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# EMPLOYMENT AND PAY ROLLS

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# *Employment and Pay Rolls*

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## SUMMARY OF REPORTS FOR MARCH 1941

### *Total Nonagricultural Employment*

TOTAL nonagricultural employment reached 37,222,000 in March, the highest level on record for this month. This figure does not include C. C. C. enrollees, workers on W. P. A. or N. Y. A. projects, nor the armed forces. There were increases of 294,000 since February, 2,370,000 since March of last year, and 1,545,000 since March 1929. This was the fifth consecutive month in which employment had exceeded the levels of corresponding months in all previous years on record.

The largest employment gains over the month were in the manufacturing and trade groups. The gain of 169,000 factory workers was almost double the normal seasonal increase largely because of expansion in defense industries and the gain of 69,000 in retail and wholesale trade employment was also larger than seasonal. In the transportation and public-utility group employment increased by 26,000; in the Federal, State, and local Government service group by 30,000; and in the mining group by 8,000. The construction group showed a decrease of 28,000, due primarily to the completion of several important Federal defense projects. All major groups showed substantial employment gains over March 1940, the increases of 1,225,000 in manufacturing industries and 659,000 in construction accounting for a large part of the over-all increase of 2,370,000.

Emergency employment increased 19,000 over the month as a result of the following changes: An increase of 199,000 in the military service and decreases of 128,000 on projects operated by the Work Projects Administration, 23,000 on the out-of-school work program of the National Youth Administration, and 29,000 in the Civilian Conservation Corps.

### *Industrial and Business Employment*

Of the 157 manufacturing industries surveyed, 133 reported employment gains and 140 reported pay-roll increases, most of the gains being larger than seasonal. Of the 16 nonmanufacturing industries regularly covered 13 reported employment and pay-roll increases.

The gains from February to March of 169,000 (or 1.8 percent) in employment and \$8,350,000 (or 3.5 percent) in weekly pay rolls raised the indexes of factory employment and pay rolls to the highest levels on record. Continued expansion in the war-material industries and in the durable-goods industries affected by defense orders accounted largely for the more pronounced gains over the month and year intervals in the durable-goods group of manufacturing industries than in the nondurable-goods group.

Key defense industries showing substantial employment gains from February to March were shipbuilding (8,600), aircraft (6,200), engines (3,300), machine tools (2,800), machine-tool accessories (2,700), instruments (1,500), screw-machine products (1,000), firearms (900), optical goods (700), ammunition (600), and abrasives (600).

Other manufacturing industries affected by war-material orders and showing large employment gains were: Foundries and machine shops (14,300), electrical machinery (11,300), steel (6,900), automobiles (5,200), brass, bronze, and copper products (3,000), and chemicals (2,400). Among the few industries showing employment declines were agricultural implements (5,200), canning and preserving (3,900), and cottonseed oil, cake, and meal (1,800). Labor trouble accounted chiefly for the reduction in agricultural implements and seasonal factors for the declines in the other two industries. Employment in retail stores increased 1.5 percent, slightly more than the average seasonal gain of 1.3 percent. The employment gains among the various retail lines were general, the largest being in shoe stores, women's apparel stores, department stores, and variety stores. Wholesale trade showed a contraseasonal gain in employment (0.3 percent), due chiefly to slightly larger-than-seasonal increases among firms dealing in food products, furniture and housefurnishings, and machinery, equipment and supplies, and to a contraseasonal rise among dealers in metals and minerals. Employment by farm-supply dealers fell 7.5 percent following a sharp increase in February. Employment in anthracite mines was reduced 0.8 percent and pay rolls 6 percent, in contrast to average March declines in this industry for the last 12 years of 6.5 percent and 14.1 percent. In bituminous-coal mines, contraseasonal employment and pay-roll increases of 0.9 percent and 4.7 percent reflected the stepping-up of production schedules in anticipation of work stoppages on April 1, the expiration date of contracts between operators and miners.

Employment in private building construction increased only 0.2 percent, about one-twentieth the average March increase for the 1932-40 period of 5.2 percent. A comparison with March of last year, however, showed the current employment level to be 34.3 percent higher. General building contractors as a group reduced employment 1.1 percent between February and March, but showed a gain of 49.9

percent over March of last year, while the special trades group reported gains of 1.3 percent over the month and 21.7 percent over the year. Employment increases were shown by 6 of the 15 special trades groups, namely, painting and decorating (22.3 percent), excavating (9.9 percent), brick and stone masonry (8.2 percent), wood flooring (10.0 percent), building insulation (1.5 percent), and elevator installation and repair (0.8 percent). The reports on which these building construction figures are based do not cover construction projects financed by the Work Projects Administration, the Public Works Administration, and the Reconstruction Finance Corporation, or by regular appropriations of the Federal, State, or local Governments.

A preliminary report of the Interstate Commerce Commission for class I steam railroads showed an employment gain of 2.0 percent between February and March, the total number employed in March being 1,050,373. Corresponding pay-roll figures for March were not available when this report was prepared. For February they were \$158,824,012, a decrease of \$10,908,624 since January. The decrease in pay rolls was due to the fact that February had fewer working days than January.

*Hours and earnings.*—The average hours worked per week by manufacturing wage earners were 40.4 in March, an increase of 0.9 percent since February. The corresponding average hourly earnings were 69.7 cents, a gain of 0.6 percent from the preceding month. The average weekly earnings of factory wage earners (both full- and part-time combined) were \$29.11, an increase of 1.7 percent since February. Of the 16 nonmanufacturing industries regularly surveyed 11 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 10 reported increases in average hourly earnings.

General wage-rate increases during the month ending March 15 were reported by 296 of the 33,900 manufacturing establishments which supplied employment information in March. These increases averaged 6.7 percent and affected 109,041 or nearly 2 percent of the 6,826,322 wage earners covered. Among the industries in which substantial numbers of workers received pay raises were electrical machinery (7,477), cotton goods (7,014), glass (6,690), canning (6,483), automobiles (4,560), steel (4,360), chemicals (4,496), foundries and machine shops (4,328), and brass, bronze, and copper products (3,225). The wage-rate changes reported for nonmanufacturing industries were negligible. As the Bureau's survey does not cover all 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 March 1941 are given in table 1 for all manufacturing industries combined, for selected nonmanufacturing industries, for water transportation, and for class I steam railroads. Percentage changes over the month and year intervals are also given.

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

Industry	Employment			Pay roll			Average weekly earnings		
	Index March 1941	Percentage change from—		Index March 1941	Percentage change from—		Average in March 1941	Percentage change from—	
		February 1941	March 1940		February 1941	March 1940		February 1941	March 1940
All manufacturing industries combined <sup>1</sup>	(1923-25 =100) 119.9	+1.8	+14.8	(1925-25 =100) 131.2	+3.4	+31.5	\$29.11	+1.6	+14.4
Class I steam railroads <sup>2</sup>	102.9	+2.0	+6.4	(3)	(3)	(3)	(3)	(3)	(3)
Coal mining:	(1929= 100)			(1929= 100)					
Anthracite <sup>4</sup>	50.2	- .8	- 3.7	42.4	- 6.0	+10.4	27.79	- 5.3	+14.7
Bituminous <sup>4</sup>	91.4	+ .9	+1.9	95.0	+4.7	+21.4	27.89	+3.7	+19.2
Metalliferous mining*	74.0	+ .8	+11.7	72.7	+1.3	+15.3	30.99	+ .5	+3.2
Quarrying and nonmetallic mining	44.1	+4.2	+7.6	40.2	+5.3	+17.8	22.87	+1.0	+9.5
Crude-petroleum production	60.5	— <sup>(3)</sup>	-4.2	56.8	-1.4	-2.7	37.82	-1.4	+1.5
Public utilities:									
Telephone and telegraph <sup>6</sup>	81.8	+1.2	+7.7	106.8	+2.5	+8.9	32.04	+1.3	+1.1
Electric light and power <sup>6</sup>	90.4	+ .4	+1.2	106.8	+1.3	+4.4	35.92	+1.0	+3.1
Street railways and busses <sup>6,8</sup>	68.3	+ .6	+ .1	72.8	+2.5	+4.7	34.65	+1.9	+4.6
Trade:									
Wholesale <sup>9</sup>	91.7	+ .3	+1.3	82.2	+1.0	+5.7	31.18	+ .7	+4.3
Retail <sup>9</sup>	92.1	+1.5	+1.1	86.3	+2.0	+5.2	21.66	+ .4	+4.1
Hotels (year-round) <sup>4,10</sup>	94.3	+ .4	+2.5	86.2	+ .1	+5.4	15.78	- .2	+2.8
Laundries <sup>4</sup>	102.6	+1.5	+6.6	90.8	+1.3	+8.0	18.37	- .2	+1.3
Dyeing and cleaning <sup>4</sup>	104.4	+3.0	+4.9	76.9	+3.5	+5.8	20.22	+ .4	+ .8
Brokerage	(3)	- .4	-11.9	(3)	-1.7	-12.1	37.32	-1.3	- .2
Insurance	(3)	+ .1	+1.5	(3)	+ .3	+2.3	37.34	+ .2	+ .8
Building construction	(3)	+ .2	+34.3	(3)	+ .5	+44.8	32.61	+ .3	+7.8
Water transportation <sup>11</sup>	79.5	+2.7	(3)	(3)	(3)	(3)	(3)	(3)	(3)

<sup>1</sup> Revised indexes—Adjusted to preliminary 1939 Census of Manufactures. See table 9 in December 1940 issue of this pamphlet 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 this pamphlet. See also table 7 of October 1940 pamphlet for revised figures for anthracite mining, February to September 1940, inclusive.

<sup>5</sup> Less than 1/10 of 1 percent.

<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 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.

\* See table 7 of February 1941 pamphlet for revised figures January 1938 to January 1941.

## Public Employment

Progress toward the completion of Army cantonment camps during the month ending March 15 was responsible for a decline of 21,000 in the number of workers employed on defense construction projects financed from appropriations to regular Federal agencies. An employment decrease of 36,000 on defense building construction

projects was partly offset by sizable gains on the construction of naval and other vessels and airports. Employment on nondefense construction remained at about the same level as in February. Approximately 851,000 men were at work on defense and nondefense construction during the month, a decrease of 20,000 from February. Total pay-roll disbursements of \$109,995,000 were \$1,938,000 less than in the preceding month.

Contractors on low-rent projects of the United States Housing Authority curtailed employment by approximately 4,000 in the month ending March 15. Of the 37,000 men employed on these projects, 6,000 were working on defense housing and 31,000 on other housing. Pay-roll disbursements of \$3,485,000 were \$515,000 less than in the preceding month.

Employment on construction projects financed by the Public Works Administration dropped to 11,000 during the month ending March 15, a decrease of 3,000 from February. Wage payments of \$1,360,000 were \$396,000 less than in the preceding month.

A sharp rise in employment was reported on construction projects financed by the Reconstruction Finance Corporation. Approximately 6,000 men were employed on these projects in the month ending March 15, an increase of 2,400 over the preceding month. Of these, 4,000 were working on national-defense projects and 2,000 on other projects. Pay-roll disbursements of \$772,000 were \$359,000 more than in February.

Employment on work-relief projects financed by the Work Projects Administration reflected the greater than seasonal gains in non-agricultural employment by showing a decrease of 128,000 in March. Approximately 456,000 of the 1,709,000 persons employed on work relief projects were engaged in defense work and 1,253,000 were employed on nondefense projects. Because exemption from regulations concerning overtime work was granted on defense projects and because of the longer month, March pay rolls of \$95,910,000 were \$3,465,000 more than in February. Employment on Federal agency projects financed by the Work Projects Administration declined from 65,000 in February to 59,000 in March, a decrease of 6,000. Pay-roll disbursements amounted to \$2,647,000.

The National Youth Administration reported an employment increase of 13,000 on the student-work program and a decrease of 23,000 on the out-of-school work program. Pay-roll disbursements to the 473,000 employees on the student-work program totaled \$3,300,000 and to the 465,000 on the out-of-school work program the amount was \$9,006,000.

Employment in camps of the Civilian Conservation Corps showed a loss of 29,000 from February to March. Of the 282,900 persons on the pay roll, 248,600 were enrollees; 1,500 educational advisers; 150,



nurses; and 32,650 supervisory and technical employees. Pay-roll disbursements of \$12,831,000 were \$900,000 less than in February.

Increased employment was reported in all of the regular services of the Federal Government. The armed forces were increased by 199,000 from February to March and the executive service showed a gain of 29,000. Slight increases were reported in the judicial and legislative services. Of the 1,202,000 employees in the executive service, 167,000 were working in the District of Columbia and 1,035,000 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.

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

[Preliminary figures]

Class	Employment			Pay rolls		
	March 1941	February 1941	Percentage change	March 1941	February 1941	Percentage change
Federal services:						
Executive.....	1,202,348	1,173,663	+2.4	\$184,244,306	\$175,644,562	+4.9
Judicial.....	2,509	2,505	+2	640,485	638,641	+3
Legislative.....	6,033	5,921	+1.9	1,318,229	1,312,368	+4
Military.....	1,343,316	1,144,674	+17.4	77,907,387	69,324,619	+12.4
Construction projects:						
Financed by regular Federal appropriations.....	850,679	870,697	-2.3	109,995,226	111,932,852	-1.7
Defense.....	709,226	730,084	-2.9	95,253,528	97,105,709	-1.9
Other.....	141,453	140,613	+6	14,741,698	14,827,143	-6
U. S. H. A. low-rent housing.....	36,989	41,448	-10.8	3,485,089	3,999,687	-12.9
Defense.....	5,701	6,103	-6.6	524,047	592,354	-11.5
Other.....	31,288	35,345	-11.5	2,961,042	3,407,333	-13.1
Financed by P. W. A. <sup>3</sup> .....	11,391	14,683	-22.4	1,360,442	1,756,205	-22.5
Financed by R. F. C. <sup>4</sup> .....	6,011	3,570	+68.4	772,227	413,458	+86.8
Defense.....	3,968	1,808	+119.5	550,132	202,672	+171.4
Other.....	2,043	1,762	+15.9	222,095	210,786	+5.4
Federal agency projects financed by Work Projects Administration.....	58,950	65,323	-9.8	2,647,479	3,581,772	-26.1
Defense.....	22,229	28,364	-21.6	1,202,492	1,700,239	-29.3
Other.....	36,721	36,959	-6	1,444,987	1,881,533	-23.2
Projects operated by W. P. A. <sup>5</sup> .....	1,708,658	1,836,995	-7.0	95,910,162	92,445,040	+3.9
Defense.....	455,524	463,151	-1.6	(5)	(5)	.....
Other.....	1,253,134	1,373,844	-8.8	(5)	(5)	.....
National Youth Administration:						
Student work program.....	473,417	460,587	+2.8	3,300,411	3,175,708	+3.9
Out-of-school work program.....	465,283	488,398	-4.7	9,005,825	9,289,872	-3.1
Civilian Conservation Corps.....	282,896	312,082	-9.4	12,830,524	13,730,562	-6.6

<sup>1</sup> Includes force-account and supervisory and technical employees shown under other classifications to the extent of 166,561 employees and pay-roll disbursements of \$25,752,260 for March 1941, and 166,029 employees and pay-roll disbursements of \$23,385,412 for February 1941.

<sup>2</sup> Revised.

<sup>3</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 3,039 wage earners and \$334,173 pay roll for March 1941; 2,875 wage earners and \$326,396 pay roll for February 1941, covering Public Works Administration Projects Financed from Emergency Relief Appropriation Acts of 1935, 1936, and 1937 funds. Includes 8,045 wage earners and \$1,001,821 pay roll March 1941; financed from funds provided by the Public Works Administration Appropriation Act of 1938.

<sup>4</sup> Includes 318 employees and pay-roll disbursements of \$27,257 for March 1941; 697 employees and pay-roll disbursements of \$94,289 for February 1941 on projects financed by the RFC Mortgage Co.

<sup>5</sup> Pay-roll data not available.

Employment on State-financed road projects showed a slight seasonal gain in March. Of the 125,600 on the pay roll, 24,100 were engaged in the construction of new roads and 101,500 on maintenance. Pay-

roll disbursements of \$10,181,000 were \$709,000 more than in February.

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.

The value of material orders placed on projects financed from regular Federal appropriations during the first quarter of 1941 amounted to \$576,699,000. Approximately 1,271,000 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 \$19,843,000 worth of materials, for which it is estimated 46,000 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 first quarter of 1941, the fourth quarter of 1940, and the first 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		
	First quarter of 1941	Fourth quarter of 1940	First quarter of 1940	First quarter of 1941	Fourth quarter of 1940	First quarter of 1940
Public Works Administration <sup>1</sup> ..	\$6,662,758	\$13,374,552	\$63,128,873	13,698	27,222	139,373
U. S. H. A. low-rent housing .....	19,842,884	21,276,497	14,901,956	45,722	49,437	34,351
Reconstruction Finance Corpora- tion <sup>2</sup> .....	6,134,407	1,846,261	1,378,821	12,240	3,395	2,848
Regular Federal appropriations ..	576,698,550	401,358,476	112,944,887	1,270,870	832,979	218,586
Federal agency projects financed from W. P. A. funds <sup>3</sup> .....	2,210,234	1,841,371	1,764,666	4,723	3,835	3,540
Projects operated by W. P. A. ....	( <sup>4</sup> )	86,675,556	64,648,816	( <sup>4</sup> )	184,287	142,510
Rentals and services on projects operated by W. P. A. ....	( <sup>4</sup> )	66,880,484	50,644,414	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )

<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 MARCH 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 nonagricultural "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 February and March 1941 and March 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 figure 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	March 1941 (preliminary)	February 1941	Change February to March 1941	March 1940	Change March 1940 to March 1941
Total civil nonagricultural employment <sup>1</sup> .....	37, 222	36, 928	+294	34, 852	+2, 370
Employees in nonagricultural establishments <sup>2</sup> .....	31, 079	30, 785	+294	28, 709	+2, 370
Manufacturing.....	11, 151	10, 982	+169	9, 926	+1, 225
Mining.....	862	854	+8	849	+13
Construction.....	1, 650	1, 678	-28	991	+659
Transportation and public utilities.....	3, 054	3, 028	+26	2, 940	+114
Trade.....	6, 242	6, 173	+69	6, 201	+41
Finance, service and miscellaneous.....	4, 184	4, 164	+20	4, 100	+84
Federal, State, and local Government:					
Civil employees.....	3, 936	3, 906	+30	3, 702	+234
Military and naval forces <sup>3</sup> .....	1, 343	1, 145	+198	457	+886

<sup>1</sup> Revised series—Excludes military and naval forces. Also excludes employees on W. P. A. and N. Y. A. projects as well as enrollees in C. C. C. camps. Includes proprietors, firm members, self-employed persons, casual workers, and domestic servants.

<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> Not included in totals 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]

[In thousands]

States	March 1941 (preliminary)	February 1941	Change February to March 1941		March 1940	Change March 1940 to March 1941	
			Number	Percent-age		Number	Percent-age
<b>New England</b> .....	2,725	2,686	+39	+1.4	2,409	+316	+13.0
Maine.....	187	187	0	+4	178	+9	+5.1
New Hampshire.....	134	133	+1	+3	120	+14	+11.1
Vermont.....	72	71	+1	+4	69	+3	+3.7
Massachusetts.....	1,433	1,412	+21	+1.5	1,270	+163	+12.8
Rhode Island.....	254	250	+4	+1.4	217	+37	+16.8
Connecticut.....	645	633	+12	+1.8	555	+90	+16.1
<b>Middle Atlantic</b> .....	7,960	7,869	+91	+1.1	7,501	+479	+6.4
New York.....	3,955	3,914	+41	+1.0	3,801	+154	+4.1
New Jersey.....	1,224	1,207	+17	+1.4	1,108	+116	+10.4
Pennsylvania.....	2,801	2,768	+33	+1.2	2,592	+209	+8.0
<b>East North Central</b> .....	7,216	7,110	+106	+1.5	6,563	+653	+10.0
Ohio.....	1,888	1,857	+31	+1.7	1,709	+179	+10.5
Indiana.....	839	822	+17	+2.0	739	+100	+13.5
Illinois.....	2,336	2,306	+30	+1.3	2,167	+169	+7.8
Michigan.....	1,496	1,477	+19	+1.3	1,340	+156	+11.7
Wisconsin.....	657	648	+9	+1.4	608	+49	+8.0
<b>West North Central</b> .....	2,360	2,334	+26	+1.2	2,251	+109	+4.9
Minnesota.....	514	508	+6	+1.3	493	+21	+4.4
Iowa.....	399	395	+4	+1.0	383	+16	+4.0
Missouri.....	797	788	+9	+1.1	756	+41	+5.5
North Dakota.....	72	72	0	+1.0	71	+1	+1.4
South Dakota.....	79	79	0	+2	78	+1	+2.2
Nebraska.....	193	191	+2	+1.1	190	+3	+1.9
Kansas.....	306	301	+5	+1.4	280	+26	+9.2
<b>South Atlantic</b> .....	3,849	3,816	+33	+0.9	3,403	+446	+13.1
Delaware.....	71	70	+1	+1.4	66	+5	+7.5
Maryland.....	567	556	+11	+2.0	482	+85	+17.7
District of Columbia.....	374	366	+8	+2.3	325	+49	+15.3
Virginia.....	554	550	+4	+8	477	+77	+16.2
West Virginia.....	383	378	+5	+1.6	362	+21	+5.8
North Carolina.....	637	633	+4	+7	572	+65	+11.4
South Carolina.....	316	315	+1	+4	275	+41	+14.9
Georgia.....	527	519	+8	+1.4	469	+58	+12.3
Florida.....	420	429	-9	-2.2	375	+45	+11.9
<b>East South Central</b> .....	1,422	1,409	+13	+1.0	1,313	+109	+8.3
Kentucky.....	376	375	+1	+3	352	+24	+6.8
Tennessee.....	469	463	+6	+1.4	428	+41	+9.7
Alabama.....	392	387	+5	+1.3	355	+37	+10.5
Mississippi.....	185	184	+1	+6	178	+7	+3.9
<b>West South Central</b> .....	1,978	1,972	+6	+3	1,785	+193	+10.8
Arkansas.....	186	184	+2	+9	175	+11	+6.4
Louisiana.....	407	405	+2	+6	363	+44	+12.3
Oklahoma.....	289	291	-2	-7	282	+7	+2.3
Texas.....	1,096	1,092	+4	+3	965	+131	+13.6
<b>Mountain</b> .....	756	748	+8	+1.3	729	+27	+3.8
Montana.....	107	107	0	+6	105	+2	+1.7
Idaho.....	81	80	+1	+1.9	78	+3	+4.5
Wyoming.....	50	49	+1	+1.4	47	+3	+5.7
Colorado.....	218	214	+4	+1.7	211	+7	+3.4
New Mexico.....	67	67	0	( <sup>1</sup> )	68	-1	-1.5
Arizona.....	93	94	-1	-2	89	+4	+5.3
Utah.....	107	105	+2	+2.4	101	+6	+6.1
Nevada.....	33	32	+1	+2.1	30	+3	+7.5
<b>Pacific</b> .....	2,518	2,494	+24	+1.0	2,298	+230	+10.1
Washington.....	446	442	+4	+1.0	397	+49	+12.5
Oregon.....	241	236	+5	+2.2	222	+19	+8.7
California.....	1,831	1,816	+15	+8	1,669	+162	+9.7

<sup>1</sup> Less than 0.1 percent.

### *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.

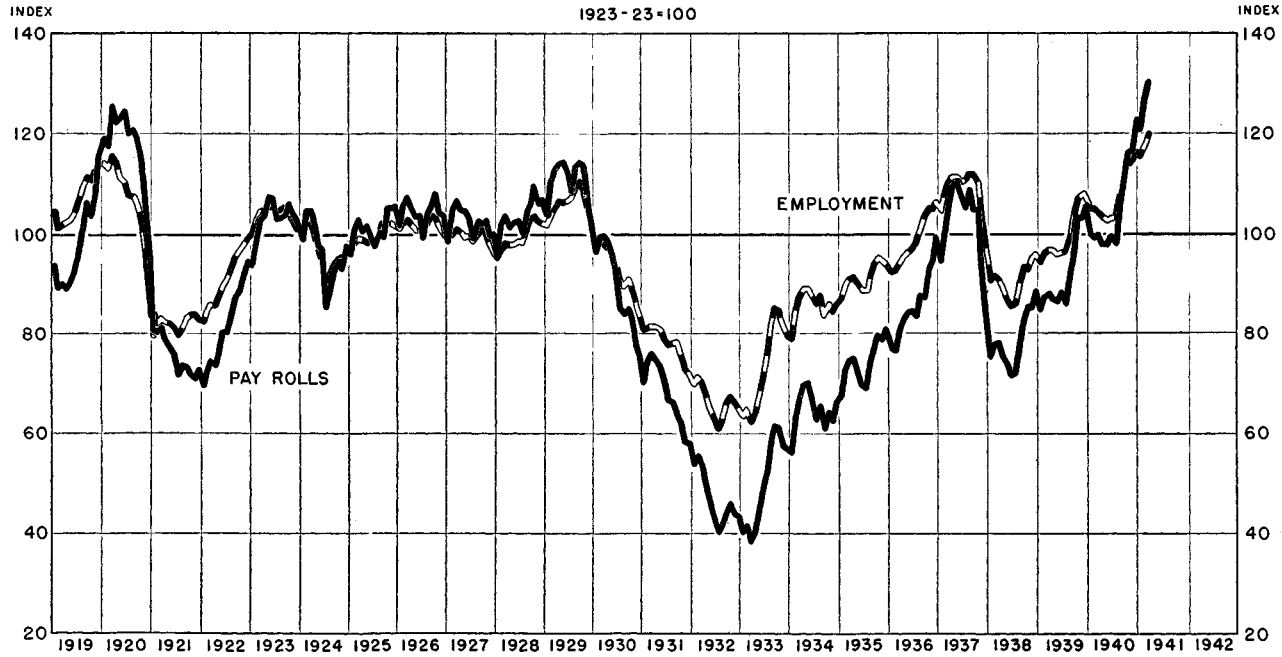
The indexes of factory employment and pay rolls relate to wage earners only. Those shown in tables 6 and 7 are based on the 3-year average 1923–25 as 100. For all manufacturing industries combined, the durable-goods group, the nondurable-goods group, and aluminum manufactures, they have been adjusted to preliminary 1939 Census figures. The indexes for all other groups and industries have been adjusted to the 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 9. 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.

# EMPLOYMENT AND PAY ROLLS ALL MANUFACTURING INDUSTRIES



UNITED STATES DEPARTMENT OF LABOR  
BUREAU OF LABOR STATISTICS

ADJUSTED TO 1939 CENSUS OF MANUFACTURES

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 total 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 smaller number of reporting firms. The size and composition of the reporting sample vary slightly from month to month. Therefore, 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 March 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 March 1941 are shown in table 6. Percentage changes from February 1941 and March 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 January, February, and March 1941, where available, are presented in table 7. The January and February figures, where given, may differ in some instances from those previously published because of revisions necessitated primarily by the inclusion of late reports. Revised figures for aluminum manufactures are given in table 8 for the months from January 1935 to February 1941, inclusive. Indexes of employment and pay rolls are given in table 9 for 55 of the 67 newly added manufacturing industries for the months of January, February, and March 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 10 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 March 1940 to March

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 12 indicates the trend of factory employment and pay rolls from January 1919 to March 1941.

*Use of average hourly earnings in "escalator" clauses.*<sup>1</sup>—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

<sup>1</sup> Reprint from *EMPLOYMENT AND PAY ROLLS*, August 1940.



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, March 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. Except as otherwise noted, the indexes for all other manufacturing groups and industries have been adjusted to 1937 census figures 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 <sup>1</sup>		
	Index March 1941	Percentage change from—		Index March 1941	Percentage change from—		March 1941	Percentage change from—		March 1941	Percentage change from—		March 1941	Percentage change from—	
		Febru- ary 1941	March 1940		Febru- ary 1941	March 1940		Febru- ary 1941	March 1940		Febru- ary 1941	March 1940		Febru- ary 1941	March 1940
<b>All manufacturing <sup>2</sup></b> .....	119.9	+1.8	+14.8	131.2	+3.4	+31.5	\$29.11	+1.6	+14.4	40.4	+0.9	+7.7	<i>Cents</i> 69.7	+0.6	+5.4
<b>Durable goods <sup>2</sup></b> .....	123.7	+2.2	+24.8	144.5	+3.7	+46.4	33.50	+1.5	+17.3	42.0	+1.7	+10.0	76.8	+1.7	+6.0
<b>Nondurable goods <sup>2</sup></b> .....	116.3	+1.4	+6.2	116.3	+3.0	+15.1	23.63	+1.6	+8.5	38.8	+1.1	+5.0	62.4	+1.5	+3.0
<i>Durable goods</i>															
<b>Iron and steel and their products, not including machinery</b> .....	127.2	+1.8	+22.9	141.1	+3.1	+46.2	32.71	+1.3	+19.0	41.0	+1.6	+13.2	79.5	+1.7	+4.7
Blast furnaces, steel works, and rolling mills.....	135.0	+1.3	+21.1	149.0	+2.5	+46.4	34.94	+1.2	+21.0	40.1	+1.4	+15.6	87.3	+1.7	+4.5
Bolts, nuts, washers and rivets.....	150.5	+3.1	+34.9	199.4	+3.4	+70.0	31.87	+1.3	+26.0	44.0	+1.2	+19.1	72.4	+1.5	+5.7
Cast-iron pipe.....	90.5	+1.3	+20.5	99.2	+1.8	+66.0	26.22	+1.5	+37.6	41.5	+1.4	+31.1	62.8	+1.2	+5.4
Cutlery (not including silver and plated cutlery) and edge tools.....	112.5	+2.9	+9.3	117.5	+5.5	+29.6	27.33	+2.5	+18.6	41.7	+1.6	+7.1	66.6	+1.8	+10.5
Forgings, iron and steel.....	97.4	+3.1	+42.3	137.6	+5.7	+77.8	38.23	+2.5	+25.1	45.9	+1.7	+14.9	83.4	+1.8	+9.0
Hardware.....	117.1	+1.9	+18.6	138.1	+2.4	+31.9	28.95	+1.5	+11.2	42.0	+1.2	+9.1	69.0	+1.3	+1.9
Plumbers' supplies.....	100.6	+1.4	+23.0	99.5	+3.8	+40.6	28.57	+2.3	+14.2	39.8	+2.6	+8.4	71.8	+1.2	+5.2
Stamped and enameled ware.....	206.1	+2.4	+28.2	240.0	+3.2	+46.7	27.51	+1.8	+14.4	40.5	+1.5	+8.1	67.6	+1.7	+5.8
Steam and hot-water heating apparatus and steam fittings.....	107.3	+1.3	+26.2	112.1	+2.0	+49.4	31.49	+1.7	+18.3	42.6	+1.2	+11.6	74.2	+1.8	+6.2
Stoves.....	103.9	+4.7	+16.0	103.3	+9.8	+29.8	28.25	+4.8	+11.9	40.3	+3.0	+5.5	69.7	+1.7	+5.5
Structural and ornamental metalwork.....	97.2	+1.3	+38.3	97.1	+3.4	+63.2	32.35	+2.1	+18.0	42.9	+1.4	+15.0	75.6	+1.8	+2.9
Tin cans and other tinware <sup>3</sup> .....	107.3	+3.1	+14.5	123.7	+5.5	+24.2	25.91	+2.4	+8.5	40.0	+1.7	+3.2	64.8	+1.3	+4.8
Tools (not including edge tools, machine tools, files, and saws) <sup>3</sup> .....	130.1	+3.1	+37.6	160.5	+4.7	+73.2	31.36	+1.6	+26.0	46.4	+1.5	+16.2	67.7	+1.0	+8.3
Wirework.....	209.7	+1.9	+29.1	256.4	+1.6	+42.5	29.89	+1.6	+10.5	41.7	+1.5	+5.4	72.1	+1.1	+4.6

See footnotes at end of table.

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

## MANUFACTURING—Continued

Industry	Employment			Pay rolls			Average weekly earnings			Average hours worked per week			Average hourly earnings		
	Index March 1941	Percentage change from—		Index March 1941	Percentage change from—		March 1941	Percentage change from—		March 1941	Percentage change from—		March 1941	Percentage change from—	
		Febru-ary 1941	March 1940		Febru-ary 1941	March 1940		Febru-ary 1941	March 1940		Febru-ary 1941	March 1940		Febru-ary 1941	March 1940
<i>Durable goods—Continued</i>															
Machinery, not including transportation equipment	147.7	+2.9	+30.6	186.2	+5.3	+53.3	\$34.98	+2.3	+17.4	44.9	+1.6	+10.6	<i>Cents</i> 77.8	+7	+5.7
Agricultural implements (including tractors) *	132.6	-8.1	-7.7	162.0	-7.0	-3.5	33.54	+1.2	+4.5	41.0	+1.0	+2.1	82.0	+3	+2.2
Cash registers, adding machines, and calcul- ating machines.....	146.3	+4.3	+14.1	179.4	+7.9	+34.0	38.25	+3.4	+17.4	44.3	+2.2	+11.2	87.3	+1.2	+6.4
Electrical machinery, apparatus, and supplies	141.5	+3.7	+39.1	185.9	+5.8	+63.3	34.46	+2.0	+17.5	44.3	+1.4	+11.5	78.0	+6	+5.2
Engines, turbines, water wheels, and wind- mills.....	247.1	+4.4	+83.7	376.4	+8.9	+114.2	40.14	+4.3	+16.7	46.0	+1.9	+7.2	87.4	+2.4	+8.6
Foundry and machine-shop products.....	123.6	+3.1	+27.2	143.6	+5.5	+50.1	34.39	+2.4	+18.0	44.7	+1.8	+11.2	76.9	+7	+6.0
Machine tools.....	307.1	+3.3	+45.6	462.9	+3.2	+64.4	41.73	-2	+12.9	51.9	+1	+8.3	80.1	-2	+4.2
Radios and phonographs.....	149.1	+3.0	+22.5	157.2	+7.4	+43.5	25.79	+4.2	+17.2	40.2	+3.5	+10.7	64.3	+7	+6.0
Textile machinery and parts.....	96.2	+3.5	+12.1	110.3	+4.8	+34.8	31.77	+1.3	+20.3	45.9	+8	+13.7	69.3	+4	+5.7
Typewriters and parts.....	133.6	+23.2	+15.9	159.2	+30.4	+42.8	29.20	+5.9	+23.2	42.3	+3.3	+15.8	69.1	+2.5	+6.5
Transportation equipment *	161.0	+2.5	+35.9	197.0	+3.8	+56.5	38.80	+7	+15.3	42.3	+4	+11.1	92.1	+2	+3.2
Aircraft.....	5,563.7	+4.1	+133.8	6,678.3	+3.7	+184.9	35.02	-4	+16.2	45.2	-9	+7.1	78.3	-1	+6.6
Automobiles *	131.3	+1.0	+14.8	162.8	+2.4	+32.5	40.64	+1.3	+15.5	41.4	+5	+10.2	98.4	+8	+4.7
Cars, electric- and steam-railroad.....	70.9	+2.9	+16.2	65.6	-2.0	+12.5	29.42	-4.8	-3.2	37.7	-4.9	-5.6	78.0	+	+1.9
Locomotives.....	55.8	+4.9	+96.2	64.0	+5.6	+146.7	35.17	+6	+25.7	43.3	+4	+19.2	81.2	+2	+5.4
Shipbuilding.....	272.0	+6.1	+80.5	365.0	+8.0	+115.6	39.58	+1.7	+19.5	44.2	+2.9	+13.9	89.3	-1.1	+4.9
Nonferrous metals and their products.....	136.9	+1.6	+27.8	155.0	+2.5	+47.9	31.49	+9	+15.6	42.1	+2	+7.8	74.8	+8	+7.8
Aluminum manufactures *	223.1	-9	+23.9	257.0	-9.9	+25.1	28.71	-9.0	+1.0	38.0	-9.2	-4.4	75.6	+2	+5.5
Brass, bronze, and copper products.....	180.5	+2.6	+40.2	236.7	+5.6	+72.5	36.45	+2.9	+22.9	44.4	+1.4	+12.2	82.2	+1.5	+9.7
Clocks and watches and time-recording devices.....	111.9	+2.5	+23.1	129.2	+3.5	+36.3	25.51	+9	+10.7	41.8	+1.5	+8.0	61.2	-2	+3.2
Jewelry.....	104.1	+1.9	+12.7	93.9	+5.0	+24.7	24.14	+3.1	+10.7	40.9	+2.6	+8.4	59.3	+8	+3.6
Lighting equipment.....	111.9	+5	+30.1	105.4	+6	+42.1	28.83	+(6)	+9.3	40.5	+1	+5.6	71.1	-1	+3.3
Silverware and plated ware.....	79.8	+1.8	+13.7	82.4	+7.1	+36.7	29.81	+5.1	+20.2	44.3	+3.5	+14.3	68.0	+1.6	+6.3
Smelting and refining—copper, lead, and zinc	100.6	+9	+16.0	105.7	+1.2	+24.6	29.60	+3	+7.4	39.1	+5	+5	75.8	-2	+6.9
Lumber and allied products.....	72.7	+1.0	+8.8	72.8	+2.2	+19.3	21.69	+1.2	+9.6	39.6	-(9)	+8.4	54.1	+1.1	+6.2
Furniture.....	96.7	+1.0	+9.1	93.9	+4.3	+20.8	23.03	+3.4	+10.8	40.8	+2.2	+3.9	56.5	+1.1	+6.5
Lumber:															
Millwork.....	69.7	-5	+14.7	57.7	-8	+22.4	22.78	-4	+6.6	40.4	-2.1	+1.3	56.2	+1.8	+5.3
Sawmills.....	63.8	+1.4	+7.1	62.7	+1.9	+17.6	20.31	+2	+9.8	38.8	-7	+3.2	52.3	+1.0	+6.3

Stone, clay, and glass products.....	89.8	+3.2	+15.6	85.3	+3.9	+24.9	25.90	+6	+8.1	37.2	-1	+4.5	68.9	+6	+3.5
Brick, tile, and terra cotta.....	65.4	+1.9	+20.2	56.1	+2.4	+35.3	22.30	+5	+12.6	37.4	-2	+8.3	59.4	+5	+4.9
Cement.....	69.3	+5.3	+16.5	66.2	+6.3	+22.5	27.13	+9	+5.2	38.2	+6	+4.2	71.0	+3	+9
Glass.....	119.7	+3.2	+12.7	141.1	+3.8	+25.1	28.76	+6	+11.0	37.1	+1	+6.1	77.4	+6	+4.6
Marble, granite, slate, and other products.....	43.4	+3.8	+1.1	31.1	+3.8	+5.3	25.37	0	+4.2	35.2	-1.1	+1.4	72.3	+9	+2.8
Pottery.....	111.2	+3.2	+19.5	104.4	+4.7	+22.4	23.95	+1.5	+2.4	37.3	-(6)	-1.3	64.4	+8	+3.8
<i>Nondurable goods</i>															
Textiles and their products.....	111.6	+1.4	+8.5	107.0	+3.0	+19.6	19.39	+1.6	+10.2	37.8	+1.0	+7.2	51.6	+5	+2.5
Fabrics.....	102.7	+1.0	+13.2	101.1	+2.6	+28.8	18.89	+1.5	+13.8	38.6	+9	+9.9	49.4	+7	+3.1
Carpets and rugs.....	85.5	+1.9	+6.8	83.1	+4.9	+23.3	26.86	+2.9	+15.5	39.0	+1.6	+11.1	68.9	+1.3	+3.9
Cotton goods.....	103.6	+1.1	+12.6	104.8	+3.1	+26.6	16.39	+2.1	+12.5	38.8	+1.1	+9.3	42.3	+1.0	+2.9
Cotton small wares.....	98.2	+3.3	+21.1	104.5	+3.9	+38.4	20.87	+6	+14.2	41.1	-(8)	+8.8	50.8	+7	+4.6
Dyeing and finishing textiles.....	142.0	+1.7	+10.8	133.3	+3.4	+22.6	22.91	+1.7	+10.6	40.8	+8	+8.5	55.5	+8	+1.7
Hats, fur-felt.....	84.7	+1.1	-2.1	88.1	-1.0	+28.5	29.12	-2.2	+31.3	37.8	-1.9	+28.1	77.1	-3	+9.5
Hosiery <sup>3 4</sup> .....	143.8	+7	+2.6	160.5	+2.8	+10.2	19.80	+2.1	+7.2	36.2	+9	+4.8	54.6	+7	+1.4
Knitted outerwear.....	68.2	-3	+4.4	60.8	+1.4	+14.7	18.34	+1.7	+9.7	37.4	+1.5	+5.2	49.1	+4	+3.9
Knitted underwear.....	80.4	+2.7	+2.3	81.7	+6.7	+14.0	17.00	+3.9	+11.7	38.3	+2.8	+5.1	44.2	+4	+5.6
Knitted cloth.....	145.6	+2.6	+8.3	133.0	+3.5	+24.1	20.36	+1.0	+14.7	39.6	+3	+9.3	51.1	+1.3	+4.9
Silk and rayon goods.....	67.2	+1.1	+1.5	57.5	+2.8	+10.1	17.55	+1.7	+8.4	37.8	+1.4	+6.5	46.2	+3	+1.8
Woolen and worsted goods.....	102.7	+1	+43.8	100.3	+4	+75.2	22.51	+4	+22.0	39.1	-1	+20.1	57.6	+4	+1.2
Wearing apparel.....	127.0	+2.3	+3	112.2	+3.9	+6.1	20.74	+1.5	+5.7	36.3	+1.4	+2.1	55.6	+1	+2.4
Clothing, men's.....	116.7	+1.4	+3.7	99.6	+3.2	+12.8	22.06	+1.8	+8.7	36.6	+1.2	+5.1	60.2	+3	+2.9
Clothing, women's.....	177.8	+3.0	-1.8	147.8	+3.6	+4.4	21.87	+6	+6.4	36.1	+1.7	+5	56.0	-7	+2.6
Corsets and allied garments.....	117.8	+2.9	+1.4	133.4	+5.2	+11.4	18.87	+2.2	+9.7	38.5	+1.0	+6.3	48.7	+1.1	+4.1
Men's furnishings.....	122.7	+3.4	-1.3	128.9	+4.3	+10.6	15.62	+8	+12.2	36.1	+3	+4.9	42.4	+4	+8.4
Millinery.....	91.0	+2.6	-6.0	84.6	+11.2	-18.0	28.50	+8.4	-12.7	34.9	+2.4	-11.9	70.0	+3.5	-1.2
Shirts and collars.....	127.5	+1.7	+1.4	121.1	+3.3	+7.2	14.87	+1.6	+5.6	36.2	+9	+6	41.7	+4	+4.0
Leather and its manufactures.....	98.7	+1.9	+5	96.1	+5.0	+19.7	22.61	+3.2	+19.1	39.7	+1.5	+12.2	57.2	+1.6	+7.4
Boots and shoes.....	97.0	+2.0	-8	94.2	+6.0	+20.6	21.77	+4.0	+21.6	39.7	+1.8	+13.6	54.9	+1.9	+7.9
Leather.....	89.1	+1.1	+6.1	94.3	+2.2	+17.3	26.47	+1.0	+10.5	39.6	+2	+6.3	67.0	+9	+4.2
Food and kindred products.....	120.4	+1.1	+1.3	122.5	+2.4	+4.6	25.74	+1.3	+3.1	40.0	+1.0	+3	65.5	+6	+3.0
Baking.....	145.0	+1.5	+1.3	140.0	+1.6	+4.2	26.66	+1	+2.9	41.6	-(9)	+6	64.1	-1	+2.2
Beverages <sup>2</sup> .....	263.7	+3.3	+8	312.9	+6.2	+4.3	34.63	+2.8	+3.4	38.9	+2.0	+2	90.1	+9	+3.3
Butter.....	96.0	+5.0	+6.6	85.3	+5.0	+9.8	23.12	0	+2.9	45.4	+2	+5	50.2	-3	+8.0
Canning and preserving.....	80.4	-5.5	-8.7	75.6	-1.1	-7	17.90	+4.7	+8.8	34.5	+1.6	+1.8	52.5	+3.4	+3.7
Confectionery.....	89.3	+3.7	+8.9	93.5	+4.8	+20.8	20.30	+1.1	+10.9	39.2	+1.3	+5.9	52.4	+1	+4.5
Flour.....	76.8	+4	-3.3	72.6	-4	-9	25.45	-8	+2.4	41.0	-7	+7	61.4	-3	+1.1
Ice cream <sup>3 4</sup> .....	70.8	+3.8	+1.0	62.5	+4.3	+4.3	30.21	+5	+3.3	45.2	+1.4	+7	65.2	-7	+2.0
Slaughtering and meat packing.....	110.7	+1	+3.0	114.2	+6	+2.4	26.81	+5	-7	39.2	+4	+1.8	68.5	+2	+5.0
Sugar, beet.....	46.0	-13.1	+16.2	47.9	-15.3	+5.8	26.91	-2.6	-9.0	34.5	-9.4	-11.7	81.0	+7.5	+5.0
Sugar refining, cane.....	95.7	+8.0	-(9)	92.3	+26.5	+17.1	27.32	+17.1	+17.1	41.5	+16.8	+13.4	65.8	+3	+3.2
Tobacco manufactures.....	63.3	-6	-5	62.7	+1.6	+7.9	17.99	+2.3	+8.4	36.1	+1.9	+5.2	49.7	+4	+3.2
Chewing and smoking tobacco and snuff.....	54.2	-4.1	-10.3	64.2	-1.1	-4.0	19.10	+5.4	+7.5	35.3	+4.7	+3.4	54.3	+6	+3.6
Cigars and cigarettes.....	64.4	-4	+7	62.4	+1.8	+9.7	17.78	+2.2	+9.0	36.1	+1.6	+5.2	49.2	+5	+3.5

See footnotes at end of table.

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

## MANUFACTURING—Continued

Industry	Employment			Pay rolls			Average weekly earnings <sup>1</sup>			Average hours worked per week <sup>1</sup>			Average hourly earnings <sup>1</sup>		
	Index March 1941	Percentage change from—		Index March 1941	Percentage change from—		March 1941	Percentage change from—		March 1941	Percentage change from—		March 1941	Percentage change from—	
		Febru-ary 1941	March 1940		Febru-ary 1941	March 1940		Febru-ary 1941	March 1940		Febru-ary 1941	March 1940		Febru-ary 1941	March 1940
<i>Nondurable goods—Continued</i>															
Paper and printing.....	118.2	+ 9	+3.3	120.4	+2.8	+9.5	\$30.67	+2.0	+5.9	39.7	+1.6	+3.9	<i>Cents</i> 80.5	+0.3	+2.9
Boxes, paper.....	123.0	+3.5	+7.7	145.0	+6.5	+19.3	23.54	+2.9	+10.8	40.8	+2.7	+6.8	58.2	+ 4	+4.2
Paper and pulp.....	118.5	+1.0	+5.3	136.4	+2.9	+18.5	28.19	+1.9	+12.6	42.5	+1.4	+7.0	66.4	+ 5	+5.1
Printing and publishing:															
Book and job.....	102.1	- 7	+2.3	94.9	+1.9	+7.6	32.08	+2.7	+5.2	39.8	+1.6	+3.1	82.3	+1.0	+1.8
Newspapers and periodicals.....	117.1	+ 8	+1	112.3	+2.2	+1.3	39.02	+1.4	+1.2	36.0	+1.0	- 4	104.8	+1	+1.9
Chemical, petroleum, and coal products.....	130.7	+2.3	+6.4	148.2	+2.8	+11.8	30.38	+ 5	+5.1	39.1	+ 7	+1.7	76.6	- 4	+3.6
Petroleum refining.....	119.5	+ 3	-1.4	133.4	+1.0	-1.7	34.68	+ 7	- 2	36.0	+1.0	- 7	96.7	- 2	+ 4
Other than petroleum refining.....	133.4	+2.7	+8.4	152.7	+3.2	+16.1	28.86	+ 5	+7.2	40.1	+ 6	+2.2	70.5	- 3	+6.1
Chemicals.....	159.3	+2.7	+17.5	201.7	+4.0	+26.6	33.93	+1.3	+7.7	41.0	+ 8	+2.7	82.9	+ 5	+5.1
Cottonseed—oil, cake, and meal.....	99.4	-11.3	+11.1	93.6	-10.8	+16.2	15.15	+ 5	+4.7	42.5	-1.9	+1.0	34.6	+1.4	+2.8
Druggists' preparations.....	120.9	+1.3	+1.9	137.7	+1.0	+5.0	25.62	- 3	+2.9	39.9	+ 2	- 7	61.6	- 3	+4.6
Explosives.....	160.7	+1.1	+49.1	206.6	-1.2	+60.4	35.14	-2.3	+7.6	40.5	-1.3	+3.7	86.8	-1.0	+3.7
Fertilizers.....	140.9	+24.5	- 7.2	116.9	+26.0	+3.8	14.88	+1.1	+11.0	36.5	+4.6	+3.4	40.8	-3.3	+7.3
Paints and varnishes.....	132.9	+3.3	+7.6	147.4	+4.0	+13.0	30.46	+ 6	+5.0	40.8	+ 3	+1.5	74.9	+ 3	+3.6
Rayon and allied products.....	312.2	+ 4	+1.0	332.9	+1.6	+5.3	27.28	+1.3	+4.3	38.9	+1.4	+1	70.0	- 2	+4.1
Soap.....	90.7	+1.0	+9.6	114.8	+2.0	+15.4	29.84	+1.0	+6.3	40.5	+ 7	+3.5	73.6	+ 3	+2.7
Rubber products.....	102.9	+2.2	+18.0	119.5	+3.6	+35.3	31.80	+1.4	+14.6	39.7	+ 9	+10.9	79.9	+ 9	+2.8
Rubber boots and shoes.....	69.3	+1.8	+23.8	80.6	+2.2	+44.5	26.77	+ 3	+16.7	41.6	+ 7	+12.0	64.3	- 3	+4.3
Rubber tires and inner tubes.....	80.0	+1.8	+10.7	102.7	+3.0	+30.0	37.55	+1.2	+17.5	37.9	+ 1	+13.0	99.4	+1.2	+2.9
Rubber goods other.....	179.2	+2.5	+24.2	194.6	+5.1	+41.5	26.31	+2.6	+13.9	41.0	+1.7	+8.1	64.7	+ 9	+5.0

## NONMANUFACTURING

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

<b>Coal mining:</b>															
Anthracite <sup>8</sup> .....	50.2	— 8	—3.7	42.4	—6.0	+10.4	27.79	—5.3	+14.7	29.9	—4.5	+13.7	92.7	+ 1	+ 2
Bituminous <sup>8</sup> .....	91.4	+ 9	+1.9	95.0	+4.7	+21.4	27.89	+3.7	+19.2	32.0	+3.6	+21.8	88.2	— 2	— 7
Metaliferous mining <sup>10</sup> .....	74.0	+ 8	+11.7	72.7	+1.3	+15.3	30.99	+ 5	+3.2	40.8	— 3	—1.7	76.1	+ 6	+4.8
Quarrying and nonmetallic mining.....	44.1	+4.2	+7.6	40.2	+5.3	+17.8	22.87	+1.0	+9.5	38.8	— 4	+4.4	58.9	+1.3	+4.5
Crude-petroleum production.....	60.5	— (6)	—4.2	56.8	—1.4	—2.7	37.82	—1.4	+1.5	37.6	+ 3	— 6	89.1	—1.2	+ 8

<b>Public utilities:</b>															
Telephone and telegraph <sup>11 12</sup>	81.8	+1.2	+7.7	106.8	+2.5	+8.9	32.04	+1.3	+1.1	39.7	+3	+5	81.1	+7	+4
Electric light and power <sup>11 12</sup>	90.4	+4	+1.2	106.8	+1.3	+4.4	35.92	+1.0	+3.1	39.4	+6	-1.1	91.2	+4	+4.0
Street railways and busses <sup>11 12 13</sup>	68.3	+6	+1	72.8	+2.5	+4.7	34.65	+1.9	+4.6	46.7	+1.9	+3.0	73.2	-2	+1.7
<b>Trade:</b>															
Wholesale <sup>11 14</sup>	91.7	+3	+1.3	82.2	+1.0	+5.7	31.18	+7	+4.3	40.6	+3	-1.1	76.7	+1	+5.7
Retail <sup>11 12</sup>	92.1	+1.5	+1.1	86.3	+2.0	+5.2	21.66	+4	+4.1	42.6	-2	+2	55.0	+1	+3.4
Food <sup>12</sup>	106.3	+7	+2.4	99.2	+9	+5.1	23.86	+2	+2.6	43.0	+	-4	52.8	+3	+1.9
General merchandising <sup>11 12</sup>	95.4	+2.7	-1.0	88.1	+1.7	+2.6	18.33	-1.0	+3.6	38.6	-7	+7	40.5	-4	+1.0
Apparel <sup>12</sup>	82.9	+6.4	-10.5	76.3	+3.7	-3.8	21.25	-2.6	+7.5	37.8	-1.9	+4.0	55.4	-1.0	+3.7
Furniture <sup>12</sup>	73.8	-1.6	-3.4	66.1	-3	-3	28.39	+1.4	+3.2	43.8	-1	-1.8	68.1	+3	+2.0
Automotive <sup>12</sup>	87.6	+1.0	+6.2	87.0	+3.2	+11.5	29.90	+2.2	+5.1	46.8	+3	-1.7	63.9	+1.7	+6.0
Lumber <sup>12</sup>	72.1	+7	+2.4	69.3	+1.8	+5.5	26.88	+1.1	+3.0	42.5	+1.2	-1.0	64.8	+4	+4.6
Hotels (year-round) <sup>8 11 15</sup>	94.3	+4	+2.5	86.2	+1	+5.4	15.78	-2	+2.8	46.0	+7	+3	34.0	-4	+3.6
Laundries <sup>8</sup>	102.6	+1.5	+6.6	90.8	+1.3	+8.0	18.37	-2	+1.3	43.2	-2	+6	42.7	+	-8
Dyeing and cleaning <sup>8</sup>	104.4	+3.0	+4.9	76.9	+3.5	+5.8	20.22	+4	+8	42.4	+6	+1.5	49.1	+3	-4
Brokerage <sup>11</sup>	(16)	-4	-11.9	(16)	-1.7	-12.1	37.32	-1.3	-2	(16)	(16)	(16)	(16)	(16)	(16)
Insurance <sup>11</sup>	(16)	+1	+1.5	(16)	+3	+2.3	37.34	+2	+8	(16)	(16)	(16)	(16)	(16)	(16)
Building construction	(16)	-2	+34.3	(16)	+5	+44.8	32.61	+3	+7.8	32.8	+	+5.8	100.0	+3	+1.9

<sup>1</sup> Revised series. 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> Revisions in the following industries have been made as indicated:

*Tin cans*.—December 1940 average weekly earnings and average hourly earnings to \$25.72 and 63.8 cents; pay-roll index to 113.1.

*Tools*.—October, November, and December average weekly earnings to \$27.15, \$28.24, \$29.79; October and November average weekly hours to 42.5 and 43.6; October, November and December average hourly earnings to 64.1, 64.9 and 65.7; October, November and December employment and pay-roll indexes to 106.1, 111.8, 116.7; and 113.9, 124.9, 137.1.

*Beerages*.—December average weekly earnings, average weekly hours, average hourly earnings to \$33.54, 33.1 hours, 88.8 cents; December employment and pay-roll indexes to 260.5, and 209.9.

*Hosiery*.—December employment index revised to 146.0; July, August, November, December pay-roll indexes to 129.2, 143.6, 160.2, 160.1.

*Ice cream*.—November and December employment indexes revised to 71.0, 69.5; December pay-roll index to 61.0.

<sup>4</sup> Because of change in the composition of the reporting sample, hours and earnings are not comparable with those previously published as indicated.

*Agricultural implements*.—Average weekly earnings, average weekly hours, average hourly earnings (comparable December figures \$32.89, 40.3 hours, 81.8 cents).

*Hosiery*.—Average weekly earnings and average weekly hours (comparable July, August, September, October, November, December figures \$17.60, \$18.86, \$18.90, \$19.71, \$19.71, \$19.62; 31.8, 34.0, 34.3, 36.2, 36.1, 35.8 hours); average hourly earnings (comparable July figure 55.6 cents. Published figures for succeeding months not revised.)

*Ice cream*.—Average weekly earnings (comparable August, September, October, November, and December figures \$29.05, \$29.18, \$29.53, \$29.23, \$29.79); average

weekly hours (comparable October figure 44.5); average hourly earnings (comparable August, September, October, November, December figures 61.9, 63.3, 65.1, 65.2, 65.2 cents).

<sup>5</sup> Revised series.—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 issue of **EMPLOYMENT AND PAY ROLLS**.

<sup>6</sup> Less than  $\frac{1}{10}$  of 1 percent.

<sup>7</sup> Not comparable with previously published figures. See table 8 for revised figures from January 1935 to February 1941.

<sup>8</sup> Indexes adjusted to 1935 census. Comparable series back to January 1929 presented in January 1938 issue of pamphlet.

<sup>9</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>10</sup> See table 7 of February 1941 pamphlet for revised figures for metalliferous mining from January 1938 to January 1941, inclusive.

<sup>11</sup> Average weekly earnings, hourly earnings, and hours not comparable with figures published in pamphlets prior to January 1938 as they now exclude corporation officers, executives, and other employees whose duties are mainly supervisory.

<sup>12</sup> Retail-trade indexes adjusted to 1935 census and public-utility indexes to 1937 census. Not comparable to indexes published in pamphlets prior to January 1940 or in **MONTHLY LABOR REVIEWS** 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>13</sup> Covers street-railways and trolley and motorbus operations of subsidiary, affiliated, and successor companies; formerly "electric-railroad and motorbus operation and maintenance."

<sup>14</sup> Indexes adjusted to 1933 census. Comparable series in November 1934 and subsequent issues of **EMPLOYMENT AND PAY ROLLS**.

<sup>15</sup> Cash payments only; additional value of board, room, and tips not included.

<sup>16</sup> Not available.

\*The indexes for "automobiles" have been adjusted to 1933 census figures, but not to later census figures because of problems involving integrated industries.

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

[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. Except as otherwise noted, the indexes for all other manufacturing groups and industries have been adjusted to 1937 census figures 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>		
	March 1941	February 1941	January 1941	March 1941	February 1941	January 1941	March 1941	February 1941	January 1941	March 1941	February 1941	January 1941	March 1941	February 1941	January 1941
<b>All manufacturing<sup>2</sup></b> .....	119.9	117.8	115.5	131.2	126.9	120.7	\$29.11	\$28.58	\$27.71	40.4	40.0	39.0	Cents 69.7	Cents 69.2	Cents 68.9
Durable goods <sup>2</sup> .....	123.7	121.0	118.3	144.5	139.3	132.0	33.50	32.93	31.90	42.0	41.6	40.6	76.8	76.2	75.8
Nondurable goods <sup>2</sup> .....	116.3	114.7	112.7	116.3	112.9	108.1	23.63	23.22	22.64	38.8	38.3	37.3	62.4	62.1	62.0
<i>Durable goods</i>															
<b>Iron and steel and their products, not including machinery</b> .....	127.2	125.0	122.2	141.1	136.9	130.8	32.71	32.23	31.46	41.0	40.7	39.8	79.5	79.1	78.6
Blast furnaces, steel works, and rolling mills.....	135.0	133.3	131.3	149.0	145.4	139.9	34.94	34.51	33.66	40.1	40.0	39.1	87.3	86.6	86.1
Bolts, nuts, washers, and rivets.....	150.5	146.0	138.9	199.4	192.7	197.5	31.87	31.87	29.58	44.0	44.3	41.9	72.4	71.9	70.6
Cast-iron pipe.....	90.5	89.3	87.6	99.2	97.4	93.3	26.22	26.07	25.42	41.5	41.3	40.5	62.8	62.9	62.6
Cutlery (not including silver and plated cutlery) and edge tools.....	112.5	109.4	107.7	117.5	111.4	106.9	27.33	26.66	25.90	41.7	41.0	40.5	66.6	66.1	65.2
Forgings, iron and steel.....	97.4	94.5	91.4	137.6	130.2	124.4	38.23	37.29	36.75	45.9	45.2	45.0	83.4	82.7	81.8
Hardware.....	117.1	114.9	112.8	138.1	134.8	130.4	28.95	28.84	28.30	42.0	41.9	40.8	69.0	68.9	69.5
Plumbers' supplies.....	100.6	99.3	97.9	99.5	95.9	91.0	28.57	27.92	26.86	39.8	38.1	38.1	71.8	72.1	70.5
Stamped and enameled ware.....	206.1	201.3	190.0	240.0	232.5	214.2	27.51	27.36	26.69	40.5	40.5	39.6	67.6	67.0	67.2
Steam and hot-water heating apparatus and steam fittings.....	107.3	105.9	102.7	112.1	109.8	105.3	31.49	31.28	30.98	42.6	42.6	42.5	74.2	73.6	73.2
Stoves.....	103.9	99.2	94.5	103.3	94.1	87.1	28.25	26.79	26.07	40.3	39.1	38.7	69.7	68.8	67.8
Structural and ornamental metalwork.....	97.2	95.9	93.5	97.1	93.8	89.4	32.35	31.67	31.01	42.9	42.2	41.8	75.6	75.0	74.3
Tin cans and other tinware <sup>3</sup> .....	107.3	104.1	101.8	123.7	117.2	116.3	25.91	25.31	25.63	40.0	39.4	39.8	64.8	64.7	64.8
Tools (not including edge tools, machine tools, files, and saws) <sup>3</sup> .....	130.1	126.2	121.1	160.5	153.3	141.1	31.36	30.86	29.49	46.4	46.1	44.7	67.7	67.1	66.2
Wirework.....	209.7	207.8	205.5	256.4	252.5	237.7	29.89	29.71	28.27	41.7	41.7	39.7	72.1	71.3	71.2
<b>Machinery, not including transportation equipment</b> .....	147.7	143.5	139.8	166.2	176.9	167.5	34.98	34.26	33.35	44.9	44.2	43.2	77.8	77.1	76.8
Agricultural implements (including tractors) <sup>4</sup> .....	132.6	144.2	149.6	162.0	174.2	180.9	33.54	33.13	33.25	41.0	40.6	40.6	82.0	81.8	82.1
Cash registers, adding machines, and calculating machines.....	146.3	140.3	136.1	179.4	166.3	151.6	38.25	36.99	34.78	44.3	43.4	41.4	87.3	86.2	84.6
Electrical machinery, apparatus, and supplies.....	141.5	136.4	129.4	185.9	175.7	162.7	34.46	33.87	33.00	44.3	43.8	42.8	78.0	77.6	77.3

Engines, turbines, water wheels, and wind-mills.....	247.1	236.7	223.5	376.4	345.7	331.7	40.14	38.46	39.09	46.0	45.1	45.3	87.4	85.4	86.6
Foundry and machine-shop products.....	123.6	120.0	117.4	143.6	136.1	128.7	34.39	33.51	32.51	44.7	44.0	42.9	76.9	76.2	75.7
Machine tools.....	307.1	297.2	285.8	462.9	448.7	414.5	41.73	41.80	40.15	51.9	51.9	50.4	80.1	80.2	79.7
Radios and phonographs.....	149.1	144.8	147.5	157.2	146.4	144.9	25.79	24.80	24.08	40.2	38.9	38.2	64.3	64.0	63.2
Textile machinery and parts.....	96.2	92.9	89.3	110.3	105.2	97.9	31.77	31.36	30.13	45.9	45.6	44.6	69.3	69.0	67.7
Typewriters and parts.....	133.6	108.5	130.8	159.2	122.0	141.0	29.20	27.58	26.40	42.3	40.9	39.1	69.1	67.4	67.5
<b>Transportation equipment <sup>1</sup>.....</b>	<b>161.0</b>	<b>157.0</b>	<b>152.6</b>	<b>197.0</b>	<b>190.7</b>	<b>176.2</b>	<b>38.80</b>	<b>38.44</b>	<b>36.57</b>	<b>42.3</b>	<b>42.1</b>	<b>40.4</b>	<b>92.1</b>	<b>91.8</b>	<b>91.1</b>
Aircraft <sup>2</sup> .....	5,563.7	5,344.0	5,037.7	6,678.3	6,440.6	5,919.7	35.02	35.14	34.13	45.2	45.5	44.7	78.3	78.4	77.6
Automobiles *.....	131.3	129.9	128.3	162.8	159.1	147.5	40.64	40.05	37.61	41.4	41.1	39.0	98.4	97.5	96.6
Cars, electric- and steam-railroad.....	70.9	68.9	69.3	65.6	66.9	64.3	29.42	30.88	29.57	37.7	39.5	38.5	78.0	78.1	76.8
Locomotives.....	55.8	53.1	49.4	64.0	60.7	55.0	35.17	34.95	34.13	43.3	43.1	42.5	81.2	81.1	80.3
Shipbuilding.....	272.0	256.3	240.0	365.0	338.1	307.6	39.58	38.91	37.81	44.2	42.9	42.1	89.3	90.3	89.4
<b>Nonferrous metals and their products.....</b>	<b>138.9</b>	<b>134.7</b>	<b>131.1</b>	<b>155.0</b>	<b>151.2</b>	<b>146.0</b>	<b>31.49</b>	<b>31.02</b>	<b>30.71</b>	<b>42.1</b>	<b>41.8</b>	<b>41.4</b>	<b>74.8</b>	<b>74.0</b>	<b>74.0</b>
Aluminum manufactures <sup>3</sup> .....	223.1	225.2	225.4	257.0	285.2	280.6	28.71	31.73	31.16	38.0	42.0	41.4	75.6	75.5	75.3
Brass, bronze, and copper products.....	180.5	175.9	171.5	236.7	224.2	220.1	36.45	35.16	35.28	44.4	43.6	44.0	82.2	80.9	80.7
Clocks and watches and time-recording devices.....	111.9	109.1	106.3	129.2	124.8	115.0	25.51	25.27	23.90	41.8	41.2	38.9	61.2	61.4	61.4
Jewelry.....	104.1	102.2	96.2	93.9	89.4	81.9	24.14	23.54	22.92	40.9	39.8	38.5	59.3	58.8	58.9
Lighting equipment.....	111.9	111.3	107.9	105.4	104.8	98.9	28.83	28.78	28.19	40.5	40.4	39.3	71.1	71.2	71.7
Silverware and plated ware.....	79.8	78.4	74.7	82.4	77.0	70.8	29.81	28.35	27.37	44.3	42.7	41.4	68.0	67.0	66.6
Smelting and refining—copper, lead, and zinc.....	100.6	99.8	97.9	105.7	104.5	101.5	29.60	29.51	29.21	39.1	38.9	38.7	75.8	75.9	75.5
<b>Lumber and allied products.....</b>	<b>72.7</b>	<b>72.0</b>	<b>71.3</b>	<b>72.8</b>	<b>71.2</b>	<b>68.1</b>	<b>21.69</b>	<b>21.41</b>	<b>20.72</b>	<b>39.6</b>	<b>39.7</b>	<b>38.9</b>	<b>54.1</b>	<b>53.6</b>	<b>52.9</b>
Furniture.....	96.7	95.8	93.7	93.9	90.0	84.2	23.03	22.32	21.42	40.8	40.0	39.0	56.5	56.0	55.2
Lumber:															
Millwork.....	69.7	70.0	70.4	57.7	58.2	57.7	22.78	22.81	22.51	40.4	41.3	40.5	56.2	55.0	55.4
Sawmills.....	63.8	62.9	62.5	62.7	61.6	59.2	20.31	20.26	19.59	38.8	39.1	38.4	52.3	51.8	51.0
<b>Stone, clay, and glass products.....</b>	<b>89.8</b>	<b>87.0</b>	<b>85.9</b>	<b>85.3</b>	<b>82.1</b>	<b>79.6</b>	<b>25.90</b>	<b>25.62</b>	<b>25.17</b>	<b>37.2</b>	<b>37.2</b>	<b>36.5</b>	<b>68.9</b>	<b>68.3</b>	<b>68.2</b>
Brick, tile, and terra cotta.....	65.4	64.1	64.8	56.1	54.8	54.6	22.30	22.07	21.74	37.4	37.5	36.9	59.4	58.8	58.7
Cement.....	69.3	65.8	64.8	66.2	62.3	61.1	27.13	26.93	26.82	38.2	38.0	37.9	71.0	70.9	70.9
Glass.....	119.7	116.0	114.4	141.1	135.9	131.0	28.76	28.58	28.02	37.1	37.2	36.3	77.4	76.9	77.2
Marble, granite, slate, and other products.....	43.4	41.8	39.0	31.1	30.0	26.9	25.37	25.33	24.29	35.2	35.6	34.6	72.3	71.6	70.8
Pottery.....	111.2	107.8	104.7	104.4	99.7	95.5	23.95	23.38	22.92	37.3	37.0	36.4	64.4	63.6	63.5
<i>Nondurable goods</i>															
<b>Textiles and their products.....</b>	<b>111.6</b>	<b>110.1</b>	<b>106.4</b>	<b>107.0</b>	<b>103.9</b>	<b>95.1</b>	<b>19.39</b>	<b>19.09</b>	<b>18.13</b>	<b>37.8</b>	<b>37.4</b>	<b>35.7</b>	<b>51.6</b>	<b>51.4</b>	<b>51.2</b>
Fabrics.....	102.7	101.7	99.7	101.1	98.5	93.1	18.89	18.61	17.93	38.6	38.3	36.9	49.4	49.2	49.2
Carpets and rugs.....	85.5	83.9	82.1	83.1	79.2	74.7	26.86	26.10	25.18	39.0	38.4	37.3	68.9	68.1	67.5
Cotton goods.....	103.6	102.6	100.7	104.8	101.7	96.9	16.39	16.04	15.60	38.8	38.4	37.2	42.3	41.8	41.9
Cotton small wares.....	98.2	95.1	91.6	104.5	100.6	92.7	20.87	20.58	19.74	41.1	41.1	39.3	50.8	50.2	50.3
Dyeing and finishing textiles.....	142.0	139.7	134.9	133.3	128.8	120.2	22.91	22.38	21.65	40.8	40.6	39.3	55.5	55.0	55.1
Hats, fur-felt.....	84.7	83.7	82.3	88.1	89.0	80.0	29.12	29.52	26.93	37.8	38.6	35.9	77.1	77.1	74.9
Hosiery <sup>3 4</sup> .....	143.8	142.8	142.9	160.5	156.2	148.6	19.80	19.48	18.51	36.2	35.9	33.8	54.6	54.5	55.0

See footnotes at end of table.



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

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>		
	March 1941	February 1941	January 1941	March 1941	February 1941	January 1941	March 1941	February 1941	January 1941	March 1941	February 1941	January 1941	March 1941	February 1941	January 1941
<i>Nondurable goods—Continued</i>															
<b>Textiles and their products—Continued.</b>													<i>Cents</i>	<i>Cents</i>	<i>Cents</i>
Fabrics—Continued.															
Knitted outerwear..	68.2	68.4	66.2	60.8	59.9	56.0	\$18.34	\$18.14	\$17.65	37.4	36.6	35.8	49.1	48.9	48.9
Knitted underwear..	80.4	78.3	76.9	81.7	76.6	73.4	17.00	16.41	16.06	38.3	37.3	36.0	44.2	44.2	44.6
Knitted cloth.....	145.6	141.9	139.7	133.0	128.5	125.0	20.36	20.16	19.90	39.6	39.5	37.9	51.1	50.5	50.3
Silk and rayon goods.....	67.2	66.5	65.0	57.5	55.9	52.6	17.55	17.22	16.53	37.8	37.3	35.7	46.2	46.0	46.1
Woolen and worsted goods..	102.7	102.6	99.9	100.3	99.9	93.6	22.51	22.57	21.78	39.1	39.2	37.9	57.6	57.7	57.6
Wearing apparel.....	127.0	121.2	116.8	112.2	108.0	93.2	20.74	20.39	18.70	36.3	35.7	33.3	55.6	55.5	55.2
Clothing, men's.....	116.1	114.4	109.5	99.6	96.5	87.3	22.06	21.58	20.36	36.6	36.0	33.5	60.2	59.9	60.5
Clothing, women's.....	177.8	172.6	161.5	147.8	142.7	119.5	21.87	21.74	19.47	36.1	35.5	33.2	56.0	56.4	55.3
Corsets and allied garments..	117.8	114.5	112.0	133.4	126.8	115.8	18.87	18.45	17.24	38.5	38.1	35.6	48.7	48.1	48.2
Men's furnishings.....	122.7	118.7	107.5	128.9	123.6	103.2	15.62	15.54	14.33	36.1	36.0	33.3	42.4	42.3	42.2
Millinery.....	91.0	88.7	74.9	84.6	76.1	55.2	28.50	26.08	22.31	34.9	34.1	30.5	70.0	67.7	64.8
Shirts and collars..	127.5	125.4	118.7	121.1	117.2	103.9	14.87	14.63	13.71	36.2	35.6	33.1	41.7	41.6	42.1
<b>Leather and its manufactures..</b>	<b>98.7</b>	<b>96.9</b>	<b>93.4</b>	<b>96.1</b>	<b>91.5</b>	<b>83.3</b>	<b>22.61</b>	<b>21.89</b>	<b>20.67</b>	<b>39.7</b>	<b>39.1</b>	<b>37.3</b>	<b>57.2</b>	<b>56.4</b>	<b>55.5</b>
Boots and shoes..	97.0	95.0	91.4	94.2	88.9	80.1	21.77	20.92	19.58	39.7	38.9	37.0	54.9	54.0	53.0
Leather..	89.1	88.1	85.8	94.3	92.3	86.7	26.47	26.23	25.27	39.6	39.6	38.3	67.0	66.4	66.2
<b>Food and kindred products..</b>	<b>120.4</b>	<b>119.1</b>	<b>121.4</b>	<b>122.5</b>	<b>119.6</b>	<b>120.2</b>	<b>25.74</b>	<b>25.25</b>	<b>24.89</b>	<b>40.0</b>	<b>39.5</b>	<b>39.0</b>	<b>65.5</b>	<b>65.1</b>	<b>64.9</b>
Baking.....	145.0	142.9	140.5	140.0	137.8	134.5	26.66	26.73	26.46	41.6	41.6	41.1	64.1	64.4	64.4
Beverages <sup>2</sup> .....	263.7	255.3	256.1	312.9	294.6	289.0	34.63	33.72	32.96	38.9	38.0	37.2	90.1	89.5	89.5
Butter.....	96.0	91.4	91.6	85.3	81.3	80.1	23.12	23.15	22.84	45.4	45.3	44.6	50.2	50.6	50.9
Canning and preserving..	80.4	85.1	90.8	75.6	76.4	79.2	17.90	17.02	16.67	34.5	33.9	33.0	52.5	50.7	51.0
Confectionery.....	89.3	86.1	86.9	93.5	89.2	86.9	20.30	20.04	19.19	39.2	38.8	37.6	52.4	52.3	51.9
Flour.....	76.8	76.6	76.9	72.6	73.0	72.2	25.45	25.66	25.27	41.0	41.3	41.0	61.4	61.6	60.8
Ice cream <sup>3,4</sup> .....	70.8	68.2	67.7	62.5	59.9	58.8	30.21	30.00	29.41	45.2	44.6	44.2	65.2	65.4	65.3
Slaughtering and meat packing.	110.7	110.6	116.3	114.2	113.5	119.7	26.81	26.70	26.84	39.2	39.0	39.3	68.5	68.5	68.1
Sugar, beet.....	46.0	52.9	103.4	47.9	56.6	96.3	26.91	27.63	24.03	34.5	38.4	36.5	81.0	75.4	63.0
Sugar refining, cane..	95.7	88.6	87.6	92.3	73.0	70.3	27.32	23.33	22.73	41.5	35.5	35.0	65.8	65.6	65.0
<b>Tobacco manufactures.....</b>	<b>63.3</b>	<b>63.7</b>	<b>60.8</b>	<b>62.7</b>	<b>61.7</b>	<b>59.3</b>	<b>17.99</b>	<b>17.54</b>	<b>17.76</b>	<b>36.1</b>	<b>35.4</b>	<b>35.7</b>	<b>49.7</b>	<b>49.5</b>	<b>49.8</b>
Chewing and smoking tobacco and snuff..	54.2	56.5	57.7	64.2	63.5	66.5	19.10	18.12	18.60	35.3	33.7	34.9	54.3	53.9	53.7
Cigars and cigarettes..	64.4	64.6	61.1	62.4	61.3	58.3	17.78	17.42	17.57	36.1	35.6	35.8	49.2	49.0	49.3

Paper and printing.....	118.2	117.2	116.7	120.4	117.1	115.4	39.67	30.01	29.75	39.7	39.1	38.8	80.5	80.3	80.2
Boxes, paper.....	123.0	118.8	118.4	145.0	136.2	131.8	23.54	22.87	22.26	40.8	39.8	38.8	58.2	57.9	57.6
Paper and pulp.....	118.5	117.3	115.7	136.4	132.5	127.5	28.19	27.66	27.02	42.5	41.9	40.8	66.4	66.1	66.2
Printing and publishing:															
Book and job.....	102.1	102.8	103.6	94.9	93.1	94.7	32.08	31.42	31.76	39.8	39.2	39.6	82.3	81.4	81.3
Newspapers and periodicals.....	117.1	116.2	115.3	112.3	109.9	108.1	39.02	38.41	38.06	36.0	35.7	35.6	104.8	104.7	104.8
Chemical, petroleum, and coal products.....	130.7	127.8	126.0	148.2	144.2	142.1	30.38	30.24	30.31	39.1	38.8	38.9	76.6	77.0	77.0
Petroleum refining.....	119.5	119.2	119.1	133.4	132.1	132.2	34.68	34.36	34.46	36.0	35.6	35.7	96.7	97.0	97.0
Other than petroleum refining.....	133.4	129.9	127.7	152.7	148.0	145.2	28.86	28.71	28.81	40.1	39.8	39.9	70.5	70.7	70.6
Chemicals.....	159.3	155.1	152.0	201.7	193.9	188.2	33.93	33.50	33.10	41.0	40.6	40.3	82.9	82.6	82.2
Cottonseed—oil, cake, and meal.....	99.4	112.0	114.3	93.6	104.9	111.0	15.15	15.02	15.55	42.5	43.4	44.6	34.6	34.0	33.8
Druggists' preparations.....	120.9	119.3	116.1	137.7	136.4	130.9	25.62	25.72	25.43	39.9	39.9	39.6	61.6	61.9	61.4
Explosives.....	160.7	159.0	150.3	206.6	209.2	202.5	35.14	35.96	36.83	40.5	41.0	41.4	86.8	87.6	89.0
Fertilizers.....	140.9	113.2	103.8	116.9	92.8	85.5	14.88	14.69	14.89	36.5	34.9	34.8	40.8	42.1	42.9
Paints and varnishes.....	132.9	128.6	126.3	147.4	141.7	137.4	30.46	30.22	29.86	40.8	40.6	40.3	74.9	74.6	74.1
Rayon and allied products.....	312.2	311.0	313.5	332.9	327.6	335.9	27.28	26.94	27.40	38.9	38.4	39.2	70.0	70.2	69.9
Soap.....	90.7	89.8	85.9	114.8	112.6	107.7	29.84	29.54	29.58	40.5	40.3	40.0	73.6	73.4	74.0
Rubber products.....	102.9	100.7	98.8	119.5	115.3	111.6	31.80	31.20	30.85	39.7	39.3	39.0	79.9	79.2	78.8
Rubber boots and shoes.....	69.3	68.0	68.0	80.6	78.9	79.2	26.77	26.66	26.76	41.6	41.3	41.9	64.3	64.5	63.9
Rubber tires and inner tubes.....	80.0	78.6	77.9	102.7	99.7	97.9	37.55	37.02	36.67	37.9	37.8	37.7	99.4	98.1	97.5
Rubber goods other.....	179.2	174.9	168.9	194.6	185.2	173.5	26.31	25.72	24.97	41.0	40.3	39.4	64.7	64.3	63.9

# NONMANUFACTURING

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

Coal mining:															
Anthracite <sup>7 8</sup> .....	50.2	50.6	50.3	42.4	45.2	38.5	\$27.79	\$29.35	\$25.13	29.9	31.4	27.0	92.7	92.6	92.5
Bituminous <sup>7</sup> .....	91.4	90.6	90.2	95.0	90.8	87.8	27.89	26.90	26.00	32.0	30.9	29.7	88.2	88.4	88.5
Metalliferous mining <sup>9</sup> .....	74.0	73.4	72.5	72.7	71.8	70.4	30.99	30.83	30.31	40.8	41.0	40.7	76.1	75.6	74.8
Quarrying and nonmetallic mining.....	44.1	42.4	41.7	40.2	38.2	36.9	22.87	22.64	22.06	38.8	38.9	38.2	58.9	58.2	57.6
Crude-petroleum production.....	60.5	60.5	60.5	56.8	57.6	56.2	37.82	38.35	33.27	37.6	37.5	37.8	89.1	90.2	88.3
Public utilities:															
Telephone and telegraph <sup>10 11</sup> .....	81.8	80.9	80.4	106.8	104.3	103.9	32.04	31.64	31.69	39.7	39.5	39.7	81.1	80.5	80.4
Electric light and power <sup>10 11</sup> .....	90.4	90.1	90.5	106.8	105.4	105.1	35.92	35.57	35.49	39.4	39.2	39.4	91.2	90.8	90.3
Street railways and busses <sup>10 11 12</sup> .....	68.3	68.0	68.3	72.8	71.0	70.7	34.65	34.00	33.63	46.7	45.8	45.3	73.2	73.4	73.1
Trade:															
Wholesale <sup>10 12</sup> .....	91.7	91.4	91.2	82.2	81.4	80.5	31.18	30.96	30.59	40.6	40.5	40.6	76.7	76.6	75.6
Retail <sup>10 11</sup> .....	92.1	90.7	90.5	86.3	84.6	83.7	21.66	21.73	21.53	42.6	42.7	42.7	55.0	54.9	54.5
Food <sup>11</sup> .....	106.3	105.6	103.2	99.2	98.3	96.5	23.86	23.76	24.51	43.0	43.0	43.3	52.8	52.7	53.1
General merchandizing <sup>10 11</sup> .....	95.4	92.9	94.0	88.1	86.6	86.5	18.33	18.52	18.22	38.6	38.9	38.8	46.5	46.7	46.5
Apparel <sup>11</sup> .....	82.9	77.9	78.5	76.3	73.6	74.5	21.25	21.83	21.89	37.8	38.5	39.0	55.4	56.0	55.8
Furniture <sup>11</sup> .....	73.8	75.0	74.8	66.1	66.3	66.2	28.39	28.12	27.96	43.8	43.9	43.7	68.1	67.9	68.3
Automotive <sup>11</sup> .....	87.6	86.7	86.2	87.0	84.3	80.9	29.90	29.31	28.26	46.8	46.7	46.7	63.9	62.9	61.0
Lumber <sup>11</sup> .....	72.1	71.6	72.7	69.3	68.1	68.5	26.88	26.59	26.16	42.5	42.0	41.7	64.8	64.5	64.0

See footnotes at end of table.

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

## NONMANUFACTURING—Continued

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>		
	March 1941	February 1941	January 1941	March 1941	February 1941	January 1941	March 1941	February 1941	January 1941	March 1941	February 1941	January 1941	March 1941	February 1941	January 1941
Hotels (year-round) <sup>7 10 14</sup>	94.3	93.9	92.9	86.2	86.1	84.1	\$15.78	\$15.81	\$15.65	46.0	45.7	45.9	Cents 34.0	Cents 34.1	Cents 33.8
Laundries <sup>7</sup>	102.6	101.1	101.4	90.8	89.7	89.8	18.37	18.41	18.37	43.2	43.2	42.9	42.7	42.7	42.9
Dyeing and cleaning <sup>7</sup>	104.4	101.4	101.0	76.9	74.4	73.3	20.22	20.13	19.92	42.4	42.1	41.9	49.1	49.0	48.8
Brokerage <sup>10 15</sup>	-0.4	-1.6	-2.0	-1.7	-2.7	-2.6	37.32	37.82	37.92	(16)	(16)	(16)	(16)	(16)	(16)
Insurance <sup>10 16</sup>	+1	+2	+(11)	+3	-3	+1.0	37.34	37.26	37.52	(16)	(16)	(16)	(16)	(16)	(16)
Building construction <sup>15</sup>	+2	-2.0	-8.5	+5	-4	-10.3	32.61	32.67	32.10	32.8	32.8	32.6	100.0	99.7	98.6

<sup>1</sup> Revised series. 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> Revisions in the following industries have been made as indicated:

*Tin cans*.—December 1940 average weekly earnings and average hourly earnings to \$25.72 and 63.8 cents; pay-roll index to 113.1.

*Tools*.—October, November, and December average weekly earnings to \$27.15, \$28.24, \$29.79; October and November average weekly hours to 42.5 and 43.6; October, November, and December average hourly earnings to 64.1, 64.9, and 65.7; October, November, and December employment and pay-roll indexes to 106.1, 111.8, 116.7; and 113.9, 124.9, 137.1.

*Beverages*.—December average weekly earnings, average weekly hours, average hourly earnings to \$33.54, 38.1 hours, 88.8 cents; December employment and pay-roll indexes to 260.5, and 299.9.

*Hosiery*.—December employment index revised to 146.0; July, August, November, December pay-roll indexes to 129.2, 143.6, 160.2, 160.1.

*Ice cream*.—November and December employment indexes revised to 71.0, 69.5; December pay-roll index to 61.0.

<sup>4</sup> Because of change in the composition of the reporting sample, hours and earnings are not comparable with those previously published as indicated.

*Agricultural implements*.—Average weekly earnings, average weekly hours, average hourly earnings (comparable December figures \$32.89, 40.3 hours, 81.8 cents).

*Hosiery*.—Average weekly earnings and average weekly hours (comparable July, August, September, October, November, December figures \$17.60, \$18.86, \$18.90, \$19.71, \$19.71, \$19.62; 31.8, 34.0, 34.3, 36.2, 36.1, 35.8 hours); average hourly earnings (comparable July figure 55.6 cents. Published figures for succeeding months not revised.)

*Ice cream*.—Average weekly earnings (comparable August, September, October, November, and December figures \$29.05, \$29.18, \$29.53, \$29.23, \$29.79); average weekly hours (comparable October figure 44.5); average hourly earnings (com-

parable August, September, October, November, December figures 61.9, 63.3, 65.1, 65.2, 65.2 cents).

<sup>5</sup> Revised series.—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 issue of *EMPLOYMENT AND PAY ROLLS*.

<sup>6</sup> Not comparable with previously published figures. See table 8 for revised figures from January 1935 to February 1941.

<sup>7</sup> Indexes adjusted to 1935 census. Comparable series back to January 1929 presented in January 1938 issue of pamphlet.

<sup>8</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>9</sup> See table 7 of February 1941 pamphlet for revised figures for metalliferous mining from January 1938 to January 1941, inclusive.

<sup>10</sup> Average weekly earnings, hourly earnings, and hours not comparable with figures published in pamphlets prior to January 1938 as they now exclude corporation officers, executives, and other employees whose duties are mainly supervisory.

<sup>11</sup> Retail-trade indexes adjusted to 1935 census and public-utility indexes to 1937 census. Not comparable to indexes published in pamphlets prior to January 1940 or in the *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>12</sup> Covers street railways and trolley and motorbus operations of subsidiary, affiliated, and successor companies; formerly "electric-railroad and motorbus operation and maintenance."

<sup>13</sup> Indexes adjusted to 1933 census. Comparable series in November 1934 and subsequent issues of *EMPLOYMENT AND PAY ROLLS*.

<sup>14</sup> Cash payments only; additional value of board, room, and tips not included.

<sup>15</sup> Indexes of employment and pay rolls are not available; percentage changes from preceding month substituted.

<sup>16</sup> Not available.

<sup>17</sup> Less than  $\frac{1}{10}$  of 1 percent.

\*The indexes for "automobiles" have been adjusted to 1933 census figures, but not to later census figures because of problems involving integrated industries.

TABLE 8.—*Revised Employment, Pay Rolls, Hours, and Earnings in Aluminum Manufactures, January 1935 to February 1941, Inclusive*<sup>1</sup>

Year and month	Indexes (1923-25=100. Adjusted to preliminary 1939 cen- sus figures)		Average weekly earnings	Average hours worked per week	Average hourly earnings
	Employ- ment	Pay rolls			
1935					
January.....	113.0	86.9	\$19.47	36.8	Cents 54.5
February.....	120.5	98.1	20.81	39.0	53.8
March.....	124.6	102.4	21.25	39.5	53.8
April.....	125.6	103.0	21.25	39.4	53.9
May.....	125.6	102.0	20.91	38.8	53.9
June.....	124.4	98.4	20.34	37.7	53.9
July.....	123.0	91.7	18.90	34.6	54.6
August.....	124.5	101.2	21.08	39.1	53.9
September.....	129.3	106.1	21.35	39.1	54.5
October.....	134.0	114.1	22.28	41.2	54.1
November.....	134.1	115.3	22.47	40.7	54.7
December.....	132.8	114.8	22.58	41.0	54.5
Average.....	125.9	102.8	21.09	39.0	54.2
1936					
January.....	130.8	111.5	22.13	40.1	55.2
February.....	131.6	114.5	22.60	40.3	56.1
March.....	136.3	119.1	22.74	40.6	55.9
April.....	134.4	117.0	22.59	40.2	56.0
May.....	134.3	116.9	23.00	40.4	56.9
June.....	138.5	119.8	22.79	40.3	56.5
July.....	142.3	121.8	22.53	40.3	56.0
August.....	142.2	127.0	23.41	41.6	56.2
September.....	142.4	124.7	23.09	40.4	57.1
October.....	149.1	139.3	24.59	42.4	58.1
November.....	151.3	145.1	25.24	43.3	58.4
December.....	151.0	146.7	25.36	43.3	58.6
Average.....	140.3	125.3	23.52	41.3	57.0
1937					
January.....	152.4	146.8	24.99	41.5	60.2
February.....	156.5	156.9	25.92	43.4	59.7
March.....	157.6	166.2	27.24	43.6	62.5
April.....	158.2	166.0	27.05	42.6	63.5
May.....	159.2	172.7	28.03	42.2	66.6
June.....	159.4	168.2	27.23	40.2	67.9
July.....	160.4	165.2	26.53	39.0	68.1
August.....	162.1	174.1	27.68	40.8	67.9
September.....	162.0	168.4	26.69	39.2	68.2
October.....	129.5	144.4	28.41	40.3	70.7
November.....	155.7	162.4	26.57	38.9	68.4
December.....	145.2	142.9	25.04	36.3	69.0
Average.....	154.8	161.2	26.78	40.7	65.9
1938					
January.....	131.1	124.4	23.99	34.5	69.7
February.....	128.2	124.7	24.55	35.5	69.2
March.....	127.1	130.2	25.87	37.1	69.7
April.....	122.7	119.5	24.54	35.0	70.1
May.....	120.8	118.2	24.55	35.2	69.8
June.....	115.6	108.2	23.39	33.4	70.0
July.....	115.2	108.9	23.60	33.4	70.8
August.....	120.5	123.8	25.82	37.0	69.8
September.....	127.3	135.5	26.92	38.6	69.7
October.....	132.1	143.5	27.48	39.8	69.1
November.....	132.9	143.6	27.32	40.1	68.1
December.....	133.8	143.9	27.29	39.1	69.8
Average.....	125.6	127.0	25.50	36.7	69.6
1939					
January.....	134.2	143.3	27.03	38.5	70.2
February.....	141.3	153.4	27.42	39.6	69.3
March.....	147.9	160.2	27.36	39.6	69.1
April.....	150.7	163.2	27.33	39.4	69.4
May.....	148.5	159.4	27.10	39.1	69.2
June.....	148.4	161.2	27.41	39.0	70.1

<sup>1</sup> Average hours and earnings for months prior to November 1936 have not been revised but are shown for the convenience of the reader.

TABLE 8.—*Revised Employment, Pay Rolls, Hours, and Earnings in Aluminum Manufactures, January 1935 to February 1941, Inclusive—Continued*

Year and month	Indexes (1923-25=100. Adjusted to preliminary 1939 cen- sus figures)		Average weekly earnings	Average hours worked per week	Average hourly earnings
	Employ- ment	Pay rolls			
1939—Continued					
July.....	149.7	148.6	\$24.95	34.4	Cents 72.3
August.....	153.6	164.5	26.88	38.3	70.1
September.....	153.4	170.8	27.94	39.6	70.3
October.....	167.5	192.2	28.80	41.0	69.9
November.....	174.8	197.8	28.41	40.5	70.1
December.....	176.5	206.0	29.33	41.0	71.4
Average.....	153.9	168.4	27.55	39.2	70.1
1940					
January.....	176.8	200.6	28.46	39.6	71.6
February.....	178.4	204.0	28.69	40.1	71.4
March.....	180.0	205.5	28.62	39.9	71.7
April.....	178.4	207.7	29.17	40.3	72.4
May.....	180.2	210.3	29.25	40.2	72.8
June.....	182.2	211.5	29.08	40.0	72.7
July.....	186.5	200.6	26.90	36.6	73.4
August.....	195.2	232.9	29.94	40.4	74.2
September.....	200.6	248.1	30.88	41.4	74.6
October.....	209.7	259.6	30.97	41.7	74.2
November.....	217.5	270.2	31.04	41.7	74.5
December.....	218.0	276.8	31.70	42.3	74.9
Average.....	192.0	227.3	29.64	40.4	73.3
1941					
January.....	225.4	280.6	31.16	41.4	75.3
February.....	225.2	285.2	31.73	42.0	75.5

TABLE 9.—*Indexes of Employment and Pay Rolls in Fifty-five Additional Manufacturing Industries*

[12-month average 1939=100]

Industry	Employment			Pay rolls		
	March 1941	Febru- ary 1941	Janu- ary 1941	March 1941	Febru- ary 1941	Janu- ary 1941
Iron and steel group:						
Metal doors and shutters.....	125.5	121.1	121.0	135.5	129.9	124.2
Firearms.....	272.0	254.4	234.5	367.4	345.1	296.3
Screw-machine products.....	173.3	167.5	156.9	221.7	213.5	186.2
Wire, not made in rolling mills.....	133.3	130.9	127.1	154.8	147.8	142.2
Wrought pipe, not made in rolling mills.....	144.9	141.8	142.9	167.9	161.0	166.9
Steel barrels, kegs, and drums.....	108.1	111.7	113.6	126.7	127.7	130.6
Machinery group:						
Machine-tool accessories.....	190.7	180.2	167.3	235.6	219.4	194.2
Pumps.....	156.3	145.9	138.2	199.0	181.5	166.4
Refrigerators and refrigerating apparatus.....	147.7	140.5	132.1	173.8	160.4	144.9
Sewing machines.....	117.4	113.4	111.9	148.1	138.2	127.8
Washing machines, wringers, and driers.....	125.4	118.0	111.8	145.2	136.6	116.2
Transportation equipment group:						
Motorcycles, bicycles, and parts.....	133.6	123.7	117.2	143.6	130.7	120.5
Nonferrous metals group:						
Sheet-metal work.....	140.3	137.8	131.1	153.9	150.2	143.8
Smelting and refining of scrap metal.....	135.4	132.0	122.6	162.5	146.8	135.4
Lumber group:						
Caskets and morticians' goods.....	101.8	101.9	100.4	109.7	111.4	106.3
Wood preserving.....	116.6	112.7	107.0	135.8	126.6	118.4
Wood turned and shaped.....	116.3	114.0	110.7	130.7	127.1	117.2
Wooden boxes, other than cigar.....	115.7	116.0	114.5	129.1	124.4	120.5
Mattresses and bedsprings.....	114.5	110.9	107.7	125.7	119.1	111.3

TABLE 9.—*Indexes of Employment and Pay Rolls in Fifty-five Additional Manufacturing Industries—Continued*

Industry	Employment			Pay rolls		
	March 1941	February 1941	January 1941	March 1941	February 1941	January 1941
Stone, clay, and glass products group:						
Abrasive wheels.....	164.3	156.5	151.1	182.7	171.7	157.9
Asbestos products.....	115.8	109.8	105.5	138.2	129.6	119.1
Lime.....	111.8	108.9	107.9	120.8	116.9	120.2
Gypsum.....	109.2	108.0	107.0	112.8	114.3	112.6
Glass products made from purchased glass.....	130.2	133.8	133.6	142.4	135.7	134.2
Wallboard and plaster, except gypsum.....	122.2	120.9	119.4	136.5	132.6	131.5
Textiles:						
Textile bags.....	104.8	102.8	97.0	115.8	111.0	100.7
Cordage and twine.....	120.4	117.9	113.9	138.3	130.3	121.2
House furnishings:						
Curtains, draperies, and bedspreads.....	104.5	102.7	94.5	125.1	118.9	100.6
Other.....	128.8	122.5	116.2	143.0	135.8	126.7
Jute goods, except felt.....	113.5	106.4	106.4	136.5	121.4	115.5
Handkerchiefs.....	100.3	97.4	95.7	117.1	108.4	96.1
Leather group:						
Boot and shoe cut stock and findings.....	104.8	103.5	99.8	117.5	114.0	108.5
Leather gloves and mittens.....	130.1	125.3	121.9	156.6	146.4	133.6
Trunks and suitcases.....	131.7	137.1	129.0	131.1	136.0	130.2
Food group:						
Cereal preparations.....	100.3	94.8	94.8	107.3	98.3	99.3
Condensed and evaporated milk.....	102.6	99.9	96.6	107.9	104.5	99.0
Feeds, prepared.....	101.3	100.9	99.6	104.6	102.8	101.6
Paper and printing group:						
Paper bags.....	105.5	103.5	100.5	117.6	114.3	111.0
Envelopes.....	111.0	107.5	105.2	116.7	113.0	106.8
Paper goods, not elsewhere classified.....	115.5	112.9	110.0	123.8	118.2	113.6
Bookbinding.....	103.7	104.3	101.9	121.8	117.5	113.5
Lithographing.....	96.6	96.4	96.1	106.1	98.4	99.4
Chemical, petroleum, and coal products group:						
Ammunition.....	293.5	278.0	245.8	322.7	288.3	241.1
Compressed and liquefied gases.....	133.1	128.0	124.1	162.9	143.9	136.1
Perfumes and cosmetics.....	90.3	90.2	86.8	91.0	89.0	85.8
Coke-oven products.....	118.5	119.0	120.4	123.2	122.1	123.3
Paving materials.....	86.4	83.8	88.8	93.7	87.8	93.6
Roofing materials.....	115.9	105.9	102.6	126.1	112.1	101.3
Miscellaneous group:						
Chemical fire extinguishers.....	218.4	210.6	202.1	279.9	263.7	251.6
Buttons.....	111.5	111.2	108.3	127.8	125.5	118.3
Instruments, professional, scientific, and commercial.....	161.0	152.7	147.9	192.9	180.5	172.2
Optical goods.....	149.8	143.9	138.1	165.2	154.8	143.1
Photographic apparatus.....	110.6	109.0	108.4	120.8	115.8	111.9
Pianos, organs, and parts.....	121.5	122.0	120.9	127.0	125.7	121.7
Toys, games, and playground equipment.....	111.4	102.6	83.5	117.0	104.2	82.5

TABLE 10.—*Indexes of Employment and Pay Rolls in Selected Manufacturing<sup>1</sup> and Non-manufacturing<sup>2</sup> Industries, March 1940 to March 1941*

Industry	1940												1941		
	Av.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	
Employment															
Manufacturing															
All industries..	107.5	104.4	103.2	102.5	103.1	103.2	107.4	111.4	113.8	114.6	116.2	115.5	117.8	119.9	
Durable goods <sup>3</sup> ..	104.3	99.1	98.7	99.2	99.8	98.4	102.4	108.2	112.8	115.5	117.6	118.3	121.0	123.7	
Nondurable goods <sup>4</sup> ..	110.6	109.5	107.5	105.6	106.2	107.8	112.2	114.4	114.8	113.8	114.8	112.7	114.7	116.3	
Nonmanufacturing															
Anthracite mining <sup>5</sup> ..	50.7	52.2	51.2	51.8	49.7	50.5	49.9	49.8	49.4	50.4	50.8	50.3	50.6	50.2	
Bituminous-coal mining <sup>5</sup> ..	88.0	89.7	86.2	85.1	83.8	84.9	86.6	87.7	89.2	89.8	90.1	90.2	90.6	91.4	
Metalliferous mining <sup>6</sup> ..	69.9	66.2	67.7	69.2	70.3	71.0	71.5	72.5	72.6	72.5	72.2	72.5	73.4	74.0	
Quarrying and nonmetallic mining.....	45.3	41.0	44.5	46.9	47.9	48.1	48.5	48.9	48.8	47.2	45.4	41.7	42.4	44.1	
Crude-petroleum production.....	62.9	63.2	63.1	63.3	63.8	63.7	63.6	63.0	62.4	61.3	60.7	60.5	60.5	60.5	
Telephone and telegraph <sup>7</sup> ..	77.9	76.0	76.7	77.3	77.8	78.8	79.0	78.9	79.1	79.2	79.7	80.4	80.9	81.8	
Electric light and power <sup>7</sup> ..	91.1	89.3	90.0	90.6	91.2	92.2	93.0	92.7	92.3	91.8	91.3	90.5	90.1	90.4	
Street railways and busses <sup>7,8</sup> .....	68.5	68.2	68.3	68.4	68.5	68.4	68.4	68.5	68.7	68.7	68.4	68.3	68.0	68.3	
Wholesale trade.....	90.4	90.5	89.3	88.9	89.6	89.2	90.1	90.9	91.0	91.8	92.5	91.2	91.4	91.7	
Retail trade.....	92.3	91.1	89.8	91.2	91.9	89.1	88.7	92.8	94.3	96.3	108.1	90.5	90.7	92.1	
Year-round hotels <sup>5</sup> .....	92.0	92.0	92.7	93.4	92.0	90.3	90.3	91.6	93.4	92.3	92.6	92.9	93.9	94.3	
Laundries <sup>5</sup> .....	99.5	96.2	97.2	99.1	102.1	102.5	102.8	101.9	100.2	99.7	100.3	101.4	101.1	102.6	
Dyeing and cleaning <sup>5</sup> .....	104.7	99.5	104.5	108.7	112.6	108.2	106.7	110.0	109.4	106.0	103.3	101.0	101.4	104.4	
Pay rolls															
Manufacturing															
All industries..	105.4	99.8	97.9	97.8	99.5	98.2	105.5	111.6	116.2	116.4	122.4	120.7	126.9	131.2	
Durable goods <sup>3</sup> ..	107.8	98.7	98.4	98.7	101.4	97.4	106.5	115.1	123.4	125.1	131.6	132.0	139.3	144.5	
Nondurable goods <sup>4</sup> ..	102.7	101.0	97.3	96.8	97.4	99.1	104.4	107.7	108.1	106.6	112.1	108.1	112.9	116.3	
Nonmanufacturing															
Anthracite mining <sup>5</sup> ..	38.5	38.4	36.3	40.0	40.6	36.5	33.1	39.3	32.3	37.6	42.7	38.5	45.2	42.4	
Bituminous-coal mining <sup>5</sup> ..	81.2	78.3	72.2	75.3	73.9	75.2	82.5	83.2	83.6	84.5	91.4	87.8	90.8	95.0	
Metalliferous mining <sup>6</sup> ..	66.7	63.1	63.4	65.7	65.3	63.6	68.5	69.5	71.3	69.8	72.8	70.4	71.8	72.7	
Quarrying and nonmetallic mining.....	40.5	34.1	38.1	42.7	43.9	43.5	45.2	46.2	46.7	42.3	42.4	36.9	38.2	40.2	
Crude-petroleum production.....	58.2	58.4	59.0	58.7	58.8	59.1	59.0	58.2	57.6	56.8	55.9	56.2	57.6	56.8	
Telephone and telegraph <sup>7</sup> ..	100.2	98.1	98.7	98.8	100.0	101.3	100.4	101.8	102.2	103.2	103.5	103.9	104.3	106.8	
Electric light and power <sup>7</sup> ..	104.8	102.3	103.3	104.2	104.8	105.8	108.1	105.8	107.0	106.9	106.0	105.1	105.4	106.8	
Street railways and busses <sup>7,8</sup> .....	70.4	69.5	69.2	69.2	70.5	70.0	70.4	71.5	70.7	70.3	73.1	70.7	71.0	72.8	
Wholesale trade.....	79.0	77.8	77.4	77.4	78.4	78.3	78.7	81.1	80.2	80.7	83.4	80.5	81.4	82.2	
Retail trade.....	84.2	82.0	82.3	83.4	84.8	82.6	81.5	85.1	85.8	87.1	97.3	83.7	84.6	86.3	
Year-round hotels <sup>5</sup> .....	82.4	81.8	83.2	83.0	82.0	80.5	80.7	81.8	84.2	83.6	84.1	84.1	86.1	86.2	
Laundries <sup>5</sup> .....	87.7	84.1	85.6	88.5	92.4	90.0	90.5	89.9	88.0	87.2	89.2	89.8	89.7	90.8	
Dyeing and cleaning <sup>5</sup> .....	78.2	72.7	79.6	85.4	89.6	80.0	78.9	85.6	82.4	77.8	75.8	73.3	74.4	76.9	

<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 and 6.

<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 February and March 1941 is made in table 11 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 11.—*Comparison of Employment and Pay Rolls in Identical Establishments in February and March, 1941 by Principal Metropolitan Areas*

Metropolitan area	Number of establishments	Number on pay roll, March	Percentage change from February	Amount of pay roll (1 week) March	Percentage change from February
New York <sup>1</sup>	13, 818	793, 518	+2.1	\$24, 013, 763	+3.4
Chicago <sup>2</sup>	4, 346	509, 466	+ .5	15, 232, 190	+1.1
Philadelphia <sup>3</sup>	2, 485	273, 920	+1.4	8, 174, 909	+2.5
Detroit	1, 634	304, 213	+1.2	11, 721, 379	+1.5
Los Angeles <sup>4</sup>	2, 856	221, 544	+3.1	6, 959, 510	+3.8
Cleveland	1, 316	162, 799	+2.9	5, 454, 492	+4.5
St. Louis	1, 400	154, 373	+2.0	4, 101, 981	+3.0
Baltimore	1, 112	135, 637	+2.6	3, 913, 785	+3.4
Boston <sup>5</sup>	3, 009	208, 418	+2.2	5, 866, 950	+3.5
Pittsburgh	1, 362	240, 021	+ .8	7, 944, 035	+2.9
San Francisco <sup>6</sup>	1, 760	102, 935	+2.5	3, 370, 835	+3.4
Buffalo	792	107, 740	+4.0	3, 429, 414	+5.3
Milwaukee	976	118, 956	+2.4	3, 791, 848	+3.8

<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 March 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 industry, 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 nonmanufacturing industries.



TABLE 12.—*Wage-Rate Increases Reported by Manufacturing and Nonmanufacturing Establishments During Month Ending Mar. 15, 1941*<sup>1 2</sup>

Group and industry	Establishments		Employees		Average percentage change in wage rates of employees having increase
	Total number reporting	Number reporting increase	Total number covered	Number having increase	
All manufacturing.....	33,900	296	6,826,322	109,041	6.7
Iron and steel group.....	2,574	47	989,717	19,216	6.9
Blast furnaces.....	349	5	531,220	4,369	5.6
Plumbers' supplies.....	104	3	27,663	1,391	8.0
Stamped and enameled ware..	233	8	45,141	1,634	4.6
Steam fittings.....	110	4	39,102	2,562	5.3
Stoves.....	240	4	37,467	1,326	8.0
Tin cans.....	133	3	27,806	464	5.5
Tools.....	131	4	19,457	751	6.8
Wirework.....	156	3	28,775	1,286	5.2
Machinery group.....	3,811	105	1,040,444	16,869	6.6
Electrical machinery.....	578	15	288,942	7,477	5.8
Engines.....	70	4	72,485	1,228	8.9
Foundries.....	2,236	65	335,381	4,328	7.7
Machine tools.....	198	5	83,506	262	5.4
Radios.....	74	3	43,845	2,820	7.8
Textile machinery.....	126	3	22,205	93	10.1
Transportation group.....	770	13	824,526	8,374	9.4
Automobiles.....	415	7	478,578	4,560	9.1
Nonferrous group.....	1,102	24	242,032	5,116	6.8
Brass, bronze, and copper products..	287	13	77,281	3,225	6.3
Lumber group.....	2,719	38	355,622	6,399	6.6
Furniture.....	719	6	105,590	2,942	5.7
Millwork.....	579	12	39,092	1,887	5.5
Sawmills.....	770	6	132,379	528	6.8
Stone group.....	1,621	26	216,307	9,198	3.5
Brick.....	545	4	42,796	263	4.9
Glass.....	151	7	68,882	6,690	2.3
Pottery.....	132	4	33,092	1,093	7.6
Textiles and their products:					
Fabrics.....	3,545	36	1,017,406	18,594	6.7
Cotton goods.....	828	8	421,671	7,014	7.3
Silk and rayon.....	420	3	59,195	406	6.8
Woolen and worsted goods..	416	9	157,054	1,662	7.6
Wearing apparel.....	3,085	9	353,026	1,574	5.3
Leather group.....	1,082	7	245,677	3,611	4.1
Food group.....	5,417	25	424,232	7,996	8.6
Beverages.....	640	4	39,359	115	12.2
Canning.....	935	4	43,020	6,483	8.6
Slaughtering and meat packing..	342	3	113,996	556	6.7
Tobacco group.....	231		70,088		
Paper group.....	4,073	26	392,115	2,785	5.2
Paper boxes.....	678	3	46,056	170	5.1
Paper and pulp.....	441	4	135,151	1,074	6.0
Printing:					
Book and job.....	1,626	10	84,678	1,240	4.7
Newspapers.....	745	6	65,083	152	3.3
Chemical group.....	2,358	25	353,236	6,060	8.0
Chemicals.....	242	6	70,877	4,496	8.2
Paints and varnishes.....	526	12	24,127	818	6.9
Rubber group.....	256	6	127,129	1,712	5.4
Rubber goods, other.....	204	5	49,904	1,699	5.4
Miscellaneous group.....	1,256	9	174,715	1,537	5.8
All nonmanufacturing (except building construction) ..	394,425	743	2,918,431	5,705	5.4
Metalliferous mining.....	361	7	67,939	631	5.1
Quarrying and nonmetallic mining..	1,099	3	34,284	435	10.7
Electric light and power.....	2,847	18	246,213	2,207	4.9
Wholesale trade.....	15,157	12	338,068	229	12.3
Retail trade.....	54,127	15	984,738	130	11.6
Laundries.....	1,374	5	83,579	188	6.7
Brokerage.....	1,314	5	19,721	18	7.7
Insurance.....	2,684	3	124,160	19	5.0

<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," in "all nonmanufacturing," and in the various industry groups.

<sup>2</sup> No decreases reported.

<sup>3</sup> 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 February and March 1941 are given in table 13.

**TABLE 13.—Employment and Pay Rolls for the Executive Service of the United States Government, March 1941<sup>1</sup>**

[Subject to revision]

Class	Employment			Pay rolls		
	March 1941	February 1941	Percent-age change	March 1941	February 1941	Percent-age change
Entire service:						
Total.....	1, 202, 348	1, 173, 663	+2. 4	\$184, 244, 306	\$175, 644, 562	+4. 9
Regular appropriation.....	1, 022, 024	993, 216	+2. 9	157, 058, 608	150, 726, 776	+4. 2
Emergency appropriation.....	48, 056	48, 565	-1. 0	6, 536, 796	6, 616, 192	-1. 2
Force-account.....	132, 268	131, 882	+ . 3	20, 648, 902	18, 301, 594	+12. 8
Inside the District of Columbia:						
Total.....	167, 081	161, 527	+3. 4	28, 478, 887	27, 201, 377	+4. 7
Regular appropriation.....	150, 058	144, 763	+3. 7	25, 356, 347	24, 353, 626	+4. 1
Emergency appropriation.....	7, 394	7, 510	-1. 5	1, 157, 920	1, 175, 337	-1. 5
Force-account.....	9, 629	9, 254	+4. 1	1, 964, 620	1, 672, 414	+17. 6
Outside the District of Columbia:						
Total.....	1, 035, 267	1, 012, 136	+2. 3	155, 765, 419	148, 443, 185	+4. 9
Regular appropriation.....	871, 966	848, 453	+2. 8	131, 702, 261	126, 373, 150	+4. 2
Emergency appropriation.....	40, 662	41, 055	-1. 0	5, 378, 876	5, 440, 855	-1. 1
Force-account.....	122, 639	122, 628	( <sup>2</sup> )	18, 684, 282	16, 629, 180	+12. 4

<sup>1</sup> Data relate to the last pay period of the month.

<sup>2</sup> Increase less than  $\frac{1}{10}$  of 1 percent.

### INSOLVENT NATIONAL BANK DIVISION OF THE TREASURY DEPARTMENT, FEDERAL RESERVE BANKS, AND GOVERNMENT OR GOVERNMENT-OWNED CORPORATIONS

Semiannually the Civil Service Commission collects data for the Insolvent National Bank Division of the Treasury Department, Federal Reserve Banks, and Government or Government-owned corporations. Employees of these agencies are not paid directly by the Federal Government.

Employment and pay rolls for these agencies are shown in table 14.

**TABLE 14.—Employment and Pay Rolls in Government Corporations and Government-Owned Corporations**

Establishment or corporation	Number employees <sup>1</sup>		Total pay roll	
	December 1940	June 1940	6-month period ending Dec. 31, 1940	6-month period ending June 30, 1940
Total	26, 937	26, 387	\$22, 756, 307	\$21, 576, 006
Treasury:				
Office of the Comptroller of Currency:				
Division of Insolvent National Banks	243	253	304, 539	311, 219
Legal Division	52	55	70, 346	75, 351
War: Spruce Production Corporation	4	4	8, 790	8, 790
Agriculture:				
Farm Credit Administration:				
Banks for Cooperatives	204	209	300, 725	300, 878
Federal intermediate credit banks	430	427	535, 655	535, 155
Federal land banks <sup>2</sup>	4, 560	4, 386	4, 503, 248	3, 986, 341
General agents' offices	419	419	528, 813	515, 885
Joint stock land banks	451	495	557, 907	592, 807
Production Credit Corporation	301	291	452, 225	435, 763
Commerce: Inland Waterways Corporation	2, 527	3, 212	2, 095, 049	1, 967, 214
Federal Deposit Insurance Corporation:				
National Receivership Trust Funds	28	32	20, 542	28, 027
State receivership trust funds	46	70	40, 240	52, 228
Federal Reserve banks	11, 640	11, 473	10, 398, 674	10, 172, 113
Panama Canal: Panama Railroad Co. <sup>3</sup>	6, 032	5, 061	2, 939, 564	2, 694, 235

<sup>1</sup> Data on the number of employees refer to employees on the pay roll with pay during the last pay period of the month.

<sup>2</sup> Includes land-bank appraisers and their pay rolls.

<sup>3</sup> Includes the Panama Railroad Steamship Line which is owned and operated by the Panama Railroad Co.

### CONSTRUCTION PROJECTS FINANCED BY THE PUBLIC WORKS ADMINISTRATION

Details concerning employment, pay rolls, and man-hours worked during March on construction projects financed from Public Works Administration funds are given in table 15, by type of project.

**TABLE 15.—Employment and Pay Rolls on Projects Financed From Public Works Administration Funds, March 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	11, 391	10, 043	\$1, 360, 442	1, 413, 729	\$0. 962	\$1, 698, 993
Federal projects financed from National Industrial Recovery Act funds						
All projects	<sup>3</sup> 209	191	\$19, 870	29, 972	\$0. 663	\$21, 334
Building construction	62	53	7, 217	5, 806	1. 243	5, 804
Naval vessels	0	0	0	0	0	2, 718
Public roads <sup>4</sup>	( <sup>5</sup> )	60	4, 222	9, 871	. 428	8, 000
Reclamation	67	65	8, 034	12, 212	. 658	1, 573
Water and sewerage	20	13	397	2, 083	. 191	3, 239

See footnotes at end of table.

TABLE 15.—*Employment and Pay Rolls on Projects Financed From Public Works Administration Funds, March 1941*<sup>1</sup>—Continued

Type of project	Employment		Monthly payrolls	Man-hours worked during month	Average earnings per hour	Value of material orders placed during month
	Maximum <sup>2</sup>	Weekly average				
Federal projects financed from Public Works Administration Appropriation Act 1938 funds						
All projects.....	1,474	1,364	\$181,751	201,668	\$0.901	\$209,124
Airport construction (exclusive of buildings).....	230	230	25,530	33,326	.766	24,313
Building construction.....	441	406	48,719	42,998	1.133	109,590
Reclamation.....	775	706	104,465	122,887	.850	75,175
River, harbor, and flood control.....	0	0	0	0	0	46.
Streets and roads.....	1	1	242	160	1.513	0
Miscellaneous.....	12	12	905	1,155	.784	0.
Professional, technical, and clerical.....	15	9	1,890	1,142	1.655	0
Non-Federal projects financed from National Industrial Recovery Act funds						
All projects.....	98	83	\$4,578	6,847	\$0.669	\$10,164
Building construction.....	19	13	451	325	1.388	0
Railroads.....	21	21	10	21	.476	0
Miscellaneous.....	58	49	4,117	6,501	.633	10,164
Non-Federal projects financed from Emergency Relief Appropriation Act 1935, 1936, and 1937 funds						
All projects.....	3,039	2,795	\$334,173	515,161	\$0.649	\$370,230.
Building construction.....	84	67	7,486	4,859	1.541	2,007
Electrification.....	250	226	22,514	26,154	.861	34,049
Heavy engineering.....	2,659	2,457	296,347	477,217	.621	290,307
Water and sewerage.....	46	45	7,826	6,931	1.129	3,743
Miscellaneous.....	0	0	0	0	0	40,124
Non-Federal projects financed from Public Works Administration Appropriation Act 1938 funds						
All projects.....	6,571	5,610	\$820,070	660,081	\$1.242	\$1,088,141
Building construction.....	1,786	1,505	237,216	163,698	1.449	279,083
Electrification.....	325	268	50,038	33,591	1.490	147,516
Heavy engineering.....	2,851	2,510	366,996	314,822	1.166	381,194
Streets and roads.....	363	279	26,965	25,342	1.064	18,673
Water and sewerage.....	1,246	1,048	138,855	122,628	1.132	148,273
Miscellaneous.....	0	0	0	0	0	113,402

<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 the Public Roads Administration.

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

<sup>6</sup> Includes data for workers engaged in construction of underground tunnel who, because of the additional risk involved, were paid at rates higher than those usually paid for building construction.

### UNITED STATES HOUSING AUTHORITY

Table 16 shows data concerning employment, pay rolls, and man-hours worked in March 1941 on low-rent projects of the United States Housing Authority.

**TABLE 16.—Employment and Pay Rolls on Low-Rent Housing Projects Operated by the United States Housing Authority, March 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..	36,989	31,801	\$3,485,089	3,696,167	\$0.943	\$6,222,615
New England.....	2,730	2,326	306,528	290,828	1.054	629,281
Middle Atlantic.....	4,227	3,688	541,436	390,557	1.386	947,712
East North Central...	5,382	4,679	629,198	542,044	1.161	928,045
West North Central...						781
South Atlantic...	12,295	10,644	1,005,785	1,226,995	.820	1,589,904
East South Central...	3,233	2,674	230,491	300,640	.767	480,121
West South Central...	5,653	4,875	480,598	583,332	.824	1,089,346
Mountain.....	553	482	64,863	57,582	1.126	156,065
Pacific.....	1,780	1,451	190,199	160,799	1.183	357,419
Outside continental United States...	1,136	982	35,991	143,390	.251	43,941

### WORK PROJECTS ADMINISTRATION PROGRAM

A record of employment, pay rolls, and man-hours worked in March on projects financed by the Work Projects Administration is shown in table 17, by type of project.

**TABLE 17.—Employment and Pay Rolls on Projects Financed by the Work Projects Administration, March 1941**

[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.	Projects operated by Work Projects Administration <sup>2</sup>					
	1, 708, 658	\$95, 910, 162	213, 754, 441	\$0. 449	( <sup>2</sup> )	
	Projects operated by other Federal agencies					
All projects.	58, 950	56, 589	\$2, 647, 479	6, 317, 640	\$0. 419	\$564, 058
Airport construction (exclusive of buildings) <sup>4</sup> .....	8, 421	8, 414	131, 678	690, 794	. 191	14, 484
Building construction.....	25, 081	23, 106	1, 328, 943	2, 730, 321	. 487	362, 951
Forestry.....	6, 219	6, 217	246, 298	610, 451	. 403	31, 108
Grade-crossing elimination <sup>5</sup> .....	116	99	11, 332	14, 103	. 804	2, 541
Hydroelectric power plants <sup>4</sup> .....	1, 250	1, 212	55, 731	214, 222	. 260	55, 511
Plant, crop, and livestock conservation.....	6, 091	6, 035	326, 448	705, 182	. 463	27, 975
Professional, technical and clerical.....	2, 038	1, 996	130, 635	226, 175	. 578	14, 146
Public roads <sup>5</sup> .....	59	45	1, 843	4, 602	. 400	0
Reclamation.....	8, 724	8, 571	377, 066	1, 016, 282	. 371	31, 956
River, harbor, and flood control.....	35	34	2, 640	4, 189	. 630	0
Streets and roads.....	473	443	21, 072	49, 722	. 424	1, 308
Water and sewerage.....	266	255	7, 447	30, 256	. 246	21, 736
Miscellaneous.....	177	162	6, 346	21, 341	. 297	342

<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 April issue of this publication.

<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 March on each type of project operated by the Work Projects Administration were not available when this report was prepared. The figures for February are presented in table 18.

**TABLE 18.—Employment and Pay Rolls on Projects Operated by the Work Projects Administration, by Type of Project, February, 1941**

[Subject to revision]

Type of project	Employment <sup>1</sup>	Pay-roll disbursements	Man-hours worked	Average earnings per hour
All projects.....	1, 836, 995	\$92, 445, 040	207, 731, 931	\$0. 445
Conservation.....	51, 444	2, 532, 062	5, 806, 876	. 436
Highways, roads, and streets.....	694, 494	30, 999, 082	76, 581, 660	. 405
Professional and service, excluding sewing..	365, 620	21, 125, 830	43, 129, 766	. 490
Public buildings <sup>2</sup> .....	152, 495	8, 301, 879	17, 201, 564	. 483
Publicly owned or operated utilities..	209, 450	10, 836, 688	23, 484, 412	. 461
Recreational facilities <sup>3</sup> ..	73, 491	4, 116, 712	8, 424, 802	. 489
Sanitation.....	23, 885	1, 122, 230	2, 672, 451	. 420
Sewing.....	130, 447	6, 021, 999	15, 104, 557	. 399
Airports and airways.....	60, 630	2, 707, 807	6, 365, 121	. 425
Not elsewhere classified—Total...	75, 039	4, 680, 751	8, 960, 722	. 522
National defense vocational training.....	30, 944	1, 686, 145	3, 636, 468	. 464
Other...	44, 095	2, 994, 606	5, 324, 254	. 562

<sup>1</sup> Data for "All projects" represent the average of the weekly employment counts made as of each Wednesday during the calendar month. The distribution by type of project is, except for "National defense vocational training," estimated on the basis of employment on Feb. 26, 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 February and March 1941 are shown in table 19.

**TABLE 19.—Employment and Pay Rolls on National Youth Administration Projects, March and February 1941**

[Subject to revision]

Type of project	Employment		Pay rolls	
	March	February	March	February
Total..	938, 700	948, 985	\$12, 306, 236	\$12, 465, 580
Student work program.....	473, 417	460, 587	3, 300, 411	3, 175, 708
Out-of-school work program..	465, 283	488, 398	9, 005, 825	9, 289, 872

#### CIVILIAN CONSERVATION CORPS

Employment and pay rolls in the Civilian Conservation Corps in February and March 1941 are presented in table 20.

**TABLE 20.—Employment and Pay Rolls in the Civilian Conservation Corps, March 1941<sup>1</sup>**

[Subject to revision]

Group	Employment		Pay rolls	
	March 1941	February 1941	March 1941	February 1941
All groups.....	282,896	312,082	\$12,830,524	\$13,730,562
Enrolled personnel <sup>2</sup> .....	248,603	277,935	7,727,166	8,646,744
Nurses <sup>3</sup> .....	136	145	18,836	19,375
Educational advisers <sup>3</sup> .....	1,521	1,521	258,764	269,469
Supervisory and technical <sup>3</sup> .....	32,636	32,481	4,825,758	4,794,974

<sup>1</sup> Employment figure is monthly average for enrolled personnel, and number employed on last day of month for other groups.

<sup>2</sup> March data include 3,560 enrollees and pay roll of \$76,087 outside continental United States; in February the corresponding figures were 3,924 enrollees and pay roll of \$85,799.

<sup>3</sup> Included in executive service, table 13.

### 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 March are presented in table 21, by type of project.

**TABLE 21.—Employment and Pay Rolls on Projects Financed by the Reconstruction Finance Corporation, by Type of Project, March 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.....	6,011	\$772,227	672,578	\$1.148	\$2,765,199
Building construction <sup>3</sup> .....	5,664	727,728	628,949	1.157	2,629,086
Streets and roads.....	11	509	466	1.092	.....
Water and sewerage.....	196	28,057	31,339	.995	78,204
Heavy engineering.....	140	15,933	11,824	1.348	59,909

<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 318 employees; pay-roll disbursements of \$27,257; 26,031 man-hours worked; and material orders placed of \$76,065 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 March 1941 are given in table 22, by type of project.

**TABLE 22.—Employment and Pay Rolls on Construction Projects Financed From Regular Federal Appropriations, by Type of Project, March 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 projects.....	850,679	763,488	\$109,995,226	123,823,610	\$0.888	\$178,412,585
Airport construction...	37,489	35,850	4,836,986	5,246,261	.922	7,200,823
Building construction...	537,941	463,454	68,241,024	74,820,697	.912	88,924,508
Electrification:						
Rural Electrification Administration projects <sup>4</sup> .....	9,852	8,113	501,305	975,328	.514	3,013,023
Other than R. E. A. projects...	1,019	894	126,373	120,722	1.047	522,271
Forestry.....	1	1	145	176	.824	—
Heavy engineering...	69	69	10,401	7,009	1.484	244,491
Public roads <sup>5</sup> .....	( <sup>6</sup> )	31,167	2,779,663	4,311,918	.645	3,566,882
Reclamation.....	24,177	23,718	3,445,951	3,680,277	.936	5,837,915
River, harbor, and flood control:						
Dredging, dikes, revetments, etc.....	22,937	20,784	2,442,792	3,187,674	.766	3,543,591
Locks and dams...	4,780	4,365	500,767	667,319	.840	1,512,813
Ship construction:						
Naval vessels.....	123,897	119,903	21,583,393	23,009,628	.938	55,193,227
Other than naval vessels...	35,611	34,218	4,379,920	5,167,511	.848	5,801,978
Streets and roads.....	2,297	2,159	208,817	293,650	.711	318,809
Water and sewerage...	1,594	1,351	114,895	152,458	.754	204,276
Miscellaneous.....	17,848	17,442	762,794	2,182,982	.349	2,527,978

<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 March 1941, compared with February 1941, and March 1940, is presented in table 23.

**TABLE 23.—Employment and Pay Rolls on Construction and Maintenance of State Roads March 1941, February 1941 and March 1940 <sup>1</sup>**

[Subject to revision]

Item	Employment <sup>2</sup>			Pay rolls		
	March 1941	February 1941	March 1940	March 1941	February 1941	March 1940
Total.....	125,648	121,385	126,934	\$10,181,296	\$9,472,531	\$9,728,964
New roads.....	24,113	21,882	22,625	1,754,134	1,592,535	1,596,484
Maintenance.....	101,535	99,503	104,309	8,427,162	7,879,996	8,132,480

<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 24 shows the value of material orders placed on construction projects financed by Federal funds in the first 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 June pamphlet.

In the first quarter of 1941 on construction projects financed from regular Federal appropriations, orders were placed for materials valued at approximately \$576,699,000. Of this amount \$155,458,000 was expended for iron and steel products, \$243,424,000 for machinery, \$21,619,000 for cement and concrete products, and \$67,992,000 for forest products. Of the \$19,843,000 of material orders placed on the United States Housing Authority program, \$6,816,000 was for iron and steel products, \$2,541,000 for machinery, \$2,042,000 for cement and concrete products, and \$2,271,000 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 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.

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 Manufacturers, 1937.

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

TABLE 24.—Value of Material Orders Placed on Construction Projects Financed by Federal Funds for the First Quarter of 1941

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.....	\$6,662,758	\$19,842,884	\$6,134,407	\$576,698,550	\$2,210,234
Textiles and their products.....	38,061	81,051	329	969,834	1,561
Awnings, tents, canvas, etc.....	760	1,894	151	153,801	41
Carpets and rugs.....					
Cordage and twine.....	1,435	119	1	65,813	478
Cotton products.....				349,617	90
Felt products.....	1	442	47	5,690	
Jute products.....		263		1,549	
Linoleum and asphalted-felt-base floor covering.....	4,971	76,710	75	110,692	190
Sacks and bags, other than paper.....	68			7,491	
Upholstering, filling, batting, padding, and wadding.....				24,485	
Waste and related products.....	69	718		5,912	91
Textiles and their products, n. e. c.....	30,757	905	55	244,784	671
Forest products.....	312,022	2,270,983	181,500	67,991,782	351,571
Cork products.....	1,014	946	33	247,347	178
Furniture and related products.....	112,540	98,743	4,651	5,286,186	7,534
Lumber and timber products, n. e. c.....	167,754	1,144,290	166,897	47,865,406	220,984
Planing-mill products.....	28,333	982,344	9,903	14,498,618	123,069
Window and door screens and weatherstrip.....	2,381	38,768	16	4,185	
Forest products, n. e. c.....		5,892		89,980	6
Chemicals and allied products.....	62,448	228,053	19,751	4,233,665 <sup>v</sup>	54,70
Ammunition and related products.....					
Compressed and liquefied gases.....	11,715	1,780	850	111,716	2,134
Explosives.....	34,666	66	3	754,700	2,672
Paints, pigments, and varnishes.....	13,635	221,466	18,888	3,254,550	45,591
Chemicals and allied products, n. e. c.....	2,432	4,741	10	112,699	4,312
Stone, clay, and glass products.....	1,530,399	4,843,985	822,911	50,024,261	349,452
Asbestos products, n. e. c.....	2,826	12,047		336,870	1,915
Brick, hollow tile, and other clay products, n. e. c.....	114,474	1,358,983	419,748	3,686,109	12,247
Cement.....	505,205	495,175	116,709	14,875,335	150,484
Concrete products.....	99,663	1,547,011	195,847	6,743,419	47,568
Crushed stone.....	29,043		11,323	5,719,068	67,995
Glass.....	27,812	128,809	24,242	832,424	7,555
Lime.....	1,313	92,319	13	29,285	311
Marble, granite, slate, and other stone, cut and shaped.....	93,854	38,695	10,581	1,663,028	1,337
Minerals and earths, ground or otherwise treated.....		3		24,326	
Sand and gravel.....	387,593	371,897	9,537	8,294,654	43,471
Steam and other packing, pipe and boiler covering, and gaskets.....	23,606	87,486	33	312,535	85
Tiling, floor and wall, and terrazzo.....	207,124	105,333	4,259	780,435	7,462
Wall plaster, wallboard, and building insulation.....	33,821	528,521	16,008	6,597,137	8,723
Stone, clay, and glass products, n. e. c.....	4,065	78,206	14,611	129,636	299
Iron and steel and their products, not including machinery.....	1,633,985	6,816,378	3,039,919	155,457,642	559,046
Bolts, nuts, washers, and rivets.....	19,338	2,890	11,222	2,941,532	6,089
Doors, shutters, window sash and frames, molding and trim, metal.....	202,739	601,575	41,614	6,364,440	5,083
Firearms.....					
Forgings, iron and steel.....	12,609	244	10,958	10,232,932	1,872
Hardware, miscellaneous.....	52,724	353,715	17,007	3,256,254	47,151
Heating and ventilating equipment, except pipe.....	142,108	951,079	75,636	18,018,990	14,203
Nails and spikes.....	8,539	6,065	3,884	1,275,559	13,601
Pipe and fittings, cast-iron.....	52,606	533,906	1,773	8,437,611	49,371
Pipe and fittings, wrought-iron and steel.....	85,594	320,318	168,367	16,830,231	16,403
Plumbing fixtures and supplies, except pipe.....	72,392	995,936	21,627	9,434,769	111,174
Rail fastenings, except spikes.....			2,780	6,688	
Rails, steel.....	312		7,777	564,843	192
Springs, steel.....					
Steel, reinforcing.....	401,778	1,071,650	86,951	7,077,860	47,756
Steel, structural.....	334,447	473,933	2,392,334	29,316,117	176,421
Stoves and ranges, other than electric.....	3,628	720,854	293	29,651	
Switches, railway.....					

See footnotes at end of table.

TABLE 24.—*Value of Material Orders Placed on Construction Projects Financed by Federal Funds for the First Quarter of 1941—Continued*

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>
Iron and steel and their products, not including machinery—Continued.					
Tools, other than machine tools.	\$29,404	\$5,339	\$17,787	\$4,007,685	\$13,309
Wire and wireworks products.	44,279	73,677	11,234	5,174,670	10,344
Iron and steel and their products, n. e. c.	171,488	705,197	168,675	32,487,810	46,077
Nonferrous metals and their products.	75,816	689,022	43,942	5,876,954	24,630
Aluminum products.	299	1,098		563,379	
Copper products.	21,425	1,783	33,240	1,223,337	1,443
Lead products.	371	4,927		170,320	9
Sheet-metal products.	35,670	232,826	3,957	3,627,633	23,049
Zinc products.					
Nonferrous metals and their products, n. e. c.	18,051	448,388	6,745	292,285	129
Machinery, not including transportation equipment.	2,158,412	2,541,248	1,688,845	243,423,627	260,624
Electrical machinery, apparatus, and supplies.	1,432,738	57,595	302,099	51,197,439	21,938
Electrical wiring and fixtures.	282,909	1,157,890	49,403	23,274,158	142,601
Elevators and elevator equipment.	43,124	45,565	44,413	4,219,772	
Engines, turbines, tractors, and water wheels.	17,007	93	12,661	74,622,126	17,686
Machine tools.	2,691	3,339	11,990	20,719,250	2,656
Meters (gas, water, etc.) and gas generators.	695	14,058	23	34,063	
Pumps and pumping equipment.	157,744	45,108	46,924	25,241,622	15,964
Radio apparatus and supplies.	6,271			1,146,653	1
Refrigerators and refrigerating and ice-making apparatus.	10,749	1,088,715		650,128	
Machinery, n. e. c.	204,484	128,885	1,221,332	42,318,416	59,778
Transportation equipment, air, land, and water.	25,455	1,578	2,001	2,622,181	37,576
Aircraft.				173,538	
Aircraft parts.					
Boats, steel and wooden.	1,381			25,884	
Carriages and wagons.				3,285	
Locomotives, other than steam.				90,196	97
Locomotives, steam.				212,622	
Motorcycles and parts.					
Motor vehicles, passenger.	1,198		750	687,482	3,847
Motor vehicles, trucks.	22,876	1,578	1,251	211,358	30,673
Railway cars, freight.					
Railway cars, mail and express.					
Railway cars, passenger.					
Transportation equipment, n. e. c.				1,217,816	2,959
Miscellaneous.	826,160	2,370,586	335,209	46,098,604	571,06
Belting, miscellaneous.	320			1,993	36
Coal and coke.	25,790	42,829	6,269	636,485	2,181
Creosote.				481	
Instruments, professional and scientific.	6,172	48		677,001	231
Mattresses and bed springs.					
Models and patterns.				62,584	
Paper products.	1,919	7,460	13	103,498	718
Paving materials: Asphalt, tar, crushed slag, and mixtures.	17,567	4,764	11,454	7,114,450	5,199
Petroleum products.	166,745	119,341	16,563	6,958,404	56,436
Photographic apparatus and supplies.	302	187		53,391	2,946
Roofing: Built-up, and roll, asphalt shingles and roof coatings, except paint.	7,899	310,130	45,110	2,656,219	65,093
Rubber products.	5,210	124	5,124	683,875	2,878
Theatrical scenery and stage equipment.	3,178			1,098	
Window shades and fixtures.	898	89,705		6,492	67
Other materials.	590,160	1,795,998	250,676	27,142,633	435,280

<sup>1</sup> Includes material orders placed on Public Works Administration projects financed by the Emergency Relief Appropriations 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.

The value of material orders placed on all construction projects financed by Federal funds during the fourth quarter of 1940, is presented in table 25, by type of project.

TABLE 25.—*Value of Material Orders Placed on Construction Projects Financed by Federal Funds for the Fourth Quarter of 1940*

[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..	\$526,372,713	\$13,374,552	\$21,276,497	\$1,846,261	\$401,358,476	\$1,841,371	\$86,675,556
Textiles and their products..	4,412,428	4,491	99,741	7,467	479,243	5,660	3,815,826
Cotton products.....	2,886,319	6	10	0	409	184	2,885,710
Textiles and their products, n. e. c..	1,526,109	4,485	99,731	7,467	478,834	5,476	930,116
Forest products..	47,684,758	823,765	2,438,912	70,079	36,779,714	261,560	7,310,728
Furniture and related products.....	2,225,374	189,628	69,521	13,524	1,692,391	3,948	256,362
Lumber and timber products, n. e. c..	45,398,428	608,955	2,369,284	56,555	35,052,063	257,205	7,054,366
Forest products, n. e. c..	60,956	25,182	107	0	35,260	407	0
Chemical and allied products..	6,042,672	199,332	459,410	58,935	2,973,604	52,879	2,298,512
Explosives.....	1,663,224	68,020	842	207	985,010	4,827	604,318
Paints, pigments, and varnishes.....	2,809,178	112,006	446,300	6,127	1,077,478	40,395	1,126,872
Chemicals and allied products, n. e. c..	1,570,270	19,306	12,268	52,601	911,116	7,657	567,322
Stone, clay, and glass products..	99,015,246	3,763,124	5,950,866	135,516	57,448,426	362,062	31,355,252
Brick, hollow tile, and other clay products..	7,256,526	429,044	1,613,559	5,474	2,242,487	14,945	2,951,017
Cement.....	32,108,675	908,746	573,268	57,480	21,988,646	191,376	8,389,159
Concrete products..	14,159,198	543,798	2,260,998	28,317	6,544,938	28,640	4,752,507
Crushed stone....	15,626,894	84,039	2,604	5,903	8,648,793	18,800	6,866,755
Sand and gravel.....	19,850,874	798,190	364,817	9,279	12,864,052	33,628	5,780,908
Wall plaster, wallboard, and building insulation..	3,839,082	104,520	470,838	7,782	2,624,952	22,214	608,776
Stone, clay, and glass products, n. e. c..	6,173,997	894,787	664,782	21,281	2,534,558	52,459	2,006,130
Iron and steel and their products, not including machinery..	114,419,935	4,118,038	7,233,363	376,300	86,915,152	330,769	15,446,313
Hardware, miscellaneous...	4,023,699	198,303	415,638	9,606	2,028,294	49,701	1,322,157
Pipe and fittings, cast iron.....	9,065,602	219,064	489,808	4,340	4,736,099	38,091	3,548,200
Plumbing, heating, ventilating equipment, except pipe..	16,836,377	506,235	2,489,473	34,648	10,937,534	81,408	2,787,079
Structural and reinforcing steel..	33,770,910	1,734,654	2,139,615	106,505	26,938,611	49,712	2,801,813
Tools other than machine tools.....	2,677,457	47,498	10,227	2,333	2,128,176	15,679	473,544
Iron and steel and their products, n. e. c..	48,075,890	1,412,284	1,688,602	218,868	40,146,438	96,178	4,513,520
See footnotes at end of table.							

TABLE 25.—*Value of Material Orders Placed on Construction Projects Financed by Federal Funds for the Fourth Quarter of 1940.*—Continued

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>
Nonferrous metals and their products...	6,462,694	224,675	559,163	216,592	5,097,442	18,794	346,028
Machinery, not including transportation equipment...	188,395,760	2,742,939	1,645,418	850,447	180,203,963	179,894	2,773,099
Electrical machinery, apparatus, and supplies...	54,711,766	1,827,746	1,241,923	217,516	49,840,966	79,896	1,503,719
Machinery, n. e. c. ....	133,683,994	915,193	403,495	632,931	130,362,997	99,998	1,269,380
Transportation equipment, air, land, and water...	2,995,441	15,618	1,766	208	2,401,801	52,818	523,230
Miscellaneous...	56,943,779	1,482,570	2,887,858	130,717	29,059,131	576,935	22,806,568
Coal and coke.....	573,911	30,874	4,424	22	329,384	1,009	208,198
Paving materials— <i>asphalt, tar, crushed slag, and mixtures</i> ...	19,265,091	198,675	47,843	250	6,544,072	136,905	12,337,346
Petroleum products.....	10,493,835	335,615	104,214	10,273	7,212,154	50,073	2,781,506
Roofing— <i>built-up and roll, asphalt shingles, and roof coatings, except paint</i> .....	2,044,758	49,476	246,003	2,606	1,417,632	19,071	309,970
Rubber products.....	610,745	9,954	1,128	2,648	382,987	5,640	208,388
Other materials.....	23,955,439	857,976	2,484,246	114,918	13,172,902	364,237	6,961,160

<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 services. These rentals and services on projects operated by the Work Projects Administration for the fourth quarter of 1940, the third quarter of 1940, and the fourth quarter of 1939 are shown in table 26, by type of rental and service.

**TABLE 26.—Rentals and Services on Projects Operated by Work Projects Administration**

[Subject to revision]

Type of rental and service	Fourth quarter of 1940	Third quarter of 1940	Fourth quarter of 1939
All rentals and services.....	\$66,880,484	\$61,488,716	\$58,664,517
Motor vehicles.....	24,272,938	24,931,270	22,860,545
Teams and wagons.....	261,319	290,715	430,062
Construction equipment.....	18,611,862	18,561,066	19,502,086
Other equipment.....	2,938,207	2,892,280	1,642,517
Other rentals and services.....	20,796,158	14,813,385	14,229,307

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 27 shows the value of public contracts awarded under the act for supplies during the first quarter of 1941, the fourth quarter of 1940, and the first quarter of 1940.

**TABLE 27.—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	Value of contracts awarded		
	First quarter 1941	Fourth quarter 1940 <sup>1</sup>	First quarter 1940 <sup>1</sup>
All materials.....	\$604,748,426	\$1,425,335,841	\$80,908,089
Food and kindred products..	7,295,600	12,192,601	2,216,321
Canning and preserving:			
Fruits and vegetables..	822,029	2,450,304	241,893
Sea foods.....	154,570	252,870	0
Cereal preparations.....	25,384	95,292	10,564
Coffee and tea.....	1,075,164	876,930	457,468
Condensed and evaporated milk.....	793,971	867,211	302,846
Feeds prepared, for animals and fowl.....	420,252	764,012	233,336
Flour and other grain mill products.....	518,956	488,993	244,835
Meat-packing products.....	623,096	3,151,180	141,300
Shortening and vegetable cooking oil.....	0	635,360	0
Sugar.....	579,642	715,872	150,224
Miscellaneous food products.....	2,282,536	1,894,577	433,855

Revised.

TABLE 27.—*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	Value of contracts awarded		
	First quarter 1941	Fourth quarter 1940 <sup>1</sup>	First quarter 1940 <sup>1</sup>
<b>Textiles and their products.....</b>	<b>\$129,765,284</b>	<b>\$220,058,470</b>	<b>\$5,933,040</b>
Awnings, tents, sails, and canvas covers.....	4,068,380	12,955,352	199,208
Clothing (overcoats, suits, trousers, etc.).....	5,883,930	8,564,511	1,299,774
Clothing, manufacture only <sup>2</sup> .....	22,571,013	14,682,394	12,920
Cordage and twine, including thread.....	805,080	1,343,885	74,450
Cotton goods (drills, prints, sheeting, etc.).....	36,770,953	39,027,987	994,099
Furnishing goods, men's, n. e. c.....	3,835,312	4,052,624	613,903
Housefurnishing goods (pillow cases, sheets, etc.).....	17,531,214	29,195,914	179,591
Knit goods (hosiery, underwear, etc.).....	21,211,536	13,258,726	719,268
Linoleum.....	190,968	221,535	0
Woolen goods (flannels, suiting, etc.).....	11,977,101	81,650,984	616,937
Work clothing.....	813,539	8,969,018	83,285
Miscellaneous textile products.....	4,106,258	6,135,540	1,139,605
<b>Forest products.....</b>	<b>6,771,984</b>	<b>7,995,513</b>	<b>1,289,659</b>
Cork and cork products.....	264,216	39,315	0
Furniture.....	603,662	1,023,861	53,906
Lumber and timber products, n. e. c.....	3,750,154	2,665,983	1,167,643
Planing-mill products.....	1,195,225	3,347,901	0
Treated lumber and timber.....	197,228	100,411	68,110
Miscellaneous forest products.....	761,499	818,042	0
<b>Chemicals and allied products.....</b>	<b>86,775,877</b>	<b>136,208,105</b>	<b>4,393,295</b>
Ammunition and related products.....	77,931,449	125,046,797	1,486,708
Compressed and liquefied gases.....	13,530	16,582	319,698
Drugs and medicines.....	1,934,066	1,012,078	617,995
Explosives.....	2,557,621	6,762,732	169,042
Linseed oil.....	210,261	99,138	125,487
Paints and varnishes.....	1,074,917	527,965	300,808
Soap and soap chips.....	697,963	171,209	281,151
Miscellaneous chemicals.....	2,356,070	2,571,604	1,092,406
<b>Products of asphalt, coal, and petroleum.....</b>	<b>3,743,556</b>	<b>21,907,263</b>	<b>4,467,055</b>
Asphalt, oil, tar, and mixtures.....	355,534	593,532	210,630
Coal and coke.....	069,075	2,033,381	272,821
Fuel oil.....	441,157	8,530,087	839,251
Gasoline.....	345,934	9,493,589	2,759,686
Lubricating oils and greases.....	233,842	40,796	88,844
Miscellaneous coal and petroleum products.....	298,014	1,215,878	295,923
<b>Leather and its manufactures.....</b>	<b>14,523,878</b>	<b>21,690,183</b>	<b>2,181,081</b>
Boots and shoes.....	10,741,134	14,903,404	1,530,534
Boot and shoe cut stock.....	291,916	298,637	98,681
Gloves.....	327,288	3,582,823	369,827
Miscellaneous leather goods.....	3,163,540	2,905,319	182,039
<b>Stone, clay, and glass products.....</b>	<b>8,287,922</b>	<b>8,799,548</b>	<b>1,902,284</b>
Brick.....	40,405	239,352	56,059
Cement.....	3,495,512	2,930,804	1,021,910
Concrete pipe.....	522,375	335,643	29,180
Concrete, ready mixed.....	437,351	548,633	98,725
Crushed stone.....	434,712	194,622	21,710
Glass.....	641,334	776,600	76,438
Granite and marble.....	113,916	0	52,264
Riprap stone.....	0	0	8,520
Sand and gravel.....	1,122,289	549,415	140,505
Slag.....	61,604	47,800	36,755
Soil, black earth.....	32,740	51,225	35,900
Steam and other packing, pipe and boiler covering.....	35,380	494,291	35,271
Terra cotta.....	0	0	0
Tile, clay, including drain.....	38,942	10,094	0
Vitrified clay and terra cotta pipe.....	41,911	117,094	12,000
Miscellaneous stone, clay, and glass products.....	1,269,442	2,503,975	277,047
<b>Iron and steel and their products, not including machinery.....</b>	<b>57,757,510</b>	<b>72,774,290</b>	<b>10,607,310</b>
Bolts, nuts, rivets, washers, etc.....	1,627,805	940,757	428,205
Cast-iron pipe and fittings.....	369,266	460,473	263,237
Castings.....	719,618	1,093,742	209,744
Fencing materials.....	64,384	142,948	0

<sup>1</sup> Revised.<sup>2</sup> Labor only; materials furnished by U. S. Government.

TABLE 27.—*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	Value of contracts awarded		
	First quarter 1941	Fourth quarter 1940 <sup>1</sup>	First quarter 1940 <sup>1</sup>
<b>Iron and Steel and their products, not including machinery—Continued.</b>			
Firearms and artillery.....	\$14,973,436	\$19,018,573	\$587,616
Forgings, iron and steel.....	3,862,501	4,748,921	3,182,972
Hardware, miscellaneous.....	713,615	686,466	26,411
Heating and cooking apparatus, except electric.....	2,040,217	4,946,936	116,873
Metal doors, window sash and frames and trim..	1,119,745	204,036	77,846
Metal furniture.....	2,452,506	6,019,276	264,912
Metal shingles and roofing.....	0	16,099	62,670
Pipe and fittings, n. e. c.....	2,053,500	700,658	69,280
Plumbing fixtures and supplies..	246,927	1,904,133	81,050
Rails and fastenings.....	96,784	213,371	69,164
Reinforcing steel.....	589,803	1,522,635	924,322
Steel pipe and fittings.....	2,162,132	943,458	398,780
Steel sheets, plates, shapes, and strips.....	655,019	2,982,474	670,400
Structural steel, fabricated, and sheet-steel piling.	6,373,893	5,297,319	692,320
Tools, other than machine tools.....	2,028,972	2,998,514	197,678
Wire products.....	1,589,837	1,055,379	264,933
Miscellaneous iron and steel products.....	14,017,551	16,878,122	2,018,897
<b>Nonferrous metals and their alloys..</b>	<b>14,168,326</b>	<b>12,354,346</b>	<b>3,899,596</b>
Aluminum manufactures.....	1,320,504	2,664,914	281,290
Brass products.....	2,479,862	1,662,008	1,542,533
Bronze products.....	513,953	306,140	14,455
Copper products.....	1,095,226	1,014,639	301,902
Fixtures, gas and electric..	458,968	41,743	92,588
Lead products.....	101,295	533,166	51,486
Magnesium.....	286,014	0	10,571
Nickel.....	236,732	139,608	25,822
Plated ware.....	293,043	705,618	0
Sheet-metal work.....	1,079,056	673,312	0
Tin.....	1,446,929	426,176	279,208
Zinc.....	124,717	28,928	63,840
Miscellaneous nonferrous metals and alloys..	4,732,027	4,158,094	1,235,931
<b>Machinery, not including electrical and transportation equipment.</b>	<b>39,908,744</b>	<b>88,915,656</b>	<b>9,542,316</b>
Air-conditioning equipment.....	285,951	191,593	105,533
Business machines.....	140,751	139,289	0
Cranes.....	4,526,177	3,626,327	373,608
Elevators and elevator equipment.....	140,171	2,787,428	112,314
Engines, turbines, tractors, and parts..	3,619,940	6,758,831	1,169,696
Filter and purification equipment.....	323,751	654,142	41,720
Laundry machinery and equipment.....	2,651,778	5,495,884	0
Machine tools.....	11,027,723	43,523,265	2,312,079
Phonographs and accessories.....	0	0	0
Power shovels and draglines.....	156,011	1,157,162	424,571
Printing and publishing machinery.....	105,046	80,630	90,646
Pumps and pumping equipment.....	5,237,977	5,010,586	1,402,469
Refrigerators and refrigerating and ice-making machinery.	2,137,221	3,075,866	330,085
Road machinery.....	515,173	185,656	88,333
Windlasses, hawsers, winches, and capstans..	1,357,981	778,626	206,842
Miscellaneous machinery and parts.....	7,683,093	15,450,371	2,884,420
<b>Electrical machinery, apparatus, and supplies..</b>	<b>31,802,210</b>	<b>90,774,216</b>	<b>9,713,415</b>
Batteries.....	367,775	974,042	78,423
Circuit breakers and switches.....	811,580	2,534,729	879,944
Communication equipment.....	3,387,266	56,611,154	779,721
Electric cable, wire, and other conductors.....	14,059,842	9,900,665	1,814,060
Generators and spare parts.....	2,338,405	2,241,346	1,340,941
Heaters and ranges.....	4,822,125	322,277	48,000
Lamps, incandescent, and X-ray tubes.....	0	366,347	10,542
Motors.....	158,980	106,986	24,513
Switchboards, relay and control equipment..	956,431	3,298,147	1,864,125
Transformers.....	573,093	2,133,063	1,634,066
Welding equipment.....	2,745,464	761,081	351,236
Miscellaneous electrical machinery, apparatus and supplies.....	5,921,249	11,524,379	887,844

<sup>1</sup> Revised.



**TABLE 27.—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	Value of contracts awarded		
	First quarter 1941	Fourth quarter 1940 <sup>1</sup>	First quarter 1940 <sup>1</sup>
Transportation equipment..	\$166,506,475	\$602,023,940	\$18,855,760
Aircraft.....	13,708,228	293,840,219	58,286
Aircraft parts and equipment..	107,667,698	60,006,671	8,611,919
Boats and boat equipment..	10,566,390	6,671,071	169,192
Motor vehicles, passenger..	1,107,333	34,211,999	48,561
Motor vehicles, truck..	17,920,392	114,089,749	8,222,643
Motorcycles and parts..	1,813,782	968,702	857,867
Naval vessels..	0	21,435,200	35,980
Railway cars.....	164,856	1,022,575	73,756
Railway locomotives.....	2,015,273	541,370	64,018
Miscellaneous transportation equipment..	11,542,523	69,236,384	713,538
Miscellaneous.....	37,441,060	129,641,710	5,906,957
Brooms, brushes, bristles, etc..	707,164	510,658	72,659
Dental goods and equipment.....	691,170	1,811,524	26,743
Instruments, professional and scientific..	9,745,765	76,947,453	2,823,534
Office equipment and supplies, n. e. c..	581,251	451,522	261,463
Paper and allied products.....	1,865,173	13,746,610	391,418
Photographic apparatus and materials..	8,128,458	2,267,928	752,662
Printing, publishing, and subscriptions..	296,927	395,789	85,368
Rubber products.....	2,957,226	13,434,291	256,961
Surgical and orthopedic supplies and appliances..	1,816,204	2,922,870	207,163
Tobacco manufactures.....	34,259	357,398	10,396
Other materials.....	8,141,162	13,233,702	862,163
Rentals, services, etc..	2,476,281	3,556,965	156,427

<sup>1</sup> Revised.

The value of public contracts awarded for supplies by Federal agencies totaled \$604,748,000 during the first quarter of 1941. Of the contracts awarded in the first quarter of 1941, \$166,506,000 was for transportation equipment; \$129,765,000 for textiles and their products; \$86,776,000 for chemicals and allied products; and \$57,758,000 for iron and steel and their products, not including machinery.

