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Frances Perkins, *Secretary*

BUREAU OF LABOR STATISTICS

Isador Lubin, *Commissioner*



EMPLOYMENT AND PAY ROLLS

Prepared by

DIVISION OF EMPLOYMENT STATISTICS

Lewis E. Talbert, *Chief*

and

DIVISION OF CONSTRUCTION AND

PUBLIC EMPLOYMENT

Herman B. Byer, *Chief*

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Employment and Pay Rolls



SUMMARY OF REPORTS FOR JUNE 1940

Total Nonagricultural Employment

THE return of approximately 255,000 workers to jobs in nonagricultural industries between May and June raised the June employment level to the highest point reached this year, an increase of more than 900,000 workers over June 1939. Gains were reported in all major groups of nonagricultural employment except mining.

Factory employment showed a rise of about 30,000 from May to June, although it usually declines about 60,000 at this season of the year. Approximately 80,000 more workers were employed on public and private construction work in June than in the preceding month and about 35,000 were added by utility and transportation companies. Retail and wholesale trade employment increased by 34,000 and the financial, service, and miscellaneous industries absorbed 28,000 additional workers. Employment in the Federal, State, and local government service, including navy yards and arsenals, and the armed forces of the United States, was about 57,000 higher than in the preceding month. In the group of mining industries there was a net decline of about 7,000 workers, due to seasonal recessions in anthracite and bituminous coal mining. Metal mines, quarries, and crude-petroleum producing firms reported gains over the month interval.

These figures do not include emergency employment which decreased 317,000, as follows: 255,000 on projects operated by the Work Projects Administration, 26,000 on the out-of-school work program of the National Youth Administration, and 36,000 in the Civilian Conservation Corps.

Industrial and Business Employment

Employment gains from May to June were shown by 51 of the 90 manufacturing industries surveyed and by 12 of the 16 nonmanufacturing industries covered. Pay rolls were larger in 53 of the manufacturing and 12 of the nonmanufacturing industries.

The employment gain of 0.4 percent or about 30,000 workers in manufacturing industries as a whole was accompanied by a gain of 1.7 percent or approximately \$3,200,000 in weekly pay rolls. War-materials industries continued to expand their operations. Among

them was aircraft manufacturing with a gain of 5,300 workers over the month interval and 46,500 workers when compared with the average for 1937. The corresponding gains for shipbuilding were 2,500 and 26,300, for engine manufacturing 2,900 and 17,500, for machine-tool manufacturing 2,200 and 17,600, for aluminum manufacturing 500 and 3,300, and for explosives 500 and 2,100. In other lines of manufacturing activity, employment in June was generally below the peak months of 1937.

Among other manufacturing industries affected directly or indirectly by war orders were the steel industry with 21,100 more workers in June than in May, the woolen and worsted goods industry with 6,900 more workers, the men's clothing industry with 6,300 more workers, and the electrical machinery industry with 3,100 more workers. A seasonal gain of 32,800 wage earners was shown by the canning industry, and smaller but substantial seasonal gains were shown by the ice cream, beverage, and tin-can industries, as well as by a number of building-material industries. The most pronounced losses in manufacturing employment over the month interval were seasonal in character and were shown by automobile plants (20,200 workers), women's clothing firms (18,500 workers), cotton mills (8,400), fertilizer plants (7,500), hardware firms (7,400), and plants engaged in dyeing and finishing textiles (4,500).

Wage-rate increases affecting nearly 27,000 factory wage earners were reported in June by 87 cooperating establishments. These wage-rate increases affected over 6,000 workers in the shipbuilding industry, more than 5,000 workers in the paper and pulp industry, over 4,000 in the electrical-machinery industry, over 2,000 in the rayon industry, about 1,500 in the chemical industries, over 1,000 in engine plants, and a like number in beverage establishments. As the Bureau's survey does not cover all establishments in an industry and some firms may have failed to report wage changes, these figures should not be construed to represent the total number of wage changes occurring in manufacturing industries.

In retail stores, the employment gain of 0.3 percent was accompanied by a pay-roll increase of 1.2 percent. Department stores increased their staffs by 0.9 percent while variety stores reported a small employment loss (0.4 percent). Employment in groceries remained virtually unchanged. Men's clothing stores took on 6.6 percent more employees; shoe stores, 5.7 percent; fuel and ice dealers, 4.7 percent; and dealers in dairy products and milk, 2.5 percent. Stores handling feed and other farm supplies decreased employment seasonally by 5.8 percent, and women's ready-to-wear clothing by 2.4 percent.

The employment gain of 0.5 percent in wholesale trade reflected the increase in employees of dealers in various important wholesale lines including food, groceries, farm products, and petroleum. In lumber and building materials, the increase of 5.2 percent was materially higher than the average June increase for the past 6 years, and also higher than the June 1937 gain of 3.1 percent. Dealers in iron and steel scrap increased employment contraseasonally by 6.3 percent and firms handling metals and minerals took on 1.5 percent more employees.

Employment in anthracite mines decreased seasonally between mid-May and mid-June by 3.9 percent but slightly increased production raised pay rolls by 1.6 percent. Bituminous coal mines decreased both employment and pay rolls by 1.7 percent.

In metal mines, gains in employment and pay rolls of 1.8 percent and 1.6 percent, respectively, reflected better-than-seasonal activity. Increased wage rates affecting 2,000 workers in lead and zinc mines were reported by cooperating firms. The employment and pay-roll indexes for metal mining, 70.4 percent and 66.8 percent, respectively, of the 1929 averages, reached the highest points since the latter months of 1937, the pay-roll index standing 24 percent above the level of June of last year. Quarries reported the usual June increase in number of workers (1.7 percent) and employment in the oil fields registered a slight gain (0.9 percent). In the utilities, the increases of 0.9 percent in telephone and telegraph and 0.8 percent in electric light and power personnel were slightly more pronounced than is usual in June. Pay rolls in these two industries have been maintained at a relatively higher level than employment, the pay-roll gains of 0.1 percent in the telephone and telegraph industry and 0.9 percent in the electric light and power industry raising the respective indexes to 98.9 percent and 105.1 percent of the 1929 average. The current employment levels are substantially lower than the pay-roll levels. Small employment and pay-roll gains were reported for street railways and busses.

Early summer losses of 2.3 percent in employment and 1.5 percent in pay rolls occurred in year-round hotels. Better-than-seasonal gains in employment were reported by laundries (3.5 percent) and dyeing and cleaning plants (3.4 percent). The employment indexes of both industries were higher than the 1929 averages. Slight decreases in personnel and pay rolls occurred in brokerage firms while insurance companies took on 0.6 percent more employees.

Employment in the private building industry showed an increase of 5.1 percent from May to June, according to reports from 15,307 contractors employing 164,725 workers. Weekly pay rolls increased 5.0 percent. Compared with June 1939, employment was 9.3 percent

and pay rolls 13.1 percent higher. Eight of the nine geographic divisions showed employment gains over the month interval, and one, the East South Central, showed an employment decline. The strongest gains were registered in the East North Central, South Atlantic, and Mountain States. Employment by general building contractors increased 8.9 percent and by special trade contractors 2.3 percent. Firms engaged in plumbing, brick and stone masonry work, tile and terrazzo work, structural steel erection, and glazing, continued to increase employment in June. Curtailed employment following strong spring activity was registered by carpentering, excavating, and painting and decorating contractors. The reports on which the 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 showed an employment gain by class I railroads of 2.2 percent or nearly 22,300 workers between May and June. The total number employed in June was 1,035,079. Corresponding pay-roll figures were not available when this report was prepared. For May, they were \$160,733,166, an increase of 3.4 percent since April.

Hours and earnings.—The average hours worked per week by manufacturing wage earners were 37.5 in June, a gain of 0.8 percent since May. The corresponding average hourly earnings were 67.2 cents, an increase of 0.4 percent from the preceding month. The average weekly earnings of factory workers were \$25.79, an increase of 1.2 percent since May.

Of the 14 nonmanufacturing industries for which man-hours are available, 8 showed gains in average hours worked per week and 11 showed gains in average hourly earnings. Eight of the sixteen nonmanufacturing industries surveyed reported gains in weekly earnings.

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

Industry	Employment			Pay roll			Average weekly earnings		
	Index June 1940	Percentage change from—		Index June 1940	Percentage change from—		Average in June 1940	Percentage change from—	
		May 1940	June 1939		May 1940	June 1939		May 1940	June 1939
All manufacturing industries combined ¹ ..	(1923-25 =100) 99.4	+0.4	+6.44	(1923-25 =100) 97.9	+1.7	+13.2	\$25.79	+1.2	+6.4
Class I steam railroads ² ..	57.9	+2.2	+4.2	(³)	(³)	(³)	(³)	(³)	(³)
Coal mining:	(1929= 100)			(1929= 100)					
Anthracite ⁴ ..	50.2	-3.9	-2.1	40.6	+1.6	+12.6	26.63	+5.7	+15.0
Bituminous ⁴ ..	83.7	-1.7	+6.9	74.0	-1.7	+11.3	23.83	-1	+4.1
Metalliferous mining..	70.4	+1.8	+14.3	66.8	+1.6	+24.1	29.56	-1	+8.6
Quarrying and nonmetallic min- ing..	47.7	+1.7	+8	43.3	+1.3	+3.8	22.65	-4	+2.9
Crude-petroleum production..	63.8	+9	-4.8	58.7	+(⁵)	-6.0	33.74	-9	-1.3
Public utilities:									
Telephone and telegraph ⁶ ..	77.9	+9	+2.1	98.9	+1	+3.4	31.18	-8	+1.3
Electric light and power ⁶ ..	91.3	+8	+2.4	105.1	+9	+3.8	35.10	+(⁵)	+1.3
Street railways and busses ⁶ ⁸ ..	68.6	+4	-9	70.0	+1.1	-(⁵)	33.62	+7	+1.0
Trade:									
Wholesale ⁹ ..	89.3	+5	+1.4	77.9	+7	+2.7	30.61	+2	+1.3
Retail ⁹ ..	91.5	+3	+2.3	84.4	+1.2	+4.1	21.55	+9	+1.7
Hotels (year-round) ⁴ ¹⁰ ..	91.2	-2.3	-1.7	81.8	-1.5	-3	15.49	+8	+1.4
Laundries ⁴ ..	102.5	+3.5	+3.9	92.3	+4.3	+6.2	18.47	+8	+2.2
Dyeing and cleaning ⁴ ..	112.5	+3.4	+2.1	89.6	+4.9	+6.4	21.75	+1.4	+4.2
Brokerage..	(³)	-3	+1.5	(³)	-7	+1.8	37.24	-5	+3
Insurance..	(³)	+6	+1.5	(³)	-1	+1.5	36.75	-7	-(⁵)
Building construction..	(³)	+5.1	+9.3	(³)	+5.0	+13.1	31.94	-2	+3.4
Water transportation ¹¹ ..	78.0	-4.5	(³)	(³)	(³)	(³)	(³)	(³)	(³)

¹ Revised indexes—Adjusted to 1937 Census of Manufacturers.

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 the pamphlet *Employment and Pay Rolls*.

⁵ Less than $\frac{1}{10}$ 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 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 or February 1935 and subsequent issues of *Monthly Labor Review*.

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

In contrast with employment on other construction programs, the number of men at work on construction projects financed from Public Works Administration funds decreased in the month ending June 15. Approximately 92,000 workers, a decrease of 6,000 from the month ending May 15, found employment on P. W. A. projects during the month. Pay roll disbursements of \$9,305,000 were \$638,000 less than in May.

As a result of the beginning of work on a number of new projects, contractors on low-rent projects of the United States Housing Authority were able to give employment to an additional 6,000 building-trades workers in the month ending June 15. Wage payments of \$4,955,000 to the 50,000 workers employed were \$337,000 greater than in May.

Although almost all types of projects showed employment gains in the month ending June 15, the seasonal increase on public road projects was largely responsible for a gain of 24,000 on construction projects financed from regular Federal appropriations. The 300,000 men employed on all projects financed from regular funds were paid \$31,819,000, or \$1,641,000 more than payments in the preceding month.

The number of men employed on construction projects financed by the Reconstruction Finance Corporation rose about 200 in the month ending June 15, bringing the number employed to 2,100. Pay rolls for the month were \$260,000.

Because of budgetary restrictions, employment on work relief projects of the Work Projects Administration was curtailed to 1,583,000 in June, a decrease of 255,000 from May. Wage payments of \$96,545,000 to workers on these projects were \$13,596,000 less than in May. The number of persons at work on Federal Agency projects under the Work Projects Administration, however, increased 11,000 in June.

The out-of-school work program of the National Youth Administration furnished employment to 26,000 fewer persons in June and, because of the end of the school year in many colleges and universities, the number of students employed on the student work program decreased 163,000.

With the end of an enlistment period, employment in camps of the Civilian Conservation Corps dropped 36,000 in June. Of the 275,500 on the pay roll, 244,600 were enrollees; 1,500, educational advisers; 200, nurses; and 29,200, supervisory and technical employees.

In the regular services of the Federal Government increases were reported in the executive, military, and legislative services, while a decrease was reported in the judicial service. Of the 1,011,000

employees in the executive service, 134,000 were working in the District of Columbia and 877,000 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 9 percent of the total number of employees in the executive service.

Employment on State-financed road projects was up 15,000 in June. Of the 190,000 on the pay roll, 56,000 were engaged in the construction of new roads and 134,000 on maintenance. Pay-roll disbursements for both types of road work were \$13,450,000.

A summary of Federal employment and pay-roll data for June is given in table 2.

TABLE 2.—*Summary of Federal Employment and Pay Rolls, June and May 1940*¹
[Preliminary figures]

Class	Employment			Pay rolls		
	June	May	Percent- age change	June	May	Percent- age change
Federal services:						
Executive ²	1,010,999	977,990	+3.4	\$149,065,551	\$149,205,295	-0.1
Judicial.....	2,468	2,499	-1.2	585,419	604,457	-3.1
Legislative.....	5,886	5,851	+6	1,303,166	1,303,465	(³)
Military.....	473,471	464,111	+2.0	33,645,677	33,404,769	+7.8
Construction projects:						
Financed by P. W. A. ⁴	91,609	97,621	-6.2	9,305,085	9,942,607	-6.4
U. S. H. A. low-rent housing..	49,743	44,390	+12.1	4,954,520	4,617,858	+7.3
Financed by R. F. C. ⁵	2,095	1,864	+12.4	259,871	234,089	+11.0
Financed by regular Federal appropriations.....	299,760	276,098	+8.6	31,818,888	30,177,734	+5.4
Federal agency projects financed by						
W. P. A.	112,328	101,015	+11.2	5,142,507	4,787,293	+7.4
Projects operated by W. P. A.	1,583,242	1,837,854	-13.9	96,545,418	110,140,815	-12.4
National Youth Administration:						
Student work program.....	314,539	477,810	-34.2	2,321,283	3,438,029	-32.5
Out-of-school program.....	274,090	300,105	-8.7	5,558,254	5,593,894	-6.2
Civilian Conservation Corps.....	275,529	312,094	-11.7	11,980,550	14,003,437	-14.4

¹ Includes data on projects financed wholly or partially from Federal funds.

² Includes force-account and supervisory and technical employees shown under other classifications to the extent of 124,108 employees and pay-roll disbursements of \$15,965,975 for June 1940, and 127,176 employees and pay-roll disbursements of \$17,243,929 for May 1940.

³ Less than $\frac{1}{10}$ of 1 percent.

⁴ Data covering P. W. A. projects financed from National Industrial Recovery Act funds, Emergency Relief Appropriation Acts of 1935, 1936, and 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 7,456 wage earners and \$716,866 pay roll for June 1940; 7,735 wage earners and \$767,603 pay roll for May 1940, covering Public Works Administration projects financed from Emergency Relief Appropriation Acts of 1935, 1936, and 1937 funds. Includes 81,254 wage earners and \$8,209,485 pay roll for June 1940; 86,968 wage earners and \$8,848,178 pay roll for May 1940, covering Public Works Administration projects financed from funds provided by the Public Works Administration Appropriation Act of 1938.

⁵ Includes 1,078 employees and pay-roll disbursements of \$162,325 for June 1940; 862 employees and pay-roll disbursements of \$135,048 for May 1940 on projects financed by the RFC Mortgage Co.

The value of material orders placed on projects financed from regular Federal appropriations during the second quarter of 1940 amounted to \$128,933,000. Approximately 242,000 man-months of labor were involved in the final fabrication of these materials. On P. W. A. projects orders were placed for \$42,624,000 worth of materials, for which it is estimated 88,000 man-months of labor were required in final fabrication processes.

The value of material orders placed on the various programs financed by Federal funds during the second quarter of 1940, the first quarter of 1940, and the second 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		
	Second quarter of 1940	First quarter of 1940	Second quarter of 1939	Second quarter of 1940	First quarter of 1940	Second quarter of 1939
Public Works Administration ¹	\$42,624,146	\$63,128,873	\$133,209,873	88,349	139,373	306,572
U. S. H. A. low-rent housing	22,889,484	14,901,956	5,562,126	53,442	34,351	12,854
Reconstruction Finance Corporation ²	1,077,339	1,378,821	2,909,351	2,094	2,848	5,932
Regular Federal Appropriations	128,933,372	112,944,887	109,910,717	242,488	218,586	206,657
Federal Agency Projects financed from W. P. A. funds ³	2,152,477	1,764,666	3,374,808	4,130	3,540	7,056
Projects operated by W. P. A.	(⁴)	64,648,816	80,546,610	(⁴)	142,510	194,495
Rentals and services on projects operated by W. P. A.	(⁴)	50,644,414	63,716,331	(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 JUNE 1940

Estimates of Nonagricultural Employment

TWO sets of estimates of nonagricultural employment have been prepared. The first, "Total nonagricultural employment," given on the first line of table 4, shows the estimated 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 second series, which is 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 May and June 1940 and June 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 Nonagricultural Employment, by Major Groups*

[In thousands]

Industry	June 1940 (preliminary)	May 1940	Change May to June 1940	June 1939	Change June 1939 to June 1940
Total nonagricultural employment ¹	35,486	35,230	+256	34,544	+942
Employees in nonagricultural establishments ²	29,342	29,082	+239	28,400	+921
Manufacturing	9,534	9,502	+32	9,023	+511
Mining	838	845	-7	793	+45
Construction	1,329	1,248	+81	1,334	-5
Transportation and public utilities	2,991	2,956	+35	2,924	+67
Trade	6,156	6,122	+34	6,063	+93
Finance, service, and miscellaneous	4,222	4,194	+28	4,167	+55
Federal, State, and local government, including armed forces	4,272	4,215	+57	4,096	+176

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.

TABLE 5.—*Estimated Number of Employees in Nonagricultural Establishments, by States, in Thousands*

[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	June 1940 (preliminary)	May 1940	Change, May to June 1940		June 1939	Change, June 1939 to June 1940	
			Number	Percentage		Number	Percentage
New England.....	2,430	2,407	+23	+0.9	2,397	+33	+1.4
Maine.....	187	183	+4	+2.2	193	-6	-2.6
New Hampshire.....	124	123	+1	+ .8	125	-1	-1.4
Vermont.....	77	76	+1	+1.8	74	+3	+4.2
Massachusetts.....	1,257	1,249	+8	+ .6	1,256	+1	(1)
Rhode Island.....	221	218	+3	+1.6	220	+1	+ .6
Connecticut.....	564	558	+6	+ .9	529	+35	+6.6
Middle Atlantic.....	7,604	7,532	+72	+1.0	7,337	+267	+3.6
New York.....	3,833	3,803	+30	+ .8	3,760	+73	+1.9
New Jersey.....	1,145	1,130	+15	+1.3	1,087	+58	+5.3
Pennsylvania.....	2,626	2,599	+27	+1.0	2,490	+136	+5.5
East North Central.....	6,639	6,578	+61	+ .9	6,339	+300	+4.8
Ohio.....	1,732	1,705	+27	+1.6	1,658	+74	+4.5
Indiana.....	760	745	+15	+2.0	717	+43	+6.1
Illinois.....	2,192	2,177	+15	+ .7	2,101	+91	+4.4
Michigan.....	1,336	1,340	-4	- .3	1,250	+86	+6.9
Wisconsin.....	619	611	+8	+1.3	613	+6	+1.1
West North Central.....	2,337	2,312	+25	+1.0	2,319	+18	+ .7
Minnesota.....	522	512	+10	+1.8	520	+2	+ .3
Iowa.....	398	394	+4	+1.1	399	-1	- .2
Missouri.....	77	755	+5	+ .7	751	+9	+1.2
North Dakota.....	77	75	+2	+2.7	76	+1	+1.1
South Dakota.....	83	81	+2	+1.4	81	+2	+1.5
Nebraska.....	203	201	+2	+ .8	202	+1	+ .5
Kansas.....	294	294	0	(1)	290	+4	+1.1
South Atlantic.....	3,346	3,344	+2	(1)	3,247	+99	+3.0
Delaware.....	68	67	+1	+1.7	64	+4	+6.4
Maryland.....	497	494	+3	+ .7	470	+27	+5.7
District of Columbia.....	334	332	+2	+ .8	317	+17	+5.4
Virginia.....	480	472	+8	+1.8	464	+16	+3.6
West Virginia.....	368	365	+3	+ .8	353	+15	+4.0
North Carolina.....	555	558	-3	- .6	553	+2	+ .4
South Carolina.....	269	269	0	(1)	267	+2	+ .8
Georgia.....	456	450	-3	- .8	441	+15	+3.4
Florida.....	319	328	-9	-2.9	318	+1	+ .2
East South Central.....	1,316	1,316	0	(1)	1,289	+27	+2.0
Kentucky.....	356	354	+2	+ .7	344	+12	+3.4
Tennessee.....	437	436	+1	+ .1	423	+14	+3.3
Alabama.....	350	352	-2	- .5	342	+8	+2.4
Mississippi.....	173	174	-1	- .4	180	-7	-4.0
West South Central.....	1,775	1,787	-12	- .6	1,785	-10	- .5
Arkansas.....	169	168	+1	+ .5	172	-3	-2.0
Louisiana.....	359	365	-6	-1.5	356	+3	+ .9
Oklahoma.....	286	287	-1	- .3	293	-7	-2.1
Texas.....	961	967	-6	- .6	964	-3	- .3
Mountain.....	761	747	+14	+1.8	751	+10	+1.1
Montana.....	112	109	+3	+2.9	109	+3	+3.0
Idaho.....	84	81	+3	+3.2	82	+2	+2.0
Wyoming.....	52	50	+2	+4.2	53	-1	-2.4
Colorado.....	217	214	+3	+1.2	217	0	- .2
New Mexico.....	70	69	+1	+1.7	69	+1	+ .9
Arizona.....	87	87	0	+ .3	87	0	+ .4
Utah.....	107	105	+2	+1.9	104	+3	+2.2
Nevada.....	32	32	0	- .9	30	+2	+5.7
Pacific.....	2,359	2,328	+31	+1.3	2,302	+57	+2.5
Washington.....	423	416	+7	+1.7	413	+10	+2.4
Oregon.....	235	223	+12	+5.4	227	+8	+3.6
California.....	1,701	1,689	+12	+ .7	1,662	+39	+2.4

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.

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 the 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 movements of earnings and hours over the period shown. The changes from the preceding month, expressed as percentages, are based on identical lists of firms for the 2 months, but the changes from June 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 June 1940 are shown in table 6. Percentage changes from May 1940 and June 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 April, May, and June 1940, where available, are presented in table 7. The April and May figures, where given, may differ in some instances from those previously published because of revisions necessitated primarily by the inclusion of late reports.

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 the 13 non-manufacturing industries, by months, from June 1939 to June 1940, inclusive. The accompanying chart indicates the trend of factory employment and pay rolls from January 1919 to June 1940.



TABLE 6.—*Employment, Pay Rolls, Hours, and Earnings in Manufacturing and Nonmanufacturing Industries, June 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 to indexes published in the July 1939 and earlier issues of the 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 June 1940	Percentage change from—		Index June 1940	Percentage change from—		June 1940	Percentage change from—		June 1940	Percentage change from—		June 1940	Percentage change from—	
		May 1940	June 1939		May 1940	June 1939		May 1940	June 1939		May 1940	June 1939		May 1940	June 1939
All manufacturing.....	99.4	+0.4	+6.4	97.9	+1.7	+13.2	\$25.79	+1.2	+3.4	37.5	+0.8	+0.4	<i>Cents</i> 87.2	+0.4	+4.6
Durable goods.....	97.0	+ .5	+14.7	100.1	+2.7	+24.0	29.48	+2.2	+8.2	38.7	+1.3	+3.4	73.2	+ .5	+3.7
Nondurable goods.....	101.7	+ .2	- .1	95.5	+ .6	+2.7	21.81	+ .4	+2.7	36.4	+ .3	-2.4	61.7	+ .3	+4.4
<i>Durable goods</i>															
Iron and steel and their products, not including machinery.....	103.7	+1.8	+14.7	102.8	+5.9	+24.5	29.30	+4.0	+8.4	37.6	+2.7	+4.9	77.4	+ .8	+2.6
Blast furnaces, steel works, and rolling mills.....	114.3	+4.8	+19.5	113.9	+10.4	+32.6	31.53	+5.4	+11.0	37.1	+4.4	+9.6	84.9	+ .7	+1.0
Bolts, nuts, washers, and rivets.....	104.2	-1.5	+11.8	110.7	+1.3	+22.5	25.79	+2.9	+8.5	37.3	+2.4	+9.4	69.1	+ .5	+ .1
Cast-iron pipe.....	76.8	+1.3	+5.2	70.0	+4.8	+6.5	21.80	+3.5	+1.2	35.9	+3.7	-3.1	60.5	+ .1	+4.5
Cutlery (not including silver and plated cutlery) and edge tools.....	101.2	-1.2	+12.0	91.6	- .4	+11.1	23.63	+ .8	- .8	38.6	- .2	-1.4	62.0	+ .8	+1.0
Forging, iron and steel.....	66.0	-1.1	+21.2	74.1	+1.0	+33.0	30.48	+2.1	+9.6	39.1	+1.4	+7.3	78.1	+ .9	+2.5
Hardware.....	81.6	-14.9	+13.2	85.8	-15.8	+16.2	25.85	-1.1	+2.7	38.0	+ .5	-1.6	68.0	-1.6	+4.4
Plumbers' supplies.....	82.9	+1.3	+9.3	73.0	+ .5	+8.3	25.70	- .8	- .9	36.8	- .7	-4.5	70.0	- .1	+3.7
Stamped and enameled ware.....	152.7	-2.4	+3.6	162.6	+ .3	+11.1	25.34	+2.8	+7.1	38.3	+ .6	+1.1	65.7	+2.0	+5.8
Steam and hot-water heating apparatus and steam fittings.....	85.1	+ .1	+13.5	76.6	+2.9	+21.8	27.47	+2.8	+7.3	39.2	+3.8	+6.5	70.3	- .7	+1.1
Stoves.....	92.6	+1.6	+5.8	82.7	-1.4	+7.6	25.49	-3.0	+1.8	37.3	-2.8	-1.0	68.4	- .4	+3.0
Structural and ornamental metalwork.....	73.5	+3.4	+9.4	64.8	+5.1	+10.3	28.56	+1.7	+ .8	38.6	+1.7	-2.3	74.1	+ .1	+3.2
Tin cans and other tinware.....	102.8	+7.5	+5.2	113.5	+12.5	+10.0	25.04	+4.6	+4.6	39.8	+3.0	+ .2	63.2	+1.8	+5.0
Tools (not including edge tools, machine tools, files, and saws).....	91.6	- .5	+9.4	88.6	-1.8	+11.6	24.42	-1.3	+2.0	38.9	-1.6	-(?)	62.8	+ .2	+2.0
Wirework.....	152.1	-5.6	+11.7	161.0	-5.1	+16.4	26.48	+ .4	+4.2	37.5	+ .8	- .5	70.7	- .3	+4.8
Machinery, not including transportation equipment	115.1	+1.1	+20.4	125.1	+2.3	+31.1	30.41	+1.2	+8.9	40.8	+ .7	+5.6	74.3	+ .5	+2.5
Agricultural implements (including tractors).....	137.3	-1.6	+15.6	157.8	-3.7	+24.0	30.74	-2.1	+7.3	38.6	-2.0	+4.4	79.8	- .2	+2.5
Cash registers, adding machines, and calculating machines.....	130.4	+1.1	+1.7	138.0	+3.4	+10.9	33.32	+2.3	+9.0	40.4	+1.6	+7.3	83.0	+ .7	+1.5

Electrical machinery, apparatus, and supplies	103.3	+1.4	+19.3	118.3	+3.5	+29.1	30.52	+2.1	+8.2	40.2	+1.0	+5.1	76.4	+1.1	+3.1
Engines, turbines, water wheels, and wind-mills	158.1	+6.1	+59.7	210.7	+8.7	+84.4	35.05	+2.5	+15.5	43.8	+1.7	+12.2	80.3	+7	+3.0
Foundry and machine-shop products	96.9	+4	+17.4	95.8	+1.3	+24.6	28.41	+9	+6.1	40.4	+9	+4.1	72.8	+(2)	+1.7
Machine tools	229.1	+3.6	+58.2	302.9	+4.6	+82.9	36.68	+9	+15.5	47.9	+7	+13.0	76.6	+2	+2.3
Radios and phonographs	141.0	+3.3	+17.6	134.0	+5.6	+28.2	23.61	+2.2	+9.0	38.5	+8	+3.2	61.4	+1.4	+6.1
Textile machinery and parts	79.0	-4.0	+4.9	74.1	-3.8	+9	25.70	+2	-3.9	39.4	-5	-2.8	65.4	+6	-1.1
Typewriters and parts	111.0	-1.8	-11.2	112.1	-1.6	+5	24.75	+2	+12.0	37.7	-6	+9.6	65.6	+8	+2.2
Transportation equipment	112.2	-2.4	+23.6	119.1	+2.1	+34.0	34.32	+4.6	+8.4	38.1	+4.0	+7.9	90.5	+6	+1.2
Aircraft	2,518.7	+8.2	+93.0	2,514.0	+13.6	+93.5	31.18	+5.0	+3	42.7	+3.5	+1.4	74.2	+1.5	+1.4
Automobiles	104.8	-4.5	+14.4	112.5	+1.3	+27.0	35.47	+6.1	+11.1	37.2	+5.2	+8.6	95.3	+8	+2.2
Cars, electric- and steam-railroad	51.2	-8.2	+45.8	45.3	-9.3	+50.8	27.68	-1.2	+3.4	36.7	-1.3	+1.3	75.3	+(2)	+2.1
Locomotives	29.1	+3.5	+12.9	28.5	+6.2	+16.3	30.12	+2.6	+3.8	38.2	+2.1	+1.3	78.9	+5	+2.5
Shipbuilding	162.8	+2.9	+29.5	185.8	+3.0	+36.4	34.24	+1	+5.3	39.2	-4	+2.3	86.9	+8	+4.4
Nonferrous metals and their products	106.5	+1.1	+16.6	105.9	+2.2	+26.1	27.25	+1.0	+8.0	39.0	+4	+2.6	70.2	+4	+5.4
Aluminum manufactures	176.5	+2.0	+22.2	204.3	+1.4	+30.2	28.20	-6	+6.6	39.7	-2	+1.6	71.0	-5	+4.6
Brass, bronze, and copper products	127.1	+1.3	+21.9	140.7	+4.8	+36.5	29.93	+3.5	+11.9	39.8	+2.4	+3.7	75.4	+1.0	+8.0
Clocks and watches and time-recording devices	90.3	+6	+13.0	94.4	+4	+23.5	23.20	-2	+9.4	38.6	-9	+6.1	60.1	+7	+2.5
Jewelry	91.2	+2.9	+8.0	76.3	+5.1	+9.5	23.35	+2.1	+1.3	38.7	+2.6	+6	59.5	-8	+8
Lighting equipment	83.9	-3	+17.8	70.0	-3.3	+25.6	26.38	-3.0	+6.7	36.9	-3.7	+2.9	71.5	+7	+3.8
Silverware and plated ware	68.3	-3.1	+7	55.9	-8.8	-3.0	23.58	-5.9	-3.7	36.5	-5.5	-4.8	64.7	-7	+1.2
Smelting and refining—copper, lead, and zinc	87.2	+1.9	+14.0	85.7	+1.6	+19.3	27.57	-4	+4.7	38.7	-6	+1.5	71.3	+3	+3.0
Lumber and allied products	68.3	+4	+3.0	63.6	+5	+5.8	20.17	0	+2.8	38.5	-5	-2.7	52.3	+4	+3.9
Furniture	88.1	+9	+5.8	75.9	+1.5	+10.8	20.67	+6	+4.6	38.1	+1	-4	54.8	+5	+4.1
Lumber															
Millwork	61.5	+1.3	+3.1	48.5	+1.3	+2.0	22.02	0	-1.2	40.2	-2	-3.2	54.9	+2	+1.8
Sawmills	61.9	+1	+1.7	58.1	-4	+3.9	19.32	-6	+6	38.3	-1.0	-3.6	50.5	+4	+4.3
Stone, clay, and glass products	82.9	+1.1	+3.0	73.4	-1.6	+4.0	24.20	-2.7	+9	36.3	-2.2	-2.2	66.4	+1	+3.1
Brick, tile, and terra cotta	63.1	+3.6	+2.9	51.1	+3.7	+1.9	20.74	+1	-1.0	37.4	-2	-4.5	55.1	+3	+3.2
Cement	72.4	+2.3	+1.1	69.9	+1.0	+2.2	27.42	-1.3	+1.2	38.9	-1.0	-2	70.4	-3	+1.3
Glass	104.9	+6	+6.0	111.0	-8	+10.2	25.89	-1.4	+3.9	35.1	-1.5	+7	74.0	+(2)	+3.6
Marble, granite, slate, and other products	48.5	-1.3	-6.4	35.6	-8.3	-10.5	25.97	-7.0	-4.2	35.6	-7.8	-5.7	74.4	+1.4	+2.8
Pottery	89.5	-1.2	+4.7	75.8	-9.9	+3.9	21.52	-8.9	-8	35.4	-5.6	-2.4	64.0	+7	+8
<i>Nondurable goods</i>															
Textiles and their products	93.7	-2.4	-4.2	75.4	-3.2	-5.2	16.43	-7	-9	33.5	-7	-6.0	49.6	-1	+4.5
Fabrics	85.7	-1.5	-4.2	72.5	-1.9	-4.1	16.24	-4	+1	34.1	-6	-5.4	48.4	+(2)	+5.7
Carpets and rugs	70.2	-7.2	-4.3	54.6	-8.8	-4.9	21.55	-1.6	-6	32.4	-9	-5.5	66.6	-6	+5.1
Cotton goods	86.9	-2.1	+3.3	74.7	-4.2	+5.4	13.92	-2.2	+2.0	34.0	-1.8	-5.8	41.2	+(4)	+8.7
Cotton small wares	73.8	-2.9	-4.3	66.8	-2.1	-5.0	17.54	+8	-9	36.3	+1.1	-3.7	48.7	+1	+3.7
Dyeing and finishing textiles	115.7	-5.6	-9	92.0	-6.0	-4.3	19.67	-4	-3.4	35.5	-7	-6.2	54.9	-(2)	+2.6
Hats, fur-felt	71.2	+7.6	-16.9	57.5	+25.0	-21.7	22.08	+16.1	-6.0	31.6	+21.0	-4.6	72.4	+7	+1.9
Hosiery	130.2	-2.6	-12.4	127.9	-4.2	-12.5	17.52	-1.7	-1.3	32.2	-1.3	-6.2	55.3	-6	+7.4
Knitted outerwear	63.1	+2.4	-10.5	50.6	+1.4	-9.2	17.13	-1.0	+1.4	35.8	-6	-2.5	47.1	-3	+4.0
Knitted underwear	72.8	-1.2	-2.3	68.6	-2.0	-5.4	14.68	-8	-3.1	34.4	-3	-8.4	43.0	-3	+6.0

See footnotes at end of table.

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

MANUFACTURING—Continued

[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 to indexes published in the July 1939 and earlier issues of the pamphlet. Comparable series available on request]

Industry	Employment			Pay rolls			Average weekly earnings			Average hours worked per week			Average hourly earnings		
	Index June 1940	Percentage change from—		Index June 1940	Percentage change from—		June 1940	Percentage change from—		June 1940	Percentage change from—		June 1940	Percentage change from—	
		May 1940	June 1939		May 1940	June 1939		May 1940	June 1939		May 1940	June 1939		May 1940	June 1939
<i>Nondurable goods—Continued</i>															
<i>Textiles and their products—Continued.</i>															
<i>Fabrics—Continued</i>													<i>Cents</i>		
Knitted cloth.....	128.0	+0.5	-5.3	107.2	+3.6	-3.0	\$18.76	+3.1	+2.5	37.0	+1.6	-4.4	49.5	+1.3	+6.4
Silk and rayon goods.....	59.7	-3.9	-11.7	45.6	-6.2	-9.9	15.78	-2.5	+2.3	34.2	-2.4	-3.9	45.8	-(?)	+6.0
Woolen and worsted goods.....	75.7	+5.4	-10.5	65.4	+8.5	-7.9	19.87	+2.8	+3.0	35.3	+2.7	-4.1	56.3	+1	+7.2
Wearing apparel.....	107.8	-3.8	-4.3	70.6	-5.4	-6.9	16.96	-1.7	-2.7	32.5	-8	-7.0	51.8	-1	+2.4
Clothing, men's.....	98.6	+3.7	-1.8	71.1	+10.2	-3.7	18.69	+6.3	-1.9	32.3	+4.5	-5.1	58.1	+1.1	+2.7
Clothing, women's.....	148.1	-8.9	-6.3	95.1	-15.3	-10.2	17.22	-7.0	-4.2	32.7	-3.3	-9.4	49.6	-3.1	+2.0
Corsets and allied garments.....	111.9	-2.2	-9	109.2	-6.2	-6.7	16.16	-4.1	-5.8	34.0	-4.4	-10.9	46.6	-2	+3.6
Men's furnishings.....	109.7	-4.6	-13.9	94.9	-1.4	-14.9	13.48	+3.3	-1.0	31.9	-7	-8.0	41.1	+3.2	+7.1
Millinery.....	65.7	-11.9	-3.6	47.1	-12.9	+4.3	21.08	-1.1	+8.2	31.6	-1.6	+8.5	68.5	+3.2	+6.5
Shirts and collars.....	115.1	-5.0	-2.9	92.0	-9.1	-6.0	12.73	-4.3	-3.2	32.1	-3.9	-7.9	40.7	+5	+5.4
<i>Leather and its manufactures.....</i>	86.8	0	-7.8	67.0	+5.3	-10.2	18.17	+5.3	-2.6	33.2	+7.0	-6.9	55.3	-(?)	+4.8
Boots and shoes.....	84.8	+2	-8.3	62.7	-8.0	-10.9	16.87	+7.8	-2.9	32.3	+9.3	-7.6	53.1	0	+5.7
Leather.....	80.1	-7	-5.6	75.7	-1.4	-8.0	23.56	-7	-2.7	36.9	-2	-4.9	64.2	+(?)	+2.1
<i>Food and kindred products.....</i>	129.7	+6.7	+2.0	129.0	+6.2	+4.2	25.54	-4	+2.3	40.1	-1	-1.0	64.1	-9	+2.8
Baking.....	147.0	+1.6	-3	140.8	+2.2	+2.0	26.55	+6	+2.4	41.7	+(?)	-9	64.2	+6	+3.4
Beverages.....	301.3	+8.2	+1.1	375.4	+13.6	+5.6	36.51	+5.0	+4.5	41.6	+4.2	+2.5	89.3	+1.1	+2.4
Butter.....	105.0	+5.1	+1.9	90.8	+7.0	-4.0	23.04	+1.8	+1.9	47.7	+2.1	-1	47.6	-3	+2.2
Canning and preserving.....	140.5	+40.5	-5	117.2	+31.0	+6.2	16.21	-6.7	+6.8	34.3	-1.8	-2.2	48.0	-5.8	+3.6
Confectionery.....	74.7	-1.8	+3.7	72.3	-4.1	+4.7	18.98	-2.4	+9	36.8	-2.7	-7	51.6	+2	+1.9
Flour.....	77.6	-1.2	-2.0	72.3	-1.2	-2.8	25.13	+(?)	-7	41.2	+2	-1.3	61.5	+6	+8
Ice cream.....	91.9	+9.7	-3	76.9	+9.8	+2.3	29.14	+(?)	+2.5	46.8	+1.4	-1.4	62.3	-1.2	+3.4
Slaughtering and meat packing.....	108.2	+2.3	+8.9	114.7	+3.9	+7.5	27.82	+1.5	-1.3	40.2	+1.0	-1.6	69.1	+5	+2
Sugar, beet.....	52.9	+11.7	-2.3	54.2	+9.9	-8.5	26.55	-1.6	-6.3	37.1	-2.3	-11.6	74.0	-2	+5.6
Sugar refining, cane.....	98.3	+3.3	+8.1	88.7	+10.9	+14.9	25.37	+7.3	+6.3	38.9	+4.8	+5.1	65.2	+2.5	+1.2
<i>Tobacco manufactures.....</i>	64.9	+4.3	-5	66.9	+10.2	+8.8	18.98	+5.6	+9.3	38.1	+4.7	+4.4	56.5	+1.5	+6.2
Chewing and smoking tobacco and snuff.....	58.0	-1.0	-4.6	67.4	+1.4	+3.5	18.77	+2.4	+8.4	35.4	+2.0	+4.4	52.5	+1.0	+5.1
Cigars and cigarettes.....	65.7	+4.9	+(?)	66.7	+11.5	+10.6	19.03	+6.3	+10.4	38.4	+5.0	+4.3	50.1	+1.6	+6.5

Paper and printing	114.5	-4	+4.3	112.0	-1.0	+8.2	29.27	-5	+3.7	38.5	-8	+1.6	79.7	+3	+2.7
Boxes, paper.....	115.3	+1.2	+6.6	127.4	+2.3	+8.4	21.99	+1.1	+1.5	39.0	+9	-1.1	56.7	+6	+2.7
Paper and pulp.....	116.2	+9	+9.5	126.2	+1.6	+20.7	26.70	+7	+10.1	41.5	-4	+5.8	64.4	+1.0	+4.1
Printing and publishing:															
Book and job.....	97.1	-2.1	+7	85.1	-3.7	+1.8	30.59	-1.6	+1.1	37.9	-1.8	-3	82.0	+(2)	+1.4
Newspapers and periodicals.....	116.2	-8	+1.9	110.1	-1.9	+4.2	38.21	-1.1	+2.2	35.6	-1.1	+2	104.4	+4	+3.0
Chemical, petroleum, and coal products	119.1	-1.4	+8.5	133.3	-2	+12.3	30.08	+1.2	+3.5	38.5	-7	+5	77.7	+2.1	+3.3
Petroleum refining.....	123.2	+1.2	+2.2	137.1	+2	+2.1	34.84	-9	-1	35.7	-1.5	-1.3	98.3	+8	+1.2
Other than petroleum refining.....	118.1	-2.1	+10.2	132.1	-4	+16.0	28.09	+1.7	+5.3	39.6	-3	+9	70.2	+2.3	+5.3
Chemicals.....	138.3	+1.6	+18.7	165.2	+2.0	+25.7	32.23	+4	+5.9	40.0	+1	+9	80.6	+3	+5.1
Cottonseed—oil, cake, and meal.....	54.7	-19.4	+8	48.9	-18.6	+7.8	14.24	+9	+7.0	39.4	-1.1	-8.1	34.2	-3	+13.5
Druggists' preparations.....	115.8	-2.2	+6.9	126.1	-1.9	+6.2	24.71	+3	-7	38.3	-1.8	-3.9	61.1	+1.2	+3.1
Explosives.....	126.4	+7.1	+41.0	153.7	+8.9	+52.3	33.32	+1.6	+8.0	39.9	+3	+3.9	83.6	+1.3	+4.0
Fertilizers.....	88.8	-31.3	+12.4	78.9	-33.5	+21.5	16.19	-2.5	+6.3	36.1	-5.9	+3.7	44.8	+3.7	+4.3
Paints and varnishes.....	126.4	+4	+1.7	136.2	-1	+5.7	29.55	-5	+2.9	41.2	-4	+5	71.7	-1	+2.3
Rayon and allied products.....	306.0	+6	+6.9	314.3	+9	+15.6	26.36	+3	+8.1	39.1	+1	+3.3	67.5	+2	+4.7
Soap.....	81.5	+2	+2.4	100.4	+2.5	+3.2	28.85	+2.3	+8	40.4	+2.3	+6	71.5	+(2)	+1
Rubber products	83.6	-5	+4.4	86.4	-9	+5.2	28.27	-5	+8	36.4	-1	-7	78.0	+2	+1.9
Rubber boots and shoes.....	54.9	+1.6	-2.0	56.2	+4.4	+1.4	23.50	+2.8	+3.5	38.3	+2.8	+2.7	61.4	+(2)	+9
Rubber tires and inner tubes.....	68.4	-8	+3.5	77.5	-3.0	+3.6	33.18	-2.3	+2	34.3	-2.3	-1.7	96.8	-(2)	+2.3
Rubber goods, other.....	139.1	-9	+7.6	133.2	+1.4	+9.4	23.42	+2.3	+1.6	38.2	+1.4	-4	61.9	+7	+3.0

NONMANUFACTURING

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

Coal mining:															
Anthracite ³	50.2	-3.9	-2.1	40.6	+1.6	+12.6	26.63	+5.7	+15.0	29.3	+4.9	+16.2	92.2	+6	-1.0
Bituminous ³	83.7	-1.7	+6.9	74.0	-1.7	+11.3	23.83	-1	+4.1	27.3	+8	+6.4	88.5	+4	+9
Metalliferous mining	70.4	+1.8	+14.3	66.8	+1.6	+24.1	29.56	-1	+8.6	40.9	-6	+3.5	72.5	+5	+5.2
Quarrying and nonmetallic mining.....	47.7	+1.7	+8	43.3	+1.3	+3.8	22.65	-4	+2.9	40.0	-8	-7	56.3	+4	+3.5
Crude-petroleum production.....	63.8	+9	-4.8	58.7	+(2)	-6.0	33.74	-9	-1.3	37.4	-2.5	-4.2	88.6	+1.5	+2.9
Public utilities:															
Telephone and telegraph ^{4 5}	77.9	+9	+2.1	98.9	+1	+3.4	31.18	-8	+1.3	39.0	-7	-1.8	80.3	-1	+1.8
Electric light and power ^{4 5}	91.3	+8	+2.4	105.1	+9	+3.8	35.10	+(2)	+1.3	39.5	-1.5	-1.6	88.7	+1.5	+2.2
Street railways and busses ^{4 5 6}	68.6	+4	-9	70.0	+1.1	-(2)	33.62	+7	+1.0	46.3	+6	-1	71.9	+4	+1.5
Trade:															
Wholesale ^{4 7}	89.3	+5	+1.4	77.9	+7	+2.7	30.61	+2	+1.3	41.1	-8	-2.5	74.7	+9	+3.2
Retail ^{4 5}	91.5	+3	+2.3	84.4	+1.2	+4.1	21.55	+9	+1.7	42.8	+5	(8)	54.8	+6	(8)
Food ⁵	104.3	0	+1.5	96.4	+1.3	+3.3	23.66	+1.2	+1.8	43.3	+6	(8)	52.8	+5	(8)
General merchandising ^{4 5}	95.4	+3	+2.3	88.6	+2.3	+4.1	18.21	+2.0	+1.9	39.0	+2.0	(8)	46.8	+1.5	(8)
Apparel ⁵	87.7	+7	+1.3	80.1	+2.2	+1.6	21.23	+1.4	+3	38.0	+1	(8)	55.3	+1.2	(8)
Furniture ⁵	77.7	0	+3	70.9	+1	+3.8	28.97	+1	+3.5	43.3	-1.7	(8)	69.6	+1.1	(8)
Automotive ⁵	86.4	+3	+6.3	82.6	0	+9.4	28.54	-3	+2.9	47.4	-2	(8)	59.9	-2	(8)
Lumber ⁵	75.4	+1.1	+2.7	71.6	+1.3	+3.8	26.61	+2	+1.1	42.9	-(2)	(8)	63.2	+8	(8)

See footnotes at end of table.

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

NONMANUFACTURING—Continued

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

Industry	Employment			Pay rolls			Average weekly earnings			Average hours worked per week			Average hourly earnings		
	Index June 1940	Percentage change from—		Index June 1940	Percentage change from—		June 1940	Percentage change from—		June 1940	Percentage change from—		June 1940	Percentage change from—	
		May 1940	June 1939		May 1940	June 1939		May 1940	June 1939		May 1940	June 1939		May 1940	June 1939
Hotels (year-round) ^{3 4}	91.2	-2.3	-1.7	81.8	-1.5	-0.3	\$15.49	+0.8	+1.4	46.6	+0.7	+1.2	<i>Cents</i> 33.3	+0.6	+1.3
Laundries ⁵	102.5	+3.5	+3.9	92.3	+4.3	+6.2	18.47	+8	+2.2	43.6	+3	-3	42.4	+6	+2.4
Dyeing and cleaning ³	112.5	+3.4	+2.1	89.6	+4.9	+6.4	21.75	+1.4	+4.2	45.4	+1.6	+3.4	48.8	-1	+1.4
Brokerage ⁴	(⁶)	-3	+1.5	(⁶)	-7	+1.8	37.24	-5	+3	(⁶)	(⁶)	(⁶)	(⁶)	(⁶)	(⁶)
Insurance ⁴	(⁶)	+6	+1.5	(⁶)	-1	+1.5	36.75	-7	-(²)	(⁶)	(⁶)	(⁶)	(⁶)	(⁶)	(⁶)
Building construction	(⁶)	+5.1	+9.3	(⁶)	+5.0	+13.1	31.94	-2	+3.4	33.8	+8	+1.7	94.8	-9	+1.5

¹ Revised series. Mimeographed sheets giving averages by years, 1932 to 1938, 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 Less than 1/10 of 1 percent.

³ Indexes adjusted to 1935 census. Comparable series back to January 1929 presented in January 1938 issue of pamphlet.

⁴ 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.

⁵ Retail-trade indexes adjusted to 1935 census and public-utility indexes to 1937 census. Not comparable to indexes published in pamphlets prior to January 1940 or in Monthly Labor Reviews prior to April 1940. Comparable series for earlier months available upon request.

⁶ Covers street railways and trolley and motorbus operations of subsidiary, affiliated, and successor companies; formerly "electric-railroad and motorbus operation and maintenance."

⁷ Indexes adjusted to 1933 census. Comparable series in November 1934 and subsequent issues of pamphlet.

⁸ Not available.

⁹ 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, 1923-35=100, and are adjusted to 1937 Census of Manufactures for all industries except automobiles. Not comparable to indexes published in pamphlets prior to August 1939. Comparable series available upon request]

Industry	Employment index			Pay-roll index			Average weekly earnings ¹			Average hours worked per week ¹			Average hourly earnings ¹		
	June 1940	May 1940	April 1940	June 1940	May 1940	April 1940	June 1940	May 1940	April 1940	June 1940	May 1940	April 1940	June 1940	May 1940	April 1940
All manufacturing.....	99.4	99.0	99.6	97.9	96.3	96.3	\$25.79	\$25.43	\$25.33	37.5	37.2	37.2	Cents 67.2	Cents 66.9	Cents 66.5
Durable goods.....	97.0	96.5	96.0	100.1	97.5	97.2	29.48	28.80	28.92	38.7	38.2	38.2	73.2	73.0	72.9
Nondurable goods.....	101.7	101.5	103.0	95.5	94.9	95.4	21.81	21.72	21.49	36.4	36.3	36.2	61.7	61.5	60.9
<i>Durable goods</i>															
Iron and steel and their products, not including machinery.....	103.7	101.9	101.7	102.8	97.1	94.9	29.30	28.16	27.50	37.6	36.6	36.0	77.4	76.7	76.4
Blast furnaces, steel works, and rolling mills.....	114.3	109.1	108.4	113.9	103.1	98.6	31.53	29.87	28.73	37.1	35.5	34.4	84.9	84.2	83.8
Bolts, nuts, washers, and rivets.....	104.2	105.8	108.7	110.7	109.3	113.9	25.79	25.07	25.31	37.3	36.5	37.0	69.1	68.7	68.4
Cast-iron pipe.....	76.8	75.8	74.5	70.0	66.8	62.2	21.80	21.00	19.96	35.9	34.6	33.0	60.5	60.3	60.1
Cutlery (not including silver and plated cutlery) and edge tools.....	101.2	102.5	103.8	91.6	92.0	93.5	23.63	23.40	23.47	38.6	38.7	38.9	62.0	61.4	61.2
Forgings, iron and steel.....	66.0	66.7	66.8	74.1	73.4	75.1	30.48	29.90	30.60	39.1	38.5	39.3	78.1	77.7	78.0
Hardware.....	81.6	95.9	98.1	85.8	101.9	104.0	25.85	26.14	26.13	38.0	37.8	38.1	68.0	69.2	68.5
Plumbers' supplies.....	82.9	81.8	81.8	73.0	72.7	72.3	25.70	25.94	25.78	36.8	37.1	36.9	70.0	70.0	70.0
Stamped and enameled ware.....	152.7	156.4	159.6	162.6	162.1	163.5	25.34	24.67	24.37	38.3	38.1	38.0	65.7	64.3	63.8
Steam and hot-water heating apparatus and steam fittings.....	85.1	85.0	84.6	76.6	74.5	75.6	27.47	26.77	27.36	39.2	37.8	38.5	70.3	70.9	71.2
Stoves.....	92.6	91.1	90.8	82.7	84.0	82.3	25.49	26.35	25.95	37.3	38.4	37.9	68.4	68.8	68.4
Structural and ornamental metal work.....	73.5	71.1	70.0	64.8	61.7	61.2	28.56	28.13	28.42	38.6	38.0	38.6	74.1	74.1	73.7
Tin cans and other tinware.....	102.8	95.6	94.8	113.5	100.9	101.0	25.04	24.04	24.20	39.8	38.6	38.9	63.2	62.4	62.4
Tools (not including edge tools, machine tools, files, and saws).....	91.6	92.0	93.5	88.6	90.2	91.0	24.42	24.75	24.57	38.9	39.6	39.3	62.8	62.7	62.6
Wirework.....	152.1	161.1	161.5	161.0	169.7	174.8	26.48	26.42	27.16	37.5	37.2	38.0	70.7	71.1	71.7

See footnotes at end of table.

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

MANUFACTURING—Continued

[Indexes are based on 3-year average, 1923-35=100, and are adjusted to 1937 Census of Manufactures for all industries except automobiles. Not comparable to indexes published in pamphlets prior to August 1939. Comparable series available upon request]

Industry	Employment index			Pay-roll index			Average weekly earnings			Average hours worked per week			Average hourly earnings		
	June 1940	May 1940	April 1940	June 1940	May 1940	April 1940	June 1940	May 1940	April 1940	June 1940	May 1940	April 1940	June 1940	May 1940	April 1940
<i>Durable goods—Continued</i>													<i>Cents</i>	<i>Cents</i>	<i>Cents</i>
Machinery, not including transportation equipment	115.1	113.9	113.6	125.1	122.3	121.6	\$30.41	\$30.11	\$29.97	40.8	40.5	40.5	74.3	74.1	73.9
Agricultural implements (including tractors)	137.3	139.6	141.4	157.8	164.0	166.1	30.74	31.42	31.43	38.6	39.4	39.3	79.8	79.9	80.1
Cash registers, adding machines, and calculating machines	130.4	129.0	129.0	138.0	133.5	133.9	33.32	32.58	32.75	40.4	39.7	39.9	83.0	82.4	82.4
Electrical machinery, apparatus, and supplies	103.3	101.9	101.5	118.3	114.3	112.7	30.52	30.01	29.70	40.2	39.8	39.4	76.4	75.7	75.6
Engines, turbines, water wheels, and windmills	158.1	148.9	140.2	210.7	193.8	183.1	35.05	34.21	34.35	43.8	43.1	42.9	80.3	79.7	80.3
Foundry and machine-shop products	96.9	96.5	97.2	95.8	94.6	95.4	29.41	29.21	29.27	40.4	40.1	40.3	72.8	73.0	72.6
Machine tools	229.1	221.1	216.3	302.9	289.7	287.1	36.68	36.35	36.72	47.9	47.5	47.9	76.6	76.6	76.7
Radios and phonographs	141.0	136.5	128.3	134.0	126.9	116.0	23.61	23.09	22.46	38.5	38.2	36.8	61.4	60.6	61.1
Textile machinery and parts	79.0	82.2	84.9	74.1	77.0	80.1	25.70	25.71	26.01	39.4	39.6	40.1	65.4	65.1	65.0
Typewriters and parts	111.0	113.1	114.4	112.1	114.0	112.2	24.75	24.73	24.06	37.7	38.1	37.2	65.6	64.9	64.7
Transportation equipment	112.2	115.0	115.4	119.1	116.6	122.6	34.32	32.83	34.40	38.1	38.7	38.3	90.5	90.2	90.3
Aircraft	2,518.7	2,328.2	2,166.0	2,514.0	2,212.6	2,062.7	31.18	29.69	29.75	42.7	41.2	41.4	74.2	73.2	73.3
Automobiles	104.8	109.8	112.0	112.5	111.1	121.2	35.47	33.47	35.78	37.2	35.4	37.9	95.3	94.7	94.5
Cars, electric and steam-railroad	51.2	55.7	57.4	45.3	49.9	52.0	27.68	28.05	28.36	36.7	37.2	37.4	75.3	75.4	75.7
Locomotive	29.1	28.2	28.0	28.5	26.9	26.1	30.12	29.35	28.61	38.2	37.4	36.7	78.9	78.5	77.9
Shipbuilding	162.8	158.2	152.8	185.8	180.4	169.4	34.24	34.20	33.25	39.2	39.5	38.5	86.9	86.2	85.9
Nonferrous metals and their products	106.5	105.3	105.6	105.9	103.6	103.1	27.25	27.02	26.76	39.0	38.8	38.6	70.2	70.1	70.0
Aluminum manufactures	176.5	172.9	171.5	204.3	201.5	199.3	28.20	28.38	28.31	30.7	30.8	30.8	71.0	71.3	71.1
Brass, bronze, and copper products	127.1	125.5	125.8	140.7	134.2	133.0	29.93	29.00	28.74	39.8	38.8	38.6	75.4	75.0	74.9
Clocks and watches and time-recording devices	90.3	89.7	89.4	94.4	94.0	91.7	23.20	23.25	22.74	38.6	38.9	38.0	60.1	59.7	59.9
Jewelry	91.2	88.7	90.0	76.3	72.6	72.2	23.35	22.84	22.44	38.7	37.7	37.0	59.5	59.9	59.9
Lighting equipment	83.9	84.1	85.9	70.0	72.4	74.2	26.38	27.21	27.32	36.9	38.3	38.1	71.5	71.0	71.7
Silverware and plated ware	68.3	70.4	70.7	55.9	61.3	62.8	23.58	25.06	25.60	36.5	38.6	39.5	64.7	65.1	65.1
Smelting and refining—copper, lead, and zinc	87.2	85.5	85.9	85.7	84.3	84.4	27.57	27.71	27.59	38.7	38.9	39.0	71.3	71.2	70.8

Lumber and allied products	88.3	88.0	86.9	83.6	83.3	81.4	20.17	20.22	20.00	38.5	38.7	38.4	52.3	52.1	51.8
Furniture.....	88.1	87.3	86.4	75.9	74.8	74.2	20.67	20.59	20.70	38.1	38.0	38.3	54.8	54.6	54.6
Lumber:															
Millwork.....	61.5	60.7	60.9	48.5	47.8	47.6	22.02	22.02	21.84	40.2	40.3	40.0	54.9	54.8	54.7
Sawmills.....	61.9	61.9	60.3	58.1	58.3	55.4	19.32	19.43	18.93	38.3	38.7	38.1	50.5	50.3	49.7
Stone, clay, and glass products	82.9	82.0	80.5	73.4	74.6	72.2	24.20	24.79	24.49	36.3	37.1	36.5	66.4	66.4	66.4
Brick, tile, and terra cotta.....	63.1	60.9	58.0	51.1	49.2	45.2	20.74	20.65	19.97	37.4	37.4	36.1	55.1	55.1	55.1
Cement.....	72.4	70.8	67.7	69.9	69.2	63.6	27.42	27.78	26.68	38.9	39.3	38.1	70.4	70.6	70.0
Glass.....	104.9	104.4	105.3	111.0	112.0	114.2	25.89	26.18	26.49	35.1	35.6	36.0	74.0	73.9	73.9
Marble, granite, slate, and other products.....	48.5	49.1	45.7	35.6	38.8	34.3	25.97	27.93	26.47	35.6	38.6	36.9	74.4	73.2	72.6
Pottery.....	89.5	90.6	93.0	75.8	84.2	85.1	21.52	23.64	23.28	35.4	37.5	37.1	64.0	63.8	63.9
<i>Nondurable goods</i>															
Textiles and their products	93.7	96.0	98.8	75.4	77.9	81.4	16.43	16.52	16.74	33.5	33.7	34.2	49.6	49.6	49.5
Fabrics.....	85.7	87.0	88.3	72.5	73.9	75.2	16.24	16.35	16.40	34.1	34.3	34.5	48.4	48.4	48.2
Carpets and rugs.....	70.2	75.7	79.5	54.6	59.9	67.8	21.55	21.91	23.61	32.4	32.7	35.5	66.6	67.0	66.6
Cotton goods.....	86.9	88.8	90.8	74.7	78.1	80.6	13.92	14.24	14.39	34.0	34.5	35.0	41.2	41.2	41.0
Cotton small wares.....	73.8	76.0	79.0	66.8	68.2	73.4	17.54	17.38	18.05	36.3	35.9	37.4	48.7	48.6	49.0
Dyeing and finishing textiles.....	115.7	122.6	125.4	93.0	98.9	104.7	19.67	19.70	20.28	35.5	35.6	36.5	54.9	54.9	55.0
Hats, fur-felt.....	71.2	66.2	65.4	57.5	46.0	38.6	22.08	18.98	16.12	31.6	26.3	22.2	72.4	71.7	71.5
Hosiery.....	130.2	133.7	140.0	127.9	133.5	144.1	17.52	17.81	18.41	32.2	32.5	33.2	55.3	55.8	55.8
Knitted outerwear.....	63.1	61.6	60.0	50.6	49.9	47.2	17.13	17.30	16.79	35.8	36.0	34.9	47.1	47.5	47.6
Knitted underwear.....	72.8	73.6	77.2	63.6	64.9	68.5	14.68	14.82	14.93	34.4	34.6	35.5	43.0	43.0	42.2
Knitted cloth.....	128.0	127.4	130.5	107.2	103.5	101.4	18.76	18.26	17.46	37.0	36.3	34.5	49.5	48.9	49.0
Silk and rayon goods.....	59.7	62.1	64.4	45.6	48.6	50.3	15.78	16.15	16.16	34.2	35.1	35.2	45.8	45.7	45.6
Woolen and worsted goods.....	75.7	71.8	66.7	65.4	60.3	53.2	19.87	19.38	18.35	35.3	34.5	32.5	56.3	56.3	56.5
Wearing apparel	107.8	112.1	118.6	76.6	81.0	88.7	16.96	16.97	17.63	32.5	32.7	33.6	51.8	51.8	51.9
Clothing, men's.....	98.6	95.1	103.5	71.1	64.6	72.0	18.69	17.59	18.09	32.3	31.0	31.6	58.1	57.3	57.4
Clothing, women's.....	148.1	162.6	168.1	95.1	112.3	118.7	17.22	18.59	19.04	32.7	33.8	34.3	49.6	51.2	51.8
Corsets and allied garments.....	111.9	114.4	115.4	109.2	116.5	120.2	16.16	16.82	17.20	34.0	35.5	36.0	46.6	46.6	46.8
Men's furnishings.....	109.7	115.0	117.8	94.9	96.2	101.0	13.48	13.05	13.34	31.9	32.4	33.5	41.1	39.8	39.5
Millinery.....	65.7	74.6	87.3	47.1	54.1	73.8	21.08	21.40	24.95	31.6	32.3	35.0	68.5	66.3	67.2
Shirts and collars.....	115.1	121.2	125.2	92.0	101.2	111.2	12.73	13.30	14.14	32.1	33.4	35.3	40.7	40.5	40.4
Leather and its manufactures	86.8	86.8	84.2	67.0	63.6	70.7	18.17	17.26	17.68	33.2	30.9	32.5	55.3	55.5	54.3
Boots and shoes.....	84.8	84.6	93.1	62.7	58.1	66.6	16.87	15.65	16.30	32.3	29.5	31.5	53.1	53.3	52.1
Leather.....	80.1	80.6	82.7	75.7	76.7	78.2	23.56	23.74	23.63	36.9	37.0	36.9	64.2	64.2	64.2
Food and kindred products	129.7	121.6	119.7	129.0	121.5	117.7	25.54	25.64	25.17	40.1	40.1	39.4	64.1	64.7	64.3
Baking.....	147.0	144.7	142.5	140.8	137.8	134.3	26.55	26.52	26.22	41.7	41.7	41.4	64.2	63.9	63.6
Beverages.....	301.3	278.5	268.4	375.4	330.4	312.0	36.51	34.77	34.00	41.6	39.9	39.0	89.3	88.3	88.0
Butter.....	105.0	99.9	93.7	90.8	84.8	80.6	23.04	22.63	22.92	47.7	46.8	46.8	47.6	47.9	48.7
Canning and preserving.....	140.5	100.1	103.4	117.2	89.5	83.2	16.21	17.37	15.64	34.3	34.9	31.6	48.0	51.0	50.5
Confectionery.....	74.7	76.1	77.0	72.3	75.4	74.0	18.98	19.46	18.83	36.8	37.9	36.8	51.6	51.5	51.1
Flour.....	77.6	78.5	78.2	72.3	73.1	71.5	25.13	25.17	24.79	41.2	41.1	40.6	61.5	61.1	60.8
Ice cream.....	91.9	83.8	75.0	76.9	70.1	63.1	29.14	29.13	29.30	46.8	46.2	45.6	62.3	63.0	63.5
Slaughtering and meat packing.....	108.2	105.7	103.6	114.7	110.4	109.5	27.82	27.43	27.76	40.2	39.9	40.3	69.1	68.8	68.9

See footnotes at end of table.

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

MANUFACTURING—Continued

[Indexes are based on 3-year average, 1923-35=100, and are adjusted to 1937 Census of Manufactures for all industries except automobiles. Not comparable to indexes published in pamphlets prior to August 1939. Comparable series available upon request]

Industry	Employment index			Pay-roll index			Average weekly earnings			Average hours worked per week			Average hourly earnings		
	June 1940	May 1940	April 1940	June 1940	May 1940	April 1940	June 1940	May 1940	April 1940	June 1940	May 1940	April 1940	June 1940	May 1940	April 1940
<i>Nondurable goods—Continued</i>													<i>Cents</i>	<i>Cents</i>	<i>Cents</i>
Food and kindred products—Continued.															
Sugar beet.....	52.9	47.4	44.1	54.2	49.3	48.2	\$26.55	\$27.04	\$28.38	37.1	37.9	39.4	74.0	74.2	74.3
Sugar refining, cane.....	98.3	95.2	94.0	88.7	80.0	77.0	25.37	23.64	23.05	38.9	37.1	36.5	65.2	63.6	63.1
Tobacco manufactures.....	64.9	62.2	63.8	66.9	60.7	58.7	18.98	18.02	17.07	38.1	36.4	34.7	50.5	49.7	49.3
Chewing and smoking tobacco and snuff.....	58.0	58.6	58.5	67.4	66.5	64.2	18.77	18.33	17.78	35.4	34.7	33.5	53.5	53.0	53.1
Cigars and cigarettes.....	65.7	62.6	64.3	66.7	59.9	58.0	19.03	17.92	16.91	38.4	36.6	34.8	50.1	49.3	48.8
Paper and printing.....	114.5	115.0	113.8	112.0	113.1	109.7	29.27	29.38	28.70	38.5	38.8	38.1	79.7	79.4	79.3
Boxes, paper.....	115.3	114.0	113.0	127.4	124.6	120.7	21.99	21.72	21.25	39.0	38.7	37.9	56.7	56.3	56.2
Paper and pulp.....	116.2	115.2	112.0	126.2	124.2	115.4	26.70	26.52	25.35	41.5	41.6	39.9	64.4	63.8	63.7
Printing and publishing:															
Book and job.....	97.1	99.3	99.5	85.1	88.4	87.4	30.59	31.11	30.73	37.9	38.7	38.2	82.0	82.1	81.6
Newspapers and periodicals.....	116.2	117.1	116.5	110.1	112.3	110.9	38.21	38.56	38.27	35.6	36.2	36.2	104.4	103.5	102.9
Chemical, petroleum, and coal products.....	119.1	120.8	123.4	133.3	133.6	133.4	30.08	29.73	28.99	38.5	38.8	38.5	77.7	76.0	74.2
Petroleum refining.....	123.2	121.8	121.1	137.1	136.8	136.9	34.84	35.14	35.34	35.7	36.2	36.5	98.3	97.5	97.4
Other than petroleum refining.....	118.1	120.6	123.9	132.1	132.6	132.3	28.09	27.47	26.51	39.6	39.7	39.2	70.2	68.6	66.5
Chemicals.....	138.3	136.2	135.2	165.2	161.9	159.6	32.23	32.09	31.83	40.0	40.0	39.8	80.6	80.3	80.1
Cottonseed—oil, cake, and meal.....	54.7	67.8	79.2	48.9	60.1	68.8	14.24	14.12	13.86	39.4	39.9	41.4	34.2	34.3	32.8
Druggists' preparations.....	115.8	118.4	118.7	126.1	128.5	130.5	24.71	24.64	24.88	38.3	39.0	39.4	61.1	60.5	60.2
Explosives.....	126.4	118.0	114.0	153.7	141.2	133.1	33.32	32.80	31.99	39.9	39.7	38.4	83.6	82.5	83.3
Fertilizers.....	88.8	129.1	174.8	78.9	118.6	136.2	16.19	16.60	13.81	36.1	38.4	36.4	44.8	43.2	37.9
Paints and varnishes.....	126.4	125.9	124.4	136.2	136.3	131.9	29.55	29.62	29.02	41.2	41.4	40.6	71.7	71.6	71.7
Rayon and allied products.....	306.0	304.3	305.8	314.3	311.4	311.1	26.36	26.27	26.12	39.1	39.0	38.9	67.5	67.3	67.2
Soap.....	81.5	81.4	81.2	100.4	98.0	98.0	28.85	28.19	28.27	40.4	39.5	39.4	71.5	71.4	71.7
Rubber products.....	83.6	84.0	84.7	86.4	87.2	86.5	28.27	28.39	27.98	38.4	36.4	36.0	78.0	77.8	77.9
Rubber boots and shoes.....	54.9	54.1	56.1	56.2	53.8	55.3	23.50	22.85	22.66	38.3	37.3	37.1	61.4	61.3	61.1
Rubber tires and inner tubes.....	68.4	69.0	69.7	77.5	79.9	78.1	33.18	33.88	32.77	34.3	35.1	34.1	96.8	96.8	96.6
Rubber goods, other.....	139.1	140.4	139.7	133.2	131.5	132.6	23.42	22.87	23.11	38.2	37.7	37.8	61.9	61.4	61.9

NONMANUFACTURING

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

Coal mining:															
Anthracite ²	50.2	52.2	51.6	40.6	40.0	36.3	\$26.63	\$25.20	\$23.11	29.3	27.9	26.2	92.2	91.6	90.6
Bituminous ²	83.7	85.1	86.2	74.0	75.3	72.2	23.83	23.85	22.63	27.3	27.1	25.6	88.5	88.2	88.0
Metallic mining	70.4	69.2	67.7	66.8	65.7	63.5	29.56	29.59	29.30	40.9	41.2	40.4	72.5	72.2	72.8
Quarrying and nonmetallic mining	47.7	46.9	44.5	43.3	42.7	38.1	22.65	22.74	21.33	40.0	40.3	38.4	56.3	56.1	55.6
Crude-petroleum production	63.8	63.3	63.1	58.7	58.7	59.0	33.74	34.05	34.20	37.4	38.3	38.2	88.6	87.3	87.9
Public utilities:															
Telephone and telegraph ^{3 4}	77.9	77.3	76.7	98.9	98.8	98.7	31.18	31.43	31.58	39.0	39.3	39.3	80.3	80.4	80.9
Electric light and power ^{3 4}	91.3	90.6	90.0	105.1	104.2	103.3	35.10	35.09	34.98	39.5	40.1	39.9	88.7	87.4	87.8
Street railways and busses ^{3 4 5}	68.6	68.4	68.3	70.0	69.2	69.2	33.62	33.39	33.37	46.3	46.1	46.0	71.9	71.6	71.7
Trade:															
Wholesale ^{3 6}	89.3	88.9	89.3	77.9	77.4	77.4	30.61	30.54	30.33	41.1	41.4	41.3	74.7	74.1	73.7
Retail ^{3 4}	91.5	91.2	89.8	84.4	83.4	82.3	21.55	21.32	21.46	42.8	42.6	42.9	54.8	54.5	54.6
Food ⁴	104.3	104.3	103.1	96.4	95.2	94.3	23.66	23.38	23.48	43.3	43.1	43.2	52.8	52.5	52.3
General merchandising ^{3 4}	95.4	95.1	92.9	88.6	86.6	85.0	18.21	17.88	18.02	39.0	38.2	38.8	46.8	46.1	46.3
Apparel ⁴	87.7	87.1	85.2	80.1	78.4	77.0	21.23	20.99	21.25	38.0	38.0	38.5	55.3	54.7	54.7
Furniture ⁴	77.7	77.7	78.1	70.9	70.8	68.7	28.97	29.04	28.58	43.3	44.0	44.2	69.6	68.9	68.4
Automotive ⁴	86.4	86.1	84.7	82.6	82.6	81.8	28.54	28.63	28.68	47.4	47.5	47.8	59.9	60.1	59.9
Lumber ⁴	75.4	74.6	72.4	71.6	70.7	68.0	26.61	26.60	26.32	42.9	42.9	42.6	63.2	62.7	63.1
Hotels (year-round) ^{2 3 7}	91.2	93.4	92.7	81.8	83.0	83.2	15.49	15.36	15.60	46.6	46.3	46.6	33.3	33.1	33.0
Laundries ²	102.5	99.1	97.2	92.3	88.5	85.6	18.47	18.32	18.03	43.6	43.5	43.0	42.4	42.1	42.0
Dyeing and cleaning ²	112.5	108.7	104.5	89.6	85.4	79.6	21.75	21.46	20.99	45.4	44.7	43.5	48.8	48.9	49.4
Brokerage ^{3 8}	-3	+4	+2	-7	-1.0	+3.5	37.24	37.42	37.74	(9)	(9)	(9)	(9)	(9)	(9)
Insurance ^{3 8}	+6	+3	+3	-1	+7	+1	36.75	37.01	36.90	(9)	(9)	(9)	(9)	(9)	(9)
Building construction ⁸	+5.1	+13.6	+11.7	+6.0	+19.5	+13.3	31.94	31.99	30.32	33.8	33.5	31.7	94.8	95.5	95.8

¹ Revised series. Mimeographed sheets, giving averages by years, 1932 to 1938, 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 Indexes adjusted to 1935 census. Comparable series back to January 1929 presented in January 1938 issue of pamphlet.

³ 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.

⁴ Retail-trade indexes adjusted to 1935 census and public-utility indexes to 1937 census.

Not comparable to indexes published in pamphlets prior to January 1940 or in Monthly Labor Reviews prior to April 1940.

⁵ Covers street railways and trolley and motorbus operations of subsidiary, affiliated, and successor companies; formerly "electric-railroad and motorbus operation and maintenance."

⁶ Indexes adjusted to 1933 census. Comparable series in November 1934 and subsequent issues of pamphlet.

⁷ Cash payments only; additional value of board, room, and tips not included.

⁸ Indexes of employment and pay rolls are not available; percentage changes from preceding month substituted.

⁹ Not available.

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

Industry	Employment													
	1939								1940					
	Av.	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
<i>Manufacturing</i>														
All industries.....	96.8	93.4	93.5	96.3	100.2	103.6	103.8	104.1	101.4	101.4	100.8	99.6	99.0	99.4
Durable goods ³	87.8	84.6	83.0	83.9	89.8	96.1	98.2	100.0	97.4	96.6	96.4	96.0	96.5	97.0
Nondurable goods ⁴	105.5	101.8	103.5	108.1	110.2	110.8	109.2	108.0	105.3	106.1	105.1	103.0	101.5	101.7
<i>Nonmanufacturing</i>														
Anthracite mining ⁵	50.6	51.2	44.7	49.5	49.4	51.9	51.3	51.0	51.5	52.0	52.6	51.6	52.2	50.2
Bituminous coal mining ⁵	78.6	78.3	79.4	81.4	85.4	93.0	94.9	92.6	91.8	91.7	89.7	86.2	85.1	83.7
Metalliferous mining.....	62.7	61.6	60.4	60.4	62.9	65.3	66.5	67.3	66.4	66.3	66.2	67.7	69.2	70.4
Quarrying and nonmetallic mining.....	44.6	47.3	47.5	48.1	47.9	48.0	47.1	44.0	37.8	38.3	41.0	44.5	46.9	47.7
Crude petroleum production.....	65.8	67.0	67.3	66.7	65.0	64.3	63.8	63.8	63.2	63.0	63.2	63.1	63.3	63.8
Telephone and telegraph ⁶	75.8	76.4	76.5	76.6	76.4	76.5	76.1	75.8	76.1	75.9	76.0	76.7	77.3	77.9
Electric light and power ⁶	89.0	89.2	90.0	90.6	90.6	90.4	90.3	90.1	89.1	89.2	89.3	90.0	90.6	91.3
Street railways and busses ^{6,7}	60.0	69.3	69.1	69.2	69.2	69.5	69.3	69.0	68.8	68.7	68.2	68.3	68.4	68.6
Wholesale trade.....	89.2	88.1	87.9	89.0	90.5	92.4	92.1	92.2	90.6	90.2	90.5	89.3	88.9	89.3
Retail trade ⁸	89.8	89.4	87.2	86.3	90.5	91.7	93.3	104.2	87.7	87.0	91.1	89.8	91.2	91.5
Year-round hotels ⁸	92.0	92.8	90.3	89.8	91.3	92.9	91.8	90.8	91.3	92.1	92.0	92.7	93.4	91.2
Laundries ⁸	95.9	98.7	100.0	99.1	97.8	96.0	95.6	95.6	96.0	95.8	96.2	97.2	99.1	102.5
Dyeing and cleaning ⁸	101.3	110.1	106.5	102.7	105.2	105.1	97.8	97.4	94.0	93.7	99.5	104.5	108.7	112.5
<i>Pay rolls</i>														
<i>Manufacturing</i>														
All industries.....	90.8	86.5	84.4	89.7	93.8	101.6	101.6	103.7	98.3	97.8	98.2	96.3	96.3	97.9
Durable goods ³	85.2	80.7	76.0	81.5	87.8	99.6	100.9	104.6	98.2	96.7	97.6	97.2	97.5	100.0
Nondurable goods ⁴	97.0	93.0	93.7	99.0	100.5	103.9	102.4	102.8	98.4	99.1	99.0	95.4	94.9	95.5
<i>Nonmanufacturing</i>														
Anthracite mining ⁵	39.5	36.1	25.2	33.8	40.1	52.2	42.0	26.6	52.5	32.9	38.4	36.3	40.0	40.6
Bituminous coal mining ⁵	69.9	66.5	64.5	74.6	80.2	97.6	96.3	84.3	87.0	87.0	78.3	72.2	75.3	74.0
Metalliferous mining.....	56.0	53.8	48.5	53.0	55.1	63.4	63.9	65.0	63.6	64.2	63.2	63.5	65.7	66.8
Quarrying and nonmetallic mining.....	38.7	41.7	40.9	42.9	42.7	45.6	42.9	39.2	29.6	30.8	34.1	38.1	42.7	43.3
Crude petroleum production.....	61.0	62.5	61.9	62.0	60.8	58.8	59.6	59.2	58.4	59.0	58.4	59.0	58.7	58.7
Telephone and telegraph ⁶	95.6	95.7	96.6	96.3	96.9	97.2	96.4	97.4	97.4	96.9	98.1	98.7	98.8	98.9
Electric light and power ⁶	100.4	101.2	101.1	102.2	102.2	102.0	102.5	102.4	101.6	102.2	102.3	103.3	104.2	105.1
Street railways and busses ^{6,7}	69.5	70.0	69.4	69.8	69.2	71.2	69.4	69.8	69.0	71.5	69.5	69.2	69.2	70.0
Wholesale trade.....	76.6	75.8	75.8	76.2	78.0	80.3	79.0	79.1	77.1	77.1	77.8	77.4	77.4	77.9
Retail trade ⁸	80.8	81.1	79.5	78.0	80.9	83.2	83.6	91.8	79.9	79.1	82.0	82.3	83.4	84.4
Year-round hotels ⁸	81.2	82.0	79.1	79.2	80.4	82.2	81.8	81.1	81.1	82.7	81.8	83.2	83.0	81.8
Laundries ⁸	83.1	86.9	88.0	85.9	84.5	83.9	82.9	83.7	83.4	83.1	84.1	85.6	88.5	92.3
Dyeing and cleaning ⁸	73.6	84.2	77.1	73.0	78.3	77.3	70.8	69.9	65.5	64.4	72.7	79.6	85.4	89.6

¹ 3-year average 1923-25=100—adjusted to 1937 Census of Manufactures.² 12-month average for 1925=100. Comparable indexes for wholesale trade, quarrying, metal mining, and crude petroleum production are in November 1934 and subsequent issues of EMPLOYMENT AND PAY ROLLS, or in February 1935 and subsequent issues of MONTHLY LABOR REVIEW. For other nonmanufacturing indexes see notes 5 and 6.³ 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 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.

INDUSTRIAL AND BUSINESS EMPLOYMENT IN PRINCIPAL METROPOLITAN AREAS

A comparison of employment and pay rolls in May and June 1940 is made in table 9 for 13 metropolitan areas, each of which had a population of 500,000 or over in 1930. Cities within these areas, but having a population of 100,000 or over, are not included. Footnotes to the table specify which cities are excluded. Data concerning them have been prepared in a supplementary tabulation which is available on request. The figures represent reports from cooperating establishments and cover both full- and part-time workers in the manufacturing and nonmanufacturing industries presented in table 3, 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 9.—Comparison of Employment and Pay Rolls in Identical Establishments in May and June 1940, by Principal Metropolitan Areas

Metropolitan area	Number of establishments June 1940	Number on pay roll June 1940	Percentage change from May 1940	Amount of pay roll (1 week) June 1940	Percentage change from May 1940
New York ¹	14,540	684,140	-0.2	\$19,535,577	+0.5
Chicago ²	4,325	454,409	+7.7	13,024,846	+1.9
Philadelphia ³	2,398	213,303	+7.5	6,009,222	+3.0
Detroit	1,619	326,877	-3.7	11,314,036	+7.7
Los Angeles ⁴	3,075	184,382	+3.3	5,468,827	+4.4
Cleveland	1,627	125,547	+1.6	3,771,324	+3.8
St. Louis	1,364	124,377	+6.6	3,143,977	+2.3
Baltimore	1,142	117,805	+4.4	3,092,600	+2.0
Boston ⁵	3,078	182,042	+2.2	4,642,260	+1.8
Pittsburgh	1,232	195,361	+3.1	5,816,975	+4.7
San Francisco ⁶	1,667	88,646	+1.3	2,780,081	+2.2
Buffalo	788	79,137	+3.4	2,256,722	+6.8
Milwaukee	974	100,610	+5.5	2,967,999	+1.4

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.

Public Employment

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

EXECUTIVE SERVICE OF THE FEDERAL GOVERNMENT

Statistics of employment and pay rolls for the executive service of the Federal Government in June and May 1940 are given in table 10.

**TABLE 10.—Employment and Pay Rolls for the Executive Service of the U. S. Government
June and May 1940 ¹**

[Subject to revision]

Class	Employment			Pay rolls		
	June	May	Percent- age change	June	May	Percent- age change
Entire service:						
Total.....	1,010,999	977,990	+3.4	\$149,065,551	\$149,205,295	-0.1
Regular appropriation.....	855,984	827,719	+3.4	129,688,208	129,615,779	+1
Emergency appropriation.....	61,840	61,303	+9	7,777,168	7,809,714	-4
Force-account.....	93,175	88,968	+4.7	11,600,175	11,779,802	-1.5
Inside the District of Columbia:						
Total.....	133,756	130,937	+2.2	23,234,561	23,298,161	-3
Regular appropriation.....	118,111	115,589	+2.2	20,830,649	20,857,801	-1
Emergency appropriation.....	8,714	8,636	+9	1,349,035	1,345,732	+2
Force-account.....	6,931	6,712	+3.3	1,054,877	1,094,628	-3.6
Outside the District of Columbia:						
Total.....	877,243	847,053	+3.6	125,830,990	125,907,134	-1
Regular appropriation.....	737,873	712,130	+3.6	108,857,559	108,757,978	+1
Emergency appropriation.....	53,126	52,667	+9	6,428,133	6,463,982	-6
Force-account.....	86,244	82,256	+4.8	10,545,298	10,685,174	-1.3

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

CONSTRUCTION PROJECTS FINANCED BY THE PUBLIC WORKS ADMINISTRATION

Details concerning employment, pay rolls, and man-hours worked during June on construction projects financed by Public Works Administration funds are given in table 11, by type of project.

**TABLE 11.—Employment and Pay Rolls on Projects Financed From Public Works
Administration Funds, June 1940 ¹**

[Subject to revision]

Type of project	Wage earners		Monthly pay-roll disburse- ments	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.....	91,609	77,347	\$9,305,085	9,670,964	\$0.962	\$13,038,566
Federal projects financed from National Industrial Recovery Act funds						
All projects.....	³ 480	374	\$35,517	41,067	\$0.866	\$46,787
Building construction..	237	170	19,554	17,189	1.138	34,861
Public roads ⁴	(⁵)	87	3,455	5,613	.616	6,000
Reclamation.....	54	40	5,381	7,248	.742	341
River, harbor, and flood control..	44	28	2,344	3,786	.619	3,670
Water and sewerage..	30	21	998	2,970	.336	1,596
Miscellaneous.....	28	28	3,785	4,261	.889	319

See footnotes at end of table.

TABLE 11.—*Employment and Pay Rolls on Projects Financed From Public Works Administration Funds, June 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.....	8, 160	7, 106	\$851, 015	945, 128	\$0. 900	\$1, 092, 850
Airport construction (exclusive of buildings).....	471	446	52, 819	80, 018	. 660	43, 086
Building construction.....	4, 462	3, 840	472, 270	447, 093	1. 056	807, 727
Electrification.....	593	566	72, 582	81, 898	. 886	54, 168
Reclamation.....	1, 405	1, 240	152, 686	206, 266	. 740	99, 245
River, harbor, and flood control.....	477	391	37, 028	49, 193	. 753	44, 114
Streets and roads.....	167	105	9, 660	11, 839	. 816	18, 423
Water and sewerage.....	156	141	6, 479	7, 289	. 889	19, 899
Miscellaneous.....	200	191	16, 621	23, 430	. 709	5, 261
Professional, technical, and clerical.....	229	186	30, 870	38, 102	. 810	927
Non-Federal projects financed from National Industrial Recovery Act funds						
All projects ¹	2, 419	2, 184	\$253, 217	233, 423	\$1. 085	\$354, 370
Building construction ²	1, 502	1, 345	201, 364	159, 519	1. 262	196, 973
Streets and roads.....	427	397	30, 136	42, 591	. 708	60, 812
Railroad construction.....	169	169	649	1, 278	. 508	0
Miscellaneous.....	321	273	21, 068	30, 035	. 701	96, 585
Non-Federal projects financed from Emergency Relief Appropriation Act 1935, 1936, and 1937 funds						
All projects.....	7, 456	6, 452	\$716, 866	934, 071	\$0. 767	\$1, 081, 322
Building construction.....	664	547	76, 108	61, 747	1. 233	210, 227
Electrification.....	749	656	59, 469	75, 101	. 792	227, 910
Heavy engineering.....	5, 121	4, 438	483, 135	685, 339	. 705	541, 412
Reclamation.....	266	247	32, 826	37, 811	. 868	18, 002
Streets and roads.....	150	115	4, 502	6, 192	. 727	9, 188
Water and sewerage.....	506	449	60, 826	67, 881	. 896	74, 583
Non-Federal projects financed from Public Works Administration Appropriation Act 1938 funds						
All projects.....	73, 094	61, 231	\$7, 448, 470	7, 517, 275	\$0. 991	\$10, 463, 237
Building construction.....	24, 312	19, 940	2, 308, 702	2, 119, 900	1. 089	3, 231, 524
Electrification.....	931	789	90, 709	89, 022	1. 019	161, 695
Heavy engineering.....	15, 175	12, 775	1, 858, 535	1, 639, 732	1. 133	1, 688, 221
Reclamation.....	470	382	53, 270	63, 876	. 834	37, 540
River, harbor, and flood control.....	43	33	3, 099	4, 374	. 709	4, 461
Streets and roads.....	18, 243	15, 445	1, 653, 618	2, 030, 698	. 814	3, 238, 292
Water and sewerage.....	13, 903	11, 852	1, 478, 656	1, 568, 207	. 943	2, 090, 311
Miscellaneous.....	17	15	1, 881	1, 466	1. 283	11, 193

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

TABLE 12.—Employment and Pay Rolls on Low-Rent Housing Projects Operated by the U. S. Housing Authority, June 1940

[Subject to revision]

Geographic division	Employment		Monthly pay-roll disbursements	Number of man-hours worked during month	Average earnings per hour	Value of material orders placed during month
	Maximum number employed ¹	Weekly average				
All divisions.....	49,743	42,542	\$4,954,520	5,335,156	\$0.929	\$7,561,347
New England.....	4,213	3,767	507,671	447,577	1.134	797,751
Middle Atlantic.....	9,668	8,294	1,232,464	976,342	1.262	1,674,116
East North Central.....	4,992	4,393	639,673	549,996	1.163	911,964
West North Central.....	388	259	23,631	31,878	.741	65,885
South Atlantic.....	12,723	10,475	976,833	1,316,035	.742	1,574,596
East South Central.....	9,268	8,143	853,673	1,061,032	.805	1,207,358
West South Central.....	5,470	4,577	476,208	586,826	.811	925,677
Mountain.....	220	194	27,888	24,128	1.156	40,287
Pacific.....	1,459	1,274	160,818	158,021	1.018	242,752
Outside continental United States.....	1,342	1,166	55,661	183,321	.304	120,961

¹Maximum employed during any 1 week of the month.

WORK PROJECTS ADMINISTRATION PROGRAM

A record of employment, pay rolls, and man-hours worked on projects financed by the Work Projects Administration in June is shown in table 13, by type of project.

TABLE 13.—*Employment and Pay Rolls on Projects Financed by the Work Projects Administration, June 1940*

[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 agency projects						
All projects.	112,328	107,427	\$5,142,507	12,702,097	\$0.405	\$756,888
Airport construction (exclusive of buildings)	7,919	7,875	139,849	579,304	.241	18,040
Building construction	42,260	38,924	2,048,744	4,742,752	.432	291,338
Electrification	101	98	5,049	11,203	.451	2,622
Forestry	15,906	15,904	720,633	1,855,313	.388	86,176
Grade-crossing elimination ²	113	88	6,162	10,686	.577	3,000
Hydroelectric power plants ³	1,178	1,173	48,905	201,730	.242	49,523
Plant, crop, and livestock conservation	12,212	12,058	612,770	1,374,162	.446	62,599
Professional, technical, and clerical	4,812	4,639	327,335	560,810	.584	9,850
Public roads ⁴	281	211	14,484	24,141	.600	75,330
Reclamation	18,353	17,965	857,812	2,281,655	.376	86,109
River, harbor, and flood control	1,241	1,048	61,009	119,976	.509	11,926
Streets and roads	2,325	2,108	101,683	281,096	.362	13,563
Water and sewerage	919	842	24,963	106,768	.234	10,111
Miscellaneous	4,708	4,494	173,109	552,501	.313	37,307
Projects operated by Work Projects Administration ⁴						
All projects.	1,583,242		\$96,545,418	213,994,961	\$0.451	(⁶)

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

² Projects under the jurisdiction of the Public Roads Administration.

³ Projects under construction in Puerto Rico.

⁴ Data are for the calendar month. Will be published by type of project in July pamphlet.

⁵ Represents number of names on pay roll as of June 26, 1940.

⁶ Data on a monthly basis are not available.

A record of employment, pay rolls, and man-hours worked on projects operated by the Work Projects Administration in May is shown in table 14, by type of project.

TABLE 14.—*Employment and Pay Rolls on Projects Operated by the Work Projects Administration, by Type of Project, May 1940*

[Subject to revision]

Type of project	Number employed ¹	Pay-roll disbursements	Number of man-hours worked	Average earnings per hour
All projects.....	1, 837, 854	\$110, 140, 815	247, 372, 767	\$0. 445
Conservation.....	54, 311	3, 445, 716	7, 844, 398	. 439
Highway, road, and street.....	784, 596	43, 261, 690	106, 087, 396	. 408
Professional, technical, and clerical..	319, 742	21, 809, 147	43, 085, 038	. 506
Public buildings.....	154, 234	9, 671, 389	19, 655, 045	. 492
Publicly owned or operated utilities..	182, 977	11, 520, 602	24, 951, 259	. 462
Recreational facilities..	103, 872	6, 433, 317	13, 501, 436	. 476
Sanitation and health.....	28, 736	1, 619, 353	3, 984, 642	. 406
Sewing, canning, and gardening, etc..	144, 412	7, 437, 915	18, 982, 882	. 392
Transportation.....	21, 699	1, 417, 625	2, 844, 795	. 498
Not elsewhere classified..	43, 275	3, 524, 061	6, 435, 876	. 548

¹ As of May 29, 1940.

NATIONAL YOUTH ADMINISTRATION

Employment and pay rolls on the National Youth Administration projects for June and May 1940 are shown in table 15.

TABLE 15.—*Employment and Pay Rolls on National Youth Administration Projects, June and May 1940*

[Subject to revision]

Type of project	Number of employees		Amount of pay rolls	
	June	May	June	May
Total.....	588, 629	777, 915	\$7, 879, 537	\$9, 031, 923
Student work program.....	314, 539	477, 810	2, 321, 283	3, 438, 029
Out-of-school work program.....	274, 090	300, 105	5, 558, 254	5, 593, 894

CIVILIAN CONSERVATION CORPS

Employment and pay rolls in the Civilian Conservation Corps in June and May 1940 are presented in table 16.

TABLE 16.—*Employment and Pay Rolls in the Civilian Conservation Corps, June and May 1940*¹

[Subject to revision]

Group	Number of employees		Amount of pay rolls	
	June	May	June	May
All groups..	275,529	312,094	\$11,980,550	\$14,003,437
Enrolled personnel ² ..	244,596	273,886	7,614,750	8,539,310
Nurses ³	231	237	31,163	32,195
Educational advisers ³	1,546	1,560	280,048	263,745
Supervisory and technical ³ ..	29,156	36,411	4,074,589	5,168,187

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

² June data include 3,678 enrollees and pay roll of \$77,774 outside continental United States; in May the corresponding figures were 3,675 enrollees and pay roll of \$74,088.

³ Included in executive service, table 10.

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 June are presented in table 17, by type of project.

TABLE 17.—*Employment and Pay Rolls on Projects Financed by the Reconstruction Finance Corporation, by Type of Project, June 1940*¹

[Subject to revision]

Type of project	Maximum number of wage earners ²	Monthly pay-roll disbursements	Number of man-hours worked during month	Average earnings per hour	Value of material orders placed during month
All projects..	2,095	\$259,871	244,639	\$1.062	\$452,175
Building construction ³	1,908	231,131	214,657	1.077	368,467
Streets and roads.....	38	3,363	3,882	.866	9,815
Water and sewerage..	149	25,377	26,100	.972	73,893

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 1,078 employees; pay-roll disbursements of \$162,325; 134,218 man-hours worked; and material orders placed of \$205,783 on projects financed by RFC Mortgage Co.

CONSTRUCTION PROJECTS FINANCED FROM REGULAR FEDERAL APPROPRIATIONS

Data concerning employment, pay rolls, and man-hours worked on construction projects financed from regular Federal appropriations during June are given in table 18, by type of project.

TABLE 18.—*Employment and Pay Rolls on Construction Projects Financed From Regular Federal Appropriations, by Type of Project, June 1940*¹

[Subject to revision]

Type of project	Number of 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 ² number employed	Weekly average				
All projects.....	\$ 299,760	282,493	\$31,818,888	41,367,852	\$0.769	\$43,356,307
Building construction.....	26,086	21,673	2,378,068	2,579,778	.922	4,561,317
Electrification:						
Rural Electrification Administration projects ⁴	8,288	6,773	498,432	910,955	.547	2,339,216
Other than R. E. A. projects.....	455	378	23,708	34,603	.685	542,140
Forestry.....	15	15	1,099	2,361	.465	11
Heavy engineering.....	126	121	18,250	14,700	1.241	119
Public roads ⁵	(6)	93,440	8,225,603	12,856,674	.640	12,396,725
Reclamation.....	23,727	22,618	3,448,234	3,774,842	.913	3,906,694
River, harbor, and flood control:						
Dredging, dikes, revetments, etc.....	28,778	25,148	2,884,072	4,269,161	.676	3,309,111
Locks and dams.....	7,506	6,542	1,004,623	1,179,948	.851	1,347,816
Ship construction:						
Naval vessels.....	74,654	72,688	10,141,888	11,506,984	.881	9,858,183
Other than naval vessels.....	23,564	20,991	2,465,155	2,968,364	.830	2,857,372
Streets and roads.....	2,996	2,526	209,182	321,939	.650	340,228
Water and sewerage.....	275	207	21,617	26,593	.813	58,171
Miscellaneous.....	9,850	9,373	498,957	920,950	.542	1,837,194

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 Under the jurisdiction of the Public Roads Administration.

⁶ Not available, weekly average included in the total for all projects.

STATE-ROADS PROJECTS

A record of employment and pay-roll disbursements on the construction and maintenance of roads financed wholly from State or local funds in June 1940, compared with May 1940 and June 1939, is presented in table 19.

TABLE 19.—Employment and Pay Rolls on Construction and Maintenance of State Roads, June 1940, May 1940, and June 1939¹

[Subject to revision]

Item	Number of employees ²			Pay-roll disbursements		
	June 1940	May 1940	June 1939	June 1940	May 1940	June 1939
Total.....	189, 730	174, 655	141, 750	\$13, 450, 050	\$12, 920, 046	\$10, 743, 330
New roads....	55, 679	48, 463	20, 177	3, 555, 180	3, 071, 048	1, 417, 300
Maintenance..	134, 051	126, 192	121, 573	9, 894, 870	9, 848, 998	9, 326, 030

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

² Average number working during month.

PURCHASES FROM PUBLIC FUNDS¹

The value of material orders placed on construction projects financed by Federal funds in the second quarter of 1940 is presented in table 20.

In the second quarter of 1940 on the Public Works Administration program, orders were placed for materials valued at approximately \$42,624,000. Of this amount \$11,548,000 was expended for iron and steel products, \$8,584,000 for machinery, \$6,830,000 for cement and concrete products, and \$4,469,000 for forest products.

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

Estimates have been made of the man-months of labor created in fabricating the materials used on the various programs (see table 3). The estimates include only the labor required in the fabrication of materials in the form in which they are to be used. No estimate is made of the labor required in producing the raw materials or in transporting them to the point of manufacture. In manufacturing structural steel, for example, the only labor included is that occurring in the fabricating mills; no estimate is made for the labor created in mining, smelting, and transporting the ore, nor for the labor in blast furnaces, the open-hearth furnaces, and the blooming mills.

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

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.

TABLE 20.—Value of Material Orders Placed on Construction Projects Financed by Federal Funds for the Second 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	\$42,624,146	\$22,889,484	\$1,077,330	\$128,933,372	\$2,152,477
Textiles and their products	270,449	70,860	2,612	111,505	30,870
Awnings, tents, canvas, etc.....	4,093	1,132	37	10,255	15,769
Carpets and rugs.....	55,744	.....	1,592	166	.....
Cordage and twine.....	7,460	2	1	23,628	1,631
Cotton products.....	141	7	.....	1,135	784
Felt products.....	139	1,082	.....	1,646	74
Jute products.....	7,790	301	.....	190	99
Linoleum and asphalted-felt-base floor covering.....	147,175	67,242	624	45,438	10,702
Sacks and bags, other than paper.....	1,898	.....	59	4,983	282
Upholstering, filling, batting, padding, and wadding.....	255	.....	.....	8	16
Waste and related products.....	76	235	.....	2,332	344
Textiles and their products, n. e. c.....	45,678	859	299	21,724	1,169
Forest products	4,469,425	2,348,386	20,926	4,497,252	214,880
Cork products.....	48,627	204	.....	12,360	293
Furniture and related products.....	2,466,687	126,545	1,672	272,488	12,290
Lumber and timber products, n. e. c.....	1,197,660	1,235,925	16,266	3,512,205	157,048
Planing-mill products.....	694,043	950,668	2,988	693,254	44,961
Window and door screens and weatherstrip.....	50,171	34,980	.....	6,428	192
Forest products, n. e. c.....	12,237	64	.....	517	96
Chemicals and allied products	528,088	283,058	1,642	1,072,387	111,834
Ammunition and related products.....	.....	.....	.....	.....	.....
Compressed and liquefied gases.....	17,840	2,121	567	33,214	2,204
Explosives.....	162,932	17,592	64	600,438	12,076
Paints, pigments, and varnishes.....	333,109	254,571	1,011	355,601	61,951
Chemicals and allied products, n. e. c.....	14,207	8,774	.....	23,134	35,603
Stone, clay, and glass products	13,399,832	6,751,394	115,032	28,887,323	351,066
Asbestos products, n. e. c.....	33,680	80,048	.....	63,587	810
Brick, hollow tile, and other clay products, n. e. c.....	1,011,490	1,822,087	8,880	523,414	21,333
Cement.....	4,455,913	788,823	39,024	14,729,971	175,265
Concrete products.....	2,374,155	2,146,578	22,191	983,714	14,295
Crushed stone.....	1,227,691	102,851	110	4,403,307	37,417
Glass.....	167,168	73,402	1,020	128,766	2,592
Lime.....	9,661	103,820	.....	4,765	906
Marble, granite, slate, and other stone, cut and shaped.....	744,007	123,326	7,871	772,526	6,022
Minerals and earths, ground or otherwise treated.....	3,776	1,078	.....	887	.....

See footnotes at end of table.

TABLE 20.—*Value of Material Orders Placed on Construction Projects Financed by Federal Funds for the Second 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
Stone, clay, and glass products—Continued.					
Sand and gravel.....	\$2, 135, 115	\$389, 471	\$6, 172	\$6, 395, 889	\$70, 205
Steam and other packing, pipe and boiler covering, and gaskets.....	193, 125	121, 971	6, 973	150, 315	539
Tiling, floor and wall, and terrazzo.....	397, 245	168, 079	2, 100	169, 324	9, 459
Wall plaster, wallboard, and building insulation.....	354, 082	751, 836	20, 346	510, 361	6, 638
Stone, clay, and glass products, n. e. c. .	291, 824	78, 024	345	38, 497	5, 585
Iron and steel and their products, not including machinery.....	11, 547, 678	8, 000, 465	278, 805	27, 281, 987	304, 044
Bolts, nuts, washers, and rivets.....	96, 872	4, 330	7, 395	740, 189	4, 604
Doors, shutters, window sash and frames, molding and trim, metal.....	762, 125	1, 333, 767	1, 711	1, 194, 800	5, 319
Forgings, iron and steel.....	110, 062	—	64, 845	1, 863, 376	5, 263
Hardware, miscellaneous.....	514, 755	459, 048	23, 885	584, 638	52, 782
Heating and ventilating equipment, except pipe.....	1, 131, 074	685, 546	40, 412	1, 442, 219	9, 084
Nails and spikes.....	47, 555	7, 364	369	60, 050	7, 066
Pipe and fittings, cast-iron.....	572, 512	447, 735	20, 442	670, 442	19, 282
Pipe and fittings, wrought-iron and steel.....	956, 350	417, 631	10, 862	1, 522, 080	40, 580
Plumbing fixtures and supplies, except pipe.....	793, 058	1, 138, 861	22, 081	590, 685	31, 312
Rail fastenings, except spikes.....	4, 763	—	—	70	—
Rails, steel.....	36, 621	—	—	1, 190	—
Springs, steel.....	416	—	—	10	—
Steel, reinforcing.....	2, 211, 130	1, 784, 059	16, 152	2, 599, 716	37, 149
Steel, structural.....	3, 199, 285	980, 553	36, 250	11, 071, 935	51, 778
Stoves and ranges, other than electric.....	8, 733	467, 287	290	994	—
Tools, other than machine tools.....	104, 368	11, 567	5, 094	197, 062	15, 715
Wire and wireworks products.....	269, 869	45, 317	7, 691	861, 796	11, 587
Iron and steel and their products, n. e. c. .	728, 130	217, 400	21, 326	3, 880, 735	12, 523
Nonferrous metals and their products.....	709, 955	585, 938	184, 928	1, 517, 860	20, 916
Aluminum products.....	48, 287	63	—	49, 020	—
Copper products.....	155, 839	959	182, 689	834, 299	2, 620
Lead products.....	9, 333	2, 133	286	32, 797	9
Sheet-metal products.....	391, 133	316, 458	1, 483	537, 660	17, 392
Zinc products.....	1, 059	—	—	1	—
Nonferrous metals and their products, n. e. c. .	104, 304	266, 325	470	64, 083	895
Machinery, not including transportation equipment.....	8, 584, 162	2, 238, 011	442, 185	54, 142, 840	236, 476
Electrical machinery, apparatus and supplies.....	2, 437, 797	29, 882	115, 397	12, 270, 323	25, 600
Electrical wiring and fixtures.....	2, 259, 854	782, 751	42, 334	6, 359, 922	71, 157
Elevators and elevator equipment.....	531, 644	47, 233	28, 495	970, 914	881
Engines, turbines, tractors, and water wheels.....	573, 548	614	7, 261	13, 875, 092	7, 077
Machine tools.....	155, 563	368	386	461, 067	1, 576
Meters (gas, water, etc.) and gas generators.....	30, 476	14, 422	—	9, 039	144
Pumps and pumping equipment.....	629, 593	41, 966	648	2, 839, 120	6, 339
Radio apparatus and supplies.....	29, 783	—	—	758, 900	—
Refrigerators and refrigerating and ice-making apparatus.....	88, 753	1, 175, 304	—	82, 652	112
Machinery, n. e. c. .	1, 847, 151	145, 451	247, 064	16, 515, 811	123, 590
Transportation equipment—air, land, and water.....	31, 934	448	156	266, 048	101, 471
Boats, steel and wooden.....	—	—	—	55, 920	493
Carriages and wagons.....	457	34	—	201	—
Motor vehicles, passenger.....	1, 444	44	127	85, 629	2, 356
Motor vehicles, trucks.....	20, 122	370	29	79, 917	24, 080
Transportation equipment, n. e. c. .	9, 911	—	—	44, 381	74, 542

See footnotes at end of table.

TABLE 20.—*Value of Material Orders Placed on Construction Projects Financed by Federal Funds for the Second 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
Miscellaneous..	\$3,082,623	\$2,610,924	\$31,053	\$11,156,170	\$780,920
Belting, miscellaneous..	223	—	—	299	20
Coal and coke..	80,658	4,982	257	119,744	837
Creosote.....	43	7	—	14	67
Instruments, professional and scientific..	229,367	716	—	278,378	551
Mattresses and bed springs..	23,152	—	—	—	—
Models and patterns..	511	—	—	4,938	27
Paper products.....	6,091	12,354	1,186	26,700	1,111
Paving materials: Asphalt, tar, crushed slag, and mixtures.....	628,376	13,144	120	1,521,531	43,886
Petroleum products.....	653,415	130,831	7,888	4,134,243	73,915
Photographic apparatus and supplies.....	7,879	3,284	20	25,007	2,184
Roofing: Built-up, and roll, asphalt shingles and roof coatings, except paint..	120,389	341,098	1,135	101,334	11,191
Rubber products.....	103,618	5,937	1,728	106,930	5,400
Theatrical scenery and stage equipment..	56,483	—	—	—	—
Window shades and fixtures..	29,634	34,412	—	408	148
Other materials..	1,142,784	2,064,159	18,719	4,836,644	641,583

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.

Table 21 shows the value of material orders placed on construction projects financed by Federal funds during the first quarter of 1940, by type of project.

TABLE 21.—*Value of Material Orders Placed on Construction Projects Financed by Federal Funds for the First 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. P. A. funds ³	Operated by W. P. A. ⁴
All materials..	\$258,768,019	\$63,128,873	\$14,901,956	\$1,378,821	\$112,944,887	\$1,764,666	\$64,648,816
Textiles and their products..	5,066,986	469,943	81,936	1,538	115,950	7,411	4,390,208
Forest products..	26,093,299	12,457,826	1,317,477	104,001	5,068,597	213,052	6,932,346
Furniture and related products.....	10,430,875	9,614,628	46,043	24,812	554,321	3,336	187,735
Lumber and timber products, n. e. c.	12,475,151	1,387,354	661,486	57,197	3,445,086	179,417	6,744,611
Forest products, n. e. c.	3,187,273	1,455,844	609,948	21,992	1,069,190	30,299	—
Chemicals and allied products..	4,130,044	787,300	132,447	13,433	851,623	115,408	2,229,833
Paints, pigments, and varnishes..	1,875,307	359,095	126,451	10,756	332,319	54,450	992,236
Other chemicals..	2,254,737	428,205	5,996	2,677	519,304	60,958	1,237,597
Stone, clay and glass products..	50,883,540	11,728,280	4,108,403	159,600	14,656,437	300,420	19,930,390
Brick, hollow tile, and other clay products..	6,057,031	1,534,077	1,300,668	27,481	300,730	16,084	2,877,991
Cement.....	13,643,550	2,168,612	451,114	29,719	5,850,320	139,321	5,004,464
Concrete products..	8,719,908	2,635,025	1,310,948	37,410	1,071,627	55,584	3,609,314
Crushed stone..	6,100,229	659,498	55,136	677	2,468,247	25,633	2,991,038
Sand and gravel.....	8,034,955	1,210,364	211,833	14,140	2,864,538	30,740	3,703,340
Other stone, clay, and glass products..	8,327,867	3,620,704	778,704	50,173	2,100,975	33,068	1,744,243
Iron and steel and their products, not including machinery..	71,492,015	19,335,691	5,812,353	418,086	31,485,279	354,661	14,055,945
Heating and ventilating equipment..	5,343,363	2,426,767	558,647	48,040	1,563,240	10,414	736,255
Pipe and fittings, cast-iron..	5,065,823	748,974	390,745	16,431	615,550	38,817	3,255,306
Plumbing supplies, n. e. c.....	3,980,253	1,161,033	885,199	53,360	612,276	27,698	1,240,687
Structural and reinforcing steel..	29,213,509	9,222,430	1,585,737	72,733	15,428,096	120,692	2,783,821
Tools, other than machine tools..	1,527,966	253,522	8,427	2,735	349,954	16,237	897,091
Other products of iron and steel..	26,361,101	5,522,965	2,383,598	224,787	12,916,163	140,803	5,172,785
Nonferrous metals and their products..	3,747,316	1,185,756	659,671	209,771	1,184,712	12,479	494,927

See footnotes at end of table.

TABLE 21.—*Value of Material Orders Placed on Construction Projects Financed by Federal Funds for the First Quarter of 1940—Continued*

Type of material	Total	Projects					
		Public Works Administration	U. S. H. A. low-rent housing	Reconstruction Finance Corporation	Regular Federal	Federal agency projects financed from W. P. A. funds	Operated by W. P. A.
Machinery, not including transportation equipment.....	\$69,595,925	\$12,921,932	\$1,038,418	\$439,476	\$51,588,138	\$153,521	\$3,454,440
Electrical machinery, apparatus, and supplies.....	16,397,686	3,551,928	15,598	62,863	10,995,171	25,509	1,746,617
Engines, turbines, tractors, and water wheels..	17,696,436	843,574	618	31,028	16,789,451	16,889	14,876
Other machinery.....	35,501,803	8,526,430	1,022,202	345,585	23,803,516	111,123	1,692,947
Transportation equipment—air, land, and water.....	881,408	224,094	7,902	1,050	334,755	30,366	282,641
Motor vehicles, trucks.....	483,367	131,810	7,076	1,050	49,338	10,852	282,641
Other transportation equipment.....	398,041	92,884	226		285,417	19,514	
Miscellaneous.....	26,877,486	4,017,451	1,743,349	31,866	7,659,396	577,338	12,848,086
Coal and coke.....	741,372	166,154	12,390	721	102,383	3,140	456,584
Paving materials and mixtures.....	4,963,613	372,195	1,552	2,428	663,695	18,834	3,904,909
Petroleum products.....	5,009,050	743,517	126,945	6,700	2,572,429	74,104	2,085,355
Rubber goods.....	555,113	154,332	4,352	504	145,680	3,902	246,343
Other materials.....	15,008,338	2,581,253	1,598,110	21,513	4,175,209	477,358	6,154,895

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.

Rentals and services on projects operated by the Work Projects Administration for the first quarter of 1940, the fourth quarter of 1939, and the first quarter of 1939 are shown in table 22, by type of rental and service.

TABLE 22.—*Rentals and Services on Projects Operated by Work Projects Administration*
[Subject to revision]

Type of rental and service	First quarter of 1940 ¹	Fourth quar- ter of 1939 ²	First quarter of 1939 ³
All rentals and services.....	\$50,644,414	\$58,664,517	\$68,552,691
Motor vehicles.....	20,442,715	22,860,545	32,867,160
Teams and wagons.....	358,256	430,062	797,794
Paving, road building, and construction equipment..	15,066,908	19,502,086	19,230,775
Other equipment (including office equipment).....	2,081,725	1,642,517	1,700,368
Other rentals and services.....	12,694,810	14,229,307	13,956,594

¹ Quarterly period ending Mar. 31, 1940.

² Quarterly period ending Dec. 31, 1939.

³ Quarterly period ending Mar. 31, 1939. 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 23 shows the value of public contracts awarded under the act for supplies during the second quarter of 1940, the first quarter of 1940, and the second quarter of 1939.

TABLE 23.—*Value of Supply Contracts Awarded by the Federal Government, Which Contain Agreements to Comply with the Public Contracts Act, by Type of Material* ¹

[Subject to revision]

Type of materials	Value of contracts awarded		
	Second quarter 1940	First quarter 1940 ²	Second quarter 1939 ²
All materials.....	\$142,840,731	\$77,487,480	\$170,766,178
Food and kindred products.....	2,422,362	2,073,164	2,347,465
Canning and preserving: Fruits and vegetables.....	213,887	241,893	337,295
Canning and preserving: Sea foods.....	11,270	.....	16,685
Cereal preparations.....	10,000	10,564	28,854
Coffee and tea.....	464,727	457,468	535,446
Condensed and evaporated milk.....	186,328	302,846	365,688
Feeds, prepared, for animals and fowls.....	169,922	117,078	103,941
Flour and other grain-mill products.....	145,888	229,366	114,368
Meat-packing products.....	199,895	141,300	180,708
Sugar.....	413,671	150,224	208,558
Miscellaneous food products.....	606,774	422,425	458,522

¹ The act does not apply to contracts not exceeding \$10,000 nor to contracts for such materials, supplies, or equipment as may usually be bought in the open market, nor to perishables, including livestock and dairy and nursery products, etc.

² Revised.

TABLE 23.—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		
	Second quarter 1940	First quarter 1940	Second quarter 1939
Textiles and their products..	\$14,724,825	\$5,933,040	\$7,298,807
Awnings, tents, sails, and canvas covers..	373,456	199,238	17,225
Clothing (overcoats, suits, trousers, etc.)..	1,515,834	1,299,774	42,106
Clothing, manufacture only ³	46,488	12,920	402,791
Cordage and twine, including thread.....	325,673	74,450	99,026
Cotton goods (drills, prints, sheeting, etc.)..	2,324,068	994,099	4,251,964
Cotton shirts.....	51,625	195,120	29,018
Furnishing goods, men's, not elsewhere classified..	1,584,109	418,783	297,520
Housefurnishing goods (pillow cases, sheets, etc.)..	5,520,601	179,591	440,369
Knit goods (hosiery, underwear, etc.)..	101,905	719,268	169,135
Linoleum.....	94,492	—	43,509
Woolen goods (flannels, suiting, etc.)..	1,133,700	616,937	751,000
Work clothing.....	141,412	83,285	187,317
Miscellaneous textile products.....	1,511,462	1,139,605	567,827
Forest products..	2,930,299	1,289,659	2,437,456
Cork and cork products..	24,584	—	49,000
Furniture.....	431,979	53,906	249,261
Lumber and timber products, not elsewhere classified..	863,035	1,167,643	419,793
Planing-mill products.....	1,435,716	—	1,719,402
Treated lumber and timber.....	116,429	68,110	—
Miscellaneous forest products.....	58,556	—	—
Chemicals and allied products..	3,909,824	4,273,463	2,727,269
Ammunition and related products..	838,918	1,356,876	607,987
Compressed and liquefied gases..	77,840	319,698	301,053
Drugs and medicines..	163,901	617,995	29,690
Explosives.....	148,676	169,042	677,679
Linseed oil.....	10,446	125,487	—
Paints and varnishes.....	442,526	300,808	269,402
Soap and soap chips.....	81,288	281,151	203,186
Miscellaneous chemicals.....	2,146,229	1,092,406	638,272
Products of asphalt, coal, and petroleum..	22,224,108	4,435,220	22,671,779
Asphalt, oil, tar, and mixtures..	1,020,917	210,630	1,369,254
Coal and coke.....	5,782,535	272,821	1,625,367
Fuel oil.....	9,928,645	839,251	10,037,745
Gasoline.....	5,011,176	2,759,586	7,386,230
Lubricating oils and greases.....	130,891	88,844	1,980,403
Miscellaneous coal and petroleum products..	349,944	264,088	272,780
Leather and its manufactures..	1,744,783	2,181,081	169,300
Boots and shoes.....	1,507,400	1,530,534	—
Boot and shoe cut stock..	21,760	241,181	—
Gloves.....	105,654	369,827	51,062
Miscellaneous leather goods..	109,969	39,539	118,238
Stone, clay, and glass products..	4,725,733	1,831,738	4,353,063
Brick.....	205,761	56,059	145,665
Cement.....	2,380,883	1,021,910	1,552,230
Concrete pipe.....	102,184	29,180	78,337
Concrete, ready mixed..	607,231	98,725	463,638
Crushed stone.....	511,902	21,710	960,598
Glass.....	91,031	76,438	44,935
Granite and marble..	65,602	52,264	228,655
Riprap stone.....	—	10,000	22,500
Sand and gravel.....	140,972	140,505	342,054
Soil, black earth.....	94,401	35,900	90,788
Tile, clay, including drain.....	42,480	—	63,904
Vitrified clay and terra-cotta pipe.....	88,165	12,000	76,153
Miscellaneous stone, clay, and glass products..	395,121	277,047	283,601

³ Labor only. Material furnished by United States Government.

TABLE 23.—*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		
	Second quarter 1940	First quarter 1940	Second quarter 1939
Iron and steel and their products, not including machinery.	\$9,645,792	\$10,607,310	\$10,243,576
Bolts, nuts, rivets, washers, etc.	146,825	428,205	12,460
Cast-iron pipe and fittings.	228,882	263,237	191,155
Fencing materials.	15,125	—	10,808
Firearms.	1,353,839	587,616	—
Forgings, iron and steel.	543,003	3,182,972	365,357
Hardware, miscellaneous.	24,055	26,411	10,625
Metal doors, sash, and frames.	—	77,846	190,977
Metal furniture.	427,490	264,912	345,664
Metal shingles and roofing.	57,813	62,670	—
Pipe and fittings, not elsewhere classified.	66,152	69,280	11,880
Plumbing fixtures and supplies.	83,233	81,050	64,622
Rails and fastenings.	49,363	69,164	31,160
Reinforcing steel.	456,929	924,322	309,922
Steel pipe and fittings.	299,582	398,780	319,786
Steel sheets, plates, shapes, and strips.	833,070	670,400	2,316,820
Stoves and ranges, other than electric.	427,624	116,873	360,499
Structural steel, fabricated, and sheet-steel piling.	736,780	692,320	2,200,259
Tools, other than machine tools.	179,388	197,678	44,350
Wire products.	325,276	264,933	178,364
Miscellaneous iron and steel products.	3,391,363	2,228,641	3,278,868
Nonferrous metals and their alloys.	3,462,238	2,877,096	1,847,241
Aluminum manufactures.	244,616	258,760	281,716
Brass products.	1,378,571	1,542,533	281,853
Bronze products.	50,978	14,455	38,750
Copper products.	156,576	301,902	559,304
Fixtures, gas and electric.	98,972	92,588	77,552
Lead products.	16,676	51,486	—
Magnesium.	—	10,571	25,340
Nickel.	192,314	25,822	101,500
Plated ware.	—	—	10,470
Sheet-metal work.	10,764	—	57,560
Tin.	21,242	279,208	—
Zinc.	10,725	63,840	45,356
Miscellaneous nonferrous metals and alloys.	1,280,804	1,235,931	367,840
Machinery, not including transportation equipment and electrical equipment.	11,379,899	9,542,316	11,481,952
Air-conditioning equipment.	39,182	105,533	146,813
Business machines.	58,350	—	68,269
Cranes.	117,778	373,698	1,430,734
Elevators and elevator equipment.	318,968	112,314	48,979
Engines, turbines, tractors, and parts.	3,846,816	1,169,696	3,956,149
Filter and purification equipment.	15,936	41,720	39,601
Laundry machinery and equipment.	192,915	—	41,434
Machine tools.	1,927,415	2,312,079	1,910,598
Power shovels and draglines.	221,201	424,571	144,854
Printing and publishing machinery.	78,108	90,646	164,401
Pumps and pumping equipment.	1,271,322	1,402,469	913,747
Refrigerators and refrigerating and ice-making machinery.	76,986	330,085	—
Road machinery.	136,703	88,333	120,206
Windlasses, winches, and capstans.	192,105	206,842	300,779
Miscellaneous machinery and parts.	2,886,114	2,884,420	2,195,388
Electrical machinery, apparatus, and supplies.	9,365,393	7,619,046	9,574,117
Batteries.	104,949	78,423	37,537
Circuit breakers and switches.	122,990	148,921	306,652
Electric cable, wire, and other conductors.	3,087,576	1,814,060	2,055,455
Generators and spare parts.	2,975,033	1,340,941	238,479
Heaters and ranges.	76,278	48,000	—
Lamps, incandescent, and X-ray tubes.	—	10,542	—
Motors.	12,800	24,513	155,565
Radio equipment and supplies.	508,371	367,573	1,694,116
Spark plugs.	14,417	187,271	188,641
Starters.	—	14,245	—
Switchboards, relay and control equipment.	165,009	1,864,125	149,525
Telephone and telegraph apparatus.	498,914	380,180	1,006,285
Transformers.	815,267	302,688	422,822
Welding equipment.	84,902	351,236	14,520
Miscellaneous electrical machinery, apparatus, and supplies.	898,887	686,328	3,304,520

TABLE 23.—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		
	Second quarter 1940	First quarter 1940	Second quarter 1939
Transportation equipment	\$43,003,594	\$18,855,760	\$82,650,864
Aircraft.....	187,703	58,286	34,875,334
Aircraft parts and equipment.....	954,602	8,611,919	4,628,393
Boats and boat equipment.....	391,866	169,192	54,387
Motorcycles and parts.....	205,100	857,867	109,094
Motor vehicles, passenger.....	515,382	48,561	336,725
Motor vehicles, trucks.....	3,223,483	8,222,643	6,504,222
Naval vessels.....	35,160,000	35,980	35,915,948
Railway cars.....	241,848	73,756	
Railway locomotives.....	53,610	64,018	89,283
Miscellaneous transportation equipment.....	2,070,000	713,538	137,478
Miscellaneous	13,310,881	5,968,587	12,963,289
Brooms, brushes, bristles, etc.....	38,901	72,659	39,419
Dental goods and equipment.....	172,673	26,743	108,151
Instruments, professional and scientific.....	4,720,901	2,823,534	2,318,480
Office equipment and supplies, not elsewhere classified.....	1,217,101	261,463	
Paper and allied products.....	2,741,712	391,418	5,276,986
Photographic apparatus and materials.....	522,985	752,662	772,788
Printing, publishing, and subscriptions.....	308,789	85,368	176,319
Rubber products.....	474,211	256,961	669,358
Slag.....	327,288	36,755	218,107
Steam and other packing, pipe and boiler covering.....	307,125	35,271	338,516
Surgical and orthopedic supplies and appliances.....	350,715	207,163	62,306
Tobacco manufactures.....	121,942		103,444
Other materials.....	1,616,710	862,163	1,694,614
Rentals, services, etc. (equipment rental, repairs, aerial surveys, etc.).	389,828	156,427	1,184,801

The value of public contracts awarded for supplies by Federal agencies totaled \$142,850,000 during the second quarter of 1940. Of the contracts awarded in the second quarter of 1940, \$43,004,000 was for transportation equipment; \$22,224,000 for asphalt, coal, and petroleum; \$14,725,000 for textiles; and \$11,380,000 for machinery.

Although the value of supply contracts awarded for transportation equipment in the second quarter of 1940 was greater than for any other type of material, it was only slightly more than one-half of the total for the second quarter of 1939. The difference is almost entirely accounted for by a decrease in contract awards for aircraft, aircraft parts, and equipment. Contracts for these materials under the new National Defense program will not be reflected in this category until the third quarter of 1940.

