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EMPLOYMENT AND PAY ROLLS

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Employment and Pay Rolls

SUMMARY OF REPORTS FOR SEPTEMBER 1940

Total Nonagricultural Employment

APPROXIMATELY 36,650,000 persons were engaged in nonagricultural occupations in September 1940. This total is 620,000 greater than in August. The major factor contributing to the increase of more than 600,000 workers over the month was the rise in factory employment of approximately 310,000 wage earners. Increases from August to September were also reported in trade (157,000); Federal, State, and local Government service (43,000, exclusive of the National Guard called into active service); transportation and public utilities (37,000); finance, service, and miscellaneous (31,000); construction (30,000); and mining (11,000).

Employment in the nonagricultural industries was 1,200,000 greater in September 1940 than in September of last year. When account is taken of the increase in the armed forces the gain in the nonagricultural nonmilitary employment was about 1,000,000 workers. The greatest part of this increase is accounted for by an increase of 570,000 in the number of factory workers. The stimulation of defense contracts and purchases by the British government is apparent in such industries as aircraft, shipbuilding, and munitions, but is not restricted to these groups. An analysis of the year's employment gains shows that there was an increase of 230,000 workers in the primary defense industries, and an increase of nearly 270,000 in the secondary defense industries, such as iron and steel and chemical industries, which are primarily engaged in supplying civilian needs but also supply semifinished products for primary defense activities. In the industries engaged almost exclusively in supplying civilian needs there was an aggregate gain of about 500,000 workers over the year interval.

Industrial and Business Employment

Increases in employment from August to September were reported by 79 of the 90 manufacturing industries regularly surveyed and by 9 of the 16 nonmanufacturing industries. Pay rolls were larger in 79 of the manufacturing and 11 of the nonmanufacturing industries.

For all manufacturing industries combined there was a net employment expansion of 3.8 percent or about 300,000 wage earners. This was coupled with a pay-roll rise of 5.7 percent or \$11,200,000 in weekly wages. These gains were much larger than the seasonally expected gains for September of 2.4 percent (196,000) in employment and 1.0 percent (\$1,970,000) in weekly pay rolls, and with but few exceptions, were the largest aggregate gains of any single month since 1919.

Manufacturing industries stimulated directly or indirectly by war orders and showing large employment increases between August and September were foundries and machine shops (11,500), electrical machinery (10,200), sawmills (6,700), brass, bronze, and copper products (5,400), and steel (4,500). Employment continued to expand in aircraft (8,000), shipbuilding (3,800), machine tools (3,000), and engines (2,300). The increased production of new models was reflected in the gain of 106,300 wage earners in the automobile industry, and seasonal factors contributed to the increases of 13,200 workers in cotton goods, 10,200 in confectionery, 8,700 in women's clothing, and 6,200 in furniture. Among the few manufacturing industries showing reduced employment were beverages (4,400), shoes (3,000), and ice cream (2,300), in each of which a seasonal curtailment is expected in September.

The nonagricultural estimates do not include emergency employment, which decreased 40,000 from August to September. A decrease of 10,000 was reported on projects operated by the Work Projects Administration, and a decrease of 31,000 in the Civilian Conservation Corps. An increase of 1,000 was shown on the out-of-school work program of the National Youth Administration.

Because of the demand for more comprehensive employment and pay-roll information concerning manufacturing industries, 67 additional industries have been distinguished in the monthly survey. Forty-eight of these 67 industries showed gains in employment and pay rolls between August and September. The percentage increases in employment from August to September in some of these newly added industries affected by defense activity were as follows: Fire extinguishers (9.9), instruments and apparatus (4.5), abrasives (7.7), ammunition (7.7), firearms (5.6), screw-machine products (5.5), and optical goods (2.6).

Retail stores added 4.6 percent more workers to handle fall business. This gain was larger than the average September increase of 3.9 percent for the past 11 years. Most of the lines of retail trade showed increases, marked gains being reported in department stores (13.3 percent), women's apparel (25.7 percent), shoes (24.8 percent), men's and boys' clothing (9.4 percent), and variety stores (7.9 percent).

The employment increase of 1.1 percent in wholesale trade equaled the usual fall gain in this industry. Among the various wholesale lines reporting increases were hardware (0.6 percent), lumber and building materials (1.5 percent), plumbing and heating equipment (1.3 percent), electrical goods (0.4 percent), furniture and house-furnishings (1.4 percent), iron and steel scrap (1.9 percent), metals and minerals (2.3 percent), paper and paper products (1.6 percent), and jewelry and optical goods (2.6 percent).

Anthracite mines curtailed employment slightly between mid-August and mid-September, but pay rolls rose 18.8 percent, reflecting increased production. A seasonal employment pick-up of 2 percent was reported in bituminous-coal mining, accompanied by a pay-roll gain of 0.7 percent. Employment in metal mining increased 1.6 percent, continuing the gains of the last 5 months and raising the employment index to the highest level since November 1937. Quarries and nonmetallic mines reported a contraseasonal increase of 1 percent, while oil companies reduced their forces by 0.7 percent.

Slight employment decreases in telephone and telegraph and street railway and bus companies were partially offset by a small gain in electric light and power companies. Year-round hotels reported the usual September employment gain (0.9 percent), laundries showed a seasonal loss of 1 percent, and dyeing and cleaning plants increased employment seasonally by 3.1 percent. Personnel in brokerage houses and insurance firms was curtailed by 3.2 percent and 0.5 percent, respectively.

Employment in the private building-construction industry showed a larger-than-seasonal increase of 2.9 percent from August to September, and weekly pay rolls, a gain of 4.1 percent. The September 1940 employment level was 18.2 percent higher than in September 1939, and weekly pay rolls were 23.0 percent above the level of a year ago. All of the geographic divisions reported increases over the month except the Middle Atlantic States, where a 12.4 percent decrease in the State of New York caused a 4.5 percent decrease for the area as a whole. The largest gains were in the East South Central, Mountain, West South Central, and South Atlantic States. General contractors continued to increase their working forces more rapidly than the special-trades group as a whole, as indicated by a 4.7 percent employment gain for the former compared with a slight average gain of 1.1 percent for the latter. Among the special trades which showed substantial employment gains were the following: Glazing (10.8 percent), roofing and sheet-metal work (8.0 percent), plumbing and heating (6.6 percent), carpentering (3.9 percent), building insulation (3.0 percent), and structural-steel erection (1.9 percent). Reductions in employment were reported by contractors engaged in plastering (12.8 percent), painting and decorating (10.9 percent), tile and terrazzo

contracting (6.9 percent), and excavating (4.7 percent). The reports on which the private 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 0.7 percent between August and September. The total number employed in September was 1,066,612. Corresponding pay-roll figures for September were not available when this report was prepared. For August they were \$171,642,184, an increase of \$4,013,486 since July.

Hours and earnings.—The average hours worked per week by manufacturing wage earners were 38.8 in September, an increase of 1.1 percent over August. The corresponding average hourly earnings were 67.1 cents, an increase of 0.6 percent from the preceding month. Average weekly earnings of factory workers were \$26.54, an increase of 1.9 percent since August. Wage-rate increases were reported by 130 manufacturing establishments out of a total of approximately 30,000 which supplied employment information to this Bureau in September. About 32,000 wage earners out of a total of approximately 5,400,000 covered in this survey were affected by these wage-rate increases which averaged 6.7 percent. Among the firms reporting increases were 8 paper and pulp mills with 5,070 workers affected, 5 beet-sugar mills (2,430 workers), 17 foundries and machine shops (1,693 workers), 4 steel mills (1,557 workers), 8 sawmills (1,530 workers), and 6 planing mills (1,375 workers).

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 industries.

Eleven of the sixteen nonmanufacturing industries surveyed reported gains in weekly earnings. Of the 14 nonmanufacturing industries for which man-hours are available, 10 showed gains in average hours worked per week, and 9 showed increases in average hourly earnings. In the group of nonmanufacturing industries surveyed, wage-rate increases were reported by 13 retail stores (affecting 1,827 employees), 35 metal mines (affecting 2,529 employees), and 4 street railway and bus companies (affecting 2,054 employees).

Employment and pay-roll indexes and average weekly earnings for September 1940 are given in table 1 for all manufacturing industries combined, for selected nonmanufacturing industries, for water transportation, and for class I 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, September 1940*

Industry	Employment			Pay roll			Average weekly earnings		
	Index Sep- tember 1940	Percentage change from—		Index Sep- tember 1940	Percentage change from—		Average in Sep- tember 1940	Percentage change from—	
		Aug- ust 1940	Sep- tember 1939		Aug- ust 1940	Sep- tember 1939		Aug- ust 1940	Sep- tember 1939
	(1923-25 =100)			(1927-25 =100)					
All manufacturing industries combined ¹	107.7	+3.7	+7.2	109.6	+5.7	+16.8	\$26.54	+1.9	+9.0
Class I steam railroads ²	59.7 (1929= 100)	+7	+4.5	(³) (1929= 100)	(³)	(³)	(³)	(³)	(³)
Coal mining:									
Anthracite ⁴	50.2	-3	+1.6	39.3	+18.8	-1.8	25.77	+19.1	-3.4
Bituminous ⁴	88.3	+2.0	+3.5	83.0	+7	+3.5	25.01	-1.2	+(⁵)
Metalliferous mining.....	72.6	+1.6	+15.4	69.6	+1.6	+26.4	30.00	+(⁵)	+9.6
Quarrying and nonmetallic mining.....	49.0	+1.0	+2.4	46.6	+3.1	+9.0	23.70	+2.1	+6.4
Crude petroleum production.....	63.1	-7	-2.9	57.4	-2.7	-5.7	33.31	-2.0	-2.9
Public utilities:									
Telephone and telegraph ⁶	78.9	-2	+3.3	100.8	+4	+4.0	31.43	+6	+7
Electric light and power ⁶	93.1	+1	+2.8	105.7	-2.2	+3.4	34.58	-2.3	+6
Street railways and busses ^{6, 7}	68.4	-(⁸)	-1.2	71.3	+1.2	+3.0	34.08	+1.2	+4.2
Trade:									
Wholesale ⁹	91.1	+1.1	+7	81.0	+2.9	+3.9	30.87	+1.8	+3.2
Retail ⁹	92.8	+4.6	+2.5	85.0	+4.3	+5.1	21.16	-3	+2.5
Hotels (year-round) ^{4, 10}	91.1	+9	-3	81.3	+7	+1.1	15.44	-1	+1.4
Laundries ⁴	101.8	-1.0	+4.0	89.8	-8	+6.3	18.12	+2	+2.2
Dyeing and cleaning ⁴	110.0	+3.1	+4.6	85.6	+8.5	+9.3	21.09	+5.2	+4.5
Brokerage.....	(³)	-3.2	-12.1	(³)	-1.8	-15.5	35.71	+1.5	-3.9
Insurance.....	(³)	-5	+1.7	(³)	-3	+2.3	36.13	+1	+6
Building construction.....	(³)	+2.9	+18.2	(³)	+4.1	+23.0	32.92	+1.2	+4.0
Water transportation ¹¹	79.6	-1.7	(³)	(³)	(³)	(³)	(³)	(³)	(³)

¹ Revised indexes—Adjusted to 1937 Census of Manufactures. See also table 9.

² Preliminary—Source, Interstate Commerce Commission.

³ Not available.

⁴ Indexes adjusted to 1935 census. Comparable series back to January 1929 presented in January 1938 issue of this pamphlet.

⁵ Less than 1/10 of 1 percent.

⁶ 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 or in the MONTHLY LABOR REVIEW prior to April 1940. Revised series available upon request.

⁷ Average weekly earnings not strictly comparable with figures published in issues of this pamphlet dated earlier than January 1938, or in the MONTHLY LABOR REVIEW dated earlier than April 1938 (except for the January figures appearing in the March issue), as they now exclude corporation officers, executives, and other employees whose duties are mainly supervisory.

⁸ Covers street railways and trolley and motorbus operations of subsidiary, affiliated, and successor companies.

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

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

¹¹ Based on estimates prepared by the U. S. Maritime Commission.

Public Employment

Employment and pay-roll figures for the month of September on construction projects financed from appropriations to regular Federal agencies gave further evidence that America's defenses are rapidly taking shape. Increases of 28,500 in the number of workers employed on building construction projects, 8,000 on the construction of naval vessels, and 10,000 on airport construction can all be attributed to the national defense program. These sizable gains, together with ex-

panding employment on many other types of projects brought the total number of men employed on construction work financed from regular funds up to 390,000 for the month ending September 15. This represents an increase of 55,000 over August. Pay-roll disbursements on all types of projects totaled \$42,796,000.

Employment on low-rent projects of the United States Housing Authority showed a gain of approximately 100 during the month ending September 15. Pay-roll disbursements to the 51,000 building-trades workers on these projects amounted to \$5,228,000.

The Public Works Administration program, still operating with funds appropriated in 1938 and earlier years, furnished employment to 50,000 men during the month ending September 15, a decrease of 8,000 from August. Pay rolls of \$5,283,000 were \$1,202,000 less than in August.

Approximately 1,800 men were employed on construction projects financed by the Reconstruction Finance Corporation in the month ending September 15. Pay-roll disbursements totaled \$205,000, a decrease of \$78,000 from the preceding month.

The expansion of industrial employment and the increased demand for workers on Federal construction projects is reducing the number of persons employed on relief programs of the Federal Government. Employment on work relief projects of the Work Projects Administration fell to 1,637,000, a decrease of 10,000 from August and 83,000 from September 1939. Pay rolls for the month totaled \$90,907,000. The 69,000 persons working on Federal agency projects under the Work Projects Administration represent a decline of 2,000 from August and 14,000 from the corresponding month in 1939. Workers on these projects were paid \$3,102,000 in September.

With the beginning of a new school year in September the student work program gave employment to 22,000 students, which was, however, 48,000 less than the number employed on this program in September 1939. Pay rolls amounted to only \$95,000. Approximately 241,000 young persons were employed on the out-of-school work program in the same period. Pay-roll disbursements on this program were \$4,827,000.

The number of persons at work in camps of the Civilian Conservation Corps declined 31,000 in September. Of the 294,600 on the pay roll, 259,000 were enrollees; 1,500, educational advisers; 200, nurses; and 33,700, supervisory and technical employees. Total pay rolls amounted to \$13,524,000.

In the regular services of the Federal Government employment increases were reported in the executive, judicial, and military branches while a decrease was reported in the legislative branch. Of the 1,059,000 employees in the executive service, 146,000 were working in the District of Columbia and 913,000 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. In the executive service increased employment was reported in the War, Navy, and Post Office Departments, the Tennessee Valley Authority, and the Panama Canal, while decreases were reported in the Treasury Department, the Department of the Interior, and the Department of Commerce.

Five thousand fewer workers were given employment on State-financed road projects in September. Of the 197,000 on the pay roll, 66,000 were engaged in the construction of new roads and 131,000 on maintenance. Wage payments for the month totaled \$14,178,338.

A summary of employment and pay-roll data in the regular Federal services and on projects financed wholly or partially from Federal funds is given in table 2.

TABLE 2.—*Summary of Employment and Pay Rolls in Regular Federal Services and on Projects Financed Wholly or Partially from Federal Funds, September and August 1940*

[Preliminary figures]

Class	Employment			Pay rolls		
	September	August	Percent-age change	September	August	Percent-age change
Federal services:						
Executive ¹	1,058,596	² 1,038,876	+1.9	\$159,581,436	² \$159,199,273	+0.2
Judicial.....	2,746	2,702	+1.6	686,424	642,475	+6.8
Legislative.....	5,938	6,011	-1.2	1,298,842	1,313,988	-1.2
Military.....	633,589	549,290	+15.3	38,532,284	38,364,271	+ .4
Construction projects:						
Financed by regular Federal appropriations.....	389,615	334,593	+16.4	42,796,030	39,006,635	+9.7
U. S. H. A. low-rent housing.....	50,829	50,695	+ .3	5,228,033	5,602,339	-6.7
Financed by P. W. A. ³	50,051	58,303	-14.2	5,282,875	6,484,992	-18.5
Financed by R. F. C. ⁴	1,845	2,133	-13.5	205,252	283,288	-27.5
Federal agency projects financed by Work Projects Administration.....	69,156	70,841	-2.4	3,102,015	2,768,053	+12.1
Projects operated by W. P. A.....	1,636,824	1,647,123	- .6	90,907,258	94,784,451	-4.1
National Youth Administration:						
Student work program ⁵	21,776	0	-----	95,276	0	-----
Out-of-school program.....	241,060	240,067	+ .4	4,827,087	4,777,920	+1.0
Civilian Conservation Corps.....	294,622	326,244	-9.7	13,523,515	14,420,968	-6.2

¹ Includes force-account and supervisory and technical employees shown under other classifications to the extent of 150,090 employees and pay-roll disbursements of \$20,024,268 for September 1940, and 139,190 employees and pay-roll disbursements of \$19,436,574 for August 1940.

² Revised.

³ 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 5,785 wage earners and \$567,057 pay roll for September 1940; 6,023 wage earners and \$682,614 pay roll for August 1940, covering Public Works Administration projects financed from Emergency Relief Appropriation Acts of 1935, 1936, and 1937 funds. Includes 41,733 wage earners and \$4,468,447 pay roll for September 1940; 49,781 wage earners and \$5,565,863 pay roll for August 1940, covering Public Works Administration projects financed from funds provided by the Public Works Administration Appropriation Act of 1938.

⁴ Includes 795 employees and pay-roll disbursements of \$96,927 for September 1940; 1,173 employees and pay-roll disbursements of \$181,105 for August 1940 on projects financed by the RFC Mortgage Company.

⁵ Not in operation during August.

The value of material orders placed on projects financed from regular Federal appropriations during the third quarter of 1940 amounted to \$221,671,000. Approximately 417,000 man-months of labor were involved in the final fabrication of these materials. On P. W. A. projects orders were placed for \$31,597,000 worth of materials, for which it is estimated 66,000 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 third quarter of 1940, the second quarter of 1940, and the third quarter of 1939, 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		
	Third quarter of 1940	Second quarter of 1940	Third quarter of 1939	Third quarter of 1940	Second quarter of 1940	Third quarter of 1939
Public Works Administration ¹	\$31, 597, 398	\$42, 624, 146	\$125, 182, 989	65, 710	88, 340	246, 106
U. S. H. A., low-rent housing.....	23, 636, 679	22, 889, 484	10, 377, 907	53, 922	53, 442	39, 586
Reconstruction Finance Corporation ²	1, 010, 378	1, 077, 339	1, 867, 852	1, 980	2, 094	3, 797
Regular Federal appropriations.....	221, 671, 123	128, 933, 372	136, 010, 243	417, 217	242, 488	253, 612
Federal agency projects financed from W. P. A. funds ³	1, 759, 319	2, 152, 477	3, 251, 517	3, 481	4, 130	6, 449
Projects operated by W. P. A.	(⁴)	72, 354, 605	81, 285, 041	(⁴)	166, 976	178, 552
Rentals and services on projects operated by W. P. A.	(⁴)	67, 118, 105	59, 344, 055	(⁴)	(⁴)	(⁴)

¹ 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.

² Includes RFC Mortgage Co.

³ 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.

⁴ Data not available.



DETAILED TABLES FOR SEPTEMBER 1940

Estimates of Nonagricultural Employment

THE estimates of "Total nonagricultural employment," given on the first line of table 4, represents the number of persons engaged in gainful work in the United States in nonagricultural industries, including proprietors and firm members, self-employed persons, casual workers, and domestic workers. The series described as "Employees in nonagricultural establishments," does not include proprietors, self-employed persons, and domestic or casual workers. Neither set of figures includes persons employed on W. P. A. or N. Y. A. projects or enrollees in C. C. C. camps. The estimates for "Employees in nonagricultural establishments" are shown separately for each of

seven major industry groups. Tables giving figures for each group, by months, for the period from January 1929 to date are available on request.

The figures represent the number of persons working at any time during the week ending nearest the middle of each month. The totals for the United States have been adjusted to conform to the figures shown by the 1930 Census of Occupations for the number of non-agricultural "gainful workers" less the number shown to have been unemployed for 1 week or more at the time of the census. Separate estimates for "Employees in nonagricultural establishments" are shown in table 5 for each of the 48 States and the District of Columbia for August and September 1940 and September 1939. Tables showing monthly figures for each State from January 1938 to date are available on request. The State figures do not include the armed forces of the United States nor employees on merchant vessels. Certain adjustments have been made in the United States estimates which cannot be made on a State basis, and for this reason the total of the State estimates will not agree exactly with the United States figures even if allowance is made for military, naval, and maritime employment. 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]

Industrial group	September 1940 (preliminary)	August 1940	Change August to September 1940	September 1939	Change September 1939 to September 1940
Total nonagricultural employment ¹	36,651	36,029	+622	35,450	+1,201
Employees in nonagricultural establishments ²	30,499	29,884	+615	29,298	+1,201
Manufacturing.....	10,184	9,878	+306	9,586	+598
Mining.....	850	839	+11	823	+27
Construction.....	1,462	1,432	+30	1,399	+63
Transportation and public utilities.....	3,076	3,039	+37	2,993	+83
Trade.....	6,244	6,087	+157	6,161	+83
Finance, service, and miscellaneous.....	4,252	4,221	+31	4,209	+43
Federal, State, and local government, including armed forces ³	4,431	4,388	+43	4,127	+304

¹ Includes proprietors, firm members, self-employed persons, casual workers, and domestic workers.

² Does not include proprietors, firm members, self-employed persons, casual workers, and domestic workers.

³ Not including National Guard now in active service.

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]

Geographic division and State	September 1940 (preliminary)	August 1940	Change August to September 1940		September 1939	Change September 1939 to September 1940	
			Number	Percent-age		Number	Percent-age
New England	2,568	2,525	+43	+1.8	2,466	+102	+4.2
Maine.....	198	198	0	(¹)	198	0	—
New Hampshire.....	132	133	-1	- .3	131	+1	+ .9
Vermont.....	80	79	+1	+ .4	75	+5	+6.7
Massachusetts.....	1,333	1,308	+25	+2.0	1,295	+38	+3.0
Rhode Island.....	233	228	+5	+2.2	225	+8	+3.7
Connecticut.....	592	579	+13	+2.4	542	+50	+9.3
Middle Atlantic	7,828	7,681	+145	+1.9	7,524	+302	+4.0
New York.....	3,909	3,836	+73	+1.9	3,862	+47	+1.2
New Jersey.....	1,217	1,190	+27	+2.3	1,113	+104	+9.4
Pennsylvania.....	2,700	2,655	+45	+1.7	2,549	+151	+5.9
East North Central	6,893	6,704	+189	+2.8	6,566	+327	+5.0
Ohio.....	1,786	1,753	+33	+1.8	1,713	+73	+4.2
Indiana.....	803	779	+24	+3.2	755	+48	+6.4
Illinois.....	2,253	2,230	+23	+1.0	2,156	+97	+4.5
Michigan.....	1,406	1,308	+98	+7.4	1,315	+91	+6.9
Wisconsin.....	645	634	+11	+1.8	627	+18	+2.8
West North Central	2,394	2,350	+44	+1.9	2,365	+29	+1.2
Minnesota.....	542	532	+10	+2.0	533	+9	+1.7
Iowa.....	410	406	+4	+1.1	407	+3	+ .7
Missouri.....	777	754	+23	+3.0	768	+9	+1.1
North Dakota.....	80	80	0	+ .4	80	0	+ .5
South Dakota.....	85	85	0	+ .3	84	+1	+ .7
Nebraska.....	204	203	+1	+ .7	203	+1	+ .5
Kansas.....	296	290	+6	+2.0	290	+6	+2.0
South Atlantic	3,514	3,438	+76	+2.2	3,364	+150	+4.4
Delaware.....	78	75	+3	+3.8	71	+7	+9.6
Maryland.....	521	515	+6	+1.0	493	+28	+5.7
District of Columbia.....	358	342	+16	+4.8	323	+35	+11.0
Virginia.....	494	483	+11	+2.2	480	+14	+2.8
West Virginia.....	373	369	+4	+ .9	362	+11	+2.9
North Carolina.....	606	598	+8	+1.4	600	+6	+1.0
South Carolina.....	284	276	+8	+3.0	271	+13	+4.9
Georgia.....	467	456	+11	+2.4	454	+13	+2.9
Florida.....	333	324	+9	+2.5	310	+23	+7.2
East South Central	1,382	1,352	+30	+2.1	1,330	+52	+3.9
Kentucky.....	363	358	+5	+1.4	360	+3	+ .9
Tennessee.....	470	454	+16	+3.4	435	+35	+8.1
Alabama.....	366	359	+7	+1.9	347	+19	+5.4
Mississippi.....	183	181	+2	+ .8	188	-5	-2.7
West South Central	1,828	1,794	+34	+1.9	1,813	+15	+ .8
Arkansas.....	178	175	+3	+1.9	182	-4	-2.2
Louisiana.....	378	368	+10	+2.9	365	+13	+3.8
Oklahoma.....	293	288	+5	+1.6	294	-1	- .6
Texas.....	979	963	+16	+1.7	972	+7	+ .8
Mountain	788	780	+8	+1.1	767	+21	+2.8
Montana.....	114	115	-1	- .4	111	+3	+2.5
Idaho.....	87	86	+1	+ .8	87	0	+ .4
Wyoming.....	54	54	0	- .1	53	+1	+1.6
Colorado.....	230	226	+4	+1.9	222	+8	+3.8
New Mexico.....	68	68	0	- .4	68	0	- .2
Arizona.....	88	86	+2	+2.6	85	+3	+3.6
Utah.....	114	112	+2	+1.7	110	+4	+3.7
Nevada.....	33	33	0	+1.6	31	+2	+7.1
Pacific	2,472	2,465	+7	+ .3	2,406	+66	+2.7
Washington.....	448	431	+17	+4.0	435	+13	+2.8
Oregon.....	248	240	+8	+3.1	242	+6	+2.3
California.....	1,776	1,794	-18	-1.0	1,729	+47	+2.7

¹ Less than 0.1 percent.

Industrial and Business Employment

Monthly reports on employment and pay rolls are available for 90 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 are based on the 3-year average 1923–25 as 100 and are adjusted to 1937 census data. They relate to wage earners only and are computed from reports supplied by representative manufacturing establishments in 90 manufacturing industries. 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 included in the monthly survey of the Bureau of Labor Statistics. A complete employment survey of the aircraft industry was made for August 1940. On the basis of this survey the indexes of employment and pay rolls for this industry, the affected groups, and “all manufacturing” have been revised from January 1939 to date. The revised indexes are given in table 9.

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 non-metallic mining, anthracite mining, and public utilities.

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

Data for both manufacturing and nonmanufacturing industries are based on reports of the number of employees and 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 September 1939 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 September 1940 are shown in table 6. Percentage changes from August 1940 and September 1939 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 July, August, and September 1940, where available, are presented in table 7. The July and August figures, where given, may differ in some instances from those previously published because of revisions necessitated primarily by the inclusion of late reports.

In table 8, indexes of employment and pay rolls are given for all manufacturing industries combined, for the durable- and nondurable-goods groups of manufacturing industries, and for each of 13 nonmanufacturing industries, by months, from September 1939 to September 1940, inclusive. The accompanying chart indicates the trend of factory employment and pay rolls from January 1919 to September 1940.

Table 9 gives the revised indexes of employment and pay rolls in the aircraft industry from January 1939 to September 1940, inclusive. They have been adjusted to census totals for 1939 and levels indicated by a complete survey made by the Bureau for August 1940. The revised indexes for the affected groups and "all manufacturing" are also shown in this table.



*Use of Average Hourly Earnings in "Escalator" Clauses*¹

Average hourly earnings of wage earners, such as those shown in table 7, 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 7 for all manufacturing, for durable goods, for nondurable goods, and for the various subgroups of industries, such as "iron and steel and their products," reflect both types of influence upon hourly earnings; and they measure the average of the actual earnings of the wage earners actually at work in each respective period.

To an increasing extent use is being made of these average hourly earnings figures in so-called "escalator" clauses in Government contracts. These are designed to protect contractors from losses that might arise from general wage increases over which they could exercise no control. A number of contracts extending over many months have been written recently with clauses that provide for increased payments to the contractor in case of increases in the average of the hourly earnings in the durable-goods industries.

It should be pointed out that the characteristics of the Bureau's average hourly earnings figures, as described above, make it desirable to use these averages for other than their designed purpose with a certain degree of caution. The purpose for which they were compiled

¹ Reprint from the August EMPLOYMENT and PAY ROLLS pamphlet.

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, September 1940*

MANUFACTURING

[Indexes are based on 3-year average, 1923-25=100. New series—adjusted to 1937 Census of Manufactures for all industries except automobiles and not comparable with indexes published in the July 1939 and earlier issues of this pamphlet. Comparable series available upon request]

Industry	Employment			Pay rolls			Average weekly earnings ¹			Average hours worked per week ¹			Average hourly earnings ¹		
	Index Sep- tember 1940	Percentage change from—		Index Sep- tember 1940	Percentage change from—		Sep- tember 1940	Percentage change from—		Sep- tember 1940	Percentage change from—		Sep- tember 1940	Percentage change from—	
		August 1940	Sep- tember 1939		August 1940	Sep- tember 1939		August 1940	Sep- tember 1939		August 1940	Sep- tember 1939		August 1940	Sep- tember 1939
All manufacturing²	107.7	+3.8	+7.4	110.0	+5.8	+17.1	\$26.54	+1.9	+8.1	38.8	+1.1	+2.1	Cents 67.1	+0.6	+5.5
Durable goods²	105.5	+5.7	+17.5	114.0	+8.1	+29.7	30.57	+2.3	+10.4	40.2	+1.3	+5.4	73.7	+1.0	+4.2
Nondurable goods	109.7	+2.0	— .5	105.6	+3.1	+5.1	22.20	+1.2	+5.6	37.5	— .9	— .9	61.1	— .2	+5.3
<i>Durable goods</i>															
Iron and steel and their products, not including machinery	113.5	+2.5	+16.8	118.0	+4.0	+27.2	30.60	+1.5	+8.9	39.2	+1.1	+5.7	77.9	+ .3	+2.4
Blast furnaces, steel works, and rolling mills.....	123.2	+ .9	+21.9	128.2	+2.7	+34.5	32.93	+1.8	+10.3	38.5	+ .9	+9.2	85.7	+ .6	+1.1
Bolts, nuts, washers, and rivets.....	118.1	+2.7	+17.3	139.6	+ .6	+25.7	28.43	— 2.0	+6.1	40.9	— 1.4	+4.7	69.4	— .6	+1.7
Cast-iron pipe.....	81.9	+2.1	+9.7	79.3	+3.9	+26.1	23.02	+1.8	+14.9	38.3	+1.4	+10.7	60.2	+ .4	+4.2
Cutlery (not including silver and plated cutlery) and edge tools.....	107.0	+5.5	+10.5	100.7	+8.0	+18.9	24.49	+2.4	+7.6	39.8	+2.6	+1.6	62.4	— .1	+5.6
Forgings, iron and steel.....	76.7	+5.4	+30.2	91.9	+6.4	+45.8	32.51	+1.0	+12.0	40.9	+ .6	+6.2	79.6	+ .4	+5.7
Hardware.....	100.6	+5.1	+6.8	112.9	+6.0	— .9	27.64	+ .9	— 7.2	39.8	+1.4	— 4.3	69.3	— .7	— 3.4
Plumbers' supplies.....	88.5	+2.0	+11.4	80.8	+1.1	+12.5	26.57	— .9	+1.0	38.3	— 1.4	— 3.2	70.0	+ .4	+4.2
Stamped and enameled ware.....	175.8	+6.9	+12.2	200.6	+9.9	+26.3	26.96	+2.8	+12.5	40.6	+2.4	+5.4	66.0	+ .5	+6.7
Steam and hot-water heating apparatus and steam fittings.....	94.3	+5.2	+16.1	91.1	+7.6	+27.7	29.34	+2.4	+10.0	41.2	+2.2	+6.9	71.5	+ .1	+3.0
Stoves.....	101.2	+3.5	+10.0	97.4	+9.2	+18.5	27.54	+5.5	+7.8	40.4	+4.1	+3.8	68.2	+1.3	+4.0
Structural and ornamental metalwork.....	83.4	+4.4	+13.1	74.8	+2.7	+18.2	28.99	— 1.6	+4.6	39.5	— 1.4	+2.3	73.5	— .3	+2.4
Tin cans and other tinware.....	105.2	— 2.7	— 1.6	116.8	— 4.2	— .5	25.21	— 1.6	+1.2	39.6	— 2.1	— 2.0	64.0	+ .1	+4.0
Tools (not including edge tools, machine tools, files, and saws).....	99.9	+4.5	+16.4	104.0	+8.8	+27.4	26.33	+4.1	+9.5	41.4	+3.5	+5.8	63.8	+ .6	+3.6
Wirework.....	162.0	+10.9	+11.8	185.5	+13.6	+15.0	28.69	+2.5	+2.9	40.1	+1.1	+ .6	71.5	+1.0	+1.8

Machinery, not including transportation equipment.	123.1	+3.3	+22.7	137.9	+5.3	+36.7	31.22	+1.9	+11.3	41.8	+1.5	+6.8	74.6	+4	+3.5
Agricultural implements (including tractors)...	133.5	+1.7	+15.0	156.2	+2.8	+24.9	31.17	+1.0	+8.7	39.1	+1.1	+6.1	79.9	-1	+3.3
Cash registers, adding machines, and calculating machines...	131.8	+2.4	+4.1	140.3	+3.2	+13.5	33.38	+8	+9.0	40.2	+1	+7.6	83.1	+9	+1.7
Electrical machinery, apparatus, and supplies	111.2	+4.3	+20.7	131.4	+6.3	+33.6	31.50	+1.9	+10.7	41.3	+1.6	+6.3	76.4	+1	+4.0
Engines, turbines, water wheels, and wind-mills	182.2	+4.2	+83.7	249.4	+4.6	+114.7	35.93	+3	+16.9	44.7	+1.4	+12.9	80.5	-1.0	+3.1
Foundry and machine-shop products	103.4	+2.8	+20.5	105.4	+4.0	+31.4	30.31	+1.2	+9.0	41.2	+4	+5.9	73.4	+7	+2.6
Machine tools	248.0	+4.4	+58.8	332.3	+9.7	+82.8	37.27	+5.1	+15.1	48.4	+3.7	+12.4	76.6	+1.3	+2.4
Radios and phonographs	159.5	+1.5	+6.3	161.5	+7.8	+16.2	24.89	+6.2	+9.3	40.2	+4.5	+8	62.1	+1.6	+8.9
Textile machinery and parts	78.1	+2.3	+1.1	76.4	+4.0	+4.7	26.84	+1.7	+3.3	40.4	+1.8	+1.4	66.6	-1	+2.0
Typewriters and parts	122.5	+3.9	+5	137.2	+9.4	+12.2	27.43	+5.3	+11.7	42.1	+5.9	+9.6	65.2	-6	+2.0
Transportation equipment ²	126.7	+20.8	+29.7	141.3	+22.1	+40.9	35.60	+1.1	+8.6	40.0	+1	+8.0	80.0	+7	+1.3
Aircraft	3,764.3	+8.2	+136.6	4,211.9	+13.0	+177.9	32.56	+2.2	+12.5	44.9	+2.3	+11.7	73.8	-0.1	+0.7
Automobiles	111.8	+30.9	+13.3	124.9	+29.9	+21.4	36.86	-7	+7.2	38.6	-3	+4.7	95.4	-5	+2.4
Cars, electric- and steam-railroad	53.6	+4.8	+61.6	49.5	+4.8	+79.6	28.94	-(³)	+11.2	37.9	-1.4	+8.3	76.0	+9	+2.2
Locomotives	35.6	+7.8	+28.9	36.6	+11.7	+43.1	31.57	+3.6	+10.9	40.2	+3.3	+7.7	78.5	+3	+3.0
Shipbuilding	188.1	+3.9	+45.8	227.5	+7.5	+68.8	36.08	+3.6	+15.8	40.9	+1.7	+9.7	87.8	+1.3	+6.7
Nonferrous metals and their products	119.8	+5.3	+19.4	127.9	+9.3	+32.5	29.38	+3.9	+11.0	41.5	+3.3	+4.5	71.0	+8	+5.9
Aluminum manufactures	195.3	+3.2	+29.4	239.3	+6.6	+43.6	29.75	+3.3	+11.0	41.1	+2.5	+4.0	72.4	+8	+6.8
Brass, bronze, and copper products	146.5	+6.0	+27.1	177.5	+10.4	+44.6	32.91	+4.2	+13.7	42.7	+2.8	+4.3	77.4	+1.2	+8.8
Clocks and watches and time-recording devices	100.5	+5.5	+16.9	108.6	+7.1	+23.0	23.98	+1.5	+5.3	40.3	+1.9	+3.3	59.4	-4	+1.6
Jewelry	102.6	+3.3	+2.7	90.5	+9.1	+8.2	24.64	+5.6	+5.2	41.9	+6.1	+2.7	58.4	+6	+2.3
Lighting equipment	99.7	+13.6	+12.9	90.2	+17.9	+20.8	28.26	+3.8	+7.1	40.8	+4.1	+5.3	69.3	-3	+1.5
Silverware and plated ware	72.8	+6.0	+2.0	70.0	+15.9	+6.7	27.69	+9.3	+4.6	42.4	+8.2	+3.1	65.8	+1.3	+1.9
Smelting and refining—copper, lead, and zinc	92.4	+1.1	+19.4	91.8	+3.4	+28.8	27.79	+2.3	+7.9	39.1	+1.9	+5.7	71.8	+4	+2.1
Lumber and allied products	73.4	+2.9	+4.9	71.3	+4.4	+12.3	21.06	+1.4	+7.1	39.9	+1.3	+1.9	52.5	-1	+4.9
Furniture	94.7	+3.9	+4.4	87.6	+7.0	+12.1	22.07	+3.0	+7.3	40.6	+2.6	+3.1	55.0	+3	+3.8
Lumber:															
Millwork	66.8	+4.0	+7.3	54.8	+4.6	+10.3	22.82	+6	+2.8	41.7	+6	-1.1	54.6	+1	+3.8
Sawmills	66.3	+2.1	+4.6	63.8	+2.5	+13.0	19.85	+3	+8.0	39.2	+8	+1.9	50.7	-5	+5.8
Stone, clay, and glass products	85.8	+1.5	+5.0	79.5	+3.7	+10.9	25.27	+2.1	+5.6	37.4	+1.4	+2.0	67.2	+5	+3.7
Brick, tile, and terra cotta	64.7	+5	+2.3	53.9	+7	+7.1	21.62	+2	+4.7	38.1	+7	+1.3	56.5	-6	+3.0
Cement	75.1	+8	+5.2	76.8	+5.6	+13.2	29.18	+4.8	+7.7	40.1	+3.6	+5.7	72.4	+1.1	+1.8
Glass	109.3	+2.3	+8.4	120.7	+4.1	+14.9	26.90	+1.8	+6.1	36.0	+4	+2.0	75.0	+1.3	+4.2
Marble, granite, slate, and other products	48.7	+2	+5.7	37.6	+2.6	+2.4	26.69	+2.4	+3.7	36.9	+1.3	-2	72.7	+6	+3.7
Pottery	93.5	+2.9	+8.8	85.0	+6.5	+14.3	22.96	+3.5	+5.0	37.2	+3.2	+1.0	63.6	-3	+3.9
<i>Nondurable goods</i>															
Textiles and their products	102.7	+3.0	-1.5	92.7	+6.1	+7.2	18.09	+3.0	+8.9	35.7	+2.0	(³)	51.4	+7	+7.1
Fabrics	92.8	+2.7	-5	84.8	+4.8	+4.7	17.57	+2.1	+5.3	36.4	+1.8	-1.7	48.7	+2	+6.6
Carpets and rugs	75.8	+6.2	-3.2	65.6	+11.7	-4.1	23.90	+5.2	-9	35.6	+5.4	-3.1	67.1	-2	+2.4
Cotton goods	91.7	+3.4	+2.6	85.3	+6.6	+7.8	15.11	+3.1	+5.1	36.4	+2.7	-3.2	41.1	+3	+8.4
Cotton small wares	79.0	+3.0	-6.2	77.3	+6.5	-5.1	19.01	+3.4	+1.1	38.2	+2.7	-3.6	49.9	+8	+5.1
Dyeing and finishing textiles	124.8	+2.7	-2	106.5	+4.6	-1.2	20.81	+1.8	-1.0	38.2	+2.7	-2.7	54.2	-7	+2.0

See footnotes at end of table.

TABLE 6.—*Employment, Pay Rolls, Hours, and Earnings in Manufacturing and Nonmanufacturing Industries, September 1940—Continued*

MANUFACTURING—Continued

Industry	Employment			Pay rolls			Average weekly earnings			Average hours worked per week			Average hourly earnings		
	Index Sep- tember 1940	Percentage change from—		Index Sep- tember 1940	Percentage change from—		Sep- tember 1940	Percentage change from—		Sep- tember 1940	Percentage change from—		Sep- tember 1940	Percentage change from—	
		August 1940	Sep- tember 1939		August 1940	Sep- tember 1939		August 1940	Sep- tember 1939		August 1940	Sep- tember 1939		August 1940	Sep- tember 1939
Nondurable goods—Continued															
Textiles and their products—Continued.															
Fabrics—Continued.															
Hats, fur-felt ⁶	86.4	-0.1	-4.0	77.1	-7.2	+5.0	\$24.32	-7.1	+9.2	33.1	-9.6	+6.8	73.8	+1.2	+8.6
Hosiery.....	138.6	+1.9	-7.4	146.9	+2.3	-6.1	18.87	+4	+1.4	33.8	-3	-5.3	55.7	+6	+6.7
Knitted outerwear.....	73.2	+4.2	-6.8	64.3	+7.3	+3.8	18.41	+3.0	+11.2	38.0	+2.6	+4.1	48.0	+5	+6.5
Knitted underwear.....	73.8	+1.0	-4.9	68.0	+3.8	+1.4	15.59	+2.8	+6.8	36.0	+2.8	-1.3	43.6	+1	+8.4
Knitted cloth.....	153.6	+4.1	+7.3	138.3	+6.9	+14.4	20.25	+2.7	+6.8	40.7	+2.2	+2.0	49.2	-3	+3.3
Silk and rayon goods.....	63.8	+1.2	-12.5	51.2	-2	-7.7	16.53	-1.4	+5.6	36.1	-1.7	-1.6	45.5	+1	+6.9
Woolen and worsted goods.....	88.8	+2.2	+8.2	82.1	+5.4	+21.4	21.26	+3.1	+12.4	37.6	+2.6	+3.9	57.1	+5	+7.6
Wearing apparel.....	120.7	+3.4	-3.3	102.6	+8.1	+11.4	19.51	+4.6	+15.2	34.4	+2.4	+3.3	56.3	+1.3	+8.0
Clothing, men's.....	107.8	+4	-2.5	82.9	+1.3	+4.1	19.73	+1.0	+7.0	32.7	-2	+2.2	60.4	+1.1	+4.8
Clothing, women's.....	171.1	+4.1	-4.3	141.5	+9.2	+19.8	22.15	+4.9	+25.1	35.1	+2.3	+5.8	57.6	+1.5	+10.9
Corsets and allied garments.....	112.1	+2.5	-3.2	122.9	+13.2	+2.2	18.22	+10.5	+5.6	37.8	+11.8	-2	48.3	-1.2	+5.9
Men's furnishings ⁷	122.4	+4.9	-7.7	120.7	+5.9	0	14.81	+1.0	+8.4	34.2	+1.3	-1.5	42.1	-2	+10.6
Millinery.....	87.1	+18.9	-1.6	93.8	+45.0	+15.3	31.87	+21.9	+17.1	39.8	+14.6	+7.3	71.1	+5.5	+7.3
Shirts and collars.....	121.5	+3.8	-1.4	108.2	+6.0	+5.8	14.25	+2.1	+7.3	34.3	+2.0	-1.6	41.6	-5	+8.9
Leather and its manufactures.....															
Boots and shoes.....	89.7	-1.5	-7.1	72.0	-4.0	-6	18.32	-2.6	+7.0	34.3	-3.5	-4	53.7	+1.1	+6.9
Leather.....	79.9	-6	-7.7	76.8	-1	-8.8	24.09	+5	-1.3	37.1	-2	-4.2	65.3	+7	+2.5
Food and kindred products.....															
Baking.....	147.4	+1.1	-2.2	138.5	-4	-9	23.48	-1.4	+1.4	40.3	-(⁸)	-3.0	60.3	-2.0	+3.6
Beverages.....	146.6	+(⁹)	-1.0	140.8	+5	+1.4	26.60	+5	+2.6	41.6	+1.3	-4	64.1	-7	+3.0
Butter ⁸	283.1	-5.3	-1.5	331.3	-7.2	-1.3	34.34	-2.0	+2	39.2	-2.8	-2.6	88.8	+5	+2.8
Canning and preserving.....	99.8	-3.2	+7	88.4	-1.2	+5.4	23.30	+2.1	+4.5	47.3	+6	+2.3	48.7	+1.7	+3.1
Confectionery.....	268.6	+1.9	-11.5	231.3	-6.9	-12.5	16.61	-8.6	-9	38.6	-2.8	-6.7	43.5	-6.3	+3.1
Flour.....	96.1	+20.4	+5.1	98.1	+27.3	+7.2	20.10	+5.7	+1.9	40.3	+10.0	-8	50.1	-3.2	+2.7
Ice cream.....	80.7	+1.3	-4.2	81.3	+6.4	-13.1	27.04	+5.1	-9.3	43.7	+4.1	-7.5	61.6	+4	+1.7
Slaughtering and meat packing.....	81.2	-10.8	-1.4	69.9	-10.4	+1.9	29.84	+4	+3.2	45.6	-2.0	-1.1	64.4	+2.2	+2.2
Sugar, beet.....	108.0	+1.0	+6.5	112.6	+3	+4.4	27.38	-8	-2.1	39.6	-6	-2.8	69.1	-2	+8
Sugar, cane.....	101.8	+14.1	-15.7	116.2	+32.7	-4	29.42	+16.2	+18.2	42.3	+11.1	+1.6	71.4	+5.9	+16.9
Sugar refining, cane.....	96.2	-2.1	+6.1	82.3	-3.6	-4.6	24.07	-1.5	-10.0	36.7	-1.6	-14.8	65.7	+1	+5.6

Tobacco manufactures	65.8	+2.2	- .9	65.9	+5.8	+4.8	18.42	+3.6	+5.8	37.8	+4.6	+2.6	48.7	- .7	+3.5
Chewing and smoking tobacco and snuff.....	56.1	+1.4	-8.3	67.1	+3.8	+ ⁽⁹⁾	19.32	+2.4	+9.1	35.7	+3.1	+3.5	54.4	- .5	+6.0
Cigars and cigarettes.....	66.9	+2.1	- .2	65.7	+6.2	+5.5	18.24	+4.0	+5.7	38.0	+4.8	+2.3	48.1	- .7	+3.4
Paper and printing	118.2	+ .9	+2.7	113.3	+2.2	+3.7	29.18	+1.2	+ .9	38.4	+ .4	-1.8	79.2	+ .7	+3.1
Boxes, paper.....	120.3	+2.3	+1.3	134.3	+2.8	+ .8	22.19	+ .5	- .5	39.8	+1.0	-2.9	56.0	- .6	+2.5
Paper and pulp.....	116.7	- .2	+7.3	124.2	- .5	+9.5	26.13	- .3	+2.0	39.9	-1.3	-4.2	65.5	+ .9	+6.1
Printing and publishing:															
Book and job.....	99.7	+ .1	+1.5	87.8	+2.2	+2.6	30.55	+2.2	+1.1	38.5	+1.7	+ .1	80.5	+ .8	+1.4
Newspapers and periodicals.....	116.0	+1.9	- .2	111.0	+4.5	+1.1	38.59	+2.5	+1.4	36.0	+ .9	- .7	103.8	+ .7	+2.2
Chemical, petroleum, and coal products	122.6	+2.7	+3.9	138.2	+2.8	+10.9	30.08	+ .1	+6.7	39.0	+ .8	+1.3	77.3	- .8	+5.1
Petroleum refining.....	122.6	- .1	- .4	139.3	+1.3	+3.3	35.43	+1.4	+3.8	36.1	+ .7	+1.5	98.3	+ .6	+2.0
Other than petroleum refining.....	122.6	+3.4	+5.1	137.8	+3.2	+13.4	28.31	- .2	+8.0	40.0	+ .7	+1.0	70.0	-1.0	+7.4
Chemicals.....	143.4	+1.3	+16.1	170.9	+ .9	+22.3	32.06	- .4	+5.4	39.8	- .4	+ .4	80.7	+ .1	+5.0
Cottonseed—oil, cake, and meal.....	81.0	+54.7	-32.6	78.1	+60.8	-21.9	15.25	+4.0	+15.9	43.1	+3.2	-5.9	34.0	+1.6	+21.2
Druggists' preparations.....	117.5	+2.7	+3.1	132.4	+4.1	+6.9	25.53	+1.3	+3.6	40.1	+1.0	+1.2	61.5	+ ⁽⁹⁾	+3.3
Explosives.....	147.8	+5.6	+48.0	175.4	+1.9	+53.3	32.74	-3.5	+3.6	39.0	-3.9	+ .1	84.0	+ .4	+3.5
Fertilizers.....	95.6	+17.8	-2.8	85.4	+20.7	-1.0	16.59	+2.5	+1.3	36.1	+4.1	-2.5	45.9	-1.5	+4.0
Paints and varnishes.....	126.1	+2.1	+3.2	135.6	+2.6	+6.4	29.40	+ .5	+3.0	40.8	+ .3	+ .3	72.2	+ .3	+2.6
Rayon and allied products.....	311.7	+1.3	+3.8	327.7	+3.0	+14.4	26.99	+1.7	+10.2	39.6	+ .3	+4.7	68.2	+1.4	+5.2
Soap.....	82.4	-1.4	-6.9	107.0	+5.1	- .1	30.60	+6.7	+8.0	43.2	+7.3	+7.2	70.9	- .6	+ .8
Rubber products	89.5	+4.2	+4.1	95.8	+9.2	+5.3	29.15	+4.8	+1.1	37.5	+4.0	- .1	78.0	+ .4	+1.7
Rubber boots and shoes.....	56.1	+2.7	-6.1	59.5	+5.0	-4.3	24.38	+2.2	+2.0	39.2	+2.4	+1.1	62.2	- .2	+1.0
Rubber tires and inner tubes.....	72.7	+3.1	+3.9	84.8	+11.1	+2.6	34.10	+7.8	-1.2	35.1	+6.6	-2.8	97.2	+1.2	+1.4
Rubber goods, other.....	152.7	+6.1	+7.8	152.9	+7.6	+13.4	24.43	+1.5	+5.2	39.7	+1.7	+2.3	61.7	- .1	+2.9

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NONMANUFACTURING

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

Coal mining:															
Anthracite ⁹	50.2	-0.3	+1.6	39.3	+18.8	-1.8	\$25.77	+19.1	-3.4	28.4	+17.1	+ ⁽⁹⁾	92.9	+1.2	+1.0
Bituminous ⁹	88.3	+2.0	+3.5	83.0	+ .7	+3.5	25.01	-1.2	+ ⁽⁹⁾	28.8	+1.0	+1.7	87.5	-1.4	- .7
Metalliferous mining.....	72.6	+1.6	+15.4	69.6	+1.6	+26.4	30.00	+ ⁽⁹⁾	+9.6	41.4	+ .6	+4.0	72.7	- .6	+5.5
Quarrying and nonmetallic mining.....	49.0	+1.0	+2.4	46.6	+3.1	+9.0	23.70	+2.1	+6.4	41.6	+ .7	+2.4	56.8	+ .1	+4.2
Crude petroleum production.....	63.1	- .7	-2.9	57.4	-2.7	-5.7	33.31	-2.0	-2.9	36.6	-3.8	-4.6	89.2	+1.8	+2.1
Public utilities:															
Telephone and telegraph ^{10 11}	78.9	- .2	+3.3	100.8	+ .4	+4.0	31.43	+ .6	+ .7	39.4	+ .3	-1.8	80.1	+ .4	+1.1
Electric light and power ^{10 11}	93.1	+ .1	+2.8	105.7	-2.2	+3.4	34.58	-2.3	+ .6	38.3	-4.2	-3.0	90.5	+2.3	+4.2
Street railways and busses ^{10 11 12}	68.4	- ⁽⁵⁾	-1.2	71.3	+1.2	+3.0	34.08	+1.2	+4.2	46.5	+1.3	+3.6	72.2	- ⁽⁵⁾	+1.3
Trade:															
Wholesale ^{10 13}	91.1	+1.1	+ .7	81.0	+2.9	+3.9	30.87	+3.2	+1.1	41.7	+1.1	- .2	74.0	+ .5	+3.2
Retail ^{10 11}	92.8	+4.6	+2.5	85.0	+4.3	+5.1	21.16	- .3	+2.5	43.2	+ .3	+ ⁽⁴⁾	53.7	- .8	+ ⁽⁴⁾
Food ¹¹	103.6	+ .6	- .2	95.9	+ .2	+2.6	23.55	- .3	+2.8	43.8	+ .1	+ ⁽⁴⁾	52.0	- .1	+ ⁽⁴⁾
General merchandising ^{10 11}	99.3	+10.2	+3.7	90.6	+10.1	+6.2	17.63	- .1	+2.5	38.9	+2.1	+ ⁽⁴⁾	45.7	-2.9	+ ⁽⁴⁾

See footnotes at end of table.

TABLE 6.—*Employment, Pay Rolls, Hours, and Earnings in Manufacturing and Nonmanufacturing Industries, September 1940—Continued*

NONMANUFACTURING—Continued

Industry	Employment			Pay rolls			Average weekly earnings			Average hours worked per week			Average hourly earnings			
	Index Sep- tember 1940	Percentage change from—		Index Sep- tember 1940	Percentage change from—		Sep- tember 1940	Percentage change from—		Sep- tember 1940	Percentage change from—		Sep- tember 1940	Percentage change from—		
		August 1940	Sep- tember 1939		August 1940	Sep- tember 1939		August 1940	Sep- tember 1939		August 1940	Sep- tember 1939				
Trade—Continued.																
Retail—Continued.																
Apparel ¹¹	87.8	+20.1	+1.2	79.4	+16.1	+2.1	\$21.20	-3.4	+0.9	38.4	-0.9	(14)	<i>Cents</i>	54.5	-2.0	(14)
Furniture ¹¹	76.0	+1.9	-2.1	68.6	+4.1	+1.0	28.55	+2.3	+3.2	44.3	+4	(14)		69.4	+1.7	(14)
Automotive ¹¹	85.2	-1.0	+6.1	77.4	-2.8	+10.3	26.89	-1.8	+3.9	47.7	+3	(14)		56.5	-2.0	(14)
Lumber ¹¹	78.3	+3.0	+4.1	75.6	+4.4	+7.2	26.87	+1.4	+3.0	43.3	+7	(14)		63.0	+9	(14)
Hotels (year-round) ^{9 10 15}	91.1	+9	-3	81.3	+7	+1.1	15.44	-1	+1.4	46.5	-5	+0.8		33.3	+1.0	+2.3
Laundries ⁹	101.8	-1.0	+4.0	89.8	-8	+6.3	18.12	+2	+2.2	42.8	-4	+2		42.5	+7	+2.1
Dyeing and cleaning ⁹	110.0	+3.1	+4.6	85.6	+8.5	+9.3	21.09	+5.2	+4.5	44.2	+3.0	+3.4		48.9	+1.7	+6
Brokerage ¹⁰	(14)	-3.2	-12.1	(14)	-1.8	-15.5	35.71	+1.5	-3.9	(14)	(14)	(14)	(14)	(14)	(14)	(14)
Insurance ¹⁰	(14)	-5	+1.7	(14)	-3	+2.3	36.13	+1	+6	(14)	(14)	(14)	(14)	(14)	(14)	(14)
Building construction.....	(14)	+2.9	+18.2	(14)	+4.1	+23.0	32.92	+1.2	+4.0	34.8	+2.3	+3.3		94.7	-1.1	+7

¹ Revised series. Mimeographed sheets giving averages by years, 1932 to 1933, inclusive, and by months, January 1938 to September 1939, 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.

² Revised employment and pay-roll indexes—Adjusted on basis of a complete employment survey made of the aircraft industry by the Bureau of Labor Statistics for August 1940. Not comparable with previously published indexes from January 1939 to date. Comparable figures for this period given in table 9.

³ Average weekly earnings, average hours, and average hourly earnings not comparable with those previously published due to expansion of the reporting sample. Comparable June figures are \$20.97, 37.0 hours, and 56.4 cents, respectively.

⁴ Average weekly earnings and average hourly earnings not comparable with those previously published due to expansion of the reporting sample. Comparable June weekly earnings and hourly earnings are \$25.45 and 72.9 cents, respectively.

⁵ Less than $\frac{1}{10}$ of 1 percent.

⁶ Average hourly earnings not comparable with those previously published due to expansion of the reporting sample. Comparable June hourly earnings are 70.9 cents.

⁷ Average weekly earnings not comparable with those previously published due to expansion of the reporting sample. Comparable June weekly earnings are \$13.10.

⁸ Average weekly earnings not comparable with those previously published due to expansion of the reporting sample. Comparable June weekly earnings are \$22.63.

⁹ Indexes adjusted to 1935 census. Comparable series back to January 1929 presented in January 1938 issue of pamphlet.

¹⁰ 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. In addition, the average hours and hourly earnings for retail trade from January 1940 to date are not comparable with the previously published 1939 averages because of a change in method of weighting.

¹¹ 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 or in MONTHLY LABOR REVIEW prior to April 1940. Indexes for retail furniture have been revised back to January 1936 since publication of the July 1940 pamphlet. Comparable series for earlier months available upon request.

¹² Covers street railways and trolley and motorbus operations of subsidiary, affiliated, and successor companies; formerly "electric-railroad and motorbus operation and maintenance."

¹³ Indexes adjusted to 1933 census. Comparable series in November 1934 and subsequent issues of this pamphlet.

¹⁴ Not available.

¹⁵ Cash payments only; value of board, room, and tips not included.

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

MANUFACTURING

[Indexes are based on 3-year average, 1923-25=100, and are adjusted to 1937 Census of Manufactures for all industries except automobiles. Not comparable with indexes published in pamphlets prior to August 1939. Comparable series available upon request]

Industry	Employment index			Pay-roll index			Average weekly earnings ¹			Average hours worked per week ¹			Average hourly earnings ¹		
	Sep- tem- ber 1940	August 1940	July 1940	Sep- tem- ber 1940	August 1940	July 1940	Sep- tem- ber 1940	August 1940	July 1940	Sep- tem- ber 1940	August 1940	July 1940	Sep- tem- ber 1940	August 1940	July 1940
All manufacturing²	107.7	103.8	99.7	110.0	104.0	96.8	\$26.54	\$26.10	\$25.25	38.8	38.4	37.3	<i>Cents</i> 67.1	<i>Cents</i> 66.8	<i>Cents</i> 66.7
Durable goods ²	105.5	99.8	95.9	114.0	105.5	96.5	30.57	29.98	28.52	40.2	39.7	37.9	73.7	73.1	72.7
Nondurable goods.....	109.7	107.6	103.3	105.6	102.4	97.1	22.20	22.10	21.87	37.6	37.2	36.7	61.1	61.3	61.5
<i>Durable goods</i>															
Iron and steel and their products, not including machinery	113.5	110.7	106.2	118.0	113.5	104.3	30.60	30.24	28.89	39.2	38.8	37.2	77.9	77.7	77.7
Blast furnaces, steel works, and rolling mills.....	123.2	122.1	119.0	128.2	124.8	116.2	32.93	32.25	30.75	38.5	38.1	36.4	85.7	84.8	84.7
Bolts, nuts, washers, and rivets.....	118.1	114.9	109.1	139.6	138.7	111.6	28.43	29.02	24.60	40.9	41.5	35.4	69.4	70.0	69.5
Cast-iron pipe.....	81.9	80.2	78.2	79.3	76.3	74.9	23.02	22.72	22.97	38.3	37.8	37.9	60.2	59.9	60.3
Cutlery (not including silver and plated cutlery) and edge tools.....	107.0	101.5	98.8	100.7	93.2	90.6	24.49	23.91	23.81	39.8	38.8	38.6	62.4	62.6	62.4
Forgings, iron and steel.....	76.7	72.8	67.8	91.9	86.4	77.8	32.51	32.22	31.09	40.9	40.6	39.4	79.6	79.3	79.1
Hardware.....	100.6	95.8	82.9	112.9	106.5	85.7	27.64	27.29	25.45	39.8	39.1	37.3	69.3	69.7	68.3
Plumbers' supplies.....	88.5	86.7	84.3	80.8	79.9	74.2	26.57	26.97	25.63	38.3	38.7	36.6	70.0	69.7	70.1
Stamped and enameled ware.....	175.8	164.4	152.9	200.6	182.6	166.7	26.96	26.21	25.68	40.6	39.9	38.6	66.0	65.7	66.5
Steam and hot-water heating apparatus and steam fittings.....	94.3	89.7	84.2	91.1	84.6	78.0	29.34	28.80	28.25	41.2	40.3	39.8	71.5	71.6	71.1
Stoves.....	101.2	97.7	91.8	97.4	89.2	81.3	27.54	26.09	25.20	40.4	38.6	37.3	68.2	67.7	67.7
Structural and ornamental metalwork.....	83.4	79.9	76.0	74.8	72.9	67.6	28.99	29.51	28.87	39.5	40.1	39.0	73.5	73.6	73.8
Tin cans and other tinware.....	105.2	108.1	105.9	116.8	121.9	113.4	25.21	25.61	24.38	39.6	40.4	39.1	64.0	63.9	62.7
Tools (not including edge tools, machine tools, files, and saws).....	99.9	95.6	94.0	104.0	95.6	91.7	26.33	25.22	24.60	41.4	39.8	39.0	63.8	63.4	63.1
Wirework.....	162.0	146.1	136.0	185.5	163.4	140.5	28.69	28.00	25.87	40.1	39.6	37.1	71.5	70.8	69.7
Machinery, not including transportation equipment	123.1	119.2	116.1	137.9	131.0	125.7	31.22	30.67	30.29	41.8	41.2	40.5	74.6	74.5	74.4
Agricultural implements (including tractors).....	133.5	131.2	130.6	156.2	152.0	148.9	31.17	30.87	30.42	39.1	38.6	38.3	79.9	80.1	79.5
Cash registers, adding machines, and calculating machines.....	131.8	128.7	129.6	140.3	135.9	135.6	33.38	33.11	32.92	40.2	40.2	40.0	83.1	82.7	82.7
Electrical machinery, apparatus, and supplies.....	111.2	106.6	103.8	131.4	123.7	118.1	31.50	30.92	30.14	41.3	40.7	39.8	76.4	76.3	76.2
Engines, turbines, water wheels, and windmills.....	182.2	174.8	167.5	249.4	238.5	223.8	35.93	35.81	35.05	44.7	44.1	43.7	80.5	81.3	80.3

See footnotes at end of table.

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

MANUFACTURING—Continued

Industry	Employment index			Pay-roll index			Average weekly earnings			Average hours worked per week			Average hourly earnings		
	Sep- tem- ber 1940	August 1940	July 1940	Sep- tem- ber 1940	August 1940	July 1940	Sep- tem- ber 1940	August 1940	July 1940	Sep- tem- ber 1940	August 1940	July 1940	Sep- tem- ber 1940	August 1940	July 1940
<i>Durable goods—Continued</i>															
Machinery—Continued.													<i>Cents</i>	<i>Cents</i>	<i>Cents</i>
Foundry and machine-shop products..	103.4	100.5	98.0	105.4	101.3	96.3	\$30.31	\$30.12	\$29.33	41.2	41.0	40.1	73.4	73.3	73.0
Machine tools.....	248.0	237.5	234.8	332.3	302.9	307.8	37.27	35.48	36.45	48.4	46.7	47.5	76.6	76.0	76.8
Radios and phonographs.....	159.5	157.1	143.4	161.5	149.8	138.5	24.89	23.49	23.90	40.2	38.5	38.5	62.1	61.1	62.1
Textile machinery and parts.....	78.1	76.4	77.0	76.4	73.5	73.4	26.84	26.30	26.13	40.4	39.6	39.2	66.6	66.9	66.8
Typewriters and parts.....	122.5	118.0	114.3	137.2	125.4	116.9	27.43	26.04	25.05	42.1	39.7	38.5	65.2	65.6	65.1
Transportation equipment².....	126.7	104.9	99.7	141.3	115.7	98.9	35.60	35.41	31.88	40.0	39.9	36.2	90.0	89.7	89.1
Aircraft ²	3,764.3	3,478.6	3,146.6	4,211.9	3,727.4	3,124.6	32.56	31.79	30.48	44.9	43.8	42.0	73.8	73.9	73.8
Automobiles.....	111.8	85.4	82.3	124.9	96.1	80.5	36.80	37.13	32.26	38.6	38.8	34.0	95.4	95.8	94.9
Cars, electric- and steam-railroad..	53.6	51.2	50.6	49.5	47.2	42.7	28.94	28.86	26.43	37.9	38.4	35.0	76.0	75.3	75.5
Locomotives.....	35.6	33.0	31.1	36.6	32.8	31.3	31.57	30.47	30.99	40.2	39.0	39.1	78.5	78.2	79.2
Shipbuilding.....	188.1	181.1	170.2	227.5	211.6	193.4	36.08	34.86	34.03	40.9	40.3	39.3	87.8	86.7	86.2
Nonferrous metals and their products.....	119.8	113.8	107.0	127.9	117.0	105.9	29.38	28.18	27.12	41.5	40.1	38.6	71.0	70.3	70.1
Aluminum manufactures.....	195.3	189.2	181.1	239.3	224.5	194.1	29.75	28.91	26.05	41.1	40.1	36.5	72.4	72.0	71.4
Brass, bronze, and copper products.....	146.5	138.2	129.6	177.5	160.7	146.2	32.91	31.55	30.73	42.7	41.4	40.4	77.4	76.5	76.2
Clocks and watches and time-recording devices.....	100.5	95.2	90.1	108.6	101.4	91.1	23.98	23.67	22.42	40.3	39.6	37.6	59.4	59.7	59.5
Jewelry.....	102.6	99.3	93.2	90.5	82.9	75.8	24.64	23.32	22.49	41.9	39.5	38.1	58.4	58.0	58.1
Lighting equipment.....	99.7	87.7	76.8	90.2	76.5	64.4	28.26	27.17	26.13	40.8	39.1	37.7	69.3	69.4	69.3
Silverware and plated ware.....	72.8	68.7	63.3	70.0	60.4	51.5	27.69	25.94	23.44	42.4	38.9	35.4	65.8	64.8	64.6
Smelting and refining—copper, lead, and zinc.....	92.4	91.4	89.0	91.8	88.8	86.8	27.79	27.17	27.29	39.1	38.2	38.2	71.8	71.2	71.5
Lumber and allied products.....	73.4	71.3	68.2	71.3	68.3	60.7	21.06	20.81	19.37	39.9	39.4	37.0	52.5	52.6	51.9
Furniture.....	94.7	91.1	87.7	87.6	81.8	74.3	22.07	21.49	20.28	40.6	39.5	37.1	55.0	54.8	55.0
Lumber:															
Millwork.....	66.8	64.2	62.6	54.8	52.4	48.8	22.82	22.59	21.66	41.7	41.5	39.7	54.6	54.2	54.4
Sawmills.....	66.3	64.9	61.5	63.8	62.2	53.9	19.85	19.79	18.02	39.2	38.9	36.4	50.7	50.9	49.6
Stone, clay, and glass products.....	85.8	84.5	82.4	79.5	76.7	71.1	25.27	24.81	23.49	37.4	37.0	35.5	67.2	66.8	66.5
Brick, tile, and terra cotta ³	64.7	64.4	64.1	53.9	53.6	51.8	21.62	21.44	20.95	38.1	37.7	36.8	56.5	56.6	56.6
Cement.....	75.1	74.5	72.0	76.8	72.6	68.4	29.18	27.94	27.12	40.1	38.8	37.9	72.4	71.6	71.5
Glass.....	109.3	106.9	103.3	120.7	116.0	105.2	26.90	26.56	24.91	36.0	35.9	33.8	75.0	74.3	74.2
Marble, granite, slate, and other products ⁴	48.7	48.6	47.5	37.6	36.7	34.2	26.69	26.06	24.97	36.9	36.4	34.7	72.7	72.0	72.2
Pottery.....	93.5	90.9	87.3	85.0	79.8	71.0	22.96	22.17	20.53	37.2	36.0	34.6	63.6	64.2	63.7

Nondurable goods															
Textiles and their products	102.7	99.7	94.5	92.7	87.4	77.7	18.09	17.64	16.85	35.7	34.9	33.8	51.4	51.2	50.2
Fabrics	92.8	90.4	88.0	84.8	80.9	76.4	17.57	17.15	16.71	36.4	35.7	34.8	48.7	48.6	48.6
Carpets and rugs	75.8	71.4	70.8	65.6	58.7	54.0	23.90	22.78	21.11	35.6	33.8	31.7	67.1	67.4	66.5
Cotton goods	91.7	88.7	88.0	85.3	80.0	78.2	15.11	14.67	14.43	36.4	35.5	34.9	41.1	41.0	41.2
Cotton small wares	79.0	76.7	74.0	77.3	72.6	69.2	19.01	18.36	18.12	38.2	37.1	37.0	49.9	49.5	49.0
Dyeing and finishing textiles	124.8	121.5	116.1	106.5	101.8	95.0	20.81	20.53	20.05	38.2	37.1	36.4	54.2	54.6	54.6
Hats, fur-felt	86.4	86.5	82.9	77.1	83.1	78.4	24.32	26.17	25.84	33.1	36.6	35.9	73.8	72.9	73.4
Hosiery	138.6	136.1	131.2	146.9	143.6	129.2	18.87	18.82	17.57	33.8	33.9	31.7	55.7	55.6	55.8
Knitted underwear	73.2	70.3	66.1	64.3	59.9	53.8	18.41	17.88	17.07	38.0	37.0	35.9	48.0	47.6	47.2
Knitted underwear	73.8	73.1	72.4	68.0	65.5	63.0	15.59	15.24	14.76	36.0	35.0	34.3	43.6	43.6	43.4
Knitted cloth	153.6	147.5	136.3	138.3	129.4	117.1	20.25	19.73	19.34	40.7	39.7	39.0	49.2	49.4	49.3
Silk and rayon goods	63.8	63.0	60.5	51.2	51.4	46.6	16.53	16.79	15.86	36.1	36.8	34.4	45.5	45.5	45.9
Woolen and worsted goods	88.8	86.9	83.3	82.1	77.9	73.9	21.26	20.63	20.47	37.6	36.5	36.4	57.1	56.6	56.4
Wearing apparel	120.7	116.7	104.9	102.6	94.9	75.7	19.51	18.95	17.26	34.4	33.5	31.9	56.3	55.8	53.4
Clothing, men's	107.8	107.4	103.2	82.9	81.8	76.7	19.73	19.64	19.29	32.7	32.8	32.2	60.4	59.7	59.8
Clothing, women's	171.1	164.3	137.3	141.5	129.6	89.3	22.15	21.12	17.33	35.1	34.0	31.6	57.6	56.7	51.4
Corsets and allied garments	112.1	109.4	102.5	122.9	108.6	99.7	18.22	16.49	16.22	37.8	33.7	34.2	48.3	48.5	47.2
Men's furnishings	122.4	116.6	109.8	120.7	113.9	97.7	14.81	14.78	13.48	34.2	33.8	31.7	42.1	42.2	41.2
Millinery	87.1	73.3	54.5	93.8	64.7	36.5	31.87	26.14	19.84	39.8	34.7	29.2	71.1	67.4	64.8
Shirts and collars	121.5	117.1	110.6	108.2	102.1	87.8	14.25	13.96	12.71	34.3	33.6	32.0	41.6	41.9	40.9
Leather and its manufactures	90.8	92.0	91.6	74.6	77.0	76.4	19.37	19.88	19.80	34.8	35.8	35.9	55.8	55.4	55.3
Boots and shoes	89.7	91.1	90.7	72.0	75.0	74.6	18.32	18.94	18.92	34.3	35.5	35.7	53.7	53.3	53.2
Leather	79.9	80.3	80.1	76.8	77.0	76.0	24.09	23.96	23.69	37.1	37.3	36.7	65.3	64.6	64.6
Food and kindred products	147.4	145.8	135.4	138.5	139.0	131.3	23.48	24.17	24.33	40.3	40.4	39.9	60.3	61.5	62.5
Baking	146.6	146.6	147.1	140.8	140.1	142.1	26.60	26.40	26.69	41.6	41.2	41.8	64.1	64.3	64.0
Beverages	283.1	299.1	300.3	331.3	357.1	352.8	34.34	34.99	34.41	39.2	40.1	39.3	88.8	88.4	88.1
Butter	99.8	103.2	104.6	88.4	89.4	89.9	23.30	22.79	22.52	47.3	47.0	46.9	48.7	47.9	47.3
Canning and preserving	268.6	263.6	179.1	231.3	248.3	146.0	16.61	18.18	15.73	38.6	39.6	36.3	43.5	46.4	43.6
Confectionery	96.1	79.8	73.6	98.1	77.1	69.2	20.10	19.01	18.48	40.3	36.7	35.7	50.1	51.8	51.9
Flour	80.7	79.7	80.1	81.3	76.4	75.8	27.04	25.74	25.49	43.7	41.8	41.8	61.6	61.4	60.8
Ice cream	81.2	91.1	92.1	69.9	78.0	78.1	29.84	29.71	29.41	45.6	46.6	45.9	64.4	63.0	63.1
Slaughtering and meat packing	108.0	106.8	111.1	112.6	112.3	117.6	27.38	27.57	27.76	39.6	39.8	40.3	69.1	69.1	68.9
Sugar, beet	101.8	89.2	57.7	116.2	87.5	55.5	29.42	25.40	24.88	42.3	38.4	35.8	71.4	67.3	71.8
Sugar refining, cane	96.2	98.3	101.1	82.3	85.4	91.4	24.07	24.44	25.45	36.7	37.3	39.3	65.7	65.6	64.7
Tobacco manufactures	65.8	64.4	62.4	65.9	62.3	62.3	18.42	17.79	18.38	37.8	36.1	36.8	48.7	49.2	50.2
Chewing and smoking tobacco and snuff	56.1	55.4	56.1	67.1	64.7	66.5	19.32	18.86	19.16	35.7	34.6	35.4	54.4	54.7	54.3
Cigars and cigarettes	66.9	65.5	63.2	65.7	61.9	61.7	18.24	17.57	18.19	38.0	36.2	36.9	48.1	48.6	49.4
Paper and printing	116.2	115.2	114.7	113.3	110.9	111.2	29.18	28.73	29.00	38.4	38.2	38.4	79.2	78.9	79.1
Boxes, paper	120.3	117.5	116.0	134.3	130.7	127.7	22.19	22.10	21.87	39.8	39.4	38.9	56.0	56.4	56.6
Paper and pulp	116.7	116.9	117.1	124.2	124.8	126.3	26.13	26.14	26.47	39.9	40.4	40.8	65.5	64.8	64.9
Printing and publishing:															
Book and job	99.7	99.7	99.0	87.8	85.9	86.7	30.55	29.93	30.35	38.5	37.9	38.4	80.5	79.9	80.5
Newspapers and periodicals	116.0	113.8	113.5	111.0	106.3	106.2	38.59	37.66	37.72	36.0	35.7	35.5	103.8	103.1	103.3

See footnotes at end of table.

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

MANUFACTURING—Continued

Industry	Employment index			Pay-roll index			Average weekly earnings			Average hours worked per week			Average hourly earnings		
	Sep- tem- ber 1940	August 1940	July 1940	Sep- tem- ber 1940	August 1940	July 1940	Sep- tem- ber 1940	August 1940	July 1940	Sep- tem- ber 1940	August 1940	July 1940	Sep- tem- ber 1940	August 1940	July 1940
<i>Nondurable goods—Continued</i>															
Chemical, petroleum, and coal products.....	122.6	119.4	118.5	138.2	134.4	133.0	\$30.08	\$30.16	\$30.12	39.0	38.7	38.5	Cents 77.3	Cents 77.8	Cents 78.3
Petroleum refining.....	122.6	122.7	122.9	139.3	137.4	136.6	35.43	34.94	34.73	36.1	35.8	35.3	98.3	97.7	98.6
Other than petroleum refining.....	122.6	118.6	117.4	137.8	133.5	131.9	28.31	28.34	28.27	40.0	39.8	39.7	70.0	70.7	70.9
Chemicals.....	143.4	141.6	140.4	170.9	169.3	167.2	32.06	32.18	31.95	39.8	39.9	39.7	80.7	80.6	80.4
Cottonseed—oil, cake, and meal.....	81.0	52.4	45.3	78.1	48.5	43.4	15.25	14.67	15.15	43.1	41.8	42.4	34.0	33.5	33.9
Druggists' preparations.....	117.5	114.4	113.4	132.4	127.1	124.5	25.53	25.16	24.94	40.1	39.5	40.1	61.5	61.5	61.2
Explosives.....	147.8	139.9	132.7	175.4	172.1	166.8	32.74	33.94	34.67	39.0	40.6	40.9	84.0	83.6	84.7
Fertilizers.....	95.6	81.1	79.8	85.4	70.7	69.7	16.59	16.14	16.05	36.1	34.6	35.2	45.9	46.6	45.6
Paints and varnishes.....	126.1	123.5	124.6	135.6	132.1	132.4	29.40	29.28	29.13	40.8	40.6	40.4	72.2	72.0	72.1
Rayon and allied products.....	311.7	307.7	306.9	327.7	318.0	314.7	26.99	26.53	26.32	39.6	39.4	38.9	68.2	67.2	67.6
Soap.....	82.4	83.6	81.3	107.0	101.8	99.9	30.60	28.68	28.77	43.2	40.3	40.4	70.9	71.2	71.2
Rubber products.....	89.5	85.9	83.5	95.8	87.7	85.2	29.15	27.81	27.76	37.5	36.3	35.7	78.0	77.9	78.5
Rubber boots and shoes.....	56.1	54.6	54.0	59.5	56.7	51.2	24.38	23.86	21.77	39.2	38.3	35.7	62.2	62.3	60.9
Rubber tires and inner tubes.....	72.7	70.5	69.3	84.8	76.3	77.4	34.10	31.64	32.66	35.1	33.0	33.8	97.2	96.0	97.1
Rubber goods, other.....	152.7	143.9	137.8	152.9	142.1	131.6	24.43	24.07	23.25	39.7	39.0	37.7	61.7	62.1	62.2

NONMANUFACTURING

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

Coal mining:															
Anthracite ⁹	50.2	50.3	50.8	39.3	33.1	36.5	25.77	21.63	23.63	28.4	24.2	26.5	92.9	91.8	91.8
Bituminous ⁹	88.3	80.6	84.9	83.0	82.5	75.2	25.01	25.32	23.36	28.9	28.5	26.6	87.5	88.7	88.0
Metalliferous mining.....	72.6	71.5	71.0	69.6	68.5	63.7	30.00	29.99	27.95	41.4	41.2	38.7	72.7	73.1	72.4
Quarrying and nonmetallic mining.....	49.0	48.5	48.1	46.6	45.2	43.5	23.70	23.20	22.57	41.6	40.9	39.7	56.8	56.7	56.9
Crude-petroleum production.....	63.1	63.6	63.7	57.4	59.0	59.1	33.31	33.99	33.97	36.6	35.1	35.2	89.2	87.6	87.4
Public utilities:															
Telephone and telegraph ^{9 10}	78.9	79.0	78.8	100.8	100.4	101.3	31.43	31.23	31.56	39.4	39.3	39.5	80.1	79.8	80.4
Electric light and power ^{9 10}	93.1	93.0	92.2	105.7	108.1	105.8	34.58	35.39	34.96	38.3	40.0	39.5	90.5	88.5	88.7
Street railways and busses ^{9 10 11}	68.4	68.4	68.4	71.3	70.4	70.0	34.08	33.66	33.62	46.5	46.0	45.8	72.2	72.2	72.4

Trade:																	
Wholesale ^{9 12}	91.1	90.1	89.2	81.0	78.7	78.3	30.87	30.32	30.36	41.7	41.2	41.0	74.0	73.6	74.0		
Retail ^{9 10}	92.8	88.7	89.1	85.0	81.5	82.6	21.16	21.35	21.71	43.2	43.1	43.0	53.7	54.1	54.9		
Food ¹⁰	103.6	103.0	103.6	95.9	95.7	96.0	23.55	23.63	23.84	43.8	43.8	43.9	52.0	52.1	52.9		
General merchandising ^{9 10}	99.3	90.1	90.3	90.6	82.3	84.0	17.63	17.65	18.29	38.9	38.1	38.4	45.7	47.1	47.6		
Apparel ¹⁰	87.8	73.1	75.1	79.4	68.4	70.8	21.20	21.91	22.04	38.4	38.8	38.8	54.5	55.6	55.8		
Furniture ¹⁰	76.0	74.6	75.4	68.6	65.9	66.6	28.55	28.03	28.00	44.3	44.1	43.8	69.4	68.3	69.9		
Automotive ¹⁰	85.2	86.1	86.8	77.4	79.6	82.3	26.89	27.35	28.50	47.7	47.6	47.1	56.5	57.6	60.6		
Lumber ¹⁰	78.3	76.0	75.6	75.6	72.4	71.9	26.87	26.47	26.64	43.3	43.0	42.8	63.0	62.5	62.8		
Hotels (year-round) ^{9 13}	91.1	90.3	90.3	81.3	80.7	80.5	15.44	15.46	15.42	46.5	46.7	46.7	33.3	33.0	32.9		
Laundries ⁸	101.8	102.8	102.5	89.8	90.5	90.0	18.12	18.09	17.96	42.8	43.0	43.0	42.5	42.2	42.1		
Dyeing and cleaning ⁸	110.0	106.7	108.2	85.6	78.9	80.0	21.09	20.05	20.13	44.2	42.9	42.5	48.9	48.1	48.6		
Brokerage ^{9 14}	-3.2	-3.3	-1.6	-1.8	-5.7	-3.5	35.71	35.18	36.34	(15)	(15)	(15)	(15)	(15)	(15)		
Insurance ^{9 14}	-5	+2	+9	-3	-1.3	+1	36.13	36.10	36.45	(15)	(15)	(15)	(15)	(15)	(15)		
Building construction ¹⁴	+2.9	+5.2	+5.9	+4.1	+6.7	+5.2	32.92	32.47	31.78	34.8	34.1	33.6	94.7	95.6	94.7		

¹ Revised series. Mimeographed sheets giving averages by years, 1932 to 1933, inclusive, and by months, January 1938 to September 1939, 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.

² Revised employment and pay roll indexes—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 date. Comparable figures for this period given in table 9.

³ Average weekly earnings, average hours, and average hourly earnings not comparable with those previously published due to expansion of the reporting sample. Comparable June figures are \$20.97, 37.0 hours, and 56.4 cents, respectively.

⁴ Average weekly earnings and average hourly earnings not comparable with those previously published due to expansion of the reporting sample. Comparable June weekly earnings and hourly earnings are \$25.45 and 72.9 cents, respectively.

⁵ Average hourly earnings not comparable with those previously published due to expansion of the reporting sample. Comparable June hourly earnings are 70.9 cents.

⁶ Average weekly earnings not comparable with those previously published due to expansion of the reporting sample. Comparable June weekly earnings are \$13.10.

⁷ Average weekly earnings not comparable with those previously published due to expansion of the reporting sample. Comparable June weekly earnings are \$22.63.

⁸ Indexes adjusted to 1935 census. Comparable series back to January 1929 presented in January 1933 issue of this pamphlet.

⁹ 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. In addition, the average hours and hourly earnings for retail trade from January 1940 to date are not comparable with the previously published 1939 averages because of a change in method of weighting.

¹⁰ 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 or in MONTHLY LABOR REVIEW prior to April 1940. Indexes for retail furniture have been revised back to January 1936 since publication of the July 1940 pamphlet. Comparable series for earlier months available on request.

¹¹ Covers street-railways and trolley and motorbus operations of subsidiary, affiliated, and successor companies; formerly "electric-railroad and motorbus operation and maintenance."

¹² Indexes adjusted to 1933 census. Comparable series in November 1934 and subsequent issues of this pamphlet.

¹³ Cash payments only; additional value of board, room, and tips not included.

¹⁴ Indexes of employment and pay rolls are not available; percentage changes from preceding month substituted.

¹⁵ Not available.

TABLE 8.—*Indexes of Employment and Pay Rolls in Selected Manufacturing¹ and Non-manufacturing² Industries, September 1939 to September 1940, Inclusive*

Industry	Employment													
	1939					1940								
	A.v.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
<i>Manufacturing</i>														
All industries.....	96.9	100.3	103.7	103.9	104.2	101.5	101.5	100.9	99.7	99.1	99.6	99.7	103.8	107.7
Durable goods ³	87.9	89.8	96.2	98.3	100.2	97.6	96.7	96.6	96.2	96.7	97.3	95.9	99.8	105.5
Nondurable goods ⁴	105.5	110.2	110.8	109.2	108.0	105.3	106.1	105.1	103.0	101.4	101.7	103.3	107.6	109.7
<i>Nonmanufacturing</i>														
Anthracite mining ⁵	50.6	49.4	51.9	51.3	51.0	51.5	52.0	52.6	51.6	52.2	50.2	50.8	50.3	50.2
Bituminous-coal mining ⁵	78.6	85.4	93.0	94.9	92.6	91.8	91.7	89.7	86.2	85.1	83.8	84.9	86.6	88.3
Metalliferous mining ⁵	62.7	62.9	65.3	66.5	67.3	66.4	66.3	66.2	67.7	69.2	70.3	71.0	71.5	72.6
Quarrying and nonmetallic mining ⁵	44.6	47.9	48.0	47.1	44.0	37.8	38.3	41.0	44.5	46.9	47.9	48.1	48.5	49.0
Crude-petroleum production.....	65.8	65.0	64.3	63.8	63.8	63.2	63.0	63.2	63.1	63.3	63.8	63.7	63.6	63.1
Telephone and telegraph ⁶	75.8	76.4	76.5	76.1	75.8	76.1	75.9	76.0	76.7	77.3	77.8	78.8	79.0	78.9
Electric light and power ⁶	89.0	90.6	90.4	90.3	90.1	89.1	89.2	89.3	90.0	90.6	91.2	92.2	93.0	93.1
Street railways and buses ^{6,7}	69.0	69.2	69.5	69.3	69.0	68.8	68.7	68.2	68.3	68.4	68.5	68.4	68.4	68.4
Wholesale trade.....	89.2	90.5	92.4	92.1	92.2	90.6	90.2	90.5	89.3	88.9	89.6	89.2	90.1	91.1
Retail trade ⁶	89.8	90.5	91.7	93.3	104.2	87.7	87.0	91.1	89.8	91.2	91.9	89.1	88.7	92.8
Year-round hotels ⁶	92.0	91.3	92.9	91.8	90.8	91.3	92.1	92.0	92.7	93.4	92.0	90.3	90.3	91.1
Laundries ⁶	95.9	97.8	96.0	95.6	95.6	96.0	95.8	96.2	97.2	99.1	102.1	102.5	102.8	101.8
Dyeing and cleaning ⁶	101.3	105.2	105.1	97.8	97.4	94.0	93.7	99.5	104.5	108.7	112.6	108.2	106.7	110.0
<i>Pay rolls</i>														
<i>Manufacturing</i>														
All industries.....	90.8	93.9	101.7	101.7	103.9	98.4	97.9	98.4	96.5	96.4	98.1	96.8	104.0	110.0
Durable goods ³	85.3	87.9	99.8	101.1	104.8	98.4	96.9	97.8	97.5	97.8	100.4	96.5	105.5	114.0
Nondurable goods ⁴	97.0	100.5	103.9	102.4	102.8	98.4	99.1	99.0	95.4	94.9	95.6	97.1	102.4	105.6
<i>Nonmanufacturing</i>														
Anthracite mining ⁵	39.5	40.1	52.2	42.0	26.6	52.5	32.9	38.4	36.3	40.0	40.6	36.5	33.1	39.3
Bituminous-coal mining ⁵	69.9	80.2	97.6	96.3	84.3	87.0	87.0	78.3	72.2	75.3	73.9	75.2	82.5	83.0
Metalliferous mining ⁵	56.0	55.1	63.4	63.9	65.0	63.6	64.2	63.2	63.5	65.7	65.4	63.7	68.5	69.6
Quarrying and nonmetallic mining ⁵	38.7	42.7	45.6	42.9	39.2	29.6	30.8	34.1	38.1	42.7	43.9	43.5	45.2	46.6
Crude-petroleum production.....	61.0	60.8	58.8	59.6	59.2	58.4	59.0	58.4	59.0	58.7	58.8	59.1	59.0	57.4
Telephone and telegraph ⁶	95.6	96.9	97.2	96.4	97.4	97.4	96.9	98.1	98.7	98.8	100.0	101.3	100.4	100.8
Electric light and power ⁶	100.4	102.2	102.0	102.5	102.4	101.6	102.2	102.3	103.3	104.2	104.8	105.8	108.1	105.7
Street railways and buses ^{6,7}	69.5	69.2	71.2	69.4	69.8	69.0	71.5	69.5	69.2	69.2	70.5	70.0	70.4	71.3
Wholesale trade.....	76.6	78.0	80.3	79.0	79.1	77.1	77.1	77.8	77.4	77.4	78.4	78.3	78.7	81.0
Retail trade ⁶	80.8	80.9	83.2	83.6	81.8	79.9	79.1	82.0	82.3	83.4	84.8	82.6	81.5	85.0
Year-round hotels ⁶	81.2	80.4	82.2	81.8	81.1	81.1	82.7	81.8	83.2	83.0	82.0	80.5	80.7	81.3
Laundries ⁶	83.1	84.5	83.9	82.9	83.7	83.4	83.1	84.1	85.6	88.5	92.4	90.0	90.5	89.8
Dyeing and cleaning ⁶	73.6	78.3	77.3	70.8	69.9	65.5	64.4	72.7	79.6	85.4	89.6	80.0	78.9	85.6

¹ 3-year average 1923-25=100—adjusted to 1937 Census of Manufactures. See table 9 for further revisions.

² 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 this pamphlet, or in February 1935 and subsequent issues of MONTHLY LABOR REVIEW. For other nonmanufacturing indexes see notes 5 and 6.

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

⁴ 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.

⁵ Indexes have been adjusted to the 1935 census. Comparable series from January 1929 forward are presented in January 1938 and subsequent issues of pamphlet.

⁶ 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.

⁷ Covers street railways and trolley and motorbus operations of subsidiary, affiliated, and successor companies.

TABLE 9.—Revised Indexes of Employment and Pay Rolls in the Aircraft Industry, the Transportation Equipment Group, the Durable-Goods Group, and "All Manufacturing," January 1939 to September 1940, Inclusive

[Revised to conform with census averages for 1939 and leads indicated by a complete survey of the aircraft industry made by the Bureau for August 1940. 1923-25=100]

Year and month	Aircraft		Transportation equipment group		Durable-goods group		All manufacturing	
	Employment index	Pay-roll index	Employment index	Pay-roll index	Employment index	Pay-roll index	Employment index	Pay-roll index
1939:								
January.....	899.5	911.2	96.6	93.2	82.3	76.0	92.3	83.7
February.....	974.7	976.9	96.9	91.7	83.3	77.7	93.6	86.0
March.....	1,006.5	1,017.5	96.6	91.9	84.1	79.4	94.3	87.6
April.....	1,137.8	1,107.5	96.3	94.5	84.8	79.5	94.1	85.5
May.....	1,260.6	1,227.7	91.5	87.7	84.0	78.9	93.0	85.0
June.....	1,378.9	1,397.3	91.2	89.4	84.7	80.8	93.4	86.5
July.....	1,491.5	1,455.8	80.4	77.2	83.0	76.1	93.5	84.4
August.....	1,520.4	1,519.9	75.8	79.0	84.0	81.6	96.3	89.8
September.....	1,591.3	1,515.8	97.7	100.3	89.8	87.9	100.3	93.9
October.....	1,703.5	1,702.5	106.1	110.8	96.2	99.8	103.7	101.7
November.....	1,931.5	1,955.8	103.9	106.7	98.3	101.1	103.9	101.7
December.....	2,100.0	2,046.5	117.6	125.4	100.2	104.8	104.2	103.9
Average.....	1,416.4	1,402.9	95.9	95.7	87.9	85.3	96.9	90.8
1940:								
January.....	2,274.6	2,197.0	116.7	119.8	97.6	98.4	101.5	98.4
February.....	2,302.6	2,183.9	116.1	120.1	96.7	96.9	101.5	97.9
March.....	2,379.4	2,344.3	118.5	125.9	96.6	97.8	100.9	98.4
April.....	2,474.3	2,415.0	116.9	124.3	96.2	97.5	99.7	96.5
May.....	2,676.4	2,601.5	116.7	118.5	96.7	97.8	99.1	96.4
June.....	2,913.5	2,968.2	114.3	121.0	97.3	100.4	99.6	98.1
July.....	3,146.6	3,124.6	99.7	98.9	95.9	96.5	99.7	96.8
August.....	3,478.6	3,727.4	104.9	115.7	99.8	105.5	103.8	104.0
September.....	3,764.3	4,211.9	126.7	141.3	105.5	114.0	107.7	110.0

INDUSTRIAL AND BUSINESS EMPLOYMENT IN PRINCIPAL METROPOLITAN AREAS

A comparison of employment and pay rolls in August and September 1940 is made in table 10 for 13 metropolitan areas, each of which had a population of 500,000 or over in 1930. Cities within these areas having a population of 100,000 or over are not included. Footnotes to the table specify which cities are excluded. Data concerning them have been prepared in a supplementary tabulation which is available on request. The figures represent reports from cooperating establishments and cover both full- and part-time workers in the manufacturing and nonmanufacturing industries presented in table 6, with the exception of building construction, and include also miscellaneous industries.

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

TABLE 10.—*Comparison of Employment and Pay Rolls in Identical Establishments in August and September 1940, by Principal Metropolitan Areas*

Metropolitan area	Number of establishments September 1940	Number on pay roll September 1940	Percentage change from August 1940	Amount of pay roll (1 week) September 1940	Percentage change from August 1940
New York ¹	13, 688	729, 731	+4. 4	\$21, 234, 410	+5. 6
Chicago ²	4, 393	494, 950	+2. 0	14, 296, 433	+2. 6
Philadelphia ³	2, 463	250, 869	+4. 0	7, 131, 973	+4. 9
Detroit.....	1, 636	361, 107	+19. 7	12, 949, 352	+19. 1
Los Angeles ⁴	3, 096	201, 341	+2. 6	6, 118, 242	+3. 5
Cleveland.....	1, 277	143, 329	+4. 7	4, 302, 564	+3. 7
St. Louis.....	1, 385	135, 932	+5. 7	3, 383, 082	+4. 8
Baltimore.....	1, 137	123, 953	+2. 8	3, 303, 476	+6. 5
Boston ⁵	3, 014	198, 686	+2. 5	5, 210, 023	+4. 0
Pittsburgh.....	1, 330	228, 089	+2. 0	6, 995, 646	+2. 1
San Francisco ⁶	1, 729	98, 579	+1. 2	3, 048, 244	— . 1
Buffalo.....	790	96, 516	+5. 1	2, 831, 063	+6. 7
Milwaukee.....	979	111, 791	+3. 3	3, 264, 334	+3. 1

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

² Does not include Gary, Ind.

³ Does not include Camden, N. J.

⁴ Does not include Long Beach, Calif.

⁵ Does not include Cambridge, Lynn, or Somerville, Mass.

⁶ 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 September 15, 1940, 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 11.—*Wage-Rate Changes Reported by Manufacturing and Nonmanufacturing Establishments During Month Ending September 15, 1940*¹

Group and industry	Establishments			Employees			Average percentage change in wage rates of employees receiving—	
	Total number reporting	Number reporting in-creases	Number reporting de-creases	Total number covered	Number receiving in-creases	Number receiving de-creases	In-creases	De-creases
All manufacturing.....	27, 274	130		5, 424, 758	31, 945		6. 7	
Iron and steel group.....	2, 250	15		787, 589	2, 960		8. 9	
Blast furnaces, steel works, and rolling mills.....	327	4		458, 500	1, 557		8. 5	
Machinery group.....	3, 492	18		786, 330	1, 773		7. 1	
Foundries and machine shops.....	2, 283	17		287, 275	1, 693		7. 0	
Transportation equipment group.....	690	3		625, 590	492		8. 0	
Nonferrous metals group.....	829	4		174, 746	583		3. 7	
Lumber and allied products group.....	2, 079	18		276, 256	3, 751		5. 0	
Millwork.....	596	6		38, 913	1, 375		5. 0	
Sawmills.....	777	8		139, 147	1, 530		5. 3	
Stone, clay, and glass group.....	1, 228	7		159, 911	672		5. 9	
Fabrics group.....	2, 956	5		859, 412	571		7. 4	
Food group.....	4, 543	16		499, 360	3, 267		8. 8	
Beet sugar.....	80	5		8, 673	2, 430		9. 6	
Paper and printing group.....	3, 480	22		313, 228	6, 450		4. 4	
Paper boxes.....	669	3		43, 670	82		3. 0	
Paper and pulp.....	435	8		127, 102	5, 070		4. 0	
Book and job printing.....	1, 629	5		79, 418	52		7. 1	
Chemical group.....	1, 646	14		256, 835	10, 792		7. 4	
Paints and varnishes.....	523	4		22, 538	74		4. 9	
All nonmanufacturing (except building construction).....	65, 024	62	5	1, 934, 219	6, 495	104	6. 7	10. 4
Metalliferous mining.....	291	35		49, 987	2, 529		9. 3	
Street railways and busses.....	269	4		91, 103	2, 054		1. 6	
Wholesale trade.....	10, 773	5		233, 822	16		9. 8	
Retail trade.....	37, 812	13		690, 626	1, 827		8. 8	
Brokerage.....	1, 142		5	17, 002		104		10. 4

¹ 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, the figures should not be construed as representing the total number of wage changes occurring. 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.

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 August and September 1940 are given in table 12.

TABLE 12.—Employment and Pay Rolls for the Executive Service of the United States Government, September and August 1940 ¹

[Subject to revision]

Class	Employment			Pay rolls		
	September	August ²	Percentage change	September	August ²	Percentage change
Entire service: Total.....	1,058,596	1,038,876	+1.9	\$159,581,436	\$159,199,273	+0.2
Regular appropriation.....	893,487	884,988	+1.0	138,078,595	138,417,266	-.2
Emergency appropriation.....	50,437	50,267	+.3	6,718,996	6,727,484	-.1
Force account.....	114,672	103,621	+10.7	14,783,845	14,054,523	+5.2
Inside the District of Columbia: Total.....	145,572	142,821	+1.9	25,201,714	24,881,086	+1.3
Regular appropriation.....	128,810	125,740	+2.4	22,519,911	22,158,997	+1.6
Emergency appropriation.....	7,586	7,969	-4.8	1,186,114	1,242,759	+4.6
Force account.....	9,176	9,112	-.7	1,495,689	1,479,330	+1.1
Outside the District of Columbia: Total.....	913,024	896,055	+1.9	134,379,722	134,318,187	(³)
Regular appropriation.....	764,677	759,248	+.7	115,558,684	116,258,269	-.6
Emergency appropriation.....	42,851	42,298	+1.3	5,532,882	5,484,725	+.9
Force account.....	105,496	94,509	+11.6	13,288,156	12,575,193	+5.7

¹ Data cover number of employees receiving pay during the last pay period of the month.

² Revised.

³ 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 13.

TABLE 13.—Employment and Pay Rolls of Government Establishments or Corporations Financed With Non-Governmental Funds

Establishment	Number of employees ¹		Total pay roll	
	June 1940	December 1939	6-month period ending June 30, 1940	6-month period ending Dec. 31, 1939
All establishments.....	26,387	26,288	\$21,576,006	\$21,978,412
Treasury:				
Office of the Comptroller of the Currency:				
Division of Insolvent National Banks.....	253	277	311,219	345,208
Legal Division.....	55	52	75,351	67,835
Farm Credit Administration:				
Banks for cooperatives.....	209	210	300,878	300,266
Federal intermediate credit banks.....	427	440	535,155	546,325
Federal land banks ²	4,386	4,810	3,986,341	4,607,250
General agents' offices.....	419	413	515,885	516,393
Joint stock land banks.....	495	526	592,807	637,539
Production Credit Corporation.....	291	301	435,763	438,232
Federal Deposit Insurance Corporation:				
National receivership trust funds.....	32	28	28,027	24,461
State receivership trust funds.....	70	61	52,228	42,521
Federal reserve banks.....	11,473	11,355	10,172,113	10,162,557
Inland Waterways Corporation.....	3,212	3,243	1,967,214	2,066,954
Panama Railroad Company ³	5,061	4,568	2,594,235	2,214,081
Spruce Production Corporation.....	4	4	8,790	8,790

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

² Includes land bank appraisers and their pay rolls.

³ Includes the Panama Railroad Steamship Line which is owned and operated by the Panama Railroad Company.

CONSTRUCTION PROJECTS FINANCED BY THE PUBLIC WORKS ADMINISTRATION

Details concerning employment, pay rolls, and man-hours worked during September on construction projects financed by Public Works Administration funds are given in table 14, by type of project.

TABLE 14.—Employment and Pay Rolls on Projects Financed From Public Works Administration Funds, September 1940 ¹

[Subject to revision]

Type of project	Wage earners		Monthly pay roll disbursements	Number of man-hours worked during month	Average earnings per hour	Value of material orders placed during month
	Maximum number employed ²	Weekly average				
All programs.....	50,051	41,210	\$5,282,875	5,437,497	\$0.972	\$8,424,259
Federal projects financed from National Industrial Recovery Act funds						
All projects.....	³ 1,070	905	\$87,183	151,856	\$0.574	\$117,438
Building construction.....	587	484	44,329	86,472	.513	58,406
Naval vessels.....	1	1	157	164	.957	454
Public roads ⁴	(⁵)	207	22,275	34,468	.646	45,000
Reclamation.....	87	76	8,357	11,882	.705	5,228
River, harbor, and flood control.....	110	68	3,078	5,120	.601	4,138
Water and sewerage.....	31	22	1,182	3,182	.371	2,417
Miscellaneous.....	47	47	7,805	10,598	.736	1,795

See footnotes at end of table.

TABLE 14.—*Employment and Pay Rolls on Projects Financed From Public Works Administration Funds September 1940—Continued*

[Subject to revision]

Type of project	Wage earners		Monthly pay roll disbursements	Number of man-hours worked during month	Average earnings per hour	Value of material orders placed during month
	Maximum number employed	Weekly average				
Federal projects financed from Public Works Administration Appropriation Act, 1938, funds						
All projects.....	5,348	4,807	\$579,111	640,639	\$0.904	\$618,047
Airport construction (exclusive of buildings).....	475	471	51,356	72,249	.711	36,283
Building construction.....	2,457	2,101	262,751	237,945	1.104	297,761
Electrification.....	388	380	25,635	39,528	.649	10,806
Reclamation.....	1,319	1,242	176,854	214,387	.825	175,621
River, harbor, and flood control.....	370	335	35,833	42,792	.837	48,090
Streets and roads.....	127	119	10,789	16,692	.646	36,086
Water and sewerage.....	73	50	4,630	3,844	1.204	5,322
Miscellaneous.....	94	73	5,861	6,505	.901	8,078
Professional, technical, and clerical.....	45	36	5,402	6,697	.807	0
Non-Federal projects financed from National Industrial Recovery Act funds						
All projects ⁶	1,458	1,301	\$160,188	156,772	\$1.022	\$485,697
Building construction ⁶	855	755	116,096	89,142	1.202	191,761
Streets and roads.....	349	313	26,779	42,250	.634	33,139
Miscellaneous.....	254	233	17,313	25,380	.682	260,797
Non-Federal projects financed from Emergency Relief Appropriation Act, 1935, 1936, and 1937, funds						
All projects.....	5,785	4,999	\$567,057	757,411	\$0.749	\$924,984
Building construction.....	598	505	71,154	56,610	1.257	214,101
Electrification.....	1,056	881	78,278	107,091	.731	305,072
Heavy engineering.....	3,691	3,268	379,774	544,747	.697	376,310
Reclamation.....	0	0	0	0	-----	4,864
Streets and roads.....	440	345	37,851	48,963	.773	22,876
Miscellaneous.....	0	0	0	0	-----	1,761
Non-Federal projects financed from Public Works Administration Appropriation Act, 1938, funds						
All projects.....	36,390	29,198	\$3,889,336	3,730,819	\$1.042	\$6,278,093
Building construction.....	9,793	8,010	1,078,759	906,058	1.191	1,678,706
Electrification.....	766	563	94,422	82,054	1.151	469,869
Heavy engineering.....	9,140	7,154	1,016,901	965,415	1.053	1,230,964
Reclamation.....	335	279	38,924	44,708	.871	17,199
River, harbor, and flood control.....	12	11	545	974	.560	5,827
Streets and roads.....	7,229	5,358	569,777	695,466	.819	870,936
Water and sewerage.....	9,115	7,823	1,090,008	1,036,144	1.052	1,411,684
Miscellaneous.....	0	0	0	0	-----	592,908

¹ Data are for the month ending on the 15th.

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

³ Includes weekly average for public roads.

⁴ Under the jurisdiction of the Public Roads Administration.

⁵ Not available; weekly average included in total for all projects.

⁶ 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 15 shows data concerning employment, pay rolls, and man-hours worked in September 1940 on low-rent projects of the United States Housing Authority.

TABLE 15.—*Employment and Pay Rolls on Low-Rent Housing Projects Operated by the United States Housing Authority, September 1940*

[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 ¹	Weekly average				
All divisions.....	50,829	43,242	\$5,228,033	5,685,980	\$0.919	\$9,107,991
New England.....	5,576	4,918	725,672	656,687	1.105	1,114,124
Middle Atlantic.....	8,998	7,534	1,195,162	919,738	1.299	1,660,422
East North Central.....	5,133	4,220	652,722	560,277	1.165	1,123,388
West North Central.....	407	348	40,634	43,193	.941	56,722
South Atlantic.....	11,209	9,419	894,070	1,206,051	.741	2,161,950
East South Central.....	8,663	7,433	759,708	977,975	.777	1,287,918
West South Central.....	6,507	5,545	579,557	751,931	.771	1,003,444
Mountain.....	712	554	82,690	66,557	1.242	133,855
Pacific.....	1,776	1,515	222,085	217,425	1.021	448,329
Outside continental United States.....	1,848	1,756	75,733	286,146	.265	117,839

¹ Maximum employed during any 1 week of the month.

WORK PROJECTS ADMINISTRATION PROGRAM

A record of employment, pay rolls, and man-hours worked in September on projects financed by the Work Projects Administration is shown in table 16, by type of project.

TABLE 16.—*Employment and Pay Rolls on Projects Financed by the Work Projects Administration, September 1940*

[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 ¹	Weekly average				
All projects.....	Projects operated by Work Projects Administration ²					
	-----	1,636,824	\$90,907,258	199,588,876	\$0.455	(³)
	Projects operated by other Federal agencies					
All projects.....	69,156	65,774	\$3,102,015	7,146,566	\$0.434	\$568,684
Airport construction (exclusive of buildings).....	6,779	6,674	75,218	413,847	.182	60,519
Building construction.....	31,687	29,267	1,511,700	3,246,199	.466	264,739
Forestry.....	6,978	6,901	307,897	779,016	.395	27,258
Grade-crossing elimination ⁴	159	131	11,180	17,131	.653	11,854
Hydroelectric power plants ⁵	1,094	1,058	47,914	185,371	.258	43,317
Plant, crop, and livestock conservation.....	8,891	8,830	432,869	960,762	.451	41,226
Professional, technical, and clerical.....	4,670	4,541	318,072	516,788	.615	18,237
Public roads ⁶	116	85	5,504	9,324	.590	916
Reclamation.....	6,774	6,613	302,879	820,292	.369	33,465
River, harbor, and flood control.....	336	303	30,446	44,621	.682	21,499
Streets and roads.....	857	677	36,860	99,421	.371	10,128
Water and sewerage.....	493	298	7,854	26,089	.301	10,056
Miscellaneous.....	422	396	13,622	27,705	.492	25,470

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

² Data are for the calendar month. Data by type of project will be published in October pamphlet.

³ Data on a monthly basis are not available.

⁴ Projects under the jurisdiction of the Public Roads Administration.

⁵ Projects under construction in Puerto Rico.

Data on employment, pay rolls, and man hours worked in September on each type of project operated by the Work Projects Administration were not available when this report was prepared. The figures for August are presented in table 17.

TABLE 17.—Employment and Pay Rolls on Projects Operated by the Work Projects Administration, by Type of Project, August 1940

[Subject to revision]

Type of project	Employment ¹	Pay rolls	Man-hours worked	Average earnings per hour
All projects.....	1, 647, 123	\$94, 784, 451	208, 508, 192	\$0. 455
Conservation.....	37, 027	2, 121, 634	4, 768, 498	. 445
Highway, road, and street.....	692, 250	36, 083, 804	86, 812, 905	. 416
Professional, technical, and clerical.....	291, 389	19, 714, 624	38, 123, 758	. 517
Public buildings.....	152, 939	9, 366, 364	18, 911, 253	. 495
Publicly owned or operated utilities.....	157, 769	9, 067, 882	19, 459, 085	. 466
Recreational facilities.....	85, 324	5, 320, 855	10, 864, 658	. 490
Sanitation and health.....	22, 538	1, 196, 192	2, 902, 377	. 412
Sewing, canning, gardening, etc.....	115, 912	6, 067, 582	15, 154, 539	. 400
Transportation.....	28, 978	1, 625, 098	3, 400, 949	. 478
Not elsewhere classified—total.....	62, 997	4, 220, 416	8, 110, 170	. 520
National defense vocational training.....	20, 645	1, 117, 194	2, 522, 812	. 443
Other.....	42, 352	3, 103, 222	5, 587, 358	. 555

¹ Average of the month.

NATIONAL YOUTH ADMINISTRATION

Employment and pay rolls on the National Youth Administration projects for August and September 1940 are shown in table 18.

TABLE 18.—Employment and Pay Rolls on National Youth Administration Projects September and August 1940

[Subject to revision]

Type of project	Employment		Pay rolls	
	September	August	September	August
Total.....	262, 836	240, 067	\$4, 922, 363	\$4, 777, 920
Student work program ¹	21, 776	0	95, 276	0
Out-of-school work program.....	241, 060	240, 067	4, 827, 087	4, 777, 920

¹ Not in operation during August.

CIVILIAN CONSERVATION CORPS

Employment and pay rolls in the Civilian Conservation Corps in August and September 1940 are presented in table 19.

TABLE 19.—Employment and Pay Rolls in the Civilian Conservation Corps, September and August 1940 ¹

[Subject to revision]

Group	Employment		Pay rolls	
	September	August	September	August
All groups.....	294,622	326,244	\$13,523,515	\$14,420,968
Enrolled personnel ²	259,204	290,675	8,283,092	9,038,917
Nurses ³	217	224	29,383	30,166
Educational advisers ³	1,545	1,554	258,775	260,250
Supervisory and technical ³	33,656	33,791	4,952,265	5,091,635

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

² September data include 3,838 enrollees and pay roll of \$74,013 outside continental United States; in August the corresponding figures were 3,560 enrollees and pay roll of \$73,298.

³ Included in executive service, table 12.

CONSTRUCTION PROJECTS FINANCED BY RECONSTRUCTION FINANCE CORPORATION

Statistics of employment, pay rolls, and man-hours worked on construction projects financed by the Reconstruction Finance Corporation in September are presented in table 20, by type of project.

TABLE 20.—Employment and Pay Rolls on Projects Financed by the Reconstruction Finance Corporation, by Type of Project, September 1940 ¹

[Subject to revision]

Type of project	Employment ²	Monthly pay rolls	Man-hours worked during month	Average earnings per hour	Value of material orders placed during month
All projects.....	1,845	\$205,252	193,611	\$1.060	\$321,013
Building construction ³	1,554	170,359	157,158	1.084	219,972
Streets and roads.....	94	8,413	10,187	.826	8,018
Water and sewerage.....	156	25,435	25,236	1.008	92,253
Heavy engineering.....	41	1,045	1,030	1.015	770

¹ Data are for the month ending on the 15th.

² Maximum number employed during any 1 week of the month by each contractor.

³ Includes 795 employees; pay-roll disbursements of \$96,927; 76,445 man-hours worked; and material orders placed of \$98,307 on projects financed by RFC Mortgage Company.

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 September are given in table 21, by type of project.

TABLE 21.—*Employment and Pay Rolls on Construction Projects Financed From Regular Federal Appropriations, by Type of Project, September 1940*¹

[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 ²	Weekly average				
All projects.....	389,615	365,646	\$42,796,030	56,261,315	\$0.753	\$97,500,548
Airport construction.....	10,365	9,629	742,574	930,580	.798	3,736,706
Building construction.....	56,625	48,431	5,799,591	8,210,908	.706	16,926,795
Electrification:						
Rural Electrification Administration projects ⁴	4,858	3,928	272,502	475,486	.573	1,481,095
Other than R. E. A. projects.....	552	427	33,132	43,352	.764	65,397
Forestry.....	25	25	1,260	2,464	.511	3,665
Heavy engineering.....	118	104	15,864	10,877	1.458	(⁵)
Public roads ⁶	(7)	104,621	9,757,457	15,189,684	.642	17,030,855
Reclamation.....	26,570	25,100	3,774,807	4,155,045	.908	11,506,241
River, harbor, and flood control:						
Dredging, dikes, revetments, etc.....	37,380	33,174	3,921,998	5,566,658	.705	5,610,751
Locks and dams.....	9,168	8,305	1,205,785	1,410,397	.855	1,367,055
Ship construction:						
Naval vessels.....	94,356	89,738	13,350,666	14,996,162	.890	31,139,368
Other than naval vessels.....	26,781	24,925	2,876,029	3,536,141	.813	4,922,938
Streets and roads.....	3,494	3,108	298,169	441,161	.676	403,342
Water and sewerage.....	572	480	45,648	70,622	.646	108,989
Miscellaneous.....	14,130	13,651	700,548	1,221,778	.573	3,197,351

¹ Data are for the month ending on the 15th.

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

³ Includes weekly average for public-road projects.

⁴ Financed by Rural Electrification Administration loans.

⁵ No report received for heavy engineering.

⁶ Under the jurisdiction of the Public Roads Administration.

⁷ 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 September 1940, compared with August 1940, and September 1939, is presented in table 22.

TABLE 22.—*Employment and Pay Rolls on Construction and Maintenance of State Roads September 1940, August 1940, and September 1939*¹

[Subject to revision]

Item	Employment ²			Pay rolls		
	September 1940	August 1940	September 1939	September 1940	August 1940	September 1939
Total.....	196,957	201,836	160,615	\$14,178,338	\$15,045,089	\$11,620,870
New roads.....	66,036	64,133	25,780	4,342,663	4,357,497	1,563,140
Maintenance.....	130,921	137,703	134,835	9,835,675	10,687,592	10,057,730

¹ Projects financed wholly from State or local funds. September and August 1940 data are for the calendar month; September 1939 for the month ending on the 15th.

² Average number working during month.

PURCHASES FROM PUBLIC FUNDS¹

Table 23 shows the value of material orders placed on construction projects financed by Federal funds in the third quarter of 1940. 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 third quarter to be published in the December pamphlet.

In the third quarter of 1940, on construction projects financed from regular Federal appropriations, orders were placed for materials valued at approximately \$221,671,000. Of this amount \$46,982,000 was expended for iron and steel products, \$98,225,000 for machinery, \$22,454,000 for cement and concrete products, and \$7,917,000 for forest products. Of the \$31,597,000 of material orders placed on the Public Works Administration program, \$9,644,000 was for iron and steel products, \$6,561,000 for machinery, \$3,932,000 for cement and concrete products, and \$3,548,000 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 it is 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 Manufactures, 1937.

¹ Unless otherwise specified, data presented are as of the 15th of the month.

TABLE 23.—*Value of Material Orders Placed on Construction Projects Financed by Federal Funds for the Third Quarter of 1940*

Type of material	Projects				
	Public Works Administration ¹	U. S. H. A. low-rent housing	Reconstruction Finance Corporation ²	Regular Federal	Federal agency projects financed from W. P. A. funds ³
All materials.....	\$31,597,398	\$23,636,679	\$1,010,378	\$221,671,123	\$1,759,319
Textiles and their products.....	109,325	116,065	2,373	163,991	4,094
Awnings, tents, canvas, etc.....	372	469	19	49,102	983
Carpets and rugs.....	4,746	.....	.....	.....	13
Cordage and twine.....	928	320	200	27,705	438
Cotton products.....	28	14	.....	109	122
Felt products.....	346	2,280	.....	2,608	247
Jute products.....	2,333	1,899	.....	61	392
Linoleum and asphalted-felt-base floor covering.....	34,515	108,523	631	19,852	588
Sacks and bags, other than paper.....	3,504	5	.....	485	.....
Upholstering, filling, batting, padding, and wadding.....	.....	.....	.....	.....	.....
Waste and related products.....	1,142	112	7	2,589	124
Textiles and their products, n. e. c.....	61,421	2,443	1,516	62,480	1,187
Forest products.....	3,548,479	2,638,794	33,278	7,917,284	188,231
Cork products.....	32,178	.....	5,465	21,379	87
Furniture and related products.....	2,515,369	92,556	894	927,446	10,729
Lumber and timber products, n. e. c.....	704,859	1,157,567	20,288	5,630,752	128,505
Planing-mill products.....	276,669	1,349,267	6,631	1,324,006	48,910
Window and door screens and weatherstrip.....	19,404	39,351	.....	12,253	.....
Forest products, n. e. c.....	.....	53	.....	1,448	.....
Chemicals and allied products.....	324,955	386,233	8,044	1,336,960	39,764
Ammunition and related products.....	343	.....	.....	.....	.....
Compressed and liquefied gases.....	18,445	2,010	1,168	37,235	2,567
Explosives.....	115,536	7,649	115	791,407	7,365
Paints, pigments, and varnishes.....	189,480	370,864	6,104	474,934	26,554
Chemicals and allied products, n. e. c.....	21,151	5,710	657	33,384	3,278
Stone, clay, and glass products.....	8,420,742	6,372,334	214,258	44,553,770	277,881
Asbestos products, n. e. c.....	16,640	64,218	.....	44,040	12
Brick, hollow tile, and other clay products, n. e. c.....	851,952	1,533,342	6,748	817,287	20,624
Cement.....	2,223,191	673,741	59,079	20,711,654	105,629
Concrete products.....	1,708,789	2,322,283	23,409	1,742,779	26,328
Crushed stone.....	748,482	88,319	5,205	6,491,429	22,899
Glass.....	150,794	139,139	1,078	220,275	1,596
Lime.....	3,401	80,888	.....	8,419	365
Marble, granite, slate, and other stone, cut and shaped.....	510,267	163,318	73,611	1,178,627	23,774
Minerals and earths, ground or otherwise treated.....	735	206	.....	2,893	.....
Sand and gravel.....	1,573,609	345,883	8,517	12,428,233	58,473
Steam and other packing, pipe and boiler covering, and gaskets.....	100,942	152,884	3,754	58,209	15
Tiling, floor and wall, and terrazzo.....	290,548	106,937	12,745	158,412	3,659
Wall plaster, wallboard, and building insulation.....	124,623	626,760	20,049	654,167	12,294
Stone, clay, and glass products, n. e. c.....	116,769	74,416	63	37,346	1,713
Iron and steel and their products, not including machinery.....	9,643,978	8,168,674	240,775	46,981,510	305,234
Bolts, nuts, washers, and rivets.....	51,469	3,481	3,654	692,034	5,971
Doors, shutters, window sash and frames, molding and trim, metal.....	907,262	746,235	2,332	2,453,008	4,596
Firearms.....	3,070	.....	.....	.....	.....
Forgings, iron and steel.....	176,747	.....	3,088	2,595,794	2,607
Hardware, miscellaneous.....	256,801	436,508	13,799	779,909	40,195
Heating and ventilating equipment, except pipe.....	879,847	928,968	23,144	2,270,479	8,693
Nails and spikes.....	33,342	4,052	281	131,720	5,527
Pipe and fittings, cast-iron.....	669,885	641,376	8,165	1,200,792	33,639
Pipe and fittings, wrought-iron and steel.....	713,809	552,459	38,346	1,980,042	33,487
Plumbing fixtures and supplies, except pipe.....	326,520	1,517,334	27,042	930,593	26,618
Rail fastenings, except spikes.....	.....	.....	.....	26,457	.....
Rails, steel.....	13,867	728	.....	76,707	12,196
Springs, steel.....	10	.....	.....	.....	.....
Steel, reinforcing.....	1,668,961	1,377,933	10,893	4,792,229	30,100
Steel, structural.....	2,917,813	913,896	40,424	21,570,459	61,434
Stoves and ranges, other than electric.....	11,284	726,681	.....	746	.....
Switches, railway.....	5,319	.....	.....	22,043	.....

See footnotes at end of table.

TABLE 23.—*Value of Material Orders Placed on Construction Projects Financed by Federal Funds for the Third Quarter of 1940—Continued*

Type of material	Projects				
	Public Works Administration	U. S. H. A. low-rent housing	Reconstruction Finance Corporation	Regular Federal	Federal agency projects financed from W. P. A. funds
Iron and steel and their products—Continued.					
Tools, other than machine tools.....	\$82,936	\$11,749	\$4,469	\$988,428	\$14,355
Wire and wireworks products.....	109,370	49,776	3,877	1,358,549	14,326
Iron and steel and their products, n. e. c.....	815,666	257,478	61,261	5,111,521	11,490
Nonferrous metals and their products.....	533,892	652,928	203,106	2,368,781	10,772
Aluminum products.....	31,444	167		89,953	6
Copper products.....	145,247	943	96,903	1,463,439	4,308
Lead products.....	5,079	421	6	17,641	17
Sheet-metal products.....	234,316	248,600	105,487	655,652	5,633
Zinc products.....	4,461			114	
Nonferrous metals and their products, n. e. c.....	113,345	402,797	710	141,982	808
Machinery, not including transportation equipment.....	6,561,487	2,381,957	270,172	98,225,428	201,275
Electrical machinery, apparatus, and supplies	2,021,387	140,280	61,976	15,050,750	13,459
Electrical wiring and fixtures.....	1,679,148	1,043,241	64,438	9,056,512	23,437
Elevators and elevator equipment.....	407,462	29,403	7,295	1,005,584	123
Engines, turbines, tractors, and water wheels.....	295,530	1,023	47	27,450,645	13,057
Machine tools.....	86,015	29	806	712,012	3,192
Meters (gas, water, etc.) and gas generators.....	83,587	17,031	32,988	1,389	29
Pumps and pumping equipment.....	223,598	101,549	4,395	4,308,786	18,032
Radio apparatus and supplies.....	2,181			756,175	
Refrigerators and refrigerating and ice-making apparatus.....	49,496	858,052	900	86,623	
Machinery, n. e. c.....	1,713,083	191,349	97,327	39,796,952	129,946
Transportation equipment—air, land, and water.....	236,375	113	321	955,057	65,918
Aircraft.....					
Aircraft parts.....					
Boats, steel and wooden.....	2,632			41,365	
Carriages and wagons.....	3,551			1,314	51
Locomotives, other than steam.....					
Locomotives, steam.....					
Motorcycles and parts.....					
Motor vehicles, passenger.....	5,310		196	13,841	2,120
Motor vehicles, trucks.....	183,372		35	59,724	27,718
Railway cars, freight.....					
Railway cars, mail and express.....					
Railway cars, passenger.....					
Transportation equipment, n. e. c.....	41,510	113	90	838,813	36,029
Miscellaneous.....	2,218,165	2,919,581	6,476	19,168,342	666,650
Belting, miscellaneous.....	1,875	21		437	11
Coal and coke.....	37,304	962		4,558,301	3,888
Creosote.....	576	105		52	
Instruments, professional and scientific.....	42,298	304		130,641	1,192
Mattresses and bed springs.....	47,833			134	
Models and patterns.....	5,049	323		48	510
Paper products.....	1,815	17,185		18,395	1,328
Paving materials: Asphalt, tar, crushed slag, and mixtures.....	494,478	68,714		2,729,301	85,647
Petroleum products.....	486,697	132,205	2,971	5,762,988	58,854
Photographic apparatus and supplies.....	38,110	105		13,964	1,217
Roofing: Built-up and roll asphalt shingles and roof coatings, except paint.....	94,750	319,554	25	231,599	8,946
Rubber products.....	66,802	8,542	922	156,323	7,227
Theatrical scenery and stage equipment.....	39,680				
Window shades and fixtures.....	8,814	70,682		2,185	3
Other materials.....	852,174	2,300,879	2,558	5,563,974	497,827

¹ 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.

² Includes projects financed by RFC Mortgage Co.

³ 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 second quarter of 1940 is presented in table 24, by type of project.

TABLE 24.—Value of Material Orders Placed on Construction Projects Financed by Federal Funds for the Second Quarter of 1940

[Subject to revision]

Type of material	Total	Projects					
		Public Works Administration ¹	U. S. H. A. low-rent housing	Reconstruction Finance Corporation ²	Regular Federal	Federal agency projects financed from W. F. A. funds ³	Operated by W. F. A. ⁴
All materials.....	\$270,031,423	\$42,624,146	\$22,889,484	\$1,077,339	\$128,933,372	\$2,152,477	\$72,354,605
Textiles and their products.....	3,915,442	270,449	70,860	2,612	111,505	30,870	3,429,146
Cotton products.....	2,773,010	141	7	-----	1,135	784	2,770,943
Textiles and their products, n. e. c.....	1,142,432	270,308	70,853	2,612	110,370	30,086	658,203
Forest products.....	19,370,252	4,469,425	2,348,386	20,926	4,497,252	214,880	7,819,383
Furniture and related products.....	3,206,281	2,466,687	126,545	1,672	272,488	12,290	326,599
Lumber and timber products, n. e. c.....	16,089,573	1,941,874	2,221,573	19,254	4,211,887	202,201	7,492,784
Forest products, n. e. c.....	74,398	60,864	268	-----	12,877	389	-----
Chemicals and allied products.....	4,241,380	523,088	283,058	1,642	1,072,387	111,834	2,244,371
Explosives.....	1,642,120	162,932	17,592	64	660,438	12,076	789,018
Paints, pigments, and varnishes.....	2,040,169	333,109	254,571	1,011	355,601	61,951	1,033,926
Chemicals and allied products, n. e. c.....	559,091	32,047	10,895	567	56,348	37,807	421,427
Stone, clay, and glass products.....	73,747,341	13,399,832	6,751,394	115,032	28,887,323	351,066	24,242,694
Brick, hollow tile, and other clay products.....	6,472,631	1,011,490	1,822,087	8,880	523,414	21,333	3,085,427
Cement.....	27,362,963	4,455,913	788,823	39,024	14,729,971	175,265	7,173,967
Concrete products.....	9,890,548	2,374,155	2,146,578	22,191	989,714	14,295	4,343,615
Crushed stone.....	9,006,169	1,227,691	102,851	110	4,409,307	37,417	3,228,793
Sand and gravel.....	13,618,473	2,135,115	389,471	6,172	6,395,889	70,205	4,621,621
Stone, clay, and glass products, n. e. c.....	7,396,557	2,195,468	1,501,584	38,655	1,839,028	32,551	1,789,271
Iron and steel and their products, not including machinery.....	62,927,010	11,547,678	8,000,465	278,805	27,281,987	304,044	15,514,031
Hardware, miscellaneous.....	3,110,542	514,755	459,048	23,885	584,638	52,782	1,475,434
Pipe and fittings, cast iron.....	5,593,605	572,512	447,735	20,442	670,442	19,282	3,863,192
Plumbing, heating, and ventilating equipment, except pipe.....	8,785,370	1,932,805	2,291,694	62,783	2,033,896	40,396	2,423,734
Structural and reinforcing steel.....	24,789,749	5,410,415	2,764,612	52,402	13,671,651	88,927	2,801,742
Tools, other than machine tools.....	1,053,885	104,368	11,567	5,084	197,062	15,715	725,079
Iron and steel and their products, n. e. c.....	19,588,859	3,012,763	2,025,809	114,199	10,124,296	86,942	4,224,850

Nonferrous metals and their products.....	3,381,060	709,955	585,938	184,928	1,517,860	20,916	361,463
Machinery, not including transportation equipment.....	68,652,841	8,584,162	2,238,011	442,185	54,142,840	236,476	3,009,167
Electrical machinery, apparatus, and supplies.....	26,727,329	4,727,434	812,633	157,731	19,389,145	96,757	1,543,629
Machinery, n. e. c.....	41,925,512	3,856,728	1,425,378	284,454	34,753,695	139,719	1,465,538
Transportation equipment—air, land, and water.....	918,544	31,934	448	156	266,048	101,471	518,487
Miscellaneous.....	32,877,553	3,082,623	2,610,924	31,053	11,156,170	780,920	15,215,863
Coal and coke.....	516,613	80,658	4,982	257	119,744	837	310,135
Paving materials: Asphalt, tar, crushed slag, etc.....	5,784,949	628,376	13,144	120	1,521,531	43,886	3,577,892
Petroleum products.....	7,611,833	653,415	130,831	7,888	4,134,243	73,915	2,611,541
Roofing: Built-up and roll, asphalt singles and coatings, except paint.....	895,611	120,389	341,098	1,135	101,334	11,191	320,464
Rubber products.....	446,738	103,618	5,937	1,728	106,930	5,400	223,125
Other materials.....	17,621,809	1,496,167	2,114,932	19,925	5,172,388	645,691	8,172,706

¹ 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.

² Includes projects financed by RFC Mortgage Co.

³ 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.

⁴ 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 second quarter of 1940, the first quarter of 1940, and the second quarter of 1939 are shown in table 25, by type of rental and service.

TABLE 25.—Rentals and Services on Projects Operated by Work Projects Administration
[Subject to revision]

Type of rental and service	Second quarter of 1940	First quarter of 1940	Second quarter of 1939 ¹
All rentals and services.....	\$67, 118, 105	\$50, 644, 414	\$63, 716, 331
Motor vehicles.....	25, 770, 644	20, 442, 715	28, 094, 494
Teams and wagons.....	405, 360	358, 256	576, 636
Paving, road building, and construction equipment.....	17, 404, 927	15, 066, 908	19, 459, 545
Other equipment (including office equipment).....	2, 585, 824	2, 081, 725	1, 609, 777
Other rentals and services.....	20, 951, 350	12, 694, 810	13, 975, 879

¹ Revised.

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 26 shows the value of public contracts awarded under the act for supplies during the third quarter of 1940, the second quarter of 1940, and the third quarter of 1939.

TABLE 26.—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 material	Value of contracts awarded		
	Third quarter of 1940	Second quarter of 1940 ¹	Third quarter of 1939 ¹
All materials.....	\$1, 697, 284, 213	\$230, 568, 052	\$173, 379, 532
Food and kindred products.....	5, 405, 850	3, 508, 429	2, 275, 064
Canning and preserving: Fruits and vegetables.....	2, 007, 761	522, 403	951, 698
Canning and preserving: Sea foods.....	173, 951	11, 270	59, 521
Cereal preparations.....	16, 637	9, 201	.....
Coffee and tea.....	346, 090	538, 380	43, 615
Condensed and evaporated milk.....	736, 852	286, 515	118, 971
Feeds, prepared, for animals and fowls.....	208, 495	220, 364	211, 424
Flour and other grain-mill products.....	295, 282	172, 125	102, 494
Meat-packing products.....	407, 424	345, 910	170, 792
Shortening and vegetable cooking oil.....	49, 600	.....	.....
Sugar.....	405, 860	446, 399	231, 719
Miscellaneous food products.....	757, 898	955, 862	384, 830

¹ Revised.

TABLE 26.—*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		
	Third quarter of 1940	Second quarter of 1940	Third quarter of 1939
Textiles and their products.....	\$120, 236, 668	\$47, 680, 221	\$8, 716, 887
Awnings, tents, sails, and canvas covers.....	6, 491, 029	528, 686	216, 074
Clothing (overcoats, suits, trousers, etc.).....	13, 885, 284	1, 700, 597	214, 155
Clothing, manufacture only ¹	334, 783	46, 488	13, 275
Cordage and twine, including thread.....	633, 392	366, 702	147, 994
Cotton goods (drills, prints, sheetings, etc.).....	20, 818, 454	5, 820, 958	3, 683, 863
Furnishing goods, men's, not elsewhere classified.....	3, 107, 296	1, 098, 692	1, 453, 672
House furnishing goods (pillow cases, sheets, etc.).....	4, 341, 373	5, 842, 398	727, 227
Knit goods (hosiery, underwear, etc.).....	11, 751, 168	459, 581	363, 689
Linoleum.....	11, 187	94, 492	.....
Woolen goods (flannels, suiting, etc.).....	48, 459, 439	28, 383, 365	665, 022
Work clothing.....	3, 585, 954	529, 433	509, 673
Miscellaneous textile products.....	6, 817, 309	1, 908, 329	722, 243
Forest products.....	2, 910, 891	3, 294, 362	2, 853, 255
Cork and cork products.....	29, 946	24, 584	12, 450
Furniture.....	913, 158	603, 288	566, 000
Lumber and timber products, not elsewhere classified.....	1, 231, 609	951, 067	631, 898
Planing-mill products.....	453, 588	1, 530, 368	1, 537, 448
Treated lumber and timber.....	136, 718	116, 429	105, 459
Miscellaneous forest products.....	145, 872	68, 626	.....
Chemicals and allied products.....	252, 691, 379	8, 299, 736	5, 886, 117
Ammunition and related products.....	148, 569, 251	1, 818, 212	3, 561, 738
Compressed and liquefied gases.....	15, 890	141, 524	.....
Drugs and medicines.....	103, 126	163, 901	118, 024
Explosives.....	98, 368, 395	1, 906, 946	584, 673
Linseed oil.....	167, 446	37, 106	80, 196
Paints and varnishes.....	1, 114, 697	442, 526	317, 188
Soap and soap chips.....	263, 427	116, 499	79, 516
Miscellaneous chemicals.....	4, 089, 147	3, 672, 622	1, 144, 782
Products of asphalt, coal, and petroleum.....	6, 258, 928	29, 396, 220	6, 406, 734
Asphalt, oil, tar, and mixtures.....	687, 464	1, 140, 240	318, 023
Coal and coke.....	2, 218, 623	6, 861, 728	1, 480, 366
Fuel oil.....	2, 141, 710	9, 928, 645	1, 619, 066
Gasoline.....	949, 583	8, 996, 529	2, 659, 200
Lubricating oils and greases.....	35, 034	2, 086, 832	86, 832
Miscellaneous coal and petroleum products.....	226, 514	382, 246	243, 247
Leather and its manufactures.....	9, 603, 274	1, 827, 423	1, 698, 540
Boots and shoes.....	6, 109, 949	1, 507, 400	1, 291, 687
Boot and shoe cut stock.....	245, 707	21, 760	294, 025
Gloves.....	1, 223, 456	165, 654	.....
Miscellaneous leather goods.....	2, 024, 162	192, 609	112, 828
Stone, clay, and glass products.....	4, 033, 877	7, 334, 399	4, 212, 773
Brick.....	37, 206	205, 761	96, 773
Cement.....	932, 892	3, 337, 668	1, 371, 450
Concrete pipe.....	78, 578	123, 663	204, 867
Concrete, ready mixed.....	217, 672	691, 069	556, 642
Crushed stone.....	196, 968	577, 752	125, 958
Glass.....	1, 017, 840	305, 911	147, 595
Granite and marble.....	21, 415	407, 667	116, 426
Riprap stone.....	252, 226	14, 400	228, 531
Sand and gravel.....	253, 952	252, 972	290, 972
Slag.....	86, 008	345, 988	45, 450
Soil, black earth.....	46, 852	108, 901	51, 666
Steam and other packing and boiler covering.....	58, 253	307, 125	19, 089
Terra cotta.....	.....	42, 480	.....
Tile, clay, including drain.....	.....	98, 537	12, 748
Vitrified clay and terra cotta pipe.....	26, 396	514, 205	944, 606
Miscellaneous stone, clay, and glass products.....	807, 619	.....	.....

¹ Labor only. Materials furnished by United States Government.

TABLE 26.—*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		
	Third quarter of 1940	Second quarter of 1940	Third quarter of 1939
Iron and steel and their products, not including machinery	\$397, 439, 383	\$21, 510, 748	\$34, 427, 896
Bolts, nuts, rivets, washers, etc.....	706, 135	269, 378	69, 231
Cast-iron pipe and fittings.....	376, 379	228, 882	315, 889
Fencing materials.....	101, 143	15, 125	47, 893
Firearms and artillery.....	348, 892, 919	2, 925, 400	
Forgings, iron and steel.....	10, 880, 158	5, 160, 285	3, 378, 605
Hardware, miscellaneous.....	260, 862	24, 055	10, 650
Metal doors, window sash and frames, and trim.....	12, 206	85, 564	
Metal furniture.....	3, 300, 612	1, 645, 609	892, 947
Metal shingles and roofing.....	121, 064	57, 813	40, 456
Pipe and fittings, not elsewhere classified.....	229, 684	66, 152	185, 660
Plumbing fixtures and supplies.....	184, 960	83, 233	24, 271
Rails and fastenings.....		49, 363	48, 537
Reinforcing steel.....	254, 110	732, 129	176, 291
Steel pipe and fittings.....	468, 888	315, 605	334, 451
Steel sheets, plates, shapes, and strips.....	7, 870, 406	845, 435	7, 231, 066
Stoves and ranges, other than electric.....	1, 538, 286	740, 554	127, 058
Structural steel, fabricated, and sheet-steel piling.....	2, 763, 571	834, 912	7, 692, 230
Tools, other than machine tools.....	949, 519	190, 677	147, 126
Wire products.....	1, 159, 754	613, 639	250, 199
Miscellaneous iron and steel products.....	17, 368, 727	6, 626, 938	13, 446, 336
Nonferrous metals and their alloys.....	29, 347, 052	7, 912, 411	4, 421, 360
Aluminum manufactures.....	3, 201, 107	1, 761, 269	540, 470
Brass products.....	996, 687	2, 513, 628	1, 303, 807
Bronze products.....	255, 354	88, 741	449, 874
Copper products.....	708, 898	339, 692	346, 045
Fixtures, gas and electric.....	19, 687, 659	98, 972	64, 275
Lead products.....	280, 800	81, 983	140, 345
Magnesium.....	102, 887	40, 971	
Nickel.....	173, 189	192, 314	192, 928
Plated ware.....	511, 473	25, 479	
Sheet-metal work.....	219, 880	22, 314	
Tin.....	258, 150	368, 005	16, 597
Zinc.....	219, 643	10, 725	33, 000
Miscellaneous nonferrous metals and alloys.....	2, 731, 235	2, 368, 318	1, 334, 019
Machinery, not including electrical and transportation equipment.....	45, 103, 341	22, 619, 486	12, 038, 083
Air-conditioning equipment.....	64, 791	39, 182	62, 852
Business machines.....	88, 950	58, 350	87, 623
Cranes.....	643, 276	806, 682	
Elevators and elevator equipment.....	69, 108	387, 590	44, 381
Engines, turbines, tractors, and parts.....	12, 931, 581	9, 653, 219	2, 226, 794
Filter and purification equipment.....	206, 778	90, 059	91, 312
Laundry machinery and equipment.....	99, 121	309, 798	78, 591
Machine tools.....	16, 327, 332	4, 094, 962	3, 289, 972
Phonographs and accessories.....			
Power shovels and draglines.....	585, 138	249, 893	90, 339
Printing and publishing machinery.....	570, 539	151, 735	567, 072
Pumps and pumping equipment.....	4, 895, 263	2, 145, 227	1, 411, 556
Refrigerators and refrigerating and ice-making machinery.....	210, 283	112, 037	235, 562
Road machinery.....	973, 829	196, 429	54, 151
Windlasses, hawsers, winches, and capstans.....	458, 986	359, 539	202, 346
Miscellaneous machinery and parts.....	6, 978, 360	3, 964, 784	3, 595, 732
Electrical machinery, apparatus, and supplies.....	58, 910, 186	18, 049, 741	11, 142, 542
Batteries.....	206, 459	897, 075	58, 747
Circuit breakers and switches.....	960, 011	273, 204	1, 255, 834
Communication equipment.....	22, 739, 039	3, 899, 678	5, 679, 006
Electric cable, wire, and other conductors.....	8, 890, 481	4, 227, 949	1, 297, 083
Generators and spare parts.....	9, 518, 500	3, 392, 083	1, 463, 257
Heaters and ranges.....	48, 745	84, 911	52, 337
Lamps, incandescent, and X-ray tubes.....	39, 300		
Motors.....	220, 766	12, 800	12, 586
Switchboards, relay and control equipment.....	223, 542	1, 630, 180	249, 906
Transformers.....	553, 681	1, 873, 149	316, 961
Welding equipment.....	416, 318	220, 542	26, 840
Miscellaneous electrical machinery, apparatus, and supplies.....	15, 093, 344	1, 538, 170	729, 985

TABLE 26.—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		
	Third quarter of 1940	Second quarter of 1940 ¹	Third quarter of 1939 ¹
Transportation equipment.....	\$719,364,900	\$35,397,971	\$74,313,438
Aircraft.....	266,505,431	402,708	66,982,735
Aircraft parts and equipment.....	84,885,986	2,740,036	3,817,618
Boats and boat equipment.....	7,236,654	9,121,052	141,148
Motor vehicles, passenger.....	81,030,516	6,096,001	1,717,792
Motor vehicles, trucks.....	115,642,160	6,002,901	1,465,985
Motorcycles and parts.....	459,152	205,100	-----
Railway cars.....	74,287	458,902	-----
Railway locomotives.....	224,883	132,347	-----
Miscellaneous transportation equipment.....	163,305,831	10,238,924	188,160
Miscellaneous.....	45,978,484	23,736,905	4,986,843
Brooms, brushes, bristles, etc.....	324,415	38,901	18,455
Dental goods and equipment.....	253,014	172,673	-----
Instruments, professional and scientific.....	17,974,909	10,025,567	2,509,253
Office equipment and supplies, not elsewhere classified.....	720,973	1,348,997	109,460
Paper and allied products.....	680,587	5,141,376	685,213
Photographic apparatus and material.....	1,044,052	1,598,379	259,544
Printing, publishing, and subscriptions.....	143,946	413,425	105,740
Rubber products.....	3,062,800	1,071,451	157,897
Surgical and orthopedic supplies and appliances.....	2,274,924	350,715	210,911
Tobacco manufactures.....	173,679	203,133	16,375
Other materials.....	18,464,382	2,678,586	723,762
Rentals, services, etc. (equipment rental, repairs, general surveys, etc.).....	860,803	693,702	190,233

The value of public contracts awarded for supplies by Federal agencies totaled \$1,697,284,000 during the third quarter of 1940. Of the contracts awarded in the third quarter of 1940, \$719,365,000 was for transportation equipment; \$397,439,000 for iron and steel products, not including machinery; \$252,691,000 for chemicals; and \$120,237,000 for textiles.

