.....	23	4	10,725	1,152	6.6
Lime.....	86	3	7,198	335	7.2
Gypsum.....	24	3	2,838	230	4.4
<b>Textiles and their products</b> .....	6,368	167	1,348,885	38,577	9.4
Fabrics.....	3,374	64	1,009,718	18,409	8.8
Cotton goods.....	799	9	428,735	4,042	9.7
Dyeing and finishing textiles.....	221	6	58,903	1,111	6.3
Knitted underwear.....	130	3	36,786	1,203	8.4
Silk and rayon goods.....	405	10	79,513	2,662	9.0
Woolen and worsted goods.....	391	19	145,708	5,178	9.7
Cordage and twine.....	58	3	12,931	521	7.7
Wearing apparel.....	2,994	103	339,167	20,168	9.9
Clothing, men's.....	1,119	71	148,424	13,042	10.1
Clothing, women's.....	1,144	7	85,329	1,268	6.7
Shirts and collars.....	264	22	57,282	5,477	9.8
<b>Leather and its manufactures</b> .....	1,053	41	239,347	7,351	7.6
Boots and shoes.....	485	13	167,027	2,860	7.4
Leather.....	173	16	39,254	3,619	7.2
Boot and shoe cut stock and findings.....	126	6	10,172	436	7.1
<b>Food and kindred products</b> .....	5,144	147	472,789	24,597	10.9
Baking.....	1,001	13	80,968	664	5.9
Beverages.....	599	10	43,485	655	5.7
Butter.....	317	3	6,540	316	7.9
Canning and preserving.....	1,013	56	83,075	9,849	14.9
Confectionery.....	285	8	33,981	4,880	8.2
Flour.....	341	8	14,701	166	11.7
Ice cream.....	278	3	11,420	69	4.5
Slaughtering and meat packing.....	337	15	124,247	3,200	8.6
Condensed and evaporated milk.....	106	4	6,806	117	8.0
Feeds, prepared.....	99	7	3,986	188	7.7
<b>Tobacco manufactures</b> .....	225	11	68,481	9,134	5.2
Cigars and cigarettes.....	182	10	57,537	9,038	5.2
<b>Paper and printing</b> .....	3,972	150	385,966	54,339	9.5
Boxes, paper.....	658	19	48,511	1,784	8.9
Paper and pulp.....	433	96	140,864	49,653	9.6
Printing and publishing:					
Book and job.....	1,604	20	79,876	760	5.8
Newspapers and periodicals.....	732	4	60,853	37	9.0
Paper goods, not elsewhere classified.....	121	9	17,531	1,796	9.6
<b>Chemical, petroleum, and coal products</b> .....	2,369	112	359,787	35,812	7.5
Chemicals.....	239	17	75,636	4,210	6.5
Druggists' preparations.....	92	4	12,599	291	6.1
Fertilizers.....	311	11	11,913	588	9.9
Paints and varnishes.....	527	25	25,936	2,358	8.3
Petroleum refining.....	182	15	73,479	2,981	6.8
Rayon and allied products.....	30	6	51,847	15,829	6.0
Soap.....	88	4	17,267	63	13.3
<b>Rubber products</b> .....	252	13	138,919	30,061	6.5
Rubber tires and inner tubes.....	42	4	66,611	26,288	6.4
Rubber goods, other.....	198	9	50,436	3,773	6.6
<b>Miscellaneous</b> .....	1,053	43	179,595	22,361	9.4
Instruments—professional, scientific, and commercial.....	62	3	23,003	1,509	6.5
Photographic apparatus.....	21	4	20,986	15,266	10.0
Pianos, organs, and parts.....	47	5	6,654	155	6.7

See footnotes at end of table.

TABLE 11.—*Wage-Rate Changes Reported by Manufacturing and Nonmanufacturing Establishments During Month Ending June 15, 1941—Continued*

Group and industry	Establishments		Employees		Average percent- age change in wage rates of employees having increases
	Total number covered	Number reporting increases	Total number covered	Number having increases	
<b>All nonmanufacturing (except building construction)</b> .....	<b>*94, 150</b>	<b>774</b>	<b>*3, 016, 000</b>	<b>49, 192</b>	<b>7. 0</b>
Anthracite mining.....	*80	7	*58, 300	8, 890	7. 5
Bituminous-coal mining.....	*1, 080	3	*237, 900	207	27. 2
Metalliferous mining.....	*380	6	*73, 000	253	8. 6
Quarrying and nonmetallic mining.....	*1, 100	14	*40, 400	659	12. 2
Crude-petroleum production.....	*480	11	*38, 100	1, 758	6. 4
Natural gas.....	*670	3	*25, 300	3, 306	5. 7
Electric light and power.....	*2, 850	59	*248, 000	3, 577	5. 0
Manufactured gas.....	*160	4	*34, 800	4, 719	4. 7
Street railways and busses.....	*360	10	*133, 100	15, 461	6. 9
Trade:					
Wholesale.....	*15, 320	71	*344, 400	5, 273	8. 3
Retail.....	*53, 760	543	*1, 063, 900	3, 356	7. 5
Hotels.....	*1, 990	7	*151, 000	162	10. 8
Laundries.....	*1, 310	18	*85, 700	1, 107	8. 0
Dyeing and cleaning.....	*860	10	*20, 100	395	6. 1
Brokerage.....	*1, 320	3	*18, 700	49	10. 3
Insurance.....	*2, 680	3	*126, 100	14	13. 4

<sup>1</sup> Figures are not given for some industries to avoid disclosure of information concerning individual establishments. They are, however, included where practicable in "all manufacturing," and in the various industry groups.

\* No decreases reported.

\* Approximate—based on previous month's sample.

### 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 May and June 1941 are given in table 12.

TABLE 12.—*Employment and Pay Rolls for the Executive Service of the United States Government, June 1941*<sup>1</sup>

[Subject to revision]

Class	Employment			Pay rolls		
	June 1941	May 1941	Percent- age change	June 1941	May 1941	Percent- age change
<b>Entire service:</b>						
<b>Total.....</b>	<b>1, 370, 110</b>	<b>1, 303, 333</b>	<b>+4. 9</b>	<b>\$205, 581, 047</b>	<b>\$198, 382, 389</b>	<b>+3. 6</b>
Regular appropriation.....	1, 167, 162	1, 116, 503	+4. 5	176, 632, 657	170, 169, 547	+3. 8
Emergency appropriation.....	48, 206	47, 326	+1. 9	6, 711, 406	6, 578, 430	+2. 0
Force-account.....	154, 742	142, 504	+8. 6	22, 236, 984	21, 634, 412	+2. 8
Inside the District of Columbia:						
<b>Total.....</b>	<b>184, 236</b>	<b>177, 328</b>	<b>+3. 9</b>	<b>30, 601, 962</b>	<b>30, 268, 124</b>	<b>+1. 1</b>
Regular appropriation.....	167, 672	160, 794	+4. 3	27, 739, 709	27, 316, 671	+1. 5
Emergency appropriation.....	7, 845	7, 741	+1. 3	1, 216, 424	1, 210, 124	+ . 5
Force-account.....	8, 719	8, 793	— . 8	1, 645, 529	1, 741, 329	—5. 5
Outside the District of Columbia:						
<b>Total.....</b>	<b>1, 185, 874</b>	<b>1, 129, 005</b>	<b>+5. 0</b>	<b>174, 979, 385</b>	<b>168, 114, 265</b>	<b>+4. 1</b>
Regular appropriation.....	999, 490	955, 709	+4. 6	148, 892, 948	142, 852, 876	+4. 2
Emergency appropriation.....	40, 361	39, 585	+2. 0	5, 494, 982	5, 368, 306	+2. 4
Force-account.....	146, 023	133, 711	+9. 2	20, 591, 455	19, 893, 083	+3. 5

<sup>1</sup> 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 June 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, June 1941<sup>1</sup>**

[Subject to revision]

Type of project	Employment		Monthly pay rolls	Man-hours worked during month	Average earnings per hour	Value of material orders placed during month
	Maximum <sup>2</sup>	Weekly average				
All programs.....	9,507	8,170	\$1,056,578	1,130,827	\$0.934	\$1,478,443
<b>Federal projects financed from National Industrial Recovery Act funds</b>						
All projects.....	209	190	\$21,251	32,484	\$0.654	\$17,928
Building construction.....	35	28	3,604	2,722	1.324	5,633
Naval vessels.....	16	16	3,216	3,216	1.000	0
Public roads <sup>3</sup> .....	(5)	86	5,492	13,425	.410	11,000
Reclamation.....	39	36	4,547	6,540	.695	755
Water and sewerage.....	31	22	4,029	6,259	.644	420
Miscellaneous.....	2	2	363	322	1.127	120
<b>Federal projects financed from Public Works Administration Appropriation Act, 1938 funds</b>						
All projects.....	1,389	1,249	\$154,237	193,246	\$0.798	\$242,415
Airport construction (exclusive of buildings).....	210	210	24,525	40,647	.603	15,449
Building construction.....	194	170	20,761	20,471	1.014	126,950
Reclamation.....	834	751	97,803	117,263	.834	75,959
River, harbor, and flood control.....	127	96	10,563	14,172	.745	7,188
Streets and roads.....	20	20	225	296	.760	2,154
Miscellaneous.....	4	2	360	397	.907	14,725
<b>Non-Federal projects financed from National Industrial Recovery Act funds</b>						
All projects.....	95	95	\$3,508	4,157	\$0.844	0
Building construction.....	5	5	164	108	1.519	0
Railroad construction.....	69	69	781	1,486	.526	0
Miscellaneous.....	21	21	2,563	2,563	1.000	0
<b>Non-Federal projects financed from Emergency Relief Appropriation Act, 1935, 1936, and 1937 funds</b>						
All projects.....	3,327	2,955	\$363,935	498,042	\$0.731	\$574,838
Building construction.....	18	15	902	707	1.276	383
Electrification.....	127	92	8,792	9,439	.931	867
Heavy engineering.....	3,175	2,842	353,103	486,832	.725	573,588
Water and sewerage.....	7	6	1,138	1,064	1.069	0

See footnotes at end of table.

**TABLE 13.—Employment and Pay Rolls on Projects Financed From Public Works Administration Funds, June 1941<sup>1</sup>—Continued**

Type of project	Employment		Monthly pay rolls	Man-hours worked during month	Average earnings per hour	Value of material orders placed during month
	Maximum <sup>2</sup>	Weekly average				
	Non-Federal projects financed from Public Works Administration Appropriation Act, 1938 funds					
All projects..	4,487	3,681	\$513,647	402,898	\$1.275	\$643,262
Building construction.....	1,381	1,120	171,472	111,095	1.543	192,288
Heavy engineering.....	1,778	1,460	191,751	173,917	1.103	321,750
Reclamation.....	21	13	1,308	1,598	.819	574
Streets and roads.....	307	262	19,673	16,781	1.172	8,961
Water and sewerage.....	741	601	74,069	64,359	1.151	45,052
Miscellaneous.....	259	225	55,374	35,148	1.575	74,637

<sup>1</sup> Data are for the month ending on the 15th.

<sup>2</sup> Maximum number employed during any 1 week of the month by each contractor and Government agency doing force-account work.

<sup>3</sup> Includes weekly average for public roads.

<sup>4</sup> Under the jurisdiction of Public Roads Administration.

<sup>5</sup> Not available; weekly average included in total for all projects.

### UNITED STATES HOUSING AUTHORITY

Table 14 shows data concerning employment, pay rolls, and man-hours worked in June 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, June 1941**

Subject to revision

Geographic division	Employment		Monthly pay rolls	Man-hours worked during month	Average earnings per hour	Value of material orders placed during month
	Maximum	Weekly average				
All divisions..	40,958	34,771	\$4,247,710	4,447,978	\$0.955	\$5,267,184
New England.....	4,498	3,889	524,704	498,918	1.052	567,480
Middle Atlantic.....	5,075	4,250	676,593	519,820	1.302	883,614
East North Central.....	6,945	5,967	878,258	748,586	1.173	999,777
West North Central.....	323	246	30,202	30,273	.998	33,186
South Atlantic.....	11,527	9,639	1,034,036	1,244,998	.831	1,247,478
East South Central.....	2,858	2,399	241,190	316,338	.762	306,389
West South Central.....	5,668	4,818	500,744	622,768	.804	780,683
Mountain.....	379	329	29,773	38,305	1.038	53,504
Pacific.....	2,102	1,772	273,213	230,098	1.187	342,953
Outside continental United States..	1,583	1,462	48,997	197,874	.248	52,120

### WORK PROJECTS ADMINISTRATION PROGRAM

A record of employment, pay rolls, and man-hours worked in June on projects financed by the Work Projects Administration is shown in table 15, by type of project.

TABLE 15.—*Employment and Pay Rolls on Projects Financed by the Work Projects Administration, June 1941*

[Subject to revision]

Type of project	Employment		Monthly pay-roll disbursements	Number of man-hours worked during month	Average earnings per hour	Value of material orders placed during month
	Maximum number employed <sup>1</sup>	Weekly average				
All projects .....	Projects operated by the Work Projects Administration <sup>2</sup>					
	1,369,728		\$79,222,498	172,559,357	\$0.459	( <sup>3</sup> )
	Projects operated by other Federal agencies					
All projects .....	49,289	47,382	\$2,323,783	5,619,978	\$0.413	\$652,977
Airport construction (exclusive of buildings) <sup>4</sup> .....	107	102	9,691	18,014	.538	0
Building construction.....	24,174	22,937	1,186,608	2,788,092	.426	379,899
Forestry .....	7,457	7,369	310,028	791,251	.392	56,520
Grade-crossing elimination <sup>5</sup> .....	160	139	14,162	22,023	.643	16,360
Hydroelectric power plants <sup>4</sup> .....	1,254	1,228	57,284	206,180	.278	109,227
Plant, crop, and livestock conservation .....	7,221	7,180	333,183	731,668	.455	36,323
Professional, technical, and clerical .....	1,327	1,279	95,149	163,185	.583	5,913
Public roads <sup>6</sup> .....	193	141	11,488	21,498	.534	14,751
Reclamation .....	6,386	6,079	274,214	758,366	.362	27,287
River, harbor, and flood control.....	33	31	1,959	3,364	.582	0
Streets and roads .....	555	513	18,147	67,996	.267	4,255
Water and sewerage.....	176	146	4,885	18,146	.269	2,196
Miscellaneous.....	246	238	6,985	30,195	.231	246

<sup>1</sup> Maximum number employed during any 1 week of the month by each contractor and Government agency doing force-account work.

<sup>2</sup> Data are for the calendar month; will be published by type of project in July pamphlet.

<sup>3</sup> Data on a monthly basis are not available.

<sup>4</sup> Includes projects under construction in Puerto Rico.

<sup>5</sup> Projects under the jurisdiction of the Public Roads Administration.

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

TABLE 16.—*Average Employment and Pay Rolls on Projects Operated by the Work Projects Administration, by Type of Project, May 1941*

[Subject to revision]

Type of project	Employment <sup>1</sup>	Pay-roll disbursements	Man-hours worked	Average earnings per hour
All projects.....	1,446,994	\$86,527,291	190,895,422	\$0.453
Conservation.....	34,008	2,140,573	4,767,320	.449
Highways, roads, and streets.....	521,122	27,412,958	65,834,852	.416
Community service programs, excluding sewing.....	297,993	19,735,049	39,848,665	.495
Public buildings <sup>2</sup> .....	139,032	9,195,118	18,928,658	.486
Publicly owned or operated utilities.....	140,033	8,768,909	18,647,632	.470
Recreational facilities <sup>3</sup> .....	56,013	3,456,115	6,933,640	.498
Sanitation.....	16,004	839,554	2,034,594	.413
Sewing.....	99,862	5,272,964	12,906,065	.409
Airports and airways.....	70,016	4,674,579	11,123,962	.420
Not elsewhere classified—Total.....	72,911	5,031,382	9,870,094	.510
National defense vocational training .....	34,098	1,967,499	4,378,713	.449
Other.....	38,813	3,063,883	5,491,381	.558

<sup>1</sup> Data for "All projects" and for "National defense vocational training" represent the average of the weekly employment counts made as of each Wednesday during the calendar month; data for all other types are estimated on the basis of employment on May 28, 1941.

<sup>2</sup> Separate data for housing projects are not available.

<sup>3</sup> Exclusive of buildings.

## NATIONAL YOUTH ADMINISTRATION

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

**TABLE 17.—Employment and Pay Rolls on National Youth Administration Projects, June and May 1941**

[Subject to revision]

Type of project	Employment		Pay rolls	
	June	May	June	May
Total.....	750, 518	863, 458	\$10, 715, 168	\$11, 609, 269
Student work program.....	358, 004	463, 978	2, 602, 449	3, 400, 476
Out-of-school work program..	392, 514	399, 480	8, 112, 719	8, 208, 793

## CIVILIAN CONSERVATION CORPS

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

**TABLE 18.—Employment and Pay Rolls in the Civilian Conservation Corps, June 1941 <sup>1</sup>**

[Subject to revision]

Group	Employment		Pay rolls	
	June 1941	May 1941	June 1941	May 1941
All groups..	235, 024	261, 357	\$11, 277, 971	\$12, 242, 703
Enrolled personnel <sup>2</sup> ..	199, 646	225, 957	5, 988, 552	7, 036, 039
Nurses <sup>3</sup> .....	125	124	17, 349	16, 011
Educational advisers <sup>3</sup> .....	1, 476	1, 518	257, 384	261, 915
Supervisory and technical <sup>3</sup> ..	33, 777	33, 758	5, 014, 686	4, 928, 738

<sup>1</sup> 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.

<sup>2</sup> June data include 3,166 enrollees and pay roll of \$61,506 outside continental United States; in May the corresponding figures were 3,080 enrollees and pay roll of \$62,007.

<sup>3</sup> 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 June 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, June 1941 <sup>1</sup>**

[Subject to revision]

Type of project	Employment <sup>2</sup>	Monthly pay rolls	Man-hours worked during month	Average earnings per hour	Value of material orders placed during month
All projects.....	10,935	\$1,522,123	1,322,996	\$1.151	\$3,361,568
Building construction <sup>3</sup> .....	10,276	1,474,771	1,272,571	1.159	3,303,910
Streets and roads.....	409	8,212	12,503	.657	.....
Water and sewerage.....	153	26,578	28,292	.939	50,871
Heavy engineering.....	97	12,562	9,630	1.304	6,787

<sup>1</sup> Data are for the month ending on the 15th.

<sup>2</sup> Maximum number employed during any 1 week of the month by each contractor.

<sup>3</sup> Includes 351 employees; pay-roll disbursements of \$69,073; 55,958 man-hours worked; and material orders placed of \$16,428; on projects financed by RFC 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 June 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, June 1941 <sup>1</sup>**

[Subject to revision]

Type of project	Employment		Monthly pay rolls	Man-hours worked during month	Average earnings per hour	Value of material orders placed during month
	Maximum <sup>1</sup>	Weekly average				
All projects.....	820,110	747,735	\$111,482,646	125,939,998	\$0.885	\$203,714,431
Airport construction.....	51,819	47,230	7,462,792	8,434,850	.885	10,312,048
Building construction:						
Residential.....	64,896	56,868	6,721,549	7,744,974	.868	10,112,341
Nonresidential.....	312,332	271,106	45,473,413	46,167,448	.985	61,533,747
Electrification:						
Rural Electrification Administration projects <sup>4</sup> .....	11,060	9,098	612,808	1,147,578	.534	3,127,994
Other than R. E. A. projects.....	629	488	75,372	66,091	1.140	121,660
Heavy engineering.....	6,704	6,704	438,380	804,510	.545	722,832
Public roads <sup>5</sup> .....	(6)	79,612	7,794,536	11,515,941	.677	12,316,053
Reclamation.....	29,627	28,348	4,346,075	4,700,456	.925	8,587,711
River, harbor, and flood control:						
Dredging, dikes, revetments, etc.....	32,249	28,378	3,324,467	4,677,694	.711	4,497,563
Locks and dams.....	7,603	6,996	983,239	1,211,173	.812	1,803,181
Ship construction:						
Naval vessels.....	161,409	154,589	27,578,594	30,347,999	.909	61,212,977
Other than naval vessels.....	40,654	37,602	5,589,205	6,412,822	.872	24,633,132
Streets and roads.....	2,780	2,485	229,608	318,618	.721	453,749
Water and sewerage.....	2,255	2,166	233,847	302,749	.772	449,090
Miscellaneous.....	16,481	16,065	618,761	2,087,195	.296	3,830,353

<sup>1</sup> Data are for the month ending on the 15th.

<sup>2</sup> Maximum number employed during any 1 week of the month by each contractor and Government agency doing force-account work.

<sup>3</sup> Includes weekly average for public-road projects.

<sup>4</sup> Financed by Rural Electrification Administration loans.

<sup>5</sup> Under the jurisdiction of the Public Roads Administration.

<sup>6</sup> 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 June 1941, compared with May 1941, and June 1940, is presented in table 21.

**TABLE 21.—Employment and Pay Rolls on Construction and Maintenance of State Roads, June 1941, May 1941, and June 1940<sup>1</sup>**

[Subject to revision]

Item	Employment <sup>2</sup>			Pay rolls		
	June 1941	May 1941	June 1940	June 1941	May 1941	June 1940
Total..	196,655	174,159	189,730	\$14,596,069	\$14,671,221	\$13,450,050
New roads....	61,759	55,214	55,679	4,231,809	3,837,660	3,555,180
Maintenance..	134,896	118,945	134,051	10,364,260	10,833,561	9,894,870

<sup>1</sup> Projects financed wholly from State or local funds.

<sup>2</sup> Average number working during month.

PURCHASES FROM PUBLIC FUNDS<sup>1</sup>

Table 22 shows the value of material orders placed on construction projects financed by Federal funds in the second quarter of 1941. Material orders placed on construction projects operated by the Work Projects Administration, not included in this table because data were not available, will be included in the complete report for the first quarter to be published in the September pamphlet.

In the second quarter of 1941 on construction projects financed from regular Federal appropriations, orders were placed for materials valued at approximately \$599,048,000. Of this amount \$158,655,000 was expended for iron and steel products, \$281,687,000 for machinery, \$22,208,000 for cement and concrete products, and \$36,031,000 for forest products. Of the \$17,134,000 of material orders placed on the United States Housing Authority program, \$5,919,000 was for iron and steel products, \$1,058,000 for machinery, \$2,200,000 for cement and concrete products, and \$2,189,000 for forest products.

Previous sections of this report have shown the number of workers employed at the site of construction projects financed from Federal funds. The direct employment, however, is only a partial picture, as the manufacture of the materials used on the projects also creates a large amount of employment.

Estimates have been made of the man-months of labor created in fabricating the materials used on the various programs. (See table 3.) The estimates include only the labor required in the fabrication of materials in the form in which they are to be used. No estimate is

<sup>1</sup> Unless otherwise specified, data presented in this section are as of the 15th of the month.

made of the labor required in producing the raw materials or in transporting them to the point of manufacture. In manufacturing structural steel, for example, the only labor included is that occurring in the fabricating mills; no estimate is made for the labor created in mining, smelting, and transporting the ore; nor for the labor in blast furnaces, the open-hearth furnaces and the blooming mills.

TABLE 22.—*Value of Material Orders Placed on Construction Projects Financed by Federal Funds for the Second Quarter of 1941*

[Subject to revision]

Type of material	Projects				
	Public Works Administration <sup>1</sup>	U. S. H. A. low-rent housing	Reconstruction Finance Corporation <sup>2</sup>	Regular Federal	Federal agency projects financed from W. P. A. funds <sup>3</sup>
All materials.....	\$5,809,167	\$17,133,737	\$9,220,102	\$599,047,698	\$1,967,551
Textiles and their products..	9,435	131,659	585	942,635	172,859
Awnings, tents, canvas, etc....		70	43	335,591	169,131
Carpets and rugs.....				220	306
Cordage and twine.....	9	94	101	88,739	70
Cotton products.....				9,622	
Felt products.....	36	13		4,499	
Jute products.....		283		5,159	66
Linoleum and asphalted felt-base floor covering.....					8
Sacks and bags, other than paper.....	5,470	130,125	379	151,057	2,958
Upholstering, filling, batting, padding, and wadding.....				3,658	
Waste and related products.....	73	420		4	
Textiles and their products, n. e. c.....	3,847	654	62	3,898	113
Forest products.....	223,576	2,189,254	415,565	36,031,369	183,468
Cork products.....	3,632	3,443	48,065	140,215	55
Furniture and related products.....	45,597	49,218	73,678	1,754,394	2,082
Lumber and timber products, n. e. c.....	157,482	1,039,116	249,850	24,110,152	151,518
Planing-mill products.....	16,865	1,064,684	43,972	9,926,061	28,580
Window and door screens and weatherstrip.....		29,990		20,145	
Forest products, n. e. c.....		2,803		80,402	1,233
Chemicals and allied products..	117,158	263,706	30,079	3,269,660	49,440
Ammunition and related products.....					
Compressed and liquefied gases.....	4,877	530	1,190	177,520	1,572
Explosives.....	66,839	6,634	1,528	816,523	3,953
Paints, pigments, and varnishes.....	36,206	249,285	20,869	1,834,634	38,337
Chemicals and allied products, n. e. c.....	9,236	7,257	6,492	440,983	5,578
Stone, clay, and glass products..	1,514,498	4,605,634	1,443,240	49,512,180	273,698
Asbestos products, n. e. c.....	2,537	74,302	367	357,432	
Brick, hollow tile, and other clay products, n. e. c.....	40,462	1,133,501	121,178	2,918,351	9,609
Cement.....	536,068	442,883	224,105	14,771,579	97,654
Concrete products.....	101,557	1,756,730	817,479	7,436,730	26,664
Crushed stone.....	22,546		11,331	5,776,811	65,366
Glass.....	14,202	49,926	41,969	935,203	969
Lime.....		95,584	2,044	54,705	169
Marble, granite, slate, and other stone, cut and shaped.....	92,726	72,921	3,908	912,986	483
Minerals and earths, ground and otherwise treated.....	571	7,175	4,012	2,916	2,786
Sand and gravel.....	580,049	297,397	89,871	9,849,118	56,309
Steam and other packing, pipe and boiler covering, and gaskets.....	17,307	99,496	1,858	470,026	54
Tiling, floor and wall, and terrazzo.....	34,423	88,658	72,228	723,465	2,461
Wall plaster, wallboard, and building insulation.....	62,133	409,407	45,847	5,138,852	4,584
Stone, clay, and glass products, n. e. c.....	9,917	77,654	7,043	164,006	6,590

See footnotes at end of table.

TABLE 22.—*Value of Material Orders Placed on Construction Projects Financed by Federal Funds for the Second Quarter of 1941—Continued*

Type of material	Projects				
	Public Works Administration	U. S. H. A. low-rent housing	Reconstruction Finance Corporation	Regular Federal	Federal agency projects financed from W. P. A. funds
Iron and steel and their products, not including machinery....	\$1,412,398	\$5,919,323	\$4,113,905	\$158,655,102	\$503,460
Bolts, nuts, washers, and rivets.....	29,525	3,524	40,223	2,742,222	5,785
Doors, shutters, window sash and frames, molding and trim, metal.....	128,259	652,609	469,983	7,494,433	2,422
Firearms.....	32,241	1,273	20,081	5,320	10,181
Forgings, iron and steel.....	32,068	394,839	55,759	2,698,115	31,605
Hardware, miscellaneous.....	84,029	545,030	527,299	12,812,871	32,628
Heating and ventilating equipment, except pipe.....	8,817	2,555	9,257	855,753	29,733
Nails and spikes.....	40,433	548,696	61,300	7,667,588	31,110
Pipe and fittings, cast-iron.....	43,566	380,659	105,694	15,121,460	19,148
Pipe and fittings, wrought iron and steel.....	41,565	1,085,371	15,460	7,260,000	30,939
Plumbing fixtures and supplies, except pipe.....	---	---	---	20,555	---
Rail fastenings, except spikes.....	---	---	8,411	239,705	---
Rails, steel.....	---	---	---	14	---
Springs, steel.....	310,406	1,315,580	500,048	8,428,413	37,400
Steel, reinforcing.....	415,654	310,499	1,922,990	50,353,785	230,687
Steel, structural.....	---	148,119	---	36,322	---
Stoves and ranges, other than electric.....	---	---	---	---	---
Switches, railway.....	27,708	7,027	15,825	3,073,755	12,202
Tools, other than machine tools.....	20,993	54,303	19,952	5,461,930	12,035
Wire and wireworks products.....	197,134	469,239	341,623	24,893,535	17,585
Iron and steel and their products, n. e. c.....	---	---	---	---	---
Nonferrous metals and their products..	95,358	593,281	74,592	10,872,539	11,113
Aluminum products..	---	---	---	424,534	---
Copper products..	22,956	3,242	57,442	3,283,544	4,814
Lead products.....	684	2,218	---	135,576	220
Sheet-metal products.....	22,334	212,421	17,102	5,498,830	5,786
Zinc products.....	---	6	---	89	---
Nonferrous metals and their products, n. e. c.....	49,384	375,394	48	1,529,966	293
Machinery, not including transportation equipment.....	1,615,065	1,058,352	2,452,091	281,687,293	96,762
Electrical machinery, apparatus, and supplies.....	516,834	52,398	479,644	88,029,304	21,649
Electrical wiring and fixtures.....	508,441	675,258	392,140	30,579,596	11,399
Elevators and elevator equipment.....	336,534	57,720	72,518	12,318,631	---
Engines, turbines, tractors, and water wheels.....	43,879	---	102	77,712,014	20,906
Machine tools.....	2,491	3	840,186	10,839,040	1,422
Meters (gas, water, etc.) and gas generators.....	749	---	16	5,422	---
Pumps and pumping equipment.....	29,815	69,902	13,172	13,475,390	4,936
Radio apparatus and supplies.....	74,447	---	---	463,998	---
Refrigerators and refrigerating and ice-making apparatus.....	8,064	58,657	16,930	562,761	---
Machinery, n. e. c.....	93,811	144,414	637,383	47,701,137	36,450
Transportation equipment—air, land, and water.....	9,753	538	---	4,069,721	106,111
Aircraft.....	---	---	---	161,975	---
Airplane parts.....	---	---	---	6,208	---
Boats, steel and wooden.....	921	---	---	120,697	---
Carriages and wagons.....	---	---	---	988	---
Locomotives, other than steam.....	---	---	---	73,051	---
Locomotives, steam.....	---	---	---	183,608	---
Motorcycles and parts.....	---	---	---	---	---
Motor vehicles, passenger.....	2,777	---	---	768,596	5,758
Motor vehicles, trucks.....	6,041	538	---	777,416	99,163
Railway cars, freight.....	---	---	---	---	---
Railway cars, mail and express.....	---	---	---	---	---
Railway cars, passenger.....	---	---	---	---	---
Transportation equipment, n. e. c.....	14	---	---	1,977,182	1,190

See footnotes at end of table.

TABLE 22.—*Value of Material Orders Placed on Construction Projects Financed by Federal Funds for the Second Quarter of 1941—Continued*

Type of material	Projects				
	Public Works Administration	U. S. H. A. low-rent housing	Reconstruction Finance Corporation	Regular Federal	Federal agency projects financed from W. P. A. funds
Miscellaneous.....	\$811, 926	\$2, 371, 990	\$600, 045	\$54, 007, 199	\$570, 640
Belting, miscellaneous.....				3, 974	
Coal and coke.....	7, 808	18, 330	2, 889	497, 991	943
Creosote.....				616	
Instruments, professional and scientific.....	1, 540			658, 342	1, 633
Mattresses and bed springs.....				1, 703	
Models and patterns.....				39, 094	
Paper products.....	2, 554	7, 817	78	117, 769	518
Paving materials— <i>asphalt, tar, crushed slag, and mixtures</i> .....	12, 731	35, 357	2, 777	5, 661, 542	49, 348
Petroleum products.....	173, 183	100, 044	33, 783	5, 641, 873	39, 840
Photographic apparatus and supplies.....	647	272	32	76, 851	4, 736
Roofing— <i>built-up and roll, asphalt shingles, and roof coatings, except paint</i> .....	37, 332	184, 431	54, 495	1, 959, 311	9, 590
Rubber products.....	14, 417	5, 185	4, 015	629, 712	5, 914
Theatrical scenery and stage equipment.....	2, 262			203	
Window shades and fixtures.....		61, 765		34, 475	78
Other materials.....	559, 472	1, 958, 789	591, 976	38, 683, 743	458, 040

<sup>1</sup> Includes material orders placed on Public Works Administration projects financed by the Emergency Relief Appropriation Acts of 1935, 1936, 1937, and P. W. A. A. 1938 funds. Data on low-rent housing projects financed from N. I. R. A. and E. R. A. A. 1935 funds are also included.

<sup>2</sup> Includes projects financed by RFC Mortgage Co.

<sup>3</sup> Includes projects financed by transfer of W. P. A. funds to other Federal agencies under sec. 3, E. R. A. A. 1938, and sec. 11-A, E. R. A. A. 1939.

The information concerning man-months of labor created in fabricating materials is obtained by sending a questionnaire to each firm receiving an award for materials to be financed from Federal or State funds. The manufacturer is requested to make an estimate of the number of man-hours created in his plant in manufacturing the materials specified in the contract. For materials purchased directly by contractors the Bureau estimates the man-months of labor created. This estimate is based upon the findings of the Census of Manufactures, 1937.

The value of material orders placed on all construction projects financed by Federal funds during the first quarter of 1941, is presented in table 23, by type of project.

TABLE 23.—*Value of Material Orders Placed on Construction Projects Financed by Federal Funds for the First Quarter of 1941*

[Subject to revision]

Type of material	Total	Projects					
		Public Works Administration <sup>1</sup>	U. S. H. A. low-rent housing	Reconstruction Finance Corporation <sup>2</sup>	Regular Federal	Federal agency projects financed from W. P. A. funds <sup>3</sup>	Operated by W. P. A. <sup>4</sup>
All materials.....	\$685,022,054	\$6,662,758	\$19,842,884	\$6,134,407	\$576,698,550	\$2,210,234	\$73,473,221
Textiles and their products.....	7,334,981	38,061	81,051	329	969,834	1,561	6,244,145
Cotton products.....	4,311,537				349,617	90	3,961,830
Textiles and their products, n. e. c.....	3,023,444	38,061	81,051	329	620,217	1,471	2,282,315
Forest products.....	79,112,716	312,022	2,270,983	181,500	67,991,782	351,571	8,004,858
Furniture and related products.....	5,810,179	112,540	98,743	4,651	5,286,186	7,334	300,725
Lumber and timber products, n. e. c.....	57,269,524	167,754	1,144,290	166,897	47,865,466	220,984	7,704,133
Forest products, n. e. c.....	16,033,013	31,728	1,027,950	9,952	14,840,130	123,253	
Chemicals and allied products.....	6,741,140	62,448	228,053	19,751	4,233,665	54,709	2,142,514
Explosives.....	1,471,970	34,666	66	3	754,700	2,672	679,863
Paints, pigments, and varnishes.....	4,622,698	13,635	221,466	18,888	3,254,550	45,591	1,068,568
Chemicals and allied products, n. e. c.....	646,472	14,147	6,521	860	224,415	6,446	394,083
Stone, clay, and glass products.....	79,648,735	1,530,399	4,843,985	822,911	50,024,261	349,452	22,077,727
Brick, hollow tile, and other clay products.....	8,528,136	114,474	1,358,983	419,748	3,686,109	12,247	2,936,575
Cement.....	21,229,003	505,205	495,175	116,709	14,875,335	150,484	5,086,095
Concrete products.....	12,862,671	99,663	1,547,011	195,847	6,743,419	47,568	4,219,163
Crushed stone.....	9,145,264	29,043		11,323	5,719,068	67,995	3,317,835
Sand and gravel.....	13,718,981	387,693	371,897	9,537	8,294,654	43,471	4,611,829
Wall plaster, wallboard, and building insulation.....	7,641,674	33,821	528,521	16,008	6,597,137	8,723	457,464
Stone, clay, and glass products, n. e. c.....	6,533,006	360,600	542,398	53,739	4,108,539	18,964	1,448,766
Iron and steel and their products, not including machinery.....	183,172,838	1,633,985	6,816,378	3,039,919	155,457,642	559,046	15,665,868
Hardware, miscellaneous.....	4,975,581	52,724	353,715	17,007	3,256,254	47,151	1,248,730
Pipe and fittings, cast iron.....	12,930,535	52,006	533,906	1,773	8,437,611	49,371	3,905,268
Plumbing, heating, and ventilating equipment, except pipe.....	33,676,695	218,128	2,067,869	97,556	27,483,410	125,377	3,084,355
Structural and reinforcing steel.....	44,032,536	736,225	1,545,583	2,479,285	36,393,977	224,177	2,703,289
Tools other than machine tools.....	4,521,207	29,404	5,339	17,787	4,007,685	13,309	447,683
Iron and steel and their products, n. e. c.....	82,936,284	544,898	1,709,966	426,511	75,878,705	99,661	4,276,543

See footnotes at end of table.

TABLE 23.—*Value of Material Orders Placed on Construction Projects Financed by Federal Funds for the First Quarter of 1941—Continued*

[Subject to revision]

Type of material	Total	Projects					
		Public Works Administration	U. S. H. A. low-rent housing	Reconstruction Finance Corporation	Regular Federal	Federal agency projects financed from W. P. A. funds	Operated by W. P. A.
Nonferrous metals and their products..	\$7,047,190	\$75,816	\$689,022	\$43,942	\$5,876,954	\$24,630	\$336,826
Machinery, not including transportation equipment..	253,140,189	2,158,412	2,541,248	1,688,845	243,423,627	260,624	3,067,433
Electrical machinery, apparatus, and supplies..	80,641,826	1,721,918	1,215,485	351,502	75,618,250	164,540	1,570,131
Machinery, n. e. c.....	172,498,363	436,494	1,325,763	1,337,343	167,805,377	96,084	1,497,302
Transportation equipment—air, land, and water..	3,438,879	25,455	1,578	2,001	2,622,181	37,576	750,088
Miscellaneous.....	65,385,386	826,160	2,370,586	335,209	46,098,604	571,065	15,183,762
Coal and coke.....	1,168,949	25,790	42,829	6,269	636,485	2,181	455,395
Paving materials—asphalt, tar, crushed slag, and mixtures..	10,699,561	17,567	4,764	11,454	7,114,450	5,199	3,546,127
Petroleum products.....	9,664,884	166,745	119,341	16,563	6,958,404	56,436	2,347,395
Roofing—built-up and roll, asphalt shingles, and roof coatings, except paint.....	3,366,955	7,899	310,130	45,110	2,656,219	65,093	282,504
Rubber products.....	874,503	5,210	124	5,124	683,875	2,878	177,292
Other materials.....	39,610,534	602,949	1,893,398	250,689	28,049,171	439,278	8,375,049

<sup>1</sup> Includes material orders placed on Public Works Administration projects financed by the Emergency Relief Appropriation Acts of 1935, 1936, and 1937, and P. W. A. A. 1938 funds. Data on low-rent housing projects financed from N. I. R. A. and E. R. A. A. 1935 funds are also included.

<sup>2</sup> Includes projects financed by RFC Mortgage Co.

<sup>3</sup> Includes projects financed by transfer of W. P. A. funds to other Federal agencies under sec. 3, E. R. A. A. 1938, and sec. 11-A, E. R. A. A. 1939.

<sup>4</sup> Does not include National Youth Administration projects.

The needs of the Work Projects Administration for motor vehicles, construction and other equipment, and miscellaneous services for use on work relief projects are supplied in part through the rental of equipment and the purchase of utility and miscellaneous services. These rentals and services on projects operated by the Work Projects Administration for the first quarter of 1941, the fourth quarter of 1940, and the first quarter of 1940 are shown in table 24, by type of rental and service.

TABLE 24.—*Rentals and Services on Projects Operated by Work Projects Administration*

[Subject to revision]

Type of rental and service	First quarter 1941	Fourth quarter 1940	First quarter 1940
All rentals and services..	\$63, 093, 825	\$66, 880, 484	\$50, 644, 414
Motor vehicles.....	21, 367, 952	24, 272, 938	20, 442, 715
Teams and wagons.....	349, 877	261, 319	358, 256
Construction equipment..	15, 782, 144	18, 611, 862	15, 066, 908
Other equipment.....	3, 854, 546	2, 938, 207	2, 081, 725
Other rentals and services..	21, 739, 306	20, 796, 158	12, 694, 810

In connection with the administration of the Public Contracts Act the Bureau of Labor Statistics has been collecting data on supply contracts awarded by Federal agencies of the United States for the manufacture or furnishing of materials, supplies, articles, and equipment in any amount exceeding \$10,000. The first public contracts were awarded under the act in September 1936.

Table 25 shows the value of public contracts awarded under the act for supplies during the second quarter of 1941, the first quarter of 1941, and the second quarter of 1940.

TABLE 25.—*Value of Supply Contracts Awarded by the Federal Government, Which Contain Agreements to Comply With the Public Contracts Act, by Type of Material*

[Subject to revision]

Type of materials	Second quarter 1941	First quarter 1941 <sup>1</sup>	Second quarter 1940 <sup>1</sup>
All materials..	\$1, 975, 384, 722	\$674, 489, 441	\$300, 443, 228
Food and kindred products..	15, 579, 685	7, 616, 821	3, 508, 429
Canning and preserving: fruits and vegetables..	2, 926, 966	822, 029	522, 403
Canning and preserving: sea foods..	145, 864	154, 570	11, 270
Cereal preparations..	10, 734	25, 384	9, 201
Coffee and tea.....	2, 854, 690	1, 075, 164	538, 380
Condensed and evaporated milk.....	1, 141, 996	793, 971	286, 515
Feeds, prepared, for animals and fowl..	363, 189	690, 598	220, 364
Flour and other grain-mill products....	1, 118, 533	518, 956	172, 125
Meat-packing products.....	1, 893, 540	623, 096	345, 910
Shortening and vegetable cooking oil..	32, 975	0	0
Sugar.....	1, 346, 751	601, 171	446, 399
Miscellaneous food products..	3, 744, 447	2, 311, 882	955, 862

<sup>1</sup> Revised.



**TABLE 25.—Value of Supply Contracts Awarded by the Federal Government, Which Contain Agreements to Comply With the Public Contracts Act, by Type of Material—Continued**

Type of materials	Second quarter 1941	First quarter 1941	Second quarter 1940
<b>Textiles and their products..</b>	<b>\$136,329,609</b>	<b>\$131,191,597</b>	<b>\$47,680,221</b>
Awnings, tents, sails, and canvas covers.....	6,318,495	4,105,963	528,686
Clothing (overcoats, suits, trousers, etc.).....	7,623,130	6,712,767	1,700,597
Clothing, manufacture only <sup>1</sup> .....	21,838,562	22,635,138	46,488
Cordage and twine, including thread.....	1,569,565	805,080	366,702
Cotton goods (drills, prints, sheeting, etc.).....	16,538,358	36,866,294	5,820,958
Furnishing goods, men's, not elsewhere classified.....	4,161,165	3,859,612	1,998,692
Housefurnishing goods (pillowcases, sheets, etc.).....	6,327,753	17,892,079	5,842,398
Knit goods (hosiery, underwear, etc.).....	5,740,686	21,226,798	459,581
Linoleum.....	0	190,968	94,492
Woolen goods (flannels, suiting, etc.).....	54,308,034	11,977,101	28,383,865
Work clothing.....	1,779,642	813,539	529,433
Miscellaneous textile products.....	10,124,219	4,106,258	1,908,329
<b>Forest products.....</b>	<b>6,003,421</b>	<b>6,941,381</b>	<b>3,340,179</b>
Cork and cork products.....	94,125	264,216	24,584
Furniture.....	889,551	685,154	603,288
Lumber and timber products, not elsewhere classified.....	2,828,305	3,827,478	951,067
Planing-mill products.....	1,172,711	1,205,806	1,576,185
Treated lumber and timber.....	486,118	197,228	116,429
Miscellaneous forest products.....	532,611	761,499	68,626
<b>Chemicals and allied products.....</b>	<b>33,407,996</b>	<b>95,822,681</b>	<b>8,299,736</b>
Ammunition and related products.....	20,619,028	85,857,082	1,818,212
Compressed and liquefied gases.....	1,342,157	13,530	141,924
Drugs and medicines.....	2,750,356	2,501,830	163,901
Explosives.....	1,578,368	2,799,446	1,906,946
Linseed oil.....	60,698	210,261	37,106
Paints and varnishes.....	1,581,019	1,089,477	442,526
Soap and soap chips.....	427,904	733,917	116,499
Miscellaneous chemicals.....	5,048,466	2,617,138	3,672,622
<b>Products of asphalt, coal and petroleum.....</b>	<b>51,423,366</b>	<b>4,120,141</b>	<b>29,396,220</b>
Asphalt, oil, tar, and mixtures.....	5,123,200	541,679	1,140,240
Coal and coke.....	2,943,151	2,069,075	6,861,728
Fuel oil.....	17,621,097	441,157	9,928,645
Gasoline.....	7,820,892	536,374	8,906,529
Lubricating oils and greases.....	334,468	233,842	2,086,832
Miscellaneous coal and petroleum products.....	17,580,558	298,014	382,246
<b>Leather and its manufactures.....</b>	<b>19,080,815</b>	<b>14,597,095</b>	<b>1,827,423</b>
Boots and shoes.....	13,853,119	10,741,134	1,507,400
Boot and shoe cut stock.....	482,180	291,916	21,760
Gloves.....	3,600,097	341,425	105,654
Miscellaneous leather goods.....	1,145,419	3,222,620	192,609
<b>Stone, clay, and glass products.....</b>	<b>18,005,856</b>	<b>9,780,677</b>	<b>7,345,374</b>
Brick.....	235,695	40,405	205,761
Cement.....	5,410,179	4,115,000	3,348,643
Concrete pipe.....	1,028,838	544,292	123,663
Concrete, ready mixed.....	882,176	437,351	691,669
Crushed stone.....	1,186,074	434,712	577,752
Glass.....	1,812,588	641,834	305,911
Granite and marble.....	15,807	113,916	407,567
Riprap stone.....	28,200	0	14,400
Sand and gravel.....	1,438,033	1,294,611	252,972
Slag.....	425,235	61,602	345,988
Soil, black earth.....	34,983	117,940	108,901
Steam and other packing, pipe and boiler covering.....	450,838	35,380	307,125
Terra cotta.....	0	0	0
Tile, clay, including drain.....	11,062	38,942	42,480
Vitrified clay and terra cotta pipe.....	118,135	41,911	98,337
Miscellaneous stone, clay, and glass products.....	4,919,013	1,863,281	514,205
<b>Iron and steel and their products, not including machinery.....</b>	<b>78,355,075</b>	<b>70,506,538</b>	<b>24,374,304</b>
Bolts, nuts, rivets, washers, etc.....	860,780	1,627,805	269,378
Cast-iron pipe and fittings.....	611,701	369,266	228,882
Castings.....	707,764	719,618	0
Fencing materials.....	120,509	64,384	15,125
Firearms and artillery.....	26,194,258	17,432,749	3,354,136
Forgings, iron and steel.....	3,697,824	10,353,616	7,443,105
Hardware, miscellaneous.....	418,004	795,898	24,055
Heating and cooking apparatus, except electric.....	1,662,559	2,209,370	740,554

<sup>1</sup> Labor only. Materials furnished by United States Government.

TABLE 25.—*Value of Supply Contracts Awarded by the Federal Government, Which Contain Agreements to Comply With the Public Contracts Act, by Type of Material—Continued*

Type of materials	Second quarter 1941	First quarter 1941	Second quarter 1940
<b>Iron and steel and their products—Continued.</b>			
Metal doors, window sash and frames, and trim	\$202,776	\$1,834,298	\$85,564
Metal furniture	1,285,327	3,142,512	1,645,609
Metal shingles and roofing	386,529	0	57,813
Pipe and fittings, not elsewhere classified	3,840,744	2,097,961	66,152
Plumbing fixtures and supplies	169,701	260,339	83,233
Rails and fastenings	457,150	96,784	49,363
Reinforcing steel	527,113	653,259	732,129
Steel pipe and fittings	1,139,416	2,347,524	315,605
Steel sheets, plates, shapes, and strips	6,340,129	766,187	845,435
Structural steel, fabricated, and sheet-steel piling	8,085,401	6,548,334	834,912
Tools, other than machine tools	5,122,442	2,247,417	190,677
Wire products	2,540,249	1,857,737	613,639
Miscellaneous iron and steel products	13,984,699	15,081,480	6,778,938
<b>Nonferrous metals and their alloys</b>	<b>28,806,834</b>	<b>15,564,912</b>	<b>7,926,198</b>
Aluminum manufactures	8,255,162	1,624,215	1,775,056
Brass products	2,785,993	2,731,698	2,513,028
Bronze products	468,475	513,953	88,741
Copper products	959,321	1,361,266	339,692
Fixtures, gas and electric	6,043,068	458,968	98,972
Lead products	773,640	101,295	81,983
Magnesium	22,875	286,014	40,971
Nickel	426,511	236,732	192,314
Plated ware	1,177,973	501,777	25,479
Sheet-metal work	1,179,042	1,117,023	22,314
Tin	2,140,621	1,446,929	368,005
Zinc	792,576	124,717	10,725
Miscellaneous nonferrous metals and alloys	3,781,577	5,060,325	2,368,318
<b>Machinery, not including electrical and transportation equipment</b>	<b>66,055,822</b>	<b>45,776,476</b>	<b>22,677,647</b>
Air-conditioning equipment	281,770	373,904	39,182
Business machines	234,098	181,731	95,471
Cranes	4,984,740	5,220,995	806,682
Elevators and elevator equipment	32,287	140,171	387,590
Engines, turbines, tractors, and parts	7,864,201	3,655,618	9,653,219
Filter and purification equipment	423,630	323,751	90,059
Laundry machinery and equipment	307,658	2,662,526	309,798
Machine tools	25,867,439	15,250,204	4,116,002
Phonographs and accessories	74,501	0	0
Power shovels and draglines	437,116	156,011	249,893
Printing and publishing machinery	195,230	105,046	151,735
Pumps and pumping equipment	6,143,765	5,346,389	2,145,227
Refrigerators and refrigerating and ice-making machinery	2,735,806	2,137,221	112,037
Road machinery	1,227,030	515,173	196,429
Windlasses, hawsers, winches, and capstans	1,038,336	1,369,971	359,539
Miscellaneous machinery and parts	14,208,215	8,337,675	3,964,784
<b>Electrical machinery, apparatus, and supplies</b>	<b>69,079,589</b>	<b>35,778,784</b>	<b>18,060,041</b>
Batteries	320,604	367,775	897,075
Circuit breakers and switches	753,550	811,580	273,204
Communication equipment	8,490,425	3,976,026	3,899,678
Electric cable, wire, and other conductors	36,222,293	14,228,440	4,227,949
Generators and spare parts	7,307,248	2,538,650	3,402,383
Heaters and ranges	672,908	552,279	84,911
Lamps, incandescent, and X-ray tubes	18,000	0	0
Motors	1,311,874	388,538	12,800
Switchboards, relay and control equipment	2,494,533	1,007,050	1,630,180
Transformers	889,484	592,793	1,873,149
Welding equipment	881,010	2,745,464	220,542
Miscellaneous electrical machinery, apparatus, and supplies	9,717,660	8,570,189	1,538,170
<b>Transportation equipment</b>	<b>1,407,790,211</b>	<b>190,228,261</b>	<b>102,111,004</b>
Aircraft	1,132,863,426	13,708,228	402,708
Aircraft parts and equipment	28,042,126	109,581,536	2,740,036
Boats and boat equipment	106,986,420	11,337,390	4,228,317
Motor vehicles, passenger	453,581	1,107,333	6,096,001
Motor vehicles, truck	118,835,434	28,767,054	6,002,901
Motorcycles and parts	3,436,489	1,813,782	205,100
Naval vessels	0	0	71,605,768
Railway cars	652,211	164,856	458,902
Railway locomotives	1,294,317	2,085,273	132,347
Miscellaneous transportation equipment	15,226,207	21,662,809	10,238,924

TABLE 25.—*Value of Supply Contracts Awarded by the Federal Government, Which Contain Agreements to Comply With the Public Contracts Act, by Type of Material—Continued*

Type of materials	Second quarter 1941	First quarter 1941	Second quarter 1940
Miscellaneous.....	\$45,466,443	\$46,564,077	\$23,896,452
Brooms, brushes, bristles, etc.....	955,576	740,879	38,901
Dental goods and equipment.....	619,206	729,295	172,673
Instruments, professional and scientific.....	13,222,241	15,485,292	10,045,861
Office equipment and supplies, not elsewhere classified.....	771,229	581,251	1,409,322
Paper and allied products.....	8,356,953	2,056,634	5,141,376
Photographic apparatus and materials.....	2,826,221	8,747,736	1,598,379
Printing, publishing, and subscriptions.....	509,038	416,692	492,353
Rubber products.....	5,759,092	3,055,776	1,071,451
Surgical and orthopedic supplies and appliances.....	3,397,153	2,440,931	350,715
Tobacco manufactures.....	155,733	34,259	203,133
Other materials.....	6,992,401	9,606,564	2,678,586
Rentals, services, etc.....	1,901,600	2,668,768	693,702

The value of public contracts awarded for supplies by Federal agencies totaled \$1,975,385,000 during the second quarter of 1941. Of the contracts awarded in the second quarter of 1941, \$1,407,790,000 was for transportation equipment; \$136,330,000 for textiles and their products; \$78,355,000 for iron and steel and their products, not including machinery; and \$69,080,000 for electrical machinery, apparatus, and supplies.

