

Serial No. R. 1416

UNITED STATES DEPARTMENT OF LABOR

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EMPLOYMENT AND PAY ROLLS

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OCTOBER 1941

UNITED STATES GOVERNMENT PRINTING OFFICE • WASHINGTON • 1942

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Employment and Pay Rolls

SUMMARY OF REPORTS OF EMPLOYMENT FOR OCTOBER 1941

Total Nonagricultural Employment

TOTAL civil nonagricultural employment in October amounted to 40,767,000 according to revised estimates, an increase of approximately 59,000 over September, 3,392,000 since October 1940, and more than 3,400,000 since the 1929 peak. In each month since February 1941, the total has exceeded all previously recorded levels. These figures do not include the armed forces, C. C. C. enrollees, or workers on W. P. A. and N. Y. A. projects; the armed forces numbered 2,014,000 in the month of October, and other emergency employment totaled 1,780,000.

Private factory employment as a whole showed virtually no change from mid-September to mid-October, the gain in the durable-goods industries having been offset by a decline in the nondurable-goods group, due largely to a seasonal decrease in canning. Contract construction employment (which includes employees of construction contractors only and does not include construction workers employed directly by other industries) showed a gain of 44,000 and the number of workers engaged in trade increased by 60,000. Finance, service, and miscellaneous establishments reduced their forces by 73,000 and the remaining groups showed little change.

Gains in nonagricultural employment between October 1940 and October 1941 were reported by all major groups as follows: Manufacturing (1,872,000); Federal, State, and local Government (390,000); trade (362,000); contract construction (326,000); transportation and public utilities (243,000); finance, service, and miscellaneous (147,000); and mining (52,000).

The military and naval forces of the Nation increased 1,281,000 persons during the past year, while other emergency employment decreased 911,000. The reductions were distributed as follows: W. P. A., 733,000; N. Y. A., 22,700; and C. C. C., 146,000.

Industrial and Business Employment

Gains in employment between mid-September and mid-October were reported by 88 of the 157 manufacturing and 6 of the 16 non-

manufacturing industries regularly surveyed by the Bureau of Labor Statistics. Pay-roll increases were reported in 107 manufacturing and 11 nonmanufacturing industries.

For all manufacturing industries combined, the gains were 0.1 percent in employment (11,100 wage earners) and 2.5 percent in weekly wages (\$7,756,000). The durable-goods group of manufacturing industries showed gains of 1.3 percent in employment and 4.3 percent in pay rolls, while the nondurable-goods group reported declines of 1.2 percent in employment and 0.2 percent in pay rolls. Among the industries which contributed to the gains in the durable-goods group were aircraft, engines, electrical machinery, foundry and machine-shop products, machine-tool accessories, and machine tools. Two important defense industries showed slight decreases in employment due largely to material shortages, namely, "blast furnaces, steel works, and rolling mills" and "brass, bronze, and copper products." Other durable-goods industries showing employment declines were: Tin cans and other tinware (10.3) percent; cement (2.2 percent); brick, tile, and terra cotta (2.0 percent); smelting and refining of copper, lead, and zinc (1.6 percent); wirework (1.5 percent); and sawmills (1.4 percent). The major employment decline among the nondurable-goods industries was the seasonal decrease in canning and preserving (32.1 percent). Other nondurable-goods industries showing declines due partly to seasonal factors or to material shortages were: Millinery (9.5 percent), corsets and allied garments (9.0 percent), knitted cloth (6.2 percent), beverages (4.0 percent), women's clothing (2.8 percent), and silk and rayon goods (2.2 percent).

A comparison with June 1940, when the defense program was inaugurated, showed that employment of wage earners in all private manufacturing industries combined had increased by more than 2,500,000 or 31 percent. Of this total 1,100,000 workers were absorbed in the following 18 defense industries: Blast furnaces, steel works, and rolling mills; foundry and machine-shop products; electrical machinery, apparatus, and supplies; smelting and refining—copper, lead, and zinc; brass, bronze, and copper products; aluminum manufactures; machine tools; machine-tool accessories; abrasives; screw-machine products; aircraft; aero engines; shipbuilding; firearms; ammunition; explosives; optical goods; and instruments.

Among the nonmanufacturing industries surveyed, wholesale trade employment showed a seasonal increase of 1.0 percent and retail trade a slightly smaller than seasonal gain of 0.9 percent. Slight employment gains were also reported in anthracite and bituminous-coal mining, metal mining, and telephone and telegraph exchanges. The remaining nonmanufacturing industries showed employment declines, the largest being in laundries (1.8 percent), private building construction (1.3 percent), and electric light and power (1.1 percent).

A preliminary report of the Interstate Commerce Commission for class I steam railroads showed an employment gain of 0.5 percent between September and October, the total number employed in October being 1,217,750. Corresponding pay-roll figures for October were not available when this report was prepared. For September they were \$196,757,736, a decrease of \$3,195,439 since August. This decrease was due to the fact that September had only 30 days as against 31 days for August.

Hours and earnings.—The average hours worked per week by manufacturing wage earners were 41.1 in October, a gain of 0.4 percent since September. The corresponding average hourly earnings were 77.0 cents, a gain of 1.7 percent over the preceding month. The average weekly earnings of factory wage earners (both full and part time combined) were \$32.89, an increase of 2.3 percent since September. Of the 16 nonmanufacturing industries regularly surveyed, 10 reported an increase in average weekly earnings. Of the 14 nonmanufacturing industries for which man-hours are available, 7 showed gains in average hours worked per week and 12 reported increases in average hourly earnings. Wage-rate increases averaging 8.7 percent and affecting 400,060 wage earners were reported by 1,186 manufacturing plants out of a reporting sample of approximately 34,000 plants employing nearly 7,800,000 wage earners. About 72,000 workers out of a sample of more than 3,000,000 were reported as having received wage increases in nonmanufacturing industries. About half of these were anthracite miners. As the Bureau's survey does not cover all establishments in an industry and, furthermore, as some firms may have failed to report wage-rate changes, these figures should not be construed as representing the total number of wage changes occurring in manufacturing and nonmanufacturing industries.

Public Employment

Employment in all regular branches of the Federal Government excluding the military and naval forces, increased 24,000 in the month of October and reached a total of 1,521,000 persons. Civilian employees of the War and Navy Departments and of such defense agencies as the Office for Emergency Management and the Selective Service System, which are included in the above figure, numbered 703,000, or 46 percent of all regular Federal employees. These 4 defense departments and agencies accounted for 85 percent of the 421,000 increase in employment since October 1940. Employees inside the District of Columbia represented 13 percent of those in the executive service in October 1941, and 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) represented 12 percent.

The military service, including the uniformed personnel of the Army, Navy, Marine Corps, and Coast Guard, added 22,000 persons in the past month. The total of 2,014,000 persons engaged in military activities in the month of October represented a gain over a year ago of 1,281,000.

In addition to the direct employment in the regular Federal service, the Government also gave employment on construction projects and on work-relief programs. All construction projects, including those financed by P. W. A. and R. F. C. funds, and low-rent housing projects of the U. S. H. A., in the month ending October 15, employed 1,092,000 persons of whom almost 80 percent were engaged in defense construction. During the month, employment increases of almost 119,000 on defense construction projects (mainly on nonresidential building construction and the construction of naval and other vessels) more than offset the minor decreases in nondefense construction work. Pay rolls for all construction projects were \$164,224,000 in the current month. Of this amount, \$136,733,000, or 83 percent of the total, was for defense work. Of the various types of construction projects, those financed from appropriations to regular Federal agencies employed the largest number of persons. Employees on such projects have increased during the past year from 84 to 94 percent of those on all Federal construction projects and numbered 1,023,000 persons in the current month, as compared with 477,000 a year ago.

Work-relief programs, including the W. P. A., N. Y. A., and C. C. C., showed an increase in personnel of 208,000 over the past month, due mainly to the continued seasonal expansion of the school-work program of the N. Y. A. Over the past year, however, personnel on work-relief programs was reduced 911,000 and pay rolls were reduced \$43,679,000. These were declines of more than one-third. In October 1941 employment on defense projects of the W. P. A. was 328,000 or almost one-third of the total W. P. A. employment. The decline over last month of 17,500 persons in the number on the pay rolls of the Civilian Conservation Corps, was largely in the enrollee group.

A summary of employment and pay-roll data in the regular Federal services and on projects financed wholly or partially from Federal funds is given in table 1.

TABLE 1.—*Summary of Employment and Pay Rolls in Regular Federal Services and on Projects Financed Wholly or Partially from Federal Funds, September and October 1941*¹

[Subject to revision]

Class	Employment			Pay rolls		
	October 1941	September 1941	Percentage change	October 1941	September 1941	Percentage change
Federal services:						
Executive ²	1,512,428	1,487,925	+1.6	\$235,855,055	\$224,140,668	+5.2
Judicial.....	2,569	2,571	(³)	653,725	661,970	-1.2
Legislative.....	6,242	6,279	-6	1,341,587	1,352,151	-8
Military.....	2,014,453	1,992,022	+1.1	138,645,087	133,030,642	+4.2
Construction projects:						
Financed from regular Federal appropriations.....	1,023,182	944,138	+8.3	155,745,748	137,443,603	+13.3
Defense.....	830,883	720,244	+15.4	132,240,571	112,907,236	+17.1
Other.....	192,299	223,894	-14.1	23,505,177	24,536,367	-4.2
U. S. H. A. low-rent housing.....	40,820	40,836	(³)	4,552,414	4,559,452	-2
Defense.....	12,091	11,955	+1.1	1,341,940	1,352,783	-8
Other.....	28,729	28,881	-5	3,210,474	3,206,669	+1
Financed by P. W. A. ⁴	4,381	4,562	-4.0	494,334	525,514	-5.9
Financed by R. F. C. ⁵	23,853	16,500	+44.6	3,431,600	2,662,639	+28.9
Defense.....	21,806	14,173	+53.9	3,149,994	2,355,073	+33.8
Other.....	2,047	2,327	-12.0	281,606	307,566	-8.4
Work Projects Administration projects.....	1,040,483	1,036,981	+3	62,933,276	61,224,870	+2.8
Defense.....	328,350	335,296	-2.1	20,079,987	19,867,586	+1.1
Other.....	712,133	701,685	+1.5	42,853,289	41,357,284	+3.6
National Youth Administration:						
Student work program.....	273,942	33,000	+730.1	1,735,728	147,000	+1,080.8
Out-of-school work program.....	292,970	312,074	-6.1	7,141,030	7,452,277	-4.2
Civilian Conservation Corps.....	172,706	190,110	-9.2	8,465,633	9,258,055	-8.6

¹ For explanation of employment count and pay roll period, see footnotes to detailed tables.

² Includes force-account and supervisory and technical employees shown under other classifications to the extent of 207,680 employees and \$33,536,584 pay roll for October, and 205,386 employees and \$31,402,701 pay roll for September.

³ Decrease less than 1/10 of 1 percent.

⁴ Includes data covering P. W. A. projects financed from Emergency Relief Appropriation Acts of 1935, 1936, 1937 funds, as follows: For October, 1,955 wage earners and \$212,581 pay roll; for September, 2,476 wage earners and \$202,031 pay roll. Also includes data covering P. W. A. projects financed from Public Works Administration Appropriation Act, 1938 funds, as follows: For October, 2,328 wage earners and \$271,580 pay roll; for September, 1,981 wage earners and \$228,054 pay roll. Also includes data for P. W. A. projects financed from National Industrial Recovery Act funds, as follows: For October, 98 wage earners and \$10,173 pay roll; for September, 104 wage earners and \$9,825 pay roll.

⁵ Includes 613 employees and \$95,224 pay roll for October and 677 employees and \$96,391 pay roll for September on projects financed by the RFC Mortgage Co.



DETAILED REPORTS FOR OCTOBER 1941

Estimates of Nonagricultural Employment

IN TABLE 2 are given estimates of nonagricultural employment, by major groups. The figures represent the number of persons working at any time during the week ending nearest the middle of the month and, for all groups combined, have been adjusted to the number of nonagricultural "gainful workers" shown by the 1930 Census of Occupations less the number who were unemployed for 1 week or more at the time of the census. The estimates for the individual groups 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.

Estimates of "Employees in nonagricultural establishments," by States, are given in table 3. Because the State figures do not include employees on merchant vessels, and because of certain adjustments in the United States estimates which have not been made on a State basis, the totals of the State estimates will not agree exactly with the figures for the United States as a whole.

TABLE 2.—*Estimates of Total Nonagricultural Employment, by Major Groups*

[In thousands]

Employment group	October 1941 (preliminary)	September 1941	Change September to October 1941	October 1940	Change October 1940 to October 1941
Total civil nonagricultural employment ¹	40,767	40,708	+59	37,375	+3,392
Civil employees in nonagricultural establishments ² ..	34,624	34,565	+59	31,232	+3,392
Manufacturing ³	12,786	12,775	+11	10,914	+1,872
Mining.....	908	906	+2	856	+52
Contract construction ⁴	1,980	1,938	+44	1,654	+326
Transportation and public utilities.....	3,364	3,367	-3	3,121	+243
Trade ⁵	7,068	7,008	+60	6,706	+362
Finance, service, and miscellaneous ⁶	4,252	4,325	-73	4,105	+147
Federal, State, and local governments.....	4,266	4,248	+18	3,876	+390
Military and naval forces (not included above).....	2,014	1,992	+22	733	+1,281

¹ Excludes employees on W. P. A. and N. Y. A. projects and employees in C. C. C. camps. Includes proprietors, firm members, self-employed persons, casual workers, and domestic servants. Includes allowance for adjustment of factory and trade totals to preliminary 1939 census figures. Revised series available on request.

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

³ Adjusted to preliminary 1939 Census of Manufactures.

⁴ Includes employees of construction contractors only. Does not include construction workers employed directly by other industries.

⁵ Adjusted to preliminary 1939 Census of Retail Trade.

⁶ Revised series.

TABLE 3.—*Estimated Number of Employees in Nonagricultural Establishments, by States*

[Excludes proprietors, firm members, self-employed persons, casual workers, domestic workers, the armed forces of the United States, and employees on merchant vessels]

[In thousands]

Geographic division and State	October 1941 (preliminary)	September 1941	Change September to October 1941		October 1940	Change October 1940 to October 1941	
			Number	Percentage		Number	Percentage
New England	2,970	2,980	-10	-0.4	2,621	+349	+13.2
Maine.....	208	220	-12	-5.4	187	+21	+11.1
New Hampshire.....	148	152	-4	-3.0	131	+17	+13.0
Vermont.....	80	81	-1	-1.7	73	+7	+9.6
Massachusetts.....	1,552	1,546	+6	+4	1,382	+170	+12.3
Rhode Island.....	272	274	-2	-0.9	241	+31	+12.5
Connecticut.....	710	707	+3	+4	607	+103	+16.8
Middle Atlantic	8,621	8,643	-22	-2	7,892	+729	+9.2
New York.....	4,231	4,267	-36	-8	3,944	+287	+7.3
New Jersey.....	1,340	1,344	-4	-3	1,195	+145	+12.1
Pennsylvania.....	3,050	3,032	+18	+6	2,753	+297	+10.8
East North Central	7,917	7,955	-38	-5	7,085	+832	+11.7
Ohio.....	2,085	2,081	+4	+1	1,835	+250	+13.6
Indiana.....	930	958	-28	-2.9	818	+112	+13.7
Illinois.....	2,588	2,581	+7	+3	2,306	+282	+12.2
Michigan.....	1,583	1,592	-9	-5	1,467	+116	+7.9
Wisconsin.....	731	743	-12	-1.6	659	+72	+11.0

TABLE 3.—*Estimated Number of Employees in Nonagricultural Establishments, by States—Continued*

Geographic division and State	October 1941 (preliminary)	September 1941	Change September to October 1941		October 1940	Change October 1940 to October 1941	
			Number	Percentage		Number	Percentage
West North Central	2, 663	2, 630	+33	+1.2	2, 401	+262	+10.9
Minnesota.....	590	593	-3	-.6	536	+54	+9.9
Iowa.....	449	443	+6	+1.3	411	+38	+9.4
Missouri.....	907	881	+26	+3.0	782	+125	+16.0
North Dakota.....	82	81	+1	+1.1	77	+5	+5.6
South Dakota.....	87	86	+1	+1.1	85	+2	+2.2
Nebraska.....	220	219	+1	+1.4	203	+17	+8.6
Kansas.....	328	327	+1	+1.3	307	+21	+6.9
South Atlantic	4, 087	4, 071	+16	+1.4	3, 656	+431	+11.8
Delaware.....	78	82	-4	-4.4	77	+1	+2.2
Maryland.....	621	626	-5	-.8	529	+92	+17.5
District of Columbia.....	423	421	+2	+1.6	362	+61	+16.7
Virginia.....	598	601	-3	-.5	520	+78	+15.0
West Virginia.....	414	414	0	(1)	378	+36	+9.6
North Carolina.....	678	666	+12	+1.8	621	+57	+9.2
South Carolina.....	332	332	0	(1)	293	+39	+13.4
Georgia.....	559	555	+4	+1.8	496	+63	+12.6
Florida.....	384	374	+10	+2.7	380	+4	+1.9
East South Central	1, 571	1, 570	+1	(1)	1, 406	+165	+11.7
Kentucky.....	399	401	-2	-.6	367	+32	+8.7
Tennessee.....	504	504	0	+1.1	457	+47	+10.5
Alabama.....	452	449	+3	+1.6	386	+66	+17.0
Mississippi.....	216	216	0	-.4	196	+20	+9.9
West South Central	2, 063	2, 051	+12	+1.6	1, 909	+154	+8.1
Arkansas.....	204	204	0	+1.1	189	+15	+8.0
Louisiana.....	408	399	+9	+2.2	403	+5	+1.3
Oklahoma.....	315	314	+1	+1.3	295	+20	+7.0
Texas.....	1, 136	1, 134	+2	+1.2	1, 022	+114	+11.2
Mountain	874	884	+10	+1.2	796	+78	+9.6
Montana.....	120	121	-1	-.5	115	+5	+4.3
Idaho.....	94	94	0	-.4	88	+6	+5.9
Wyoming.....	61	59	+2	+1.8	54	+7	+11.2
Colorado.....	256	246	+10	+4.0	231	+25	+10.6
New Mexico.....	78	81	-3	-2.7	72	+6	+8.5
Arizona.....	102	96	+6	+5.7	89	+13	+14.7
Utah.....	125	128	-3	-2.2	113	+12	+10.6
Nevada.....	38	39	-1	-.1	34	+4	+13.3
Pacific	2, 886	2, 883	+3	+1.1	2, 492	+394	+15.8
Washington.....	524	520	+4	+1.7	438	+86	+19.7
Oregon.....	291	295	-4	-1.2	245	+46	+19.1
California.....	2, 071	2, 068	+3	+1.1	1, 809	+262	+14.5

¹ Less than 1/10 of 1 percent.

Industrial and Business Employment

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

The employment, pay-roll, hours, and earnings figures for manufacturing, mining, laundries, and dyeing and cleaning, cover wage earners

only, but the figures for public utilities, brokerage, insurance, and hotels, relate to all employees except corporation officers and executives, while for trade they relate to all employees except corporation officers, executives, and other employees whose duties are mainly supervisory. For crude-petroleum production they cover wage earners and clerical field force. The coverage of the reporting samples for the various nonmanufacturing industries ranges from approximately 25 percent for wholesale and retail trade, dyeing and cleaning, and insurance, to approximately 80 percent for quarrying and nonmetallic mining, anthracite mining, and public utilities, and 90 percent for metal mining.

The general manufacturing indexes are computed from reports supplied by representative manufacturing establishments in 90 of the 157 industries surveyed. These reports cover more than 55 percent of the total wage earners in all manufacturing industries of the country and more than 65 percent of the wage earners in the 90 industries covered.

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

The average weekly earnings shown in tables 4 and 5 are computed by dividing the weekly pay rolls in the reporting establishments by the total number of full- and part-time employees reported. As not all reporting establishments supply information on man-hours, average hours worked per week and average hourly earnings are necessarily based on data furnished by a slightly smaller number of reporting firms. The size and composition of the reporting sample vary somewhat from month to month and, therefore, the average hours per week, average hourly earnings, and average weekly earnings shown may not be strictly comparable from month to month. The sample, however, is believed to be sufficiently adequate in virtually all instances to indicate the general movement of earnings and hours over the period shown. The changes from the preceding month, expressed as percentages, are based on identical lists of firms for the 2 months, but the changes from October 1940 are computed from chain indexes based on the month-to-month percentage changes.

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

The indexes of employment and pay rolls as well as average hours worked per week, average hourly earnings, and average weekly earnings in manufacturing and nonmanufacturing industries in October 1941 are shown in table 4. Percentage changes from September 1941 and October 1940 are also given.

Employment and pay-roll indexes, as well as average hours worked per week, average hourly earnings, and average weekly earnings for August, September, and October 1941, where available, are presented in table 5. The August and September figures, where given, may differ in some instances from those previously published because of revisions necessitated primarily by the inclusion of late reports. Indexes of employment and pay rolls are given in table 6 for 55 additional manufacturing industries for the months of August, September, and October 1941. These indexes are based on 1939 as 100 and are available in mimeographed form for the period from January 1939 to January 1941, inclusive.

In table 7 indexes of employment and pay rolls are given for all manufacturing industries combined, for the durable- and nondurable-goods groups of manufacturing industries, and for each of 13 non-manufacturing industries, by months, from October 1940 to October 1941, inclusive. The chart on page 11 indicates the trend of factory employment and pay rolls from January 1919 to October 1941.

Indexes of factory employment by metropolitan areas and cities of 100,000 population or over according to the 1930 Census of Population are given in table 8 for September and October 1941 and October 1940, together with percentage changes from September to October 1941 and from October 1940 to October 1941.

Use of average hourly earnings in "escalator" clauses.—Average hourly earnings of wage earners, such as those shown in table 4, have been compiled regularly by the Bureau of Labor Statistics since 1932. These averages are published for the use of those who wish either to compare the average earnings of wage earners in different industries, or to study the changes in average earnings over a period of time.

Certain characteristics of the average earnings should be indicated. The average of the actual earnings of wage earners as a group may change from one period to another for either of two reasons: (1) By reason of changes in the wages paid or (2) by reason of changes in the composition of the group of wage earners actually at work in different periods. As an example of the latter cause of change, it is evident that if, from one month to the next, the number of wage earners employed in a high-wage industry increases proportionally more than employment generally has increased, the average of actual earnings for the group as a whole will increase. This increase might take place even though there were no changes whatsoever in the earnings of any wage earner in any one of the establishments. It is apparent, therefore, that the Bureau's averages reflect both changes in the actual hourly rates paid as well as changes in the composition of the wage earners in the group. The averages contained in table 4 for all manufacturing, for durable goods, for nondurable goods, and for the various subgroups of industries, such as "iron and steel and their products,"

reflect both types of influence upon hourly earnings; and they measure the average of the actual earnings of the wage earners actually at work in each respective period.

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

It should be pointed out that the characteristics of the Bureau's average hourly earnings figures, as described above, make it desirable to use these averages for other than their designed purpose with a certain degree of caution. The purpose for which they were compiled limits their usefulness, especially in July and August, as a measure of change in labor rates. In these months the averages usually show a seasonal movement unrelated to rates of pay. For example, the average hourly earnings figure in the durable-goods industries dropped from 73.2 cents in June 1940 to 72.7 cents in July 1940. This drop was due not to a general decline in wages in this period but almost entirely to the fact that employment in the automobile industry declined sharply as the result of model changes. This industry is a high-wage industry in which the average hourly earnings were about 95 cents an hour. Between June and July 1940 employment in the automobile industry dropped from 104.9 to 82.3. This relative decline, of a purely seasonal character, in the number of highly paid automobile workers was very largely responsible for the decline of half a cent noted in the average hourly earnings in durable-goods industries.

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

It is not within the province of the Bureau to indicate the type of average that was contemplated by the contracting parties in the contracts already drawn; least of all can the method of compiling an average be changed. It is obvious, however, that in incorporating



any statistical series in legal documents careful consideration should be given to the purpose for which the figures were originally compiled and to their relevance to some new purpose. The officials of the Bureau are at the disposal of all those who wish to apply any of the Bureau's series to administrative problems. Carefully interpreted and applied, these data have a present usefulness far greater than was imagined in the past. Their appropriate adaptation to new uses involves on the one hand a careful consideration by the Bureau of the purposes of the contracting parties; on the other, consultation with the Bureau to discover whether the new figures as they stand meet the purposes in mind.

TABLE 4.—*Employment, Pay Rolls, Hours, and Earnings in Manufacturing and Nonmanufacturing Industries, October 1941*

MANUFACTURING

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

Industry	Employment			Pay rolls			Average weekly earnings ¹			Average hours worked per week ¹			Average hourly earnings ¹		
	Index Oct. 1941	Percentage change from—		Index Oct. 1941	Percentage change from—		Oct. 1941	Percentage change from—		Oct. 1941	Percentage change from—		Oct. 1941	Percentage change from—	
		Sept. 1941	Oct. 1940		Sept. 1941	Oct. 1940		Sept. 1941	Oct. 1940		Sept. 1941	Oct. 1940		Sept. 1941	Oct. 1940
All manufacturing ^{2 3}	135.3	+0.1	+18.9	166.6	+2.5	+43.4	\$32.89	+2.3	+20.6	41.1	+0.4	+4.8	Cents 77.0	+1.7	+14.7
Durable goods ^{2 3}	144.0	+1.3	+27.7	191.1	+4.3	+54.9	37.87	+2.9	+21.3	42.9	+1.5	+4.8	85.3	+1.2	+15.5
Nondurable goods ^{2 3}	127.1	-1.2	+10.7	139.2	- .2	+28.8	26.10	+1.0	+16.2	39.1	-1.0	+4.1	68.0	+1.8	+11.8
<i>Durable goods</i>															
Iron and steel and their products, not including machinery	139.5	-.7	+19.1	173.0	+1.5	+40.1	36.56	+2.1	+17.5	41.5	+1.9	+3.5	87.7	+ .2	+13.4
Blast furnaces, steel works, and rolling mills.....	147.9	-.6	+18.1	181.0	+1.4	+38.2	38.65	+2.1	+17.0	39.9	+2.5	+2.9	96.9	- .3	+13.7
Bolts, nuts, washers, and rivets.....	169.8	-.5	+40.0	255.7	+3.8	+71.0	35.90	+4.3	+22.1	44.3	+3.2	+4.8	81.6	+1.1	+16.5
Cast-iron pipe.....	98.0	+ .2	+16.7	119.1	+2.8	+40.3	29.16	+2.6	+20.2	41.3	- .4	+2.8	70.0	+2.6	+16.6
Cutlery (not including silver and plated cutlery) and edge tools.....	131.7	+3.1	+18.4	154.3	+3.2	+45.2	30.80	+ .1	+22.7	44.0	- .7	+7.2	70.7	+ .7	+13.9
Forgings, iron and steel.....	113.8	+ .8	+41.5	180.0	+3.8	+76.2	42.91	+3.0	+24.6	46.2	+2.3	+6.8	93.3	+ .7	+16.4
Hardware ³	115.2	- .7	+9.4	151.5	+1.8	+27.5	32.29	+2.6	+16.5	43.1	+2.2	+5.9	74.9	+ .3	+10.2
Plumbers' supplies ⁴	99.5	+ .2	+9.3	114.7	+7.9	+31.5	33.38	+7.7	+20.5	42.0	+3.8	+4.6	79.4	+3.9	+14.9
Stamped and enameled ware.....	227.2	- .3	+19.9	296.2	+1.9	+36.7	30.48	+2.2	+14.0	41.7	+1.3	+2.2	73.2	+ .9	+10.7
Steam and hot-water heating apparatus and steam fittings.....	128.4	+ .7	+29.1	157.7	+1.8	+53.9	37.00	+1.1	+19.1	44.9	+ .1	+4.6	82.6	+1.0	+13.8
Stoves.....	115.7	- .5	+8.9	130.6	+2.2	+22.5	31.64	+2.7	+12.5	42.0	+1.3	- .3	76.0	+1.4	+11.9
Structural and ornamental metalwork.....	109.5	+ .2	+27.9	126.9	+3.0	+59.5	37.90	+2.8	+24.6	44.2	+2.4	+8.7	85.2	+ .7	+15.1
Tin cans and other tinware.....	130.1	-10.3	+28.4	156.6	-16.5	+38.4	26.95	-7.0	+7.9	41.9	-1.3	+5.3	64.3	-6.2	+2.0
Tools (not including edge tools, machine tools, files, and saws).....	145.5	+ .7	+37.2	202.0	+2.7	+77.4	35.50	+2.0	+29.3	46.9	+1.7	+10.7	75.4	+ .3	+17.5
Wirework.....	204.9	-1.5	+7.5	277.1	+1.8	+22.5	32.63	+3.4	+14.0	42.0	+1.8	- .9	77.9	+1.6	+14.7

See footnotes at end of table.

TABLE 4.—*Employment, Pay Rolls, Hours, and Earnings in Manufacturing and Nonmanufacturing Industries, October 1941—Continued*

MANUFACTURING—Continued

Industry	Employment			Pay rolls			Average weekly earnings ¹			Average hours worked per week ¹			Average hourly earnings ¹		
	Index Oct. 1941	Percentage change from—		Index Oct. 1941	Percentage change from—		Oct. 1941	Percentage change from—		Oct. 1941	Percentage change from—		Oct. 1941	Percentage change from—	
		Sept. 1941	Oct. 1940		Sept. 1941	Oct. 1940		Sept. 1941	Oct. 1940		Sept. 1941	Oct. 1940		Sept. 1941	Oct. 1940
<i>Durable goods—Continued</i>															
Machinery, not including transportation equipment.	180.1	+0.8	+41.5	255.6	+3.0	+75.8	\$33.29	+2.1	+24.3	45.4	+0.8	+7.4	<i>Cents</i> 86.1	+1.2	+15.1
Agricultural implements (including tractors)	169.9	-.4	+26.0	231.6	+4	+45.8	37.46	+8	+15.6	40.7	+3	+1.5	92.3	+5	+14.1
Cash registers, adding machines, and calculating machines	174.9	+1.3	+32.3	233.1	+1.3	+63.8	41.45	-(9)	+23.8	44.9	-.1	+10.9	92.7	-.1	+11.5
Electrical machinery, apparatus, and supplies	169.0	+1	+45.5	244.9	+1.5	+77.2	37.82	+1.3	+21.8	43.8	+6	+5.3	86.3	+7	+15.5
Engines, turbines, water wheels, and windmills	338.8	+4.5	+76.8	614.3	+7.4	+131.7	47.81	+2.8	+31.0	46.9	+4	+5.1	102.9	+2.4	+24.4
Foundry and machine-shop products	147.8	+6	+38.6	191.7	+3.7	+74.3	38.84	+3.1	+25.9	46.0	+1.4	+9.5	84.3	+1.6	+14.7
Machine tools	361.5	+1.3	+40.2	593.8	+2.7	+68.5	45.47	+1.4	+20.3	51.8	+1.0	+5.8	87.4	+4	+13.6
Radios and phonographs	217.9	+2.5	+32.2	261.8	+2.9	+59.3	29.36	+4	+19.6	41.8	-.6	+4.5	70.3	+1.0	+14.6
Textile machinery and parts	109.2	+6	+37.0	142.3	+8	+80.7	35.92	+2	+31.9	47.0	-.5	+15.9	75.9	+6	+13.8
Typewriters and parts	160.7	+1.6	+26.7	232.8	-.2	+42.7	35.52	-1.8	+12.7	47.0	-1.5	+2.6	75.6	-.3	+9.7
Transportation equipment³ & 6.	202.9	+6.5	+45.4	931.4	+11.6	+72.4	43.61	+4.8	+18.5	43.0	+3.1	+4.1	101.9	+1.6	+13.9
Aircraft ³ & 6	174.8	+7.7	+122.9	12,301.6	+10.4	+165.2	39.21	+2.4	+18.9	45.2	-.8	+1.6	86.9	+2.9	+15.9
Automobiles ⁷	128.8	+3.9	+2.9	176.4	+10.8	+18.2	44.32	+6.7	+14.9	40.7	+5.5	-.6	109.3	+1.2	+15.5
Cars, electric- and steam-railroad	96.8	+1.8	+72.1	115.3	+13.9	+129.0	37.84	+11.9	+33.1	42.8	+9.9	+11.9	88.4	+1.8	+18.4
Locomotives ⁸	74.7	+3.4	+95.5	102.9	+4.5	+152.4	42.12	+1.1	+28.4	45.8	+1.3	+10.5	92.0	-.2	+16.2
Shipbuilding	492.0	+11.9	+149.3	797.7	+13.9	+226.9	47.54	+1.8	+31.1	45.4	+1.0	+9.3	105.4	+1.4	+21.6
Nonferrous metals and their products³	147.4	+8	+18.9	185.1	-(4)	+35.8	34.89	-.9	+18.2	42.7	-1.2	+9	82.2	+2	+15.3
Aluminum manufactures ⁹	242.5	-.3	+15.6	355.0	+(9)	+36.7	36.54	+3	+18.4	42.4	-.3	+1.9	86.1	+6	+16.1
Brass, bronze, and copper products	192.6	-.5	+24.3	264.7	-2.2	+39.3	38.05	-1.8	+12.2	43.0	-2.0	-2.1	88.7	+2	+14.8
Clocks and watches and time-recording devices ³	117.8	+5.8	+12.7	160.6	+7.9	+34.8	30.10	+2.0	+19.7	43.3	+1.2	+3.2	69.6	+8	+16.1
Jewelry	121.0	+7	+9.6	122.4	+8	+25.8	27.03	+1	+14.7	43.1	-1.3	+2.8	63.3	+1.4	+13.3
Lighting equipment ³	126.3	+4.0	+18.2	139.2	-1.4	+44.2	34.29	-5.3	+22.0	42.5	-2.9	+3.3	81.1	-2.5	+18.1
Silverware and plated ware	87.1	+1.6	+13.8	102.9	-.8	+29.5	34.41	-2.3	+13.7	45.7	-1.5	+1.0	75.5	-1.1	+11.8
Smelting and refining—copper, lead, and zinc	101.4	-1.6	+7.1	120.2	+1.7	7	33.24	+3.4	+20.1	39.5	+9	+3.0	84.6	+2.5	+16.6
Lumber and allied products	79.7	-.9	+7.1	92.3	+1.7	+25.2	25.12	+2.6	+18.9	41.5	+1.2	+2.4	59.8	+1.1	+14.1
Furniture	107.4	-.3	+10.9	120.4	+2.0	+31.9	26.55	+2.3	+19.0	42.9	+1.0	+3.3	62.4	+1.1	+15.3
Lumber:															
Millwork	76.8	+5	+10.8	74.9	+2.7	+28.2	26.95	+2.2	+15.6	43.3	+1.1	+2.2	61.8	+1.1	+13.2
Sawmills	69.4	-1.4	+4.3	78.3	+9	+20.1	23.25	+2.3	+14.9	40.2	+1.3	+6	57.8	+1.0	+14.3

Stone, clay, and glass products.....	101.9	+1	+16.5	109.3	+3.7	+31.7	29.41	+3.7	+13.1	39.2	+2.0	+1.2	74.4	+1.3	+11.4
Brick, tile, and terra cotta.....	77.5	-2.0	+19.3	75.7	-6	+37.5	25.76	+1.5	+15.3	39.2	+9	+6	65.6	+3	+15.1
Cement.....	82.0	-2.2	+8.3	92.8	-8	+22.8	32.17	+1.5	+13.3	40.9	+2.0	+2.9	78.2	-5	+10.2
Glass.....	132.3	+1.6	+16.9	173.7	+8.2	+33.8	32.14	+6.6	+14.5	38.8	+3.5	+2.8	83.6	+2.9	+11.5
Marble, granite, slate, and other products...	46.6	+1.6	-2.5	37.4	+1.6	+2	28.18	-(⁹)	+2.7	38.8	+5	+1.1	72.4	-5	+2.1
Pottery.....	124.0	+2.5	+26.5	130.8	+4.8	+40.9	26.93	+2.3	+11.4	38.8	+1.6	+1.2	69.5	+6	+10.8
<i>Nondurable goods</i>															
Textiles and their products.....	114.7	-7	+9.8	122.3	-9	+31.2	21.94	-2	+19.5	37.6	-1.7	+4.4	58.1	+2.2	+14.4
Fabrics.....	106.2	-1	+10.5	120.1	+1.8	+34.2	21.81	+1.9	+21.5	38.8	-7	+3.5	56.6	+2.8	+17.2
Carpets and rugs.....	90.5	-6	+13.6	93.6	-3.2	+28.6	28.58	-2.6	+13.1	39.0	-2.2	+4.2	73.3	-4	+8.6
Cotton goods.....	111.0	+7	+16.8	135.8	+4.3	+50.3	19.76	+3.6	+28.8	39.3	-6	+5.6	50.3	+4.2	+22.0
Cotton smallwares.....	109.2	+1.2	+31.3	128.1	-1	+54.3	22.91	-1.3	+17.5	40.9	-1.5	+4.8	56.3	+2	+12.4
Dyeing and finishing textiles.....	135.1	-7	+5.0	135.9	+2	+22.0	24.53	+9	+16.1	39.2	-2.1	+1.4	61.5	+3.1	+14.0
Hats, fur-felt.....	77.8	-1.7	-2.7	75.1	-6.6	+12.1	26.53	-5.0	+15.3	32.2	-5.9	+3.7	82.8	+2.1	+12.8
Hosiery.....	135.2	-6	-5.3	160.6	+6.3	+1.6	20.87	+7.0	+7.2	36.6	+2.3	+2	57.3	+4.7	+6.6
Knitted outerwear.....	82.8	+4	+10.0	79.8	-1.0	+21.6	19.92	-1.4	+10.6	38.1	-2.0	+2.4	51.4	+5	+8.3
Knitted underwear.....	88.4	+4	+16.3	98.6	+3.0	+36.7	18.88	+2.6	+17.9	39.0	-8	+6.3	48.1	+3.3	+9.8
Knitted cloth.....	151.2	-6.2	-3.9	148.4	-5.2	+8.9	22.61	-1.0	+13.3	39.7	-7	-8	56.4	+2.1	+13.9
Silk and rayon goods.....	61.9	-2.2	-4.2	61.5	+2	+17.4	20.73	+2.4	+22.4	38.4	+1.0	+3.4	53.8	+1.5	+18.7
Woolen and worsted goods.....	109.6	-9	+16.4	126.7	-2.0	+44.6	26.81	-1.1	+24.3	39.0	-2.0	+2.2	68.9	+9	+21.7
Wearing apparel.....	129.1	-1.6	+8.6	119.2	-5.7	+25.7	22.30	-4.2	+15.8	35.4	-3.8	+6.0	61.0	+1.3	+9.7
Clothing, men's.....	123.6	-(⁹)	+18.5	113.4	-1.1	+46.8	23.43	-1.1	+23.1	35.2	-3.8	+11.1	66.0	+2.3	+10.8
Clothing, women's.....	172.5	-2.8	+6	145.0	-10.6	+10.5	22.44	-8.0	+10.0	34.9	-4.9	+2.5	61.0	-1.1	+7.1
Corsets and allied garments.....	111.5	-9.0	-1.0	142.9	-5.3	+15.0	21.29	+4.0	+16.2	38.8	+4	+2.4	53.6	+2.5	+12.0
Men's furnishings.....	133.6	+1.6	+5.1	166.8	+6.6	+25.4	18.65	+5.0	+19.5	37.9	+1.6	+3.0	48.1	+4.0	+14.8
Millinery.....	77.2	-9.5	+1.4	59.6	-29.2	+7.7	23.57	-21.8	+6.1	29.1	-16.1	-5.0	75.0	+1.5	+16.3
Shirts and collars.....	137.1	+5	+12.4	156.5	+6.7	+36.6	18.15	+6.1	+21.5	38.0	-2	+5.1	48.1	+6.0	+15.3
Leather and its manufactures.....	98.4	-5	+9.3	100.5	-1.1	+36.9	23.60	-6	+25.1	37.8	-5	+10.2	63.2	+2	+14.8
Boots and shoes.....	94.7	-5	+7.2	93.3	-2.0	+35.0	22.07	-1.5	+26.1	37.1	-9	+11.3	60.2	-1	+14.4
Leather.....	96.6	-3	+18.4	116.4	+1.9	+42.7	30.44	+2.3	+20.4	40.5	+9	+5.2	74.9	+1.1	+14.4
Food and kindred products.....	152.4	-6.3	+7.9	162.9	-4.2	+21.4	27.14	+2.3	+12.5	40.9	-1.7	+2.5	67.9	+3.4	+11.4
Baking.....	154.5	+7	+6.0	157.6	+2	+13.2	28.18	-6	+6.8	41.9	-4	+6	67.5	+1	+6.4
Beverages.....	302.6	-4.0	+11.5	381.3	-5.0	+21.3	36.92	-1.1	+8.8	40.6	-1.1	+5.0	92.2	+3	+3.6
Butter.....	102.4	-3.7	+7.0	96.8	-2.8	+18.4	24.74	+9	+10.6	45.9	-6	+1.9	53.4	+1.5	+8.7
Canning and preserving.....	218.4	-32.1	+8.3	244.4	-31.9	+43.6	21.23	+2	+32.5	39.8	-5.4	+8.1	54.7	+7.1	+23.2
Confectionery.....	106.3	+4.7	+4.2	122.0	+6.3	+18.2	22.16	+1.5	+13.4	40.6	+1.0	+8	54.7	+3	+12.0
Flour.....	80.1	-5	-5	88.3	-4.5	+13.4	29.66	-4.0	+14.0	44.3	-2.4	+6.2	66.1	-1.9	+7.8
Ice cream.....	78.2	-7.3	+5.9	71.1	-7.9	+11.1	30.78	-6	+5.1	44.7	-1.6	+7	68.2	-5	+5.2
Slaughtering and meat packing.....	125.9	+1.8	+14.8	151.0	+3.6	+30.4	31.20	+1.7	+13.5	39.8	+1.1	-1.1	78.7	+7	+14.8
Sugar, beet.....	244.5	+170.3	-8.4	229.1	+140.6	+5.5	24.41	-11.0	+15.3	36.8	+3.4	+2.1	65.3	-15.9	+13.1
Sugar refining, cane.....	103.3	-3	+8.7	93.9	-9.1	+13.3	25.75	-8.8	+4.2	37.7	-9.3	-1.5	68.4	+6	+5.8
Tobacco manufactures.....	67.3	+5.3	+1.2	75.6	+7.4	+13.7	20.36	+1.9	+12.3	38.7	+1.1	+3.5	52.7	+6	+8.9
Chewing and smoking tobacco and snuff.....	54.3	+1.1	-4.1	70.8	+2.1	+4.7	21.14	+9	+9.3	36.7	-1	+2.8	57.9	+9	+6.4
Cigars and cigarettes.....	69.0	+5.9	+2.0	76.0	+7.9	+14.8	20.22	+1.9	+12.4	38.9	+1.2	+3.2	52.2	+6	+9.5
Paper and printing.....	126.5	+1.3	+7.6	135.9	+2.9	+18.0	32.71	+7	+9.6	40.3	+4	+4.2	83.5	+4	+4.8
Boxes, paper.....	146.8	+1.4	+18.3	194.5	+3.5	+37.2	26.58	+2.1	+15.9	42.7	+8	+3.6	62.5	+1.2	+11.8
Paper and pulp.....	128.2	-2	+11.3	165.2	+1.4	+33.5	31.73	+1.5	+19.9	43.4	+1.1	+7.8	73.1	+3	+11.1
Printing and publishing:															
Book and job.....	108.1	+3.1	+5.4	102.6	+3.3	+12.7	33.08	+2	+6.9	39.9	-1	+3.1	83.2	-(⁹)	+3.3
Newspapers and periodicals.....	118.1	+1.0	+4	114.8	+7	+3.0	39.42	-4	+2.5	35.8	0	+3	108.2	+4	+2.7

See footnotes at end of table.

TABLE 4.—*Employment, Pay Rolls, Hours, and Earnings in Manufacturing and Nonmanufacturing Industries, October 1941—Continued*

MANUFACTURING—Continued

Industry	Employment			Pay rolls			Average weekly earnings ¹			Average hours worked per week ¹			Average hourly earnings ¹		
	Index Oct. 1941	Percentage change from—		Index Oct. 1941	Percentage change from—		Oct. 1941	Percentage change from—		Oct. 1941	Percentage change from—		Oct. 1941	Percentage change from—	
		Sept. 1941	Oct. 1940		Sept. 1941	Oct. 1940		Sept. 1941	Oct. 1940		Sept. 1941	Oct. 1940		Sept. 1941	Oct. 1940
<i>Nondurable goods—Continued</i>															
Chemical, petroleum, and coal products.....	148.1	+1.2	+18.1	190.7	+2.1	+38.9	\$34.56	+1.0	+15.9	40.2	+0.7	+2.3	<i>Cents</i> 85.0	+0.6	+13.3
Petroleum refining.....	129.2	+5	+6.6	168.0	+1.0	+23.4	40.40	+5	+15.8	36.9	-7	+1.9	109.6	+1.2	+13.8
Other than petroleum refining.....	152.7	+1.3	+20.7	197.7	+2.5	+41.0	32.64	+1.3	+19.9	41.1	+1.0	+2.1	77.9	+5	+14.3
Chemicals ²	182.5	+3	+25.3	249.4	-3	+41.5	36.34	-7	+12.9	41.0	+6	+9	88.6	-1.2	+12.0
Cottonseed—oil, cake, and meal.....	136.0	+18.0	-9	146.5	+26.9	+8.0	17.32	+7.5	+8.8	46.6	+4.2	+1.4	35.9	+1.4	+8.6
Druggists' preparations.....	145.6	+1.9	+23.1	183.4	+4.2	+37.6	28.08	+2.2	+11.6	41.9	+2.3	+4.8	63.9	+1.5	+6.8
Explosives.....	(11)	(11)	(11)	(11)	(11)	(11)	40.24	+3.2	+18.0	43.3	+5	+8.1	93.0	+2.7	+9.2
Fertilizers.....	103.6	-6.0	+7.2	102.7	-7.9	+24.7	18.45	-2.6	+16.5	36.8	+5	+2.4	50.1	-3.1	+13.7
Paints and varnishes.....	144.0	+ (4)	+15.1	173.7	+2.2	+27.9	33.27	+2.2	+11.2	41.2	-1	+2	80.9	+2.5	+11.3
Rayon and allied products.....	325.0	-6	+4.5	386.4	+3.2	+19.8	30.42	+3.9	+14.6	39.4	+3	+1.6	77.3	+3.6	+12.8
Soap.....	97.7	-5	+10.1	142.2	+1.8	+32.7	34.28	+2.3	+20.6	41.2	+2	+3.1	83.2	+2.2	+17.0
Rubber products.....	111.8	+3	+20.7	138.3	+3.1	+39.0	33.56	+2.7	+15.1	39.1	+1.5	+3.1	86.5	+9	+12.4
Rubber boots and shoes.....	80.4	+4.1	+37.0	108.9	+2.7	+70.0	30.58	-1.4	+24.1	41.8	-2.0	+6.0	73.0	+6	+17.1
Rubber tires and inner tubes.....	86.2	-3	+16.6	112.3	+4.7	+29.7	38.03	+5.0	+11.2	35.8	+3.7	+1.0	105.8	+1.2	+9.6
Rubber goods, other.....	192.4	-4	+19.8	234.0	+1.1	+44.4	29.52	+1.5	+20.4	41.6	+6	+3.6	71.2	+8	+15.7

NONMANUFACTURING

[Indexes are based on 12-month average, 1929=100 except for class I Railroads, which are based on 1935-39 as 100]

Coal mining:																			
Anthracite ^{18 19}	50.3	+0.6	+1.8	49.2	-0.9	+52.2	\$32.12	-1.5	+49.5	31.9	-4.6	+39.9	100.6	+2.4	+8.7				
Bituminous ¹⁸	95.0	-1.9	+6.5	122.6	+6.2	+46.7	34.48	+5.3	+37.8	32.7	+4.0	+17.2	104.8	+1.0	+16.5				
Metalliciferous mining ¹⁴	79.4	+(5)	+9.4	88.4	+3.0	+24.0	35.05	+3.0	+13.4	42.7	+2.5	+4	82.4	+4	+12.9				
Quarrying and nonmetallic mining	53.8	-8	+10.1	60.8	+4	+30.3	28.12	+1.2	+18.3	43.9	+1	+3.4	64.0	+1.1	+14.2				
Crude-petroleum production ¹⁶	61.3	-9	-1.9	63.0	-2.2	+9.3	37.78	-1.3	+11.4	37.8	-1.7	-8	96.8	+5	+10.5				
Public utilities:																			
Telephone and telegraph ^{16 17}	90.6	+3	+14.6	117.6	+3	+15.1	31.75	0	+4	40.0	-8	+1.2	79.9	+8	-8				
Electric light and power ^{16 17}	93.9	-1.1	+1.7	116.0	+9	+8.4	37.56	+2.1	+6.6	40.7	+1.8	+1.0	92.6	+1	+5.6				
Street railways and busses ^{16 17 18}	70.1	-3	+2.0	78.1	+1	+10.5	36.33	+4	+8.3	46.5	+3	+2.2	76.9	-3	+6.1				
Trade:																			
Wholesale ^{16 19}	96.6	+1.0	+6.1	92.0	+1.2	+14.7	33.36	+3	+8.1	41.4	+8	+3	80.9	-3	+8.0				
Retail ^{16 17}	100.9	+9	+7.0	97.5	+1.8	+13.6	22.17	+8	+6.2	42.3	-3	-1.1	57.2	+7	+6.4				
Food ¹⁷	110.6	+8	+6.6	107.2	+1.3	+11.9	24.88	+5	+5.0	42.2	-8	-3.3	56.5	+9	+7.7				
General merchandising ^{16 17}	115.6	+3.5	+11.7	110.3	+3.5	+19.5	18.84	0	+7.0	38.4	-1.2	-2	48.5	+1.3	+5.9				
Apparel ¹⁷	96.7	+1.9	+5.8	92.5	+2.4	+12.5	22.25	+5	+6.5	37.9	+3	+5	58.8	+2	+6.1				
Furniture ¹⁷	81.0	+1.9	+4.1	85.0	+9.1	+21.3	31.72	+7.0	+16.4	44.4	+2	-3	72.6	+6	+5.2				
Automotive ¹⁷	87.5	-2.5	+2.9	86.2	-1	+8.2	29.50	+2.4	+5.0	47.2	+9	-5	63.1	+1.4	+5.9				
Lumber ¹⁷	82.9	-6	+4.4	87.1	0	+14.6	29.00	+7	+9.8	43.1	+3	-1	68.5	+4	+10.2				
Hotels (year-round) ^{12 15 20}	95.6	-1	+2.3	92.0	+2.3	+9.3	16.66	+2.4	+6.8	46.2	+1.8	+4	35.9	+1.1	+6.6				
Laundries ¹²	110.9	-1.8	+10.7	103.2	-2.0	+17.2	19.31	-1	+5.9	42.9	-8	+4	45.2	+5	+5.8				
Dyeing and cleaning ¹²	121.0	-4	+10.6	98.4	-1.2	+19.3	22.51	-8	+7.9	44.0	-1.4	+2.1	52.4	+1.1	+6.0				
Brokerage ^{16 21}	(11)	-4	-7.9	(11)	+9	-1.8	40.29	+1.3	+6.7	(11)	(11)	(11)	(11)	(11)	(11)				
Insurance ¹⁶	(11)	-1	+1.8	(11)	+1.0	+5.6	37.69	+1.2	+3.7	(11)	(11)	(11)	(11)	(11)	(11)				
Building construction	(11)	-1.3	+4.7	(11)	-2.8	+13.1	36.50	-1.4	+8.0	35.7	-1.8	+6	102.3	+4	+7.3				
Water transportation ²²	77.6	-1.1	-3.0	(11)	(11)	(11)	(11)	(11)	(11)	(11)	(11)	(11)	(11)	(11)	(11)				
Class I steam railroads ²³	119.3	+5	+13.5	(11)	(11)	(11)	(11)	(11)	(11)	(11)	(11)	(11)	(11)	(11)	(11)				

¹ Mimeographed sheets giving averages by years, 1932 to 1939, inclusive, and by months, January 1938 to August 1940, inclusive, available on request. Average hours and average hourly earnings are computed from data supplied by a smaller number of establishments than average weekly earnings, as not all reporting firms furnish man-hours. The figures are not strictly comparable from month to month because of changes in the size and composition of the reporting sample.

² See tables 9, 10, and 11 in the December 1940 issue of "Employment and Pay Rolls" for comparable series back to January 1919 for all manufacturing and back to January 1923 for the durable and nondurable-goods groups.

³ Revisions in the following industries and groups have been made as indicated:

All manufacturing.—July 1941 employment index to 130.6.

Durable-goods group.—July 1941 employment and pay-roll indexes to 137.6 and 172.2, respectively.

Nondurable-goods group.—July 1941 pay-roll index to 130.7.

Hardware.—July 1941 pay-roll index, average hourly earnings, and average weekly earnings to 123.8, 71.0 cents, and \$29.20, respectively.

Transportation group.—April, May, June, and July 1941 employment indexes to 166.3, 171.7, 177.8, and 179.0; pay-roll indexes to 191.6, 217.0, 240.0, and 228.8.

Aircraft.—June and July 1941 employment indexes to 6,718.1 and 7,231.3; pay-roll indexes to 8,193.5 and 9,045.7; average hours to 45.0 and 44.8; July hourly and weekly earnings to 81.2 cents and \$36.57.

Nonferrous group.—July 1941 employment and pay-roll indexes to 143.1 and 173.7.

Clocks and watches, and time-recording devices.—May 1941 average hours and average hourly earnings to 42.3 hours and 64.6 cents; June hourly and weekly earnings to 66.0 cents and \$27.94; July employment index, pay-roll index, and weekly earnings to 118.2, 138.3, and \$25.85.

Lighting equipment.—April, May, June, and July 1941 employment indexes to 113.2, 111.6, 113.0, and 111.4; pay-roll indexes to 106.0, 110.4, 116.3, and 113.2; average hourly earnings to 72.8, 74.8, 77.8, and 77.6 cents; average weekly earnings to \$29.01, \$30.62, \$31.86, and \$31.43; May, June, and July average hours to 41.0, 41.0, and 40.5 hours.

Hosiery.—July 1941 average hours and average weekly earnings to 36.0 hours and \$19.78.

Food group.—July 1941 average hours to 40.9; average hourly earnings to 66.2 cents.

Chemicals.—June 1941 employment index, pay-roll index, average hours, average hourly earnings, and average weekly earnings to 172.2; 232.7; 41.6 hours, 86.6 cents, and \$36.04; July employment index to 175.9.

(Footnotes continued on p. 18)

⁴ See table 7 in the April 1941 issue of "Employment and Pay Rolls" for revised figures from January 1940 to March 1941.

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

⁶ Adjusted on basis of a complete employment survey of the aircraft industry made by the Bureau of Labor Statistics for August 1940. Not comparable with previously published indexes from January 1939 to August 1940, inclusive. Comparable figures for this period given in table 9 of the September 1940 issue of "Employment and Pay Rolls."

⁷ The indexes for "Automobiles" have been adjusted to 1933 census figures, but not to later census figures because of problems involving integrated industries.

⁸ *Locomotives*.—Indexes, hours and earnings revised as follows:

Year and month	Indexes		Average hours worked per week	Average hourly earnings	Average weekly earnings
	Employ- ment	Pay rolls			
1940					
August.....	32.6	32.7	38.7	79.2	\$30.62
September.....	34.5	37.2	41.3	79.9	32.98
October.....	38.0	40.8	41.4	79.2	32.79
November.....	40.6	43.1	40.2	80.6	32.43
December.....	43.4	48.2	41.9	81.1	34.00
1941					
January.....	46.1	52.5	42.8	81.4	34.79
February.....	49.2	57.5	43.6	82.0	35.72
March.....	51.6	60.7	43.7	82.2	35.91
April.....	55.1	67.8	44.4	84.6	37.59
May.....	59.4	75.9	43.9	89.1	39.08
June.....	61.8	84.1	45.8	90.9	41.62
July.....	67.8	92.5	45.3	92.0	41.70

⁹ See table 8 in March 1941 "Employment and Pay Rolls" pamphlet for revised figures from January 1935 to February 1941.

¹⁰ *Knitted cloth*.—June and July 1941 hourly earnings revised to 53.4 and 54.5 cents. Because of change in composition of the reporting sample, these figures not comparable with those previously published. Comparable May 1941 figures, 53.7 cents.

¹¹ Not available.

¹² Indexes adjusted to 1935 census. Comparable series back to January 1929 presented in January 1938 issue of pamphlet.

¹³ See table 7 of October 1940 "Employment and Pay Rolls" for revised employment and pay-roll indexes, average hours worked per week, average hourly earnings, and average weekly earnings in anthracite mining, February 1940 to September 1940, inclusive.

¹⁴ See table 7 of February 1941 pamphlet for revised figures for metalliferous mining from January 1938 to January 1941, inclusive.

¹⁵ Does not include well drilling or rig building.

¹⁶ 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.

¹⁷ Retail-trade indexes adjusted to 1935 census and public-utility indexes to 1937 census. Not comparable to indexes published in pamphlets prior to January 1940 or in Monthly Labor Reviews prior to April 1940, with but one exception, retail furniture, which has been revised since publication of July 1940 pamphlet back to January 1936. Comparable series for earlier months available upon request.

¹⁸ Covers street-railways and trolley and motorbus operations of subsidiary, affiliated, and successor companies; formerly "electric-railroad and motorbus operation and maintenance."

¹⁹ Indexes adjusted to 1933 census. Comparable series in November 1934 and subsequent issues of "Employment and Pay Rolls."

²⁰ Cash payments only; additional value of board, room, and tips not included.

²¹ See note 18 in table 10 in the July 1941 issue of "Employment and Pay Rolls" for revised average weekly earnings in the brokerage industry from January 1939 to January 1941.

²² Based on estimates prepared by the U. S. Maritime Commission covering employment on steam and motor merchant vessels of 1,000 gross tons or over in deep-sea trades only.

²³ Preliminary—Source: Interstate Commerce Commission.

TABLE 5.—*Employment, Pay Rolls, Hours, and Earnings in Manufacturing and Nonmanufacturing Industries*

MANUFACTURING

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

Industry	Employment index			Pay-roll index			Average weekly earnings ¹			Average hours worked per week ¹			Average hourly earnings ¹		
	October 1941	September 1941	August 1941	October 1941	September 1941	August 1941	October 1941	September 1941	August 1941	October 1941	September 1941	August 1941	October 1941	September 1941	August 1941
All manufacturing ^{2 3}	135.3	135.2	133.1	186.6	182.6	158.1	\$32.89	\$32.05	\$31.66	41.1	40.9	41.0	Cents 77.0	Cents 75.8	Cents 74.5
Durable goods ^{2 3}	144.0	142.1	138.7	191.1	183.2	177.6	37.97	36.79	36.55	42.9	42.3	42.6	85.3	84.3	83.0
Nondurable goods ^{2 3}	127.1	128.7	127.7	139.2	139.5	136.3	26.10	25.78	25.38	39.1	39.5	39.4	68.0	68.8	65.8
<i>Durable goods</i>															
Iron and steel and their products, not including machinery	139.5	140.5	139.9	173.0	170.5	172.0	36.36	35.69	35.07	41.5	40.7	41.4	87.7	87.5	87.1
Blast furnaces, steel works, and rolling mills	147.9	148.9	149.1	181.0	178.4	183.3	38.65	37.81	38.81	39.9	38.9	40.1	96.9	97.1	96.8
Bolts, nuts, washers, and rivets	169.8	170.6	171.3	255.7	246.3	257.3	35.90	34.51	36.02	44.3	42.9	45.0	81.6	80.5	80.0
Cast-iron pipe	98.0	97.8	96.1	119.1	115.8	111.8	29.16	28.42	27.91	41.3	41.4	41.1	70.0	68.3	67.6
Cutlery (not including silver and plated cutlery) and edge tools	131.7	127.8	127.4	154.3	149.5	147.5	30.80	30.76	30.38	44.0	44.3	44.0	70.7	70.2	70.2
Forgings, iron and steel	113.8	112.9	110.6	180.0	173.4	169.8	42.91	41.75	41.58	46.2	45.2	45.9	93.3	92.6	90.8
Hardware ³	115.2	116.0	113.2	151.5	148.7	145.7	32.29	31.35	31.42	43.1	42.1	42.7	74.9	74.4	73.6
Plumbers' supplies ⁴	99.5	99.4	102.6	114.7	106.3	107.1	33.38	31.04	30.21	42.0	40.5	40.1	79.4	76.6	75.3
Stamped and enameled ware	227.2	227.9	224.5	296.2	290.5	286.0	30.48	29.81	29.82	41.7	41.3	41.5	73.2	72.4	71.9
Steam and hot-water heating apparatus and steam fittings	128.4	127.4	125.2	157.7	154.9	147.7	37.00	36.64	35.51	44.9	44.8	44.0	82.6	82.0	81.1
Stoves	115.7	116.2	117.2	130.6	127.9	127.4	31.64	30.97	30.48	42.0	41.4	41.5	76.0	74.9	73.7
Structural and ornamental metalwork	109.5	109.3	110.0	126.9	123.2	124.9	37.90	36.57	36.82	44.2	43.3	44.2	85.2	84.6	83.5
Tin cans and other tinware	130.1	145.0	145.3	156.6	187.6	184.7	26.95	28.92	28.42	41.9	42.5	42.9	64.3	68.3	66.9
Tools (not including edge tools, machine tools, files, and saws)	145.5	144.4	142.6	202.0	196.6	190.1	35.50	34.80	34.03	46.9	46.3	46.5	75.4	75.2	73.5
Wirework	204.9	208.0	189.8	277.1	272.2	247.9	32.63	31.70	31.68	42.0	41.3	42.0	77.9	76.8	75.5

See footnotes at end of table.

TABLE 5.—Employment, Pay Rolls, Hours, and Earnings in Manufacturing and Nonmanufacturing Industries—Continued

MANUFACTURING—Continued

Industry	Employment index			Pay-roll index			Average weekly earnings ¹			Average hours worked per week ¹			Average hourly earnings ¹		
	October 1941	September 1941	August 1941	October 1941	September 1941	August 1941	October 1941	September 1941	August 1941	October 1941	September 1941	August 1941	October 1941	September 1941	August 1941
<i>Durable goods—Continued</i>															
Machinery, not including transportation equipment.	180.1	178.6	176.5	255.6	248.2	243.4	\$39.29	\$38.48	\$38.19	45.4	45.1	45.1	<i>Cents</i> 86.1	<i>Cents</i> 85.0	<i>Cents</i> 84.4
Agricultural implements (including tractors)...	169.9	170.7	172.0	231.6	230.7	227.5	37.46	37.12	36.31	40.7	40.5	40.1	92.3	92.0	90.7
Cash registers, adding machines, and calculating machines.....	174.9	172.6	170.3	233.1	230.2	223.1	41.45	41.47	40.76	44.9	45.0	44.6	92.7	92.8	91.8
Electrical machinery, apparatus, and supplies	169.0	168.7	167.4	244.9	241.4	240.0	37.82	37.28	37.44	43.8	43.5	43.9	86.3	85.7	85.3
Engines, turbines, water wheels, and windmills.....	338.8	324.3	314.1	614.3	571.8	545.1	47.81	46.62	46.02	46.9	46.5	46.2	102.9	100.5	99.7
Foundry and machine-shop products.....	147.8	147.0	145.6	194.7	187.8	186.0	38.84	37.77	37.72	46.0	45.4	45.6	84.3	82.9	82.6
Machine tools.....	361.5	356.8	351.5	593.8	578.2	553.4	45.47	44.74	43.53	51.8	51.4	51.2	87.4	87.0	85.0
Radios and phonographs.....	217.9	212.5	202.4	261.8	254.4	234.0	29.36	29.25	28.32	41.8	42.1	41.3	70.3	69.7	68.7
Textile machinery and parts.....	109.2	108.5	108.4	142.3	141.1	135.8	35.92	35.84	34.49	47.0	47.6	46.6	75.9	75.4	74.4
Typewriters and parts.....	160.7	158.2	155.7	232.8	233.4	222.3	35.52	36.16	35.01	47.0	47.7	46.4	75.6	75.8	75.4
Transportation equipment ².....	202.9	190.6	172.0	281.4	252.1	224.4	43.61	41.65	41.23	43.0	41.7	41.8	101.9	100.3	98.8
Aircraft ³	9,174.8	8,515.7	7,897.3	12,301.6	11,145.8	10,303.0	39.21	38.19	38.08	45.2	45.6	45.6	86.9	84.5	84.5
Automobiles ⁴	128.8	124.0	110.9	176.4	159.1	139.2	44.32	41.73	41.09	40.7	38.7	39.0	109.3	108.0	105.5
Cars, electric- and steam-railroad.....	96.8	95.1	89.2	115.3	101.2	93.7	37.84	33.80	33.29	42.8	38.9	39.4	88.4	86.8	84.4
Locomotives ⁵	74.7	72.2	70.2	102.9	98.5	93.4	42.12	41.68	40.71	45.8	45.2	44.7	92.0	92.3	91.1
Shipbuilding.....	492.0	439.6	388.3	797.7	700.1	614.6	47.54	46.69	46.47	45.4	44.9	44.4	105.4	104.0	103.9
Nonferrous metals and their products ³.....	147.4	146.5	145.5	185.1	185.8	182.6	34.89	35.24	34.88	42.7	43.1	43.0	82.2	82.1	80.8
Aluminum manufactures ⁶	242.5	243.1	240.9	355.0	354.8	345.8	36.54	36.27	35.67	42.4	42.4	42.6	86.1	85.5	83.7
Brass, bronze, and copper products.....	192.6	193.5	192.9	264.7	270.8	273.6	38.05	38.65	39.17	43.0	43.8	44.4	88.7	88.7	88.7
Clocks and watches and time-recording devices ⁷	117.8	111.3	118.0	160.6	148.8	156.4	30.10	29.54	29.30	43.3	42.7	43.0	69.6	69.2	68.2
Jewelry.....	121.0	120.1	118.0	122.4	121.4	113.3	27.03	27.04	25.76	43.1	43.6	42.4	63.3	62.5	60.5
Lighting equipment ⁸	126.3	121.4	111.8	139.2	141.2	118.7	34.29	36.20	32.85	42.5	43.5	41.9	81.1	83.2	78.4
Silverware and plated ware.....	87.1	85.8	84.8	102.9	103.7	94.4	34.41	35.10	32.33	45.7	46.4	44.1	75.5	76.3	74.1
Smelting and refining—copper, lead, and zinc.....	101.4	103.0	103.5	120.2	118.2	118.4	33.24	32.32	32.29	39.5	39.1	39.5	84.6	82.6	81.7
Lumber and allied products.....	79.7	80.4	81.0	92.3	90.8	92.3	25.12	24.47	24.68	41.5	41.1	41.8	59.8	59.0	58.8
Furniture.....	107.4	107.6	108.4	120.4	118.0	116.1	26.55	26.03	25.49	42.9	42.3	42.2	62.4	61.7	60.8
Lumber:															
Millwork.....	76.8	76.4	78.0	74.9	72.9	74.8	26.95	26.17	26.44	43.3	42.8	43.3	61.8	61.1	61.0
Sawmills.....	69.4	70.4	70.7	78.3	77.5	80.3	23.26	22.72	23.49	40.2	39.7	41.0	57.8	57.2	57.3

Stone, clay, and glass products	101.9	101.8	101.3	109.3	105.4	104.2	29.41	28.27	27.98	39.2	38.2	38.5	74.4	73.6	72.1
Brick, tile, and terra cotta.....	77.5	79.1	79.4	75.7	76.2	77.0	25.76	25.27	25.30	39.2	38.7	38.8	65.6	65.3	64.8
Cement.....	82.0	83.8	83.5	92.8	93.5	93.9	32.17	31.60	31.82	40.9	40.2	40.7	78.2	78.6	78.2
Glass.....	132.3	130.3	130.0	173.7	160.5	155.4	32.14	30.19	29.28	38.8	37.3	37.6	83.6	81.2	78.2
Marble, granite, slate, and other products.....	46.6	45.9	44.6	37.4	36.8	36.1	28.18	28.06	28.30	38.8	38.5	38.8	72.4	73.1	73.1
Pottery.....	124.0	121.0	119.4	130.8	124.8	124.1	26.93	26.09	26.22	38.8	37.9	38.3	69.5	69.1	68.7
<i>Nondurable goods</i>															
Textiles and their products	114.7	115.5	115.4	122.3	123.4	119.3	21.94	21.73	21.04	37.6	38.3	38.1	58.1	56.9	55.4
Fabrics.....	106.2	106.3	106.9	120.1	118.0	114.4	21.81	21.38	20.63	38.8	39.1	38.9	56.6	55.1	53.3
Carpets and rugs.....	90.5	91.0	90.5	93.6	96.6	93.4	28.58	29.33	28.53	39.0	39.9	39.7	73.3	73.6	72.1
Cotton goods.....	111.0	110.2	109.9	135.8	130.2	126.2	19.76	19.12	18.58	39.3	39.6	39.4	50.3	48.3	47.2
Cotton smallwares.....	109.2	107.9	106.4	128.1	128.2	123.3	22.91	23.15	22.59	40.9	41.5	41.2	56.3	56.1	54.9
Dyeing and finishing textiles.....	135.1	136.0	136.3	135.9	135.7	132.5	24.53	24.14	23.57	39.2	40.0	40.1	61.5	59.7	58.2
Hats, fur-felt.....	77.8	79.2	82.0	75.1	80.4	90.5	26.53	27.87	30.38	32.2	34.4	37.0	82.8	81.0	83.1
Hosiery.....	135.2	136.1	141.5	160.6	151.1	153.9	20.87	19.50	19.14	36.6	35.6	35.7	57.3	54.9	53.8
Knitted outerwear.....	82.8	82.5	81.3	79.8	80.6	77.3	19.92	20.22	19.70	38.1	38.9	38.6	51.4	51.1	50.3
Knitted underwear.....	88.4	88.0	86.4	98.6	95.7	90.8	18.82	18.32	17.75	39.0	39.2	38.5	48.1	46.3	45.8
Knitted cloth.....	151.2	161.1	161.4	148.4	156.6	157.3	22.61	22.31	22.31	39.7	39.9	40.1	56.4	55.1	55.1
Silk and rayon goods.....	61.9	63.2	67.9	61.5	61.5	63.7	20.73	20.16	19.37	38.4	38.0	37.8	53.8	52.9	50.8
Woolen and worsted goods.....	109.6	110.5	108.9	126.7	129.2	118.5	26.81	27.13	25.21	39.0	39.7	39.6	68.9	68.5	63.6
Wearing apparel	129.1	131.2	129.6	119.2	126.4	121.7	22.30	22.70	22.18	35.4	36.7	36.4	61.0	60.2	59.6
Clothing, men's.....	123.6	123.6	123.3	113.4	114.7	114.0	23.43	23.64	23.68	35.2	36.5	36.3	66.0	64.5	64.7
Clothing, women's.....	172.5	177.5	175.7	145.0	162.1	154.3	22.44	24.39	23.45	34.9	36.5	36.0	61.0	61.7	60.8
Corsets and allied garments.....	111.5	122.5	119.1	142.9	150.9	139.4	21.29	20.47	19.49	38.8	38.8	37.4	53.6	52.3	51.6
Men's furnishings.....	133.6	131.5	128.1	166.8	156.5	144.4	18.65	17.75	16.77	37.9	37.4	36.4	48.1	46.0	44.8
Millinery.....	77.2	85.3	79.8	59.6	84.2	74.5	23.57	30.14	28.54	29.1	34.7	33.6	75.0	73.8	74.0
Shirts and collars.....	137.1	136.4	133.6	156.5	146.7	140.6	18.15	17.10	16.69	38.0	37.8	37.4	48.1	45.4	44.8
Leather and its manufactures	98.4	98.9	101.1	100.5	101.6	104.7	23.60	23.71	23.97	37.8	38.0	39.2	63.2	63.0	61.5
Boots and shoes.....	94.7	95.2	98.3	93.3	95.3	100.7	22.07	22.35	22.90	37.1	37.4	38.8	60.2	60.1	59.0
Leather.....	96.6	97.0	94.8	116.4	114.2	109.0	30.44	29.51	28.86	40.5	40.0	40.7	74.9	74.0	71.4
Food and kindred products	152.4	162.7	159.3	162.9	170.1	165.5	27.14	28.56	28.33	40.9	41.6	41.0	67.9	65.7	65.8
Baking.....	154.5	153.5	152.7	157.6	157.4	155.2	28.18	28.32	28.06	41.9	42.0	41.8	67.5	67.4	67.2
Beverages.....	302.6	315.1	328.1	381.3	401.5	429.7	36.92	37.40	38.49	40.6	41.1	42.4	92.2	91.9	91.5
Butter.....	102.4	106.4	111.1	96.8	99.6	105.1	24.74	24.39	24.77	45.9	46.2	47.5	53.4	52.5	51.7
Canning and preserving.....	218.4	321.6	304.4	244.4	359.1	324.7	21.23	21.21	20.27	39.8	42.2	39.8	54.7	51.1	52.0
Confectionery.....	106.3	101.5	91.1	122.0	114.8	100.6	22.16	21.81	21.39	40.6	40.2	38.6	54.7	54.5	55.5
Flour.....	80.1	80.6	78.1	88.3	92.5	80.9	29.66	30.86	28.07	44.3	45.5	42.9	66.1	67.2	64.4
Ice cream.....	78.2	84.3	94.8	71.1	77.2	84.2	30.78	30.98	29.99	44.7	45.3	46.8	68.2	68.4	64.0
Slaughtering and meat packing.....	125.9	123.6	122.4	151.0	145.8	142.9	31.20	30.63	30.31	39.8	39.4	39.6	78.7	78.0	76.6
Sugar, beet.....	244.5	90.5	63.6	229.1	95.2	67.8	24.41	27.41	27.64	36.8	35.7	36.4	65.3	77.4	77.4
Sugar refining, cane.....	103.3	103.7	95.4	93.9	103.3	100.3	25.75	28.22	29.77	37.7	41.5	44.0	68.4	68.0	67.7
Tobacco manufactures	67.3	63.9	65.8	75.6	70.4	70.0	20.36	20.00	19.37	38.7	38.3	37.2	52.7	52.5	52.0
Chewing and smoking tobacco and snuff.....	54.3	53.6	52.3	70.8	69.3	68.2	21.14	20.87	21.08	36.7	36.6	36.6	57.9	57.4	57.8
Cigars and cigarettes.....	69.0	65.2	67.5	76.0	70.4	70.1	20.22	19.84	19.06	38.9	38.4	37.3	52.2	51.9	51.4

See footnotes at end of table.

TABLE 5.—*Employment, Pay Rolls, Hours, and Earnings in Manufacturing and Nonmanufacturing Industries—Continued*

MANUFACTURING—Continued

Industry	Employment index			Pay-roll index			Average weekly earnings ¹			Average hours worked per week ¹			Average hourly earnings ¹		
	October 1941	September 1941	August 1941	October 1941	September 1941	August 1941	October 1941	September 1941	August 1941	October 1941	September 1941	August 1941	October 1941	September 1941	August 1941
<i>Nondurable goods—Continued</i>													<i>Cents</i>	<i>Cents</i>	<i>Cents</i>
Paper and printing.....	128.5	124.9	123.9	135.9	133.3	130.9	\$32.71	\$32.34	\$32.04	40.3	40.1	40.1	83.5	83.0	82.4
Boxes, paper.....	146.8	144.7	142.0	194.5	187.9	181.9	26.58	26.06	25.72	42.7	42.3	41.9	62.5	62.0	61.8
Paper and pulp.....	128.2	128.4	127.8	165.2	163.0	162.7	31.73	31.17	31.18	43.4	42.9	43.1	73.1	72.8	72.5
Printing and publishing:															
Book and job.....	108.1	104.8	105.5	102.6	99.3	98.5	33.08	32.82	32.23	39.9	39.9	39.9	83.2	82.9	81.6
Newspapers and periodicals.....	118.1	116.9	114.7	114.8	114.0	109.8	39.42	39.63	38.88	35.8	35.9	35.7	108.2	107.6	107.0
Chemical, petroleum, and coal products.....	148.1	146.4	141.9	190.7	188.7	179.8	34.56	34.15	33.78	40.2	39.9	40.0	85.0	84.5	83.7
Petroleum refining.....	129.2	128.5	127.9	168.0	166.4	159.1	40.40	40.14	38.57	36.9	37.2	38.0	109.6	108.3	102.5
Other than petroleum refining.....	152.7	150.8	145.3	197.7	192.9	186.2	32.64	32.17	32.16	41.1	40.7	40.6	77.9	77.6	78.0
Chemicals ²	182.5	181.9	180.1	249.4	250.1	247.2	36.34	36.57	36.57	41.0	40.8	41.3	88.6	89.6	88.5
Cottonseed—oil, cake, and meal.....	136.0	115.2	70.9	146.5	115.4	65.1	17.32	16.05	14.82	46.6	44.7	38.7	35.9	35.6	37.1
Druggists' preparations.....	145.6	142.9	135.7	183.4	176.1	165.0	28.08	27.44	27.03	41.9	41.0	43.0	63.9	63.0	63.8
Explosives.....	(10)	(10)	(10)	(10)	(10)	(10)	40.24	38.89	38.46	43.3	43.0	43.0	93.0	90.4	89.4
Fertilizers.....	103.6	110.2	89.6	102.7	111.6	90.8	18.45	18.77	18.67	36.8	36.5	36.1	50.1	51.4	61.7
Paints and varnishes.....	144.0	143.9	144.8	173.7	169.9	171.5	33.27	32.56	32.65	41.2	41.3	41.7	80.9	78.9	78.4
Rayon and allied products.....	325.0	327.0	329.3	386.4	374.3	368.2	30.42	29.29	28.60	39.4	39.2	39.3	77.3	74.6	72.8
Soap.....	97.7	98.2	97.4	142.2	139.6	135.1	34.28	33.50	32.66	41.2	41.1	41.3	83.2	81.5	79.0
Rubber products.....	111.8	111.5	111.8	138.3	134.2	138.8	33.56	32.86	33.78	39.1	38.5	39.4	86.5	85.9	86.1
Rubber boots and shoes.....	80.4	77.2	79.4	106.9	104.1	102.2	30.58	31.00	29.60	41.8	42.7	41.4	73.0	72.6	71.5
Rubber tires and inner tubes.....	86.2	86.5	86.7	112.3	107.3	116.4	38.08	36.19	39.17	35.8	34.7	37.0	105.8	104.6	106.2
Rubber goods other.....	192.4	193.2	192.9	234.0	231.6	228.3	29.52	29.00	28.76	41.6	41.2	41.3	71.2	70.9	70.0

NONMANUFACTURING

[Indexes are based on 12-month average, 1929=100 except for class I railroads, which are based on 1935-39 as 100]

[illegible]

¹ Mimeographed sheets giving averages by years, 1932 to 1939, inclusive, and by months, January 1938 to August 1940, inclusive, available on request. Average hours and average hourly earnings are computed from data supplied by a smaller number of establishments than average weekly earnings, as not all reporting firms furnish man-hours. The figures are not strictly comparable from month to month because of changes in the size and composition of the reporting sample.

² See tables 9, 10, and 11 in the December 1940 issue of "Employment and Pay Rolls" for comparable series back to January 1919 for all manufacturing and back to January 1923 for the durable- and nondurable-goods groups.

* Revisions in the following industries and groups have been made as indicated:

All manufacturing.—July 1941 employment index to 130.6.

Durable-goods group.—July 1941 employment and pay-roll indexes to 137.6 and 172.2, respectively.

Nondurable-goods group.—July 1941 pay-roll index to 130.7.

Hardware.—July 1941 pay-roll index, average hourly earnings, and average weekly earnings to 123.8, 71.0 cents, and \$29.20, respectively.

Transportation group.—April, May, June, and July 1941 employment indexes to 166.3, 171.7, 177.8, and 179.0; pay-rolls indexes to 191.6, 217.0, 240.0, and 228.8.

Aircraft.—June and July 1941 employment indexes to 6,718.1 and 7,231.3; pay-roll indexes to 8,193.5 and 9,045.7; average hours to 45.0 and 44.8; July hourly and weekly earnings to 81.2 cents and \$36.57.

Nonferrous group.—July 1941 employment and pay-roll indexes to 143.1 and 173.7.

Clocks and watches, and time-recording devices.—May 1941 average hours and average hourly earnings to 42.3 hours and 64.6 cents; June hourly and weekly earnings to 66.0 cents and \$27.94; July employment index, pay-roll index, and weekly earnings to 118.2, 138.3, and \$25.85.

Lighting equipment.—April, May, June, and July 1941 employment indexes to 113.2, 111.6, 113.0, and 111.4; pay-roll indexes to 106.0, 110.4, 116.3, and 113.2; average hourly earnings to 72.8, 74.8, 77.8, and 77.6 cents; average weekly earnings to \$29.01, \$30.62, \$31.86, and \$31.43; May, June, and July average hours to 41.0, 41.0 and 40.5 hours.

Hosiery.—July 1941 average hours and average weekly earnings to 36.0 hours and \$19.78.

Food group.—July 1941 average hours to 40.9; average hourly earnings to 66.2 cents.

Chemicals.—June 1941 employment index, pay-roll index, average hours, average hourly earnings, and average weekly earnings to 172.2, 232.7, 41.6 hours, 86.6 cents, and \$36.04; July employment index to 175.9.

(Footnotes continued on p. 24)

⁴ See table 7 in the April 1941 issue of "Employment and Pay Rolls" for revised figures from January 1940 to March 1941.

⁵ Adjusted on basis of a complete employment survey of the aircraft industry made by the Bureau of Labor Statistics for August 1940. Not comparable with previously published indexes from January 1939 to August 1940, inclusive. Comparable figures for this period given in table 9 of the September 1940 issue of "Employment and Pay Rolls."

⁶ The indexes for "Automobiles" have been adjusted to 1933 census figures, but not to latest census figures because of problems involving integrated industries.

⁷ *Locomotives*.—Indexes, hours, and earnings, revised as follows:

Year and month	Indexes		Average hours worked per week	Average hourly earnings	Average weekly earnings
	Employment	Pay rolls			
<i>1940</i>				<i>Cents</i>	
August.....	32.6	32.7	38.7	79.2	\$30.62
September.....	34.5	37.2	41.3	79.9	32.98
October.....	38.0	40.8	41.4	79.2	32.79
November.....	40.6	43.1	40.2	80.6	32.43
December.....	43.4	48.2	41.9	81.1	34.00
<i>1941</i>					
January.....	46.1	52.5	42.8	81.4	34.79
February.....	49.2	57.5	43.6	82.0	35.72
March.....	51.6	60.7	43.7	82.2	35.91
April.....	55.1	67.8	44.4	84.6	37.59
May.....	59.4	75.9	43.9	89.1	39.08
June.....	61.8	84.1	45.8	90.9	41.62
July.....	67.8	92.5	45.3	92.0	41.70

⁸ See table 8 in March 1941 "Employment and Pay Rolls" pamphlet for revised figures from January 1935 to February 1941.

⁹ *Knitted cloth*.—June and July 1941 hourly earnings revised to 53.4 and 54.5 cents. Because of change in composition of the reporting sample, these figures not comparable with those previously published. Comparable May 1941 figures, 53.7 cents.

¹⁰ Not available.

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

¹² See table 7 of October 1940 "Employment and Pay Rolls" for revised employment and pay-roll indexes, average hours worked per week, average hourly earnings, and average weekly earnings in anthracite mining, February 1940 to September 1940, inclusive.

¹³ See table 7 of February 1941 pamphlet for revised figures for metalliferous mining from January 1938 to January 1941, inclusive.

¹⁴ Does not include well drilling or rig building.

¹⁵ 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.

¹⁶ 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 Review" prior to April 1940, with but 1 exception, retail furniture, which has been revised since publication of July 1940 pamphlet back to January 1936. Comparable series for earlier months available upon request.

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

¹⁸ Indexes adjusted to 1933 census. Comparable series in November 1934 and subsequent issues of "Employment and Pay Rolls."

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

²⁰ Indexes of employment and pay rolls are not available; percentage changes from preceding month substituted.

²¹ See note 18 in table 10 in the July 1941 issue of "Employment and Pay Rolls" for revised average weekly earnings in the brokerage industry from January 1939 to January 1941.

²² Based on estimates prepared by the U. S. Maritime Commission covering employment on steam and motor merchant vessels of 1,000 gross tons or over in deep-sea trades only.

²³ Preliminary.—Source: Interstate Commerce Commission.

TABLE 6.—*Indexes of Employment and Pay Rolls in 55 Additional Manufacturing Industries*

[12-month average 1939=100]

Industry	Employment			Pay rolls		
	Oct. 1941	Sept. 1941	Aug. 1941	Oct. 1941	Sept. 1941	Aug. 1941
Iron and steel group:						
Metal doors and shutters.....	148.3	148.0	145.7	219.0	196.9	196.4
Firearms.....	(1)	(1)	(1)	(1)	(1)	(1)
Screw-machine products.....	207.9	203.2	200.1	293.8	281.8	274.1
Wire drawing.....	140.3	140.6	138.2	173.1	172.0	170.6
Wrought pipe not made in rolling mills.....	159.6	158.0	150.8	204.4	194.4	198.7
Steel barrels, kegs, and drums ²	147.2	140.4	138.1	190.7	186.6	177.9
Machinery group:						
Machine-tool accessories.....	246.9	241.0	237.3	330.7	323.2	312.2
Pumps.....	203.3	197.7	194.7	312.8	301.8	285.4
Refrigerators and refrigerating apparatus.....	121.4	127.6	136.3	141.5	147.4	162.1
Sewing machines ²	136.8	134.7	129.7	220.3	212.7	198.2
Washing machines, wringers, and driers.....	113.6	126.5	125.0	133.1	142.4	152.4
Transportation equipment group:						
Motorcycles, bicycles, and parts.....	169.4	166.9	168.4	216.6	205.4	206.4
Nonferrous metals group:						
Sheet-metal work.....	149.5	149.3	148.7	189.1	189.8	190.0
Smelting and refining of scrap metal.....	156.5	155.1	147.1	194.4	186.3	188.4
Lumber group:						
Caskets and morticians' goods ²	105.3	104.8	104.5	120.1	117.1	116.0
Wood preserving.....	123.1	124.7	125.4	160.9	158.2	161.0
Wood turned and shaped.....	108.5	113.1	113.7	142.1	138.6	134.4
Wooden boxes, other than cigar.....	127.9	125.3	123.4	170.9	162.0	164.1
Mattresses and bed springs.....	128.8	130.7	129.7	161.7	165.4	159.7
Stone, clay, and glass products group:						
Abrasive wheels.....	193.7	190.8	186.8	257.8	247.5	234.6
Asbestos products.....	144.2	145.9	146.2	195.2	195.7	191.4
Lime.....	121.0	123.2	125.5	161.8	160.8	161.1
Gypsum.....	128.1	128.3	110.3	169.6	171.6	149.0
Glass products made from purchased glass.....	136.7	146.9	148.1	167.9	169.5	167.3
Wallboard and plaster, except gypsum.....	140.8	140.3	142.7	166.3	167.4	181.1
Textiles:						
Textile bags.....	117.7	115.7	113.0	137.3	136.5	131.9
Cordage and twine.....	142.5	138.7	136.9	193.6	186.3	182.4
Curtains, draperies, and bedspreads.....	112.4	114.9	111.0	158.0	172.2	164.2
Housefurnishings, other.....	142.2	145.8	135.5	176.6	178.9	166.4
Jute goods, except felt ²	128.9	116.5	134.2	174.5	155.8	177.9
Handkerchiefs.....	108.6	108.8	106.4	144.5	137.7	130.1
Leather group:						
Boot and shoe cut stock and findings ²	104.9	106.7	107.7	125.8	128.4	126.4
Leather gloves and mittens.....	154.1	148.4	149.9	195.8	191.3	194.0
Trunks and suit cases.....	180.5	171.4	163.1	204.1	187.3	166.9
Food group:						
Cereal preparations.....	116.6	118.4	120.1	128.0	139.5	143.9
Condensed and evaporated milk.....	124.4	124.4	123.7	146.3	144.2	142.6
Feeds, prepared.....	113.7	112.7	111.6	136.5	135.8	126.6
Paper and printing group:						
Paper bags.....	129.3	131.7	130.2	160.7	161.4	153.2
Envelopes.....	123.1	121.7	120.5	136.6	136.9	132.7
Paper goods, not elsewhere classified.....	128.7	130.0	126.8	152.3	151.0	144.6
Bookbinding.....	117.0	116.9	116.0	143.2	148.6	148.3
Lithographing.....	108.3	108.7	106.5	117.9	123.3	121.5
Chemical, petroleum, and coal products group:						
Ammunition.....	(1)	(1)	(1)	(1)	(1)	(1)
Compressed and liquefied gases.....	140.5	139.0	140.4	162.3	154.8	167.0
Perfumes and cosmetics.....	121.8	114.9	107.3	140.5	125.2	116.9
Coke-oven products.....	124.3	124.9	126.2	147.4	146.1	147.5
Paving materials.....	113.6	126.6	127.0	139.2	158.0	158.8
Roofing materials.....	129.6	133.0	135.4	164.9	161.0	169.2

¹ Not available.² Revisions of employment and pay-roll indexes in the following industries have been made as indicated: *Steel barrels, kegs, and drums*.—March, April, May, June, and July employment to 103.5, 112.4, 124.1, 130.3, and 135.6; pay-roll to 120.5, 139.0, 159.6, 173.6, and 167.5.*Sewing machines*.—January, February, March, April, May, June, and July employment to 111.7, 113.3, 117.5, 121.9, 125.0, 127.9, and 129.3; pay-roll to 127.8, 138.9, 149.5, 165.9, 178.6, 194.7, and 190.7.*Caskets and morticians' goods*.—March, April, May, June, and July employment to 103.0, 102.6, 101.6, 101.0, and 102.9; February, June, and July pay-roll to 110.7, 109.5, and 112.3.*Jute goods, except felt*.—January, February, March, April, May, June, and July employment to 106.7, 108.3, 115.1, 123.0, 122.2, 128.3, and 130.6; pay-roll to 115.3, 122.3, 137.6, 152.7, 153.9, 162.1, and 165.1.*Boot and shoe cut stock and findings*.—February, March, May, June, and July employment to 103.7, 105.2, 103.4, 105.6, and 107.9; February, March, April, May, June, and July pay-roll to 114.4, 118.5, 111.7, 114.5, 124.8, and 128.5.*Trunks and suitcases*.—November and December 1940, January, February, March, April, May, June, and July 1941 employment to 125.8, 127.4, 124.3, 130.9, 126.0, 130.8, 136.4, 145.6, and 152.2; pay-roll to 132.9, 146.2, 126.8, 132.7, 129.1, 133.3, 140.0, 151.6, and 149.7.

TABLE 6.—*Indexes of Employment and Pay Rolls in 55 Additional Manufacturing Industries—Continued*

Industry	Employment			Pay rolls		
	Oct. 1941	Sept. 1941	Aug. 1941	Oct. 1941	Sept. 1941	Aug. 1941
Miscellaneous group:						
Chemical fire extinguishers.....	319.4	326.2	301.4	471.3	483.3	430.1
Buttons.....	121.0	120.2	116.2	156.9	151.5	148.2
Instruments—professional, scientific, and commercial.....	218.1	200.3	200.0	280.2	249.5	242.1
Optical goods.....	177.1	174.3	173.2	215.2	208.6	203.7
Photographic apparatus.....	124.9	126.2	126.9	162.3	159.9	156.4
Pianos, organs, and parts.....	130.7	129.5	126.1	159.6	151.4	144.6
Toys, games, and playground equipment.....	139.7	144.3	144.6	157.8	155.4	157.1

TABLE 7.—*Indexes of Employment and Pay Rolls in Selected Manufacturing¹ and Nonmanufacturing² Industries, October 1940 to October 1941*

Industry	1940				1941									
	Av.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.
Employment														
<i>Manufacturing</i>														
All industries.....	107.5	113.8	114.7	116.2	115.5	117.8	119.9	122.6	124.9	127.9	130.6	133.1	135.2	135.3
Durable goods ³	104.3	112.8	115.5	117.7	118.3	121.0	123.7	127.7	131.3	135.1	137.6	138.7	142.1	144.0
Nondurable goods ⁴	110.6	114.8	113.8	114.8	112.7	114.7	116.3	117.8	118.8	121.1	123.9	127.7	128.7	127.1
<i>Nonmanufacturing</i>														
Anthracite mining ⁵	50.7	49.4	50.4	50.8	50.3	50.6	50.2	48.7	48.6	49.2	49.3	50.0	50.0	50.3
Bituminous-coal mining ⁵	88.0	89.2	89.8	90.1	90.2	90.6	91.1	23.5	87.9	88.1	90.3	92.6	94.2	95.0
Metalliferous mining ⁵	69.9	72.6	72.5	72.2	72.5	73.4	74.3	77.2	77.1	78.9	79.0	79.9	79.4	79.4
Quarrying and nonmetallic mining.....	45.3	48.8	47.2	45.4	41.7	42.4	44.2	48.2	51.0	51.9	52.7	53.9	54.2	53.8
Crude-petroleum production.....	62.9	62.4	61.3	60.7	60.3	60.4	60.2	60.1	60.3	61.5	62.1	62.2	61.8	61.3
Telephone and telegraph ⁷	77.9	79.1	79.2	79.7	80.4	80.9	81.8	83.2	84.6	86.3	88.3	89.6	90.4	90.6
Electric light and power ⁷	91.1	92.3	91.8	91.3	90.5	90.1	90.3	91.3	92.2	93.5	94.6	95.2	94.9	93.9
Street railways and busses ⁷	68.5	68.7	68.7	68.4	68.3	68.0	68.2	68.3	68.9	69.1	69.5	69.7	70.3	70.1
Wholesale trade.....	90.4	91.0	91.8	92.5	91.2	91.4	91.8	92.4	92.2	93.8	94.2	95.8	95.6	96.6
Retail trade ⁷	92.3	94.3	96.3	108.1	90.5	90.7	92.5	97.8	96.1	97.8	96.7	96.9	100.0	100.9
Year-round hotels ⁸	92.0	93.4	92.3	92.6	92.9	93.9	94.2	95.2	96.3	98.0	94.5	94.5	99.7	95.6
Laundries ⁸	99.5	100.2	99.7	100.3	101.4	101.1	102.5	104.9	108.3	112.0	115.8	114.6	113.0	110.9
Dyeing and cleaning ⁸	104.7	109.4	106.0	103.3	101.0	101.4	104.4	117.2	120.6	122.7	121.7	118.9	121.5	121.0
Pay rolls														
<i>Manufacturing</i>														
All industries.....	105.4	116.2	116.4	122.4	120.7	126.8	131.2	134.7	144.1	152.2	152.7	158.1	162.6	166.6
Durable goods ³	107.8	123.4	125.1	131.7	132.0	139.3	144.6	149.9	163.1	173.9	172.2	177.6	183.2	191.1
Nondurable goods ⁴	102.7	108.1	106.6	112.1	108.1	112.9	116.3	117.7	122.9	127.9	130.7	136.3	139.5	139.2
<i>Nonmanufacturing</i>														
Anthracite mining ⁵	38.5	32.3	37.6	42.7	38.5	45.2	42.4	24.3	33.4	51.2	34.8	51.1	49.6	49.2
Bituminous-coal mining ⁵	81.2	83.6	84.5	91.4	87.8	90.8	93.8	15.5	103.4	107.2	105.4	117.3	115.5	122.6
Metalliferous mining ⁵	66.7	71.3	69.8	72.8	70.4	71.8	72.7	78.9	81.5	85.3	79.3	85.4	85.9	88.4
Quarrying and nonmetallic mining.....	40.5	46.7	42.3	42.4	36.9	38.2	40.3	47.0	53.2	55.7	55.5	59.3	60.6	60.8
Crude-petroleum production.....	58.2	57.6	56.8	55.9	55.7	57.3	56.1	57.8	58.6	59.9	61.4	61.5	64.4	63.0
Telephone and telegraph ⁷	100.2	102.2	103.2	103.5	103.9	104.3	106.4	107.3	110.5	113.0	115.7	116.4	117.3	117.6
Electric light and power ⁷	104.8	107.0	106.9	106.0	105.1	105.4	106.1	107.6	109.6	111.4	113.5	115.1	115.0	116.0
Street railways and busses ⁷	70.4	70.7	70.3	73.1	70.7	71.0	72.5	72.0	72.7	76.2	75.8	78.6	78.1	78.1
Wholesale trade.....	79.0	80.2	80.7	83.4	80.5	81.4	82.0	83.4	84.6	88.4	88.0	89.8	90.9	92.0
Retail trade ⁷	84.2	85.8	87.1	97.3	83.7	84.6	86.2	91.7	91.5	95.2	94.0	94.0	95.8	97.5
Year-round hotels ⁸	82.4	84.2	83.6	84.1	84.1	86.1	85.7	87.1	87.9	87.4	87.6	88.2	90.0	92.0
Laundries ⁸	87.7	88.0	87.2	89.2	89.8	89.7	90.9	95.8	98.7	102.5	106.7	104.7	105.2	103.2
Dyeing and cleaning ⁸	78.2	82.4	77.8	75.8	73.3	74.4	77.2	97.8	96.1	98.4	96.4	92.1	95.5	98.4

(See footnotes at bottom of p. 27)

TABLE 8.—*Indexes of Employment in Manufacturing Industries, by Metropolitan Area*
[12-month average 1937=100]

Metropolitan area	Employment index		Percentage change September to October 1941	Employment index October 1940	Percentage change October 1940 to October 1941
	October 1941	September 1941			
Akron, Ohio.....	115.5	115.3	+0.2	89.0	+29.8
Albany, N. Y. ¹	115.0	113.8	+1.1	92.2	+24.7
Atlanta, Ga.....	114.1	109.6	+4.1	99.0	+15.3
Baltimore, Md.....	161.6	157.8	+2.4	118.9	+35.9
Birmingham, Ala.....	131.5	130.8	+0.5	114.9	+14.4
Boston, Mass. ¹	141.7	140.4	+0.9	111.0	+27.7
Cambridge, Mass.....	110.3	111.4	-1.0	88.5	+24.6
Lynn, Mass.....	180.1	179.6	+0.3	100.9	+65.2
Somerville, Mass.....	96.9	99.8	-2.9	101.9	-4.9
Boston City and outside ¹	143.1	141.2	+1.3	114.0	+25.5
Bridgeport, Conn.....	159.4	156.5	+1.9	111.7	+42.7
Buffalo, N. Y.....	143.7	142.0	+1.2	113.5	+26.6
Canton, Ohio.....	144.0	144.9	-0.6	108.0	+33.3
Chattanooga, Tenn.....	117.2	122.5	-4.3	103.7	+13.0
Chicago, Ill.....	132.2	131.6	+0.5	104.7	+26.3
Gary, Ind.....	120.9	124.2	-2.7	115.6	+4.6
Chicago City and outside.....	132.8	132.0	+0.6	104.1	+27.6
Cincinnati, Ohio.....	124.6	122.7	+1.5	98.8	+26.1
Cleveland, Ohio.....	133.6	134.6	-0.7	106.1	+25.9
Columbus, Ohio.....	133.0	131.8	+0.9	105.2	+26.4
Dallas, Tex.....	150.5	138.7	+8.5	109.9	+36.9
Dayton, Ohio ²	109.8	109.2	+0.5	90.6	+21.2
Denver, Colo.....	121.7	123.7	-1.6	96.1	+26.6
Des Moines, Iowa.....	109.7	110.7	-0.9	100.3	+9.4
Detroit, Mich.....	95.5	93.3	+2.4	90.3	+5.8
Duluth, Minn.....	85.5	87.3	-2.1	69.4	+23.2
El Paso, Tex.....	92.1	95.0	-3.1	91.0	+1.2
Erie, Pa.....	145.9	146.7	-0.5	105.2	+38.7
Evansville, Ind.....	90.9	92.0	-1.2	77.3	+17.6
Flint, Mich.....	93.2	86.0	+8.4	90.8	+2.6
Fort Wayne, Ind.....	116.7	117.9	-1.0	84.3	+38.4
Fort Worth, Tex.....	116.6	113.2	+3.0	90.4	+29.0
Grand Rapids, Mich. ³	123.1	130.5	-5.7	120.8	+1.9
Hartford, Conn.....	150.1	148.8	+0.9	112.1	+33.9
Houston, Tex.....	125.5	124.3	+1.0	99.6	+26.0
Indianapolis, Ind.....	143.4	142.9	+0.3	117.0	+22.6
Jacksonville, Fla.....	148.0	144.0	+2.8	113.4	+30.5
Kansas City, Mo.....	115.6	111.7	+3.5	101.5	+13.9
Kansas City, Kans.....	109.1	106.0	+2.9	98.7	+10.5
Kansas City, Mo., and outside.....	118.1	113.9	+3.7	102.6	+15.1
Knoxville, Tenn.....	121.9	117.6	+3.7	96.0	+27.0
Los Angeles, Calif.....	196.1	185.2	+5.9	125.3	+56.5
Long Beach, Calif.....	133.4	117.5	+13.5	91.9	+45.2
Los Angeles city and outside.....	197.8	187.0	+5.8	126.2	+56.7

See footnotes at end of table.

(Footnotes from table 7, on p. 26)

¹ 3-year average 1923-25=100—adjusted to preliminary 1939 Census of Manufacturers. See tables 9, 10, and 11 of December 1940 "Employment and Pay Rolls" for comparable figures back to January 1919 for "All, manufacturing" and January 1923 for "Durable goods" and "Nondurable goods."

² 12-month average for 1929=100. Comparable indexes for wholesale trade, quarrying, metal mining, and crude-petroleum production are in November 1934 and subsequent issues of "Employment and Pay Rolls" or in February 1935 and subsequent issues of Monthly Labor Review. For other nonmanufacturing indexes see notes 5, 6, and 7.

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 this pamphlet. See also table 7 of October 1940 pamphlet for revised figures for anthracite mining, February to September 1940.

⁶ See table 7 of February 1941 pamphlet for revised indexes January 1938 to January 1941.

⁷ Retail-trade indexes adjusted to 1935 census and public utility indexes to 1937 census. Not comparable with indexes published in "Employment and Pay Rolls" pamphlets prior to January 1940 or in "Monthly Labor Review" prior to April 1940. Comparable series January 1929 to December 1939 available in mimeographed form.

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

TABLE 8.—*Indexes of Employment in Manufacturing Industries by Metropolitan Area—Continued*

Metropolitan area	Employment index		Percentage change September to October 1941	Employment index October 1940	Percentage change October 1940 to October 1941
	October 1941	September 1941			
Louisville, Ky.....	119.2	116.6	+2.2	106.0	+12.5
Lowell, Mass.....	106.0	105.3	+ .7	101.5	+4.4
Memphis, Tenn. ²	118.0	106.6	+10.7	104.9	+12.5
Miami, Fla. ²	122.8	119.9	+2.4	92.3	+33.0
Milwaukee, Wis.....	120.5	121.3	+ .7	95.4	+26.3
Minneapolis-St. Paul.....	122.0	119.0	+2.5	94.8	+28.7
St. Paul, Minn.....	126.3	123.4	+2.4	98.4	+28.4
Minneapolis city and outside.....	119.7	116.7	+2.6	92.9	+28.8
Nashville, Tenn.....	109.7	112.1	-2.1	94.2	+16.5
New Haven, Conn.....	143.1	135.4	+5.7	108.5	+31.9
New Orleans, La.....	142.7	141.3	+1.0	101.3	+40.9
New York and Northeastern New Jersey ¹	135.9	134.9	+ .7	112.6	+20.7
Newark, N. J.....	137.4	134.9	+1.9	111.4	+23.3
Jersey City, N. J.....	120.6	117.7	+2.5	101.2	+19.2
Patterson, N. J.....	155.1	153.5	+1.0	126.9	+22.2
Elizabeth, N. J.....	134.8	135.5	- .5	106.8	+26.2
Yonkers, N. Y.....	119.2	119.6	- .3	97.3	+22.5
New York City and outside ¹	135.9	135.1	+ .6	112.9	+20.4
Norfolk, Va. ¹	219.8	218.7	+ .5	161.4	+36.2
Oklahoma, City, Okla.....	123.4	118.8	+3.9	103.6	+19.1
Omaha, Nebr.....	109.9	111.6	-1.5	89.5	+22.8
Peoria, Ill.....	116.3	115.3	+ .9	90.4	+28.7
Philadelphia, Pa. ¹	125.8	124.6	+1.0	103.5	+21.5
Camden, N. J.....	160.2	176.2	-9.1	136.4	+17.4
Philadelphia city and outside.....	123.1	120.4	+2.2	100.8	+22.1
Pittsburgh, Pa.....	127.4	126.8	+ .5	103.8	+22.7
Portland, Oreg.....	172.4	166.1	+3.8	103.4	+66.7
Providence, R. I. ¹	125.9	125.1	+ .6	105.3	+19.6
Fall River, Mass.....	109.9	111.7	-1.6	107.9	+1.9
New Bedford, Mass.....	103.5	103.5	0	79.9	+29.5
Providence city and outside ¹	134.5	132.9	+1.2	110.7	+21.5
Reading, Pa.....	76.9	77.1	- .3	73.2	+5.1
Richmond, Va.....	113.2	114.3	-1.0	110.2	+2.7
Rochester, N. Y.....	125.9	125.8	+ .1	100.5	+25.3
St. Louis, Mo.....	121.8	120.8	+ .8	100.8	+20.8
Salt Lake City, Utah.....	99.5	93.4	+6.5	89.2	+11.5
San Antonio, Tex.....	120.4	121.7	-1.1	107.4	+12.1
San Diego, Calif.....	449.6	409.3	+9.8	242.1	+85.7
San Francisco, Calif. ¹	148.4	147.6	+ .5	108.2	+37.2
Oakland, Calif.....	118.4	130.0	-8.9	107.4	+10.2
San Francisco city and outside ¹	155.5	151.7	+2.5	108.4	+43.5
Scranton, Pa.....	92.6	91.9	+ .8	89.8	+3.1
Seattle, Wash.....	207.8	203.3	+2.2	121.4	+71.2
South Bend, Ind. ²	139.0	141.8	-2.0	111.9	+24.2
Spokane, Wash.....	109.5	104.5	+4.8	102.4	+6.9
Springfield, Mass. ¹	133.9	133.4	+ .4	101.7	+31.7
Syracuse, N. Y. ²	138.6	136.0	+1.9	111.3	+24.5
Tacoma, Wash.....	126.5	130.6	-3.1	94.6	+33.7
Tampa, Fla.....	135.4	129.9	+4.2	120.4	+12.5
Toledo, Ohio.....	100.8	101.8	-1.0	87.7	+14.9
Trenton, N. J.....	139.3	140.3	- .7	124.4	+12.0
Tulsa, Okla.....	124.8	118.7	+5.1	91.5	+36.4
Utica, N. Y.....	139.4	137.7	+1.2	106.8	+30.5
Washington, D. C. ¹	162.9	159.1	+2.4	121.1	+34.5
Wichita, Kans. ²	277.9	273.6	+1.6	141.5	+96.4
Wilmington, Del.....	132.2	132.9	- .5	101.9	+29.7
Worcester, Mass.....	121.6	121.2	+ .3	101.6	+19.7
Youngstown, Ohio.....	113.4	114.5	-1.0	96.2	+17.9

¹ Includes employment in Government navy yards and arsenals.² Previously published indexes for 1941 have been revised as follows: Dayton—August, 108.6; Grand Rapids—August, 136.2; Memphis—June, 111.8, July, 114.9, August, 116.0; Miami—June, 104.0, July, 93.3, August, 101.3; South Bend—August, 128.1; Syracuse—July, 127.7, August, 131.0; Wichita—June 255.7, July, 259.9, August, 271.2.

WAGE-RATE CHANGES IN UNITED STATES INDUSTRIES

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

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

TABLE 9.—*Wage-Rate Changes Reported by Manufacturing and Nonmanufacturing Establishments During Month Ending Oct. 15, 1941*^{1 2}

Group and industry	Establishments		Employees		Average percent- age change in wage rates of employ- ees having increases
	Total number covered	Num- ber re- porting increases	Total number covered	Num- ber re- porting increases	
All manufacturing.....	33,612	1,186	7,772,557	400,080	8.7
Durable goods.....	12,548	411	4,284,944	132,940	9.8
Nondurable goods.....	21,064	775	3,487,613	267,120	8.2
Iron and steel and their products, not including machinery.....	2,558	83	1,103,255	22,589	6.5
Blast furnaces, steel works, and rolling mills.....	336	8	575,599	1,986	7.9
Cast-iron pipe.....	68	8	20,196	1,360	10.2
Forgings, iron and steel.....	95	6	19,362	1,829	8.3
Hardware.....	159	3	52,092	184	2.3
Plumbers' supplies.....	111	3	28,646	731	11.4
Stamped and enameled ware.....	241	9	51,167	1,180	9.9
Steam and hot-water heating apparatus and steam fittings.....	111	4	47,032	4,187	3.1
Stoves.....	238	10	41,731	1,485	8.5
Structural and ornamental metalwork.....	287	5	36,657	128	7.8
Tools (not including edge tools, machine tools, files, and saws).....	132	4	20,916	451	8.2
Wirework.....	174	8	30,664	922	5.4
Screw-machine products.....	80	3	20,905	779	9.8
Machinery, not including transportation equipment.....	3,835	120	1,251,535	24,914	7.8
Electrical machinery, apparatus, and supplies.....	607	22	337,650	6,641	9.2
Engines, turbines, water wheels, and windmills.....	76	3	103,757	338	9.9
Foundry and machine-shop products.....	2,243	61	401,944	10,063	6.8
Machine tools.....	198	8	97,919	1,866	9.0
Textile machinery and parts.....	122	6	25,611	715	8.3
Machine-tool accessories.....	111	4	21,570	337	4.6
Refrigerators and refrigerating apparatus.....	64	4	33,527	1,317	8.5
Transportation equipment.....	844	31	1,081,746	50,256	13.4
Aircraft.....	116	7	263,977	40,132	15.2
Automobiles.....	402	13	469,276	6,312	5.0
Cars, electric- and steam-railroad.....	67	3	48,526	917	12.1
Shipbuilding.....	219	6	268,955	1,637	8.0
Nonferrous metals and their products.....	1,090	42	257,992	14,127	7.8
Brass, bronze, and copper products.....	352	13	96,813	2,539	6.1
Jewelry.....	201	6	20,207	709	9.9
Lighting equipment.....	87	3	16,706	487	9.6
Smelting and refining—copper, lead, and zinc.....	57	10	33,014	9,286	7.9

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

² No decreases reported.

TABLE 9.—*Wage-Rate Changes Reported by Manufacturing and Nonmanufacturing Establishments During Month Ending Oct. 15, 1941—Continued*

Group and industry	Establishments		Employees		Average percent- age change in wage rates of employ- ees having increases
	Total number covered	Num- ber re- porting increases	Total number covered	Num- ber re- porting increases	
Lumber and allied products	2, 711	99	362, 346	16, 408	8.7
Furniture.....	719	37	116, 187	7, 254	9.8
Lumber:					
Millwork.....	566	15	43, 235	1, 618	6.0
Sawmills.....	665	26	131, 092	6, 119	5.7
Wooden boxes, other than cigar.....	132	6	13, 325	531	6.4
Mattresses and bed springs.....	196	9	14, 225	376	7.2
Stone, clay, and glass products	1, 510	36	228, 070	4, 646	8.1
Cement.....	127	3	22, 838	406	7.8
Glass.....	147	11	71, 185	2, 675	7.6
Pottery.....	119	6	30, 515	669	9.4
Lime.....	65	3	4, 527	163	9.0
Textiles and their products	6, 867	378	1, 443, 694	158, 294	7.9
Fabrics.....	3, 711	267	1, 074, 854	142, 118	7.4
Cotton goods.....	812	111	444, 015	26, 971	4.7
Cotton smallwares.....	139	4	16, 517	284	7.9
Dyeing and finishing textiles.....	230	22	58, 633	9, 729	7.8
Hosiery.....	478	50	114, 564	16, 572	9.4
Knitted outerwear.....	220	6	19, 617	602	6.5
Knitted underwear.....	140	3	41, 626	1, 003	6.6
Knitted cloth.....	82	4	7, 436	340	10.0
Silk and rayon goods.....	452	12	72, 551	6, 784	7.9
Woolen and worsted goods.....	408	32	168, 120	13, 890	9.1
Cordage and twine.....	59	5	15, 164	853	6.8
Housefurnishings, other.....	73	3	7, 398	338	5.7
Wearing apparel.....	3, 156	111	368, 840	16, 176	12.9
Clothing, men's.....	1, 115	32	158, 133	3, 789	11.6
Clothing, women's.....	1, 282	34	102, 091	2, 984	10.3
Corsets and allied garments.....	65	4	11, 327	561	9.3
Men's furnishings.....	149	8	15, 742	1, 029	14.3
Shirts and collars.....	259	32	56, 349	7, 795	13.0
Leather and its manufactures	1, 084	36	251, 103	11, 539	8.0
Boots and shoes.....	514	15	173, 670	6, 151	7.3
Leather.....	168	9	38, 989	4, 446	8.2
Boot and shoe cut stock and findings.....	125	5	10, 558	279	5.8
Food and kindred products	5, 271	80	567, 594	10, 604	8.4
Baking.....	1, 018	11	83, 525	1, 930	8.8
Beverages.....	609	5	43, 924	226	4.6
Butter.....	319	4	5, 980	6	7.4
Canning and preserving.....	1, 051	7	134, 119	265	9.2
Confectionery.....	281	8	46, 022	2, 254	6.3
Flour.....	336	9	15, 418	453	7.0
Slaughtering and meat packing.....	321	11	127, 753	2, 472	8.7
Tobacco manufactures	228	7	74, 488	1, 793	7.9
Chewing and smoking tobacco and snuff.....	42	3	11, 463	357	10.0
Cigars and cigarettes.....	168	4	44, 489	1, 436	7.3
Paper and printing	3, 998	111	417, 728	13, 236	6.1
Boxes, paper.....	658	22	52, 853	983	6.8
Paper and pulp.....	439	32	145, 026	9, 258	5.7
Printing and publishing:					
Book and job.....	1, 560	25	84, 618	1, 025	5.9
Newspapers and periodicals.....	728	19	64, 672	767	5.7
Paper goods, not elsewhere classified.....	151	8	25, 436	1, 097	8.8
Lithographing.....	84	3	7, 875	45	7.8
Chemical, petroleum, and coal products	2, 248	114	386, 227	53, 954	9.4
Chemicals.....	234	36	79, 617	20, 841	8.5
Explosives.....	43	14	17, 070	7, 007	7.3
Fertilizers.....	305	6	12, 898	274	9.4
Paints and varnishes.....	497	22	24, 825	4, 512	5.7
Petroleum refining.....	172	6	77, 079	3, 734	7.2
Rayon and allied products.....	29	5	51, 297	12, 970	14.5
Coke-oven products.....	26	3	9, 249	1, 253	9.0
Roofing materials.....	28	4	4, 671	500	8.0

TABLE 9.—*Wage-Rate Changes Reported by Manufacturing and Nonmanufacturing Establishments During Month Ending Oct. 15, 1941—Continued*

Group and industry	Establishments		Employees		Average percentage change in wage rates of employees having increases
	Total number covered	Number reporting increases	Total number covered	Number reporting increases	
Rubber products	258	9	140,852	3,240	7.9
Miscellaneous	1,110	40	205,927	14,480	7.9
Fabricated plastic and wood-pulp products.....	74	3	21,431	2,079	7.0
Buttons.....	53	5	6,348	439	5.0
Instruments—professional, scientific, and commercial.....	68	7	29,912	5,097	8.6
Pianos, organs, and parts.....	46	4	7,974	1,680	9.2
Surgical and orthopedic appliances.....	49	6	9,561	2,105	4.6
All nonmanufacturing (except building construction)	492,480	833	3,137,900	72,256	5.3
Coal-mining:					
Anthracite ³	480	45	60,100	35,467	2.5
Bituminous.....	1,010	3	244,500	379	17.0
Metalliferous mining.....	390	14	79,000	4,636	9.1
Quarrying and nonmetallic mining.....	1,140	10	45,000	745	11.3
Crude-petroleum production.....	490	24	39,900	4,963	6.0
Electric light and power.....	2,850	38	257,500	8,096	8.8
Manufactured gas.....	170	3	35,900	544	13.1
Street railways and busses.....	350	6	134,200	1,089	5.9
Wholesale trade.....	14,830	273	354,300	6,023	6.8
Retail trade.....	52,670	385	1,119,600	4,204	7.9
Hotels.....	1,940	15	147,100	3,849	9.9
Laundries.....	1,210	8	84,700	316	8.7
Dyeing and cleaning.....	870	3	19,400	52	6.5
Brokerage.....	1,270	3	18,900	26	11.0

³ Includes only those collieries explicitly reporting wage-rate increases in connection with their October employment reports to this Bureau. It is assumed, however, that the increase was general throughout the industry, as provided in the Anthracite Agreement of May 20, 1941.

⁴ Approximate—based on previous month's sample.

Public Employment

The detailed tables presented below showing public employment and pay rolls may be grouped into four main categories: (1) Regular Federal services, table 10; (2) construction projects financed from Federal funds, tables 11–14; (3) work-relief programs of the Federal Government, tables 15–18; and (4) State road projects, table 19.

REGULAR FEDERAL SERVICES

Table 10 covers all persons in the executive service who are employed directly by the Federal Government. It includes civilian employees of the War and Navy Departments as well as employees of the national defense agencies, but excludes the uniformed personnel of the Army, Navy, Coast Guard, and Marine Corps. Data for the legislative, judicial, and military branches are shown in table 1, on page 5.

Force-account employees of the Federal Government, that is, persons on the pay roll of the United States Government engaged on construction work whose period of employment terminates as the project is completed, are included in table 10, and also in tables 11 and 13, under the type of construction project. Nurses, educational

advisers, and supervisory and technical employees of the Civilian Conservation Corps are also included in table 10 as well as table 18.

Data for the legislative, judicial, and force-account employees and for the military and naval personnel are reported to the Bureau of Labor Statistics by the respective offices, and data for the executive service employees are reported through the Civil Service Commission.

CONSTRUCTION PROJECTS

With the exception of the force-account employees, all employees shown in tables 11 through 14 are not hired directly by the Federal Government but by contractors and subcontractors engaged in construction work financed wholly or partially from Federal funds. The force-account employees who are included in tables 11 and 13 also appear in table 10.

Data on the employment, pay rolls, man-hours worked, hourly earnings, and material orders placed on construction projects financed from Federal funds are reported monthly to the Bureau of Labor Statistics by the various contractors and subcontractors.

WORK-RELIEF PROJECTS

Tables 15 through 18 present employment and pay-roll data for the work-relief programs of the Work Projects Administration, National Youth Administration, and the Civilian Conservation Corps. The data are reported monthly to the Bureau of Labor Statistics by the respective agencies. The nurses, educational advisers, and supervisory and technical employees of the Civilian Conservation Corps are also included in the executive service (table 10). All other data are for work-relief personnel, except for, roughly, 5 percent of the W. P. A. and N. Y. A. employees who are hired in a supervisory capacity.

STATE ROADS

Employment and pay-roll data for the maintenance and construction of State roads which are financed wholly from State or local funds are shown in table 19. The data are reported monthly to the Bureau of Labor Statistics through the Public Roads Administration.

TABLE 10.—*Employment and Pay Rolls for the Executive Service of the Federal Government, September and October 1941*¹

[Subject to revision]

Class	Employment			Pay rolls		
	October 1941	September 1941	Percentage change	October 1941	September 1941	Percentage change
Entire service.....	1, 512, 428	1, 487, 925	+1.6	\$235, 855, 055	\$224, 140, 668	+5.2
Regular appropriation.....	1, 309, 159	1, 287, 860	+1.7	203, 001, 400	193, 664, 784	+4.8
Emergency appropriation.....	21, 063	21, 578	-2.4	3, 143, 123	3, 152, 274	-3
Force account.....	² 182, 206	178, 487	+2.1	² 29, 710, 532	27, 323, 610	+8.7
Inside the District of Columbia.....	195, 011	191, 588	+1.8	33, 766, 000	32, 654, 962	+3.4
Regular appropriation.....	181, 091	177, 991	+1.7	31, 006, 067	30, 211, 888	+2.6
Emergency appropriation.....	3, 325	3, 343	-5	525, 018	530, 045	-1.1
Force account.....	10, 595	10, 254	+3.3	2, 234, 915	1, 912, 429	+16.9
Outside the District of Columbia.....	1, 317, 417	1, 296, 337	+1.6	202, 089, 055	191, 485, 706	+5.5
Regular appropriation.....	1, 128, 068	1, 109, 869	+1.6	171, 995, 333	163, 452, 896	+5.2
Emergency appropriation.....	17, 738	18, 235	-2.7	2, 618, 105	2, 621, 629	-1
Force account.....	171, 611	168, 233	+2.0	27, 475, 617	25, 411, 181	+8.1

¹ Employment data are for the last pay period of the month, pay-roll data for the calendar month.² Also included in tables 11 and 13.TABLE 11.—*Employment and Pay Rolls on Construction Projects Financed from Regular Federal Appropriations, by Type of Project, October 1941*¹

[Subject to revision]

Type of project	Employment		Pay rolls for the month	Man-hours worked during month	Average earnings per hour	Value of material orders placed during month
	Maximum ²	Weekly average				
All projects.....	³ 1,023,182	945,640	\$155,745,748	165,869,154	\$0.939	\$250,048,003
Airport construction.....	65,649	61,588	7,978,470	10,510,873	.759	11,340,456
Building construction:						
Residential.....	52,547	44,003	6,421,260	6,948,431	.924	9,875,525
Nonresidential.....	431,310	390,073	67,278,549	67,958,499	.990	107,291,179
Electricification:						
Rural Electrification Administration projects ⁴	8,576	6,910	490,146	890,175	.551	2,038,589
Other than R. E. A. projects.....	1,208	990	144,612	132,723	1.090	246,032
Forestry.....	12	12	763	1,488	.613	136
Heavy engineering.....	5,682	5,682	563,542	860,691	.655	458,657
Public roads ⁵	(⁶)	71,286	7,546,068	10,887,208	.693	14,794,825
Reclamation.....	38,488	37,264	6,276,835	7,025,598	.893	6,409,637
River, harbor, and flood control:						
Dredging, dikes, revetments, etc.....	40,357	35,638	5,122,166	5,926,692	.864	4,919,770
Locks and dams.....	7,993	7,331	1,138,331	1,309,108	.870	1,544,413
Ship construction:						
Naval vessels.....	199,722	191,351	38,812,181	39,511,692	.982	67,522,279
Other than naval vessels.....	69,815	64,106	12,356,814	11,677,596	1.058	19,674,450
Streets and roads.....	8,386	7,731	827,930	1,078,967	.767	1,352,805
Water and sewerage.....	1,341	1,205	150,562	160,738	.937	394,435
Miscellaneous.....	20,810	20,470	634,519	988,675	.642	2,184,815

¹ Data are for the month ending on the 15th, except public-roads data, which are for the calendar month. Includes 182,013 force-account employees with \$29,685,951 pay roll, which are also included in the executive service, table 10.² Maximum number employed during any 1 week of the month.³ Includes weekly average for public-roads projects.⁴ Financed by Rural Electrification Administration loans.⁵ Under the jurisdiction of the Public Roads Administration.⁶ Not available; weekly average includes the total for all projects.

TABLE 12.—Employment and Pay Rolls on Low-Rent Housing Construction Projects Operated by the United States Housing Authority, by Geographic Division, October 1941¹

[Subject to revision]

Geographic division	Employment		Pay rolls for the month	Man-hours worked during month	Average earnings per hour	Value of material orders placed during month
	Maximum	Weekly average				
All divisions.....	40,820	34,381	\$4,552,414	4,646,517	\$0.980	\$6,868,678
New England.....	4,928	4,075	624,303	567,171	1.101	1,756,723
Middle Atlantic.....	7,658	6,481	1,044,997	887,286	1.205	1,410,395
East North Central.....	6,204	5,428	852,679	720,124	1.184	913,487
West North Central.....	732	658	121,922	94,520	1.290	126,331
South Atlantic.....	10,708	8,956	1,038,870	1,266,836	.820	1,462,173
East South Central.....	2,234	1,794	160,855	217,731	.739	224,682
West South Central.....	3,490	2,998	294,997	381,193	.774	412,520
Mountain.....	468	393	55,578	50,175	1.108	122,386
Pacific.....	2,414	2,075	290,703	256,207	1.135	353,362
Outside continental United States..	1,984	1,523	67,510	225,274	.300	83,619

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

TABLE 13.—Employment and Pay Rolls on Federal and Non-Federal Construction Projects Financed From Public Works Administration Funds, by Type of Project, October 1941¹

[Subject to revision]

Type of project	Employment		Pay rolls for the month	Man-hours worked during month	Average earnings per hour	Value of material orders placed during month
	Maximum ²	Weekly average				
All programs.....	4,381	3,575	\$493,829	536,851	\$0.920	\$1,031,069
Federal projects financed from National Industrial Recovery Act and Public Works Administration Appropriation Act, 1938 funds						
All projects.....	³ 464	435	\$62,120	78,107	\$0.795	\$43,899
Airport construction (exclusive of buildings).....	61	61	9,732	15,270	.637	991
Building construction.....	112	107	11,267	12,707	.886	14,723
Public roads ⁴	(⁵) 18	18	340	845	.402	700
Reclamation.....	268	245	39,833	48,846	.815	24,243
Miscellaneous.....	5	4	958	439	2.182	3,242
Non-Federal projects financed from National Industrial Recovery Act, Emergency Relief Appropriation Act, 1935, 1936, and 1937, funds and Public Works Administration Appropriation Act, 1938 funds						
All projects.....	3,917	3,140	\$431,709	458,744	\$0.941	\$987,170
Building construction.....	85	69	9,239	5,858	1.577	232,424
Electrification.....	95	81	22,424	14,187	1.581	6,033
Heavy engineering.....	3,430	2,758	383,868	423,061	.907	735,331
Railroads.....	16	16	43	88	.489	0
Reclamation.....	81	40	4,981	5,048	.987	8,052
Streets and roads.....	149	122	4,689	4,650	1.008	1,134
Water and sewerage.....	40	33	3,826	3,213	1.191	4,196
Miscellaneous.....	21	21	2,639	2,639	1.000	0

¹ Data are for the month ending on the 15th, except public-roads data, which are for the calendar month. Includes 193 force-account employees with \$24,581 pay roll, which are also included in the executive service, table 10.

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

³ Includes weekly average for public roads.

⁴ Under the jurisdiction of the Public Roads Administration.

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

TABLE 14.—Employment and Pay Rolls on Construction Projects Financed by the Reconstruction Finance Corporation, by Type of Project, October 1941¹

[Subject to revision]

Type of project	Employment ²	Pay rolls for the month	Man-hours worked during month	Average earnings per hour	Value of material orders placed during month
All projects.....	23,853	\$3,431,600	3,484,346	\$0.985	\$7,407,266
Building construction ³	23,576	3,394,179	3,458,041	.982	7,406,808
Streets and roads.....	117	1,759	2,586	.680	208
Heavy engineering.....	160	35,662	23,719	1.504	250

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

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

³ Includes 613 employees, \$95,224 pay roll, 83,172 man-hours worked, and \$109,032 worth of material orders placed, on projects financed by RFO Mortgage Co.

TABLE 15.—Employment and Pay Rolls on Projects Financed by the Work Projects Administration, October 1941¹

[Subject to revision]

Type of project	Employment ²	Pay rolls for the month	Man-hours worked during the month	Average earnings per hour
All projects.....	1,040,493	\$62,933,276	135,367,879	\$0.465
Defense.....	328,350	20,079,987	43,570,781	.461
Nondefense.....	712,133	42,853,289	91,797,098	.467

¹ Data are for the calendar month.

² Average of weekly counts as of each Wednesday during the month.

TABLE 16.—Employment and Pay Rolls on Projects Financed by the Work Projects Administration, by Type of Project, September 1941¹

[Subject to revision]

Type of project	Employment ²	Pay rolls for the month	Man-hours worked during the month	Average hourly earnings
All projects.....	1,036,981	\$61,224,870	131,746,107	\$0.465
Conservation.....	24,959	1,333,311	2,926,706	.456
Highways, roads, and streets.....	348,365	18,274,709	43,073,668	.424
Community service programs, excluding sewing.....	232,714	14,665,737	28,724,521	.511
Public buildings ³	110,606	7,388,688	14,725,127	.502
Publicly owned or operated utilities.....	90,593	5,503,435	11,568,807	.476
Recreation and recreational facilities ⁴	38,023	2,450,810	4,845,038	.506
Sanitation.....	9,380	507,513	1,193,808	.425
Sewing.....	57,898	2,951,766	7,063,055	.418
Airports and airways.....	56,909	3,537,022	8,588,250	.412
Not elsewhere classified—total.....	67,534	4,611,879	9,037,127	.510
National defense vocational training.....	35,773	2,017,863	4,452,624	.453
Other.....	31,761	2,594,016	4,584,503	.566

¹ Includes projects operated by other Federal agencies and financed by allocation of W. P. A. funds. Data are for the calendar month.

² Data for all projects, airports and airways, and national defense vocational training represent the average of weekly employment counts made during the calendar month. Data for all other types of projects estimated by distributing the average for all projects on the basis of employment on the various types as of Sept. 24, 1941.

³ Construction of buildings for recreational purposes included under public buildings.

TABLE 17.—Employment and Pay Rolls on National Youth Administration Projects by Type of Program, September and October 1941 ¹

[Subject to revision]

Type of program	Employment ²		Pay rolls	
	October	September	October	September
Total.....	566,912	345,074	\$8,926,758	\$7,599,277
Student work program.....	273,942	33,000	1,735,728	147,000
Out-of-school work program.....	292,970	312,074	7,191,030	7,452,277

¹ Data are for the calendar month.

² Number of employees as of the last pay period of the month.

TABLE 18.—Employment and Pay Rolls in the Civilian Conservation Corps, September and October 1941 ¹

[Subject to revision]

Group	Employment ²		Pay rolls	
	October 1941	September 1941	October 1941	September 1941
All groups.....	172,706	190,224	\$8,465,633	\$9,273,943
Enrolled personnel ³	147,232	163,211	4,639,581	5,178,964
Nurses ⁴	104	108	13,777	15,367
Educational advisers ⁴	1,122	1,168	198,036	199,061
Supervisory and technical ⁴	24,248	25,737	3,614,239	3,880,551

¹ Data are for the calendar month.

² Employment represents for enrolled personnel an average of counts taken at 10-day intervals, and for other groups, the number employed on the last day of the month.

³ October data include 3,228 enrollees with \$62,542 pay roll, for work outside continental United States; the corresponding figures for September were 3,118 enrollees and \$57,070 pay roll.

⁴ Also included in executive service, table 10.

TABLE 19.—Employment and Pay Rolls on Construction and Maintenance of State Roads Financed Wholly from State or Local Funds, October 1940 and September and October 1941 ¹

[Subject to revision]

Type of project	Employment ²			Pay rolls		
	October 1941	September 1941	October 1940	October 1941	September 1941	October 1940
Total.....	188,375	193,976	208,024	\$16,370,116	\$16,448,054	\$15,514,368
New roads.....	63,852	65,561	67,698	5,148,285	5,219,402	4,901,974
Maintenance.....	124,523	128,415	140,326	11,221,831	11,228,652	10,612,394

¹ Data are for the calendar month.

² Average number working during month.