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EMPLOYMENT AND PAY ROLLS

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Use of Average Hourly Earnings in "Escalator" Clauses

Average hourly earnings of wage earners, such as those shown in table 6, have been compiled regularly by the Bureau of Labor Statistics since 1932. These averages are published for the use of those who wish either to compare the average earnings of wage earners in different industries or to study the changes in average earnings over a period of time.

Certain characteristics of the average earnings should be indicated. The average of the actual earnings of wage earners as a group may change from one period to another for either of two reasons: (1) By reason of changes in the wages paid, or (2) by reason of changes in the composition of the group of wage earners actually at work in different periods. As an example of the latter cause of change, it is evident that if, from one month to the next, the number of wage earners employed in a high-wage industry increases proportionally more than employment generally has increased, the average of actual earnings for the group as a whole will increase. This increase might take place even though there were no changes whatsoever in the earnings of any wage earner in any one of the establishments. It is apparent, therefore, that the Bureau's averages reflect both changes in the actual hourly rates paid as well as changes in the composition of the wage earners in the group. The averages contained in table 6 for all manufacturing, for durable goods, for nondurable goods, and for the various subgroups of industries, such as "iron and steel and their products," reflect both types of influence upon hourly earnings; and they measure the average of the actual earnings of the wage earners actually at work in each respective period.

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

It should be pointed out that the characteristics of the Bureau's average hourly earnings figures, as described above, make it desirable

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

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

It is not within the province of the Bureau to indicate the type of average that was contemplated by the contracting parties in the contracts already drawn, least of all can the method of compiling an average be changed. It is obvious however that in incorporating any statistical series in legal documents careful consideration should be given to the purpose for which the figures were originally compiled and to their relevance to some new purpose. The officials of the Bureau are at the disposal of all those who wish to apply any of the Bureau's series to administrative problems. Carefully interpreted and applied, these data have a present usefulness far greater than was imagined in the past. Their appropriate adaptation to new uses involves on the one hand a careful consideration by the Bureau of the purposes of the contracting parties; on the other, consultation with the Bureau to discover whether the new figures as they stand meet the purposes in mind.



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Employment and Pay Rolls

SUMMARY OF REPORTS FOR AUGUST 1940

Total Nonagricultural Employment

AN INCREASE of over 430,000 workers from July to August brought the employment level in nonagricultural occupations to nearly 36,000,000 persons. This was 1,130,000 more than a year ago and exceeded all previous August levels since 1929, with the single exception of August 1937. The major portion of the current increase was in manufacturing industries, which showed approximately 320,000 more workers on jobs in August than in July, or more than double the usual seasonal increase. Employment in the Federal, State, and local government services increased by more than 40,000. Over 40,000 additional workers were employed on Federal and private construction projects; 17,000 were added in the field of transportation and public utilities; and 8,000 in the mining group of industries. In the financial and service industries there was a net gain of approximately 7,000 workers between July and August. In wholesale and retail trade combined, employment declined by about 4,000, reflecting midsummer recession in retail trade activity.

These figures exclude emergency employment, which, as a result of the following changes, showed a net increase of 50,000: A decrease of 4,000 on projects operated by the Work Projects Administration, an increase of 10,000 in the Civilian Conservation Corps, and an increase of 44,000 on the out-of-school work program of the National Youth Administration.

Industrial and Business Employment

Employment gains were reported by 77 of the 90 manufacturing industries surveyed and by 9 of the 16 nonmanufacturing industries covered. Pay-roll gains were shown by 79 of the manufacturing and 9 of the nonmanufacturing industries.

The increase of 4.1 percent or more than 320,000 workers in factory employment was accompanied by a rise of 7.6 percent or \$13,800,000 in weekly factory pay rolls. The seasonally expected July-August increases are 1.8 percent in manufacturing employment and 3.1 percent in factory pay rolls. Employment in industries manufacturing mate-

rials for national defense continued to expand. Peak employment for all years for which the Bureau has indexes was registered in shipbuilding, aircraft, engines, machine tools, aluminum, and explosives. The largest gains in these industries were in shipbuilding (6,000), aircraft (5,200), and engines (2,500). Other manufacturing industries stimulated directly or indirectly by war-material orders showed large employment gains as follows: Sawmills, 16,200; steel, 12,600; foundries, 9,900; men's clothing, 7,900; hardware, 6,900; woolen and worsted goods, 6,400; and electrical machinery, 6,200. Canning and preserving firms showed a seasonal employment increase of 71,000 wage earners, and women's clothing factories a seasonal gain of 34,500. Factories manufacturing automobiles and automobile parts expanded their forces by 16,500 workers, reflecting production of new models. The meat-packing industry reported a larger-than-seasonal lay-off of 5,500 workers, and the baking industry a reduction of 800 workers.

Bituminous coal-mine employment showed a gain of 2.0 percent coupled with a pay-roll increase of 10.8 percent, reflecting a stepping-up of production in response to increased industrial demands. Metal mines and quarries reported small employment gains, while declines were shown in anthracite mining and crude-oil production employment. Slight employment declines in the telephone and telegraph and street railway and bus industries were offset by a small employment gain in the electric light and power industry. Hotels and laundries reported small contraseasonal employment gains. Brokerage firms curtailed employment by 2.7 percent.

Retail stores recorded an employment decline of 0.8 per cent, which was of about seasonal proportions. Department store employment fell 1.9 percent and variety stores reported 1.3 percent fewer workers. Other retail lines showing reduced employment were groceries 0.7 percent, automobiles 1.1 percent, women's clothing 3.5 percent, men's clothing 3.6 percent, and shoes 5.2 percent. Among the lines reporting increased employment were filling stations, electrical supplies, plumbing equipment, cigars, drugs, jewelry, and fuel and ice.

Wholesale trade firms reported an employment gain of 0.9 percent, which corresponded closely to the average percentage change between July and August for the past 11 years. Gains were general among the various wholesale lines, seasonal activity contributing to the more pronounced increases shown in farm products (10.8 percent), jewelry and optical goods (8.2 percent), assemblers and country buyers (8.0 percent), general merchandise (4.3 percent), and farm supplies (3.2 percent).

Employment in the private building construction industry increased 5.2 percent. This was greater-than-seasonal, the 1939 August increase having been 0.8 percent and the corresponding monthly gain during the 1932-39 period having averaged 3 percent. Employment in August 1940 was 15.6 percent above that of August 1939. All of the

geographic divisions except the Mountain and West North Central States reported employment increases over the month. The largest gain (23.7 percent) occurred in the East South Central States, primarily because of accelerated war-materials plant construction in Tennessee. Extensive hotel and residential construction in Florida contributed to an employment increase of 8.8 percent for the South Atlantic area. Substantial gains in California and Oregon resulted in an 8.1 percent gain in the Pacific States.

General contractors reported a 7.7-percent increase in employment, while special-trades contractors showed a 2.9-percent gain. Employment continued to increase in 11 of the 15 special building trades surveyed, principally plastering (10.7 percent), carpentering (8.9 percent), electrical contracting (5.0 percent), and glazing (4.0 percent). Recessions were reported in brick and stone masonry (2.1 percent) and structural-steel erection (4.6 percent). The reports on which these private building construction figures are based do not cover construction projects financed by the Work Projects Administration, the Public Works Administration, and the Reconstruction Finance Corporation, or by regular appropriations of the Federal, State, or local governments.

The preliminary report of the Interstate Commerce Commission for class I steam railroads showed an employment gain of 0.9 percent, or nearly 8,200 workers, between July and August. The total number employed in August was 1,059,364. Corresponding pay-roll figures for August were not available when this report was prepared. For July they were \$167,628,698, an increase of \$7,875,060 since June.

Hours and earnings.—The average hours worked per week by manufacturing wage earners were 38.4 in August, an increase of 3.2 percent from July. The corresponding average hourly earnings were 66.7 cents, an increase of less than 0.1 percent from the preceding month. The average weekly earnings of factory workers were \$26.10, an increase of 3.3 percent since July. Wage-rate increases were reported by 169 manufacturing establishments out of a total of approximately 26,200 establishments which supplied employment information to this Bureau in August. About 24,700 wage earners out of a total of approximately 5,000,000 covered in this survey were affected by these wage-rate increases, which averaged 6.6 percent. Among the firms reporting increases were 18 paper and pulp mills (affecting 5,917 workers), 3 woolen mills (1,788 workers), and 15 men's clothing factories (1,664 workers).

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

Of the 14 nonmanufacturing industries for which man-hours are available, 11 showed gains in average hours worked per week, and 5

showed increases in average hourly earnings. Nine of the 16 non-manufacturing industries surveyed reported gains in weekly earnings. The only significant wage increases in the group of nonmanufacturing industries surveyed were in street railways and busses, and in the distribution of natural gas. Some 1,600 workers employed on street railways and busses received a 1.5-percent wage-rate increase, and nearly 900 employees in the natural-gas industry received increases ranging from 3 to 5 percent.

Employment and pay-roll indexes and average weekly earnings for August 1940 are given in table 1 for all manufacturing industries combined, for selected nonmanufacturing industries, for water transportation, and for class I railroads. Percentage changes over the month and year intervals are also given.

TABLE 1.—*Employment, Pay Rolls, and Earnings in All Manufacturing Industries Combined and in Nonmanufacturing Industries, August 1940*

Industry	Employment			Pay roll			Average weekly earnings		
	Index, August 1940	Percentage change from—		Index, August 1940	Percentage change from—		Average in August 1940	Percentage change from—	
		July 1940	August 1939		July 1940	August 1939		July 1940	August 1939
All manufacturing industries combined ¹	(1923-25 = 100) 103.6	+4.1	+7.6	(1923-25 = 100) 103.8	+7.6	+15.7	\$26.10	+3.3	+7.6
Class I steam railroads ²	59.3 (1929 = 100)	+9	+5.4	(³) (1929 = 100)	(³)	(³)	(³)	(³)	(³)
Coal mining:									
Anthracite ⁴	50.3	-1.0	+3.9	33.1	-9.3	-2.1	21.63	-8.5	-5.8
Bituminous ⁴	86.6	+2.0	+6.5	83.3	+10.8	+11.6	25.37	+8.6	+4.8
Metalliferous mining	71.5	+7	+18.3	69.1	+8.6	+30.4	30.10	+7.7	+10.2
Quarrying and nonmetallic mining	48.8	+1.4	+1.4	45.0	+3.5	+4.9	23.03	+2.0	+3.5
Crude-petroleum production	63.4	-5	-4.9	59.1	-1	-4.8	34.11	+4	+2
Public utilities:									
Telephone and telegraph ⁵	78.6	-2	+2.7	100.8	-5	+4.6	\$31.47	-3	+1.9
Electric light and power ⁵	92.9	+7	+2.6	107.6	+1.7	+5.3	\$35.29	+1.0	+2.7
Street railways and busses ^{5 7}	68.4	-(⁸)	-1.1	70.3	+4	+6	\$33.77	+4	+1.8
Trade:									
Wholesale ⁹	90.0	+9	+1.1	78.7	+5	+3.3	\$30.25	-4	+2.2
Retail ⁵	88.4	-8	+2.4	81.3	-1.6	+4.2	\$21.54	-8	+1.8
Hotels (year-round) ^{4 10}	90.6	+3	+9	80.9	+4	+2.1	\$15.44	+1	+1.3
Laundries ⁴	102.8	+3	+3.7	90.6	+7	+5.4	18.02	+3	+1.7
Dyeing and cleaning ⁴	105.9	-2.1	+3.1	78.0	-2.4	+6.9	20.05	-4	+3.6
Brokerage	(³)	-2.7	-1.3	(³)	-5.4	-4.5	\$35.35	-2.7	-3.2
Insurance	(³)	+2	+1.8	(³)	-3	+3.4	\$36.26	-5	+1.6
Building construction	(³)	+5.2	+15.6	(³)	+6.7	+20.0	32.47	+1.4	+3.7
Water transportation ¹¹	81.0	+6	(³)	(³)	(³)	(³)	(³)	(³)	(³)

¹ Revised indexes—Adjusted to 1937 Census of Manufactures.

² Preliminary—Source: Interstate Commerce Commission.

³ Not available.

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

⁵ 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 the MONTHLY LABOR REVIEW prior to April 1940. Revised series available upon request.

⁶ Average weekly earnings not strictly comparable with figures published in issues of this pamphlet dated earlier than January 1938, as they now exclude corporation officers, executives, and other employees whose duties are mainly supervisory.

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

⁸ Less than 1/10 of 1 percent.

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

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

¹¹ Based on estimates prepared by the United States Maritime Commission.

Public Employment

The accelerated pace of the national-defense program was reflected in employment figures for construction projects financed by regular Federal appropriations. The number of workers employed on these projects rose to 335,000 for the month ending August 15, as a result of large gains on the construction of naval vessels and public roads together with appreciable increases on many other types of projects. Pay-roll disbursements of \$39,007,000 exceeded payments in the preceding month by \$4,360,000.

Contractors on low-rent projects of the United States Housing Authority added a few building-trades workers to their pay rolls during the month ending August 15. Pay-roll disbursements of \$5,602,000 to the 51,000 workers employed were \$267,000 more than in the preceding month.

Employment on construction projects financed by the Public Works Administration fell to 58,000 in the month ending August 15, a decrease of 18,000. Pay rolls of \$6,485,000 were \$1,229,000 less than in July.

The number of wage earners on construction projects financed by the Reconstruction Finance Corporation decreased approximately 100 in the month ending August 15. The 2,100 workers employed during the month were paid \$283,000, an increase of \$18,000 over the pay roll of the preceding month.

The effects of increased nonagricultural employment were felt on work-relief projects of the Work Projects Administration, where the number of persons employed decreased 4,000 in August. Pay-roll disbursements to the 1,647,000 workers on these projects totaled \$94,784,000, a decrease of \$246,000 from July. A decline of much greater proportions occurred on Federal agency projects under the Work Projects Administration, where employment dropped from 108,000 in July to 71,000 in August. Pay-roll disbursements for the month amounted to \$2,768,000.

The out-of-school work program of the National Youth Administration gave employment to an additional 44,000 persons in August. Total wage payments for the month amounted to \$4,778,000.

Employment in camps of the Civilian Conservation Corps showed a gain of 10,000 in August. Of the 326,200 on the pay roll, 290,600 were enrollees; 1,600, educational advisers; 200, nurses; and 33,800, supervisory and technical employees. Pay-roll disbursements for all groups of employees totaled \$14,421,000.

In the regular services of the Federal Government, employment increases were reported in the executive, legislative, and military branches, while the judicial service reported a decrease. Of the 1,038,229 employees in the executive service, 142,821 were working in

the District of Columbia and 895,408 outside the District. Force-account employees (employees on the pay roll of the United States Government who are engaged on construction projects, and whose period of employment terminates as the project is completed) were 10 percent of the total number of employees in the executive service. In the executive service, employment increases were reported in the Departments of War, Navy, and Commerce, the Tennessee Valley Authority, and the Post Office Department, while decreases were reported in the Department of Agriculture and the Federal Works Agency.

State-financed road projects furnished employment to an additional 4,000 workers in August. Of the 202,000 on the pay roll, 64,000 were engaged in the construction of new roads and 138,000 on maintenance. Pay-roll disbursements for both types of road work were \$15,045,000.

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

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

[Preliminary figures]

Class	Employment			Pay rolls		
	August	July	Percent- age change	August	July	Percent- age change
Federal services:						
Executive ¹	1,038,229	² 1,023,552	+1.4	\$159,218,015	² \$154,787,444	+2.9
Judicial.....	2,702	2,783	-2.9	642,475	699,287	-8.1
Legislative.....	6,011	5,985	+4	1,313,988	1,315,833	-.1
Military.....	549,290	515,822	+6.5	38,364,271	37,732,671	+1.7
Construction projects:						
Financed by regular Federal appropriations.....	334,593	317,691	+5.3	39,006,635	34,646,957	+12.6
U. S. H. A. low-rent housing.....	50,695	50,526	+3	5,602,339	5,335,120	+5.0
Financed by P. W. A. ³	58,303	76,042	-23.3	6,484,992	7,714,121	-15.9
Financed by R. F. C. ⁴	2,133	2,213	-3.6	283,288	264,726	+7.0
Federal agency projects financed by Work Projects Administration.....	70,841	107,803	-34.3	2,768,053	4,376,523	-36.8
Projects operated by W. P. A.	1,647,123	1,651,407	-.3	94,784,451	95,030,429	-.3
National Youth Administration:						
Student work program ⁵	0	0	-----	0	0	-----
Out-of-school program.....	240,067	² 195,917	+22.5	4,777,920	² 3,332,162	+41.3
Civilian Conservation Corps.....	326,244	316,548	+3.1	14,420,968	14,146,541	+1.9

¹ Includes force-account and supervisory and technical employees shown under other classifications to the extent of 138,543 employees and pay-roll disbursements of \$19,454,796 for August 1940, and 134,071 employees and pay-roll disbursements of \$18,137,390 for July 1940.

² Revised.

³ Data covering P. W. A. projects financed from National Industrial Recovery Act funds, Emergency Relief Appropriation Acts of 1935, 1936, 1937 funds, and Public Works Administration Appropriation Act of 1938 funds are included. These data are not shown under projects financed by the Work Projects Administration. Includes 6,023 wage earners and \$682,614 pay roll for August 1940; 6,606 wage earners and \$681,795 pay roll for July 1940, covering Public Works Administration projects financed from Emergency Relief Appropriation Acts of 1935, 1936, and 1937 funds. Includes 49,781 wage earners and \$5,565,863 pay roll for August 1940; 66,769 wage earners and \$6,744,740 pay roll for July 1940, covering Public Works Administration projects financed from funds provided by the Public Works Administration Appropriation Act of 1938.

⁴ Includes 1,173 employees and pay-roll disbursements of \$181,105 for August 1940; 1,284 employees and pay-roll disbursements of \$168,404 for July 1940 on projects financed by the RFC Mortgage Co.

⁵ Not in operation during July and August.

DETAILED TABLES FOR AUGUST 1940

Estimates of Nonagricultural Employment

THE estimates of "Total nonagricultural employment," given on the first line of table 3, represents the number of persons engaged in gainful work in the United States in nonagricultural industries, including proprietors and firm members, self-employed persons, casual workers, and domestic workers. The series described as "Employees in nonagricultural establishments" does not include proprietors, self-employed persons, and domestic or casual workers. Neither set of figures includes persons employed on W. P. A. or N. Y. A. projects or enrollees in C. C. C. camps. The estimates for "Employees in nonagricultural establishments" are shown separately for each of seven major industry groups. Tables giving figures for each group, by months, for the period from January 1929 to date are available on request.

The figures represent the number of persons working at any time during the week ending nearest the middle of each month. The totals for the United States have been adjusted to conform to the figures shown by the 1930 Census of Occupations for the number of nonagricultural "gainful workers" less the number shown to have been unemployed for 1 week or more at the time of the census. Separate estimates for "Employees in nonagricultural establishments" are shown in table 4 for each of the 48 States and the District of Columbia for July and August 1940 and August 1939. Tables showing monthly figures for each State from January 1938 to date are available on request. The State figures do not include the armed forces of the United States nor employees on merchant vessels. Certain adjustments have been made in the United States estimates which cannot be made on a State basis, and for this reason the total of the State estimates will not agree exactly with the United States figures even if allowance is made for military, naval, and maritime employment. These estimates are based in large part on industrial censuses and on regular reports of employers to the United States Bureau of Labor Statistics and to other Government agencies, such as the Interstate Commerce Commission. Data derived from employers' quarterly reports in connection with "old age and survivors' insurance," and employers' monthly reports in connection with unemployment compensation have been used extensively as a check on estimates derived from other sources, and in some industries they have provided the most reliable information available.

TABLE 3.—*Estimates of Total Nonagricultural Employment, by Major Groups*

[In thousands]

Industrial group	August 1940 (preliminary)	July 1940	Change July to August 1940	August 1939	Change August 1939 to August 1940
Total nonagricultural employment ¹	35,991	35,553	+438	34,856	+1,135
Employees in nonagricultural establishments ²	29,848	29,413	+435	28,710	+1,138
Manufacturing	9,866	9,544	+322	9,260	+606
Mining	845	837	+8	807	+38
Construction	1,420	1,379	+41	1,415	+5
Transportation and public utilities	3,035	3,018	+17	2,946	+89
Trade	6,074	6,078	-4	5,988	+86
Finance, service, and miscellaneous	4,220	4,213	+7	4,169	+51
Federal, State, and local government, including armed forces	4,388	4,344	+44	4,125	+263

¹ Includes proprietors, firm members, self-employed persons, casual workers, and domestic workers.² Does not include proprietors, firm members, self-employed persons, casual workers, and domestic workers.TABLE 4.—*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	August 1940 (preliminary)	July 1940	Change, July to August 1940		August 1939	Change, August 1939 to August 1940	
			Number	Percentage		Number	Percentage
New England	2,514	2,483	+31	+1.3	2,429	+85	+3.5
Maine	194	193	+1	+0.5	198	-4	-2.0
New Hampshire	132	131	+1	+1.0	130	+2	+1.2
Vermont	79	79	0	+0.2	74	+5	+6.8
Massachusetts	1,304	1,289	+15	+1.2	1,277	+27	+2.1
Rhode Island	228	224	+4	+1.8	219	+9	+4.2
Connecticut	577	567	+10	+1.7	531	+46	+8.6
Middle Atlantic	7,697	7,594	+103	+1.4	7,378	+319	+4.3
New York	3,842	3,799	+43	+1.1	3,773	+69	+1.8
New Jersey	1,193	1,163	+30	+2.6	1,095	+98	+8.9
Pennsylvania	2,662	2,632	+30	+1.1	2,510	+152	+6.1
East North Central	6,712	6,599	+113	+1.7	6,343	+369	+5.8
Ohio	1,754	1,730	+24	+1.4	1,667	+87	+5.2
Indiana	776	753	+23	+3.0	731	+45	+6.1
Illinois	2,234	2,204	+30	+1.4	2,125	+109	+5.2
Michigan	1,312	1,273	+39	+3.1	1,199	+113	+9.4
Wisconsin	636	639	-3	-0.6	621	+15	+2.3
West North Central	2,338	2,338	-2	(¹)	2,331	+5	+0.2
Minnesota	530	528	+2	+0.3	527	+3	+0.4
Iowa	400	396	+4	+1.0	403	-3	-0.7
Missouri	751	755	-4	-0.5	751	0	(¹)
North Dakota	79	80	-1	-0.2	78	+1	+2.3
South Dakota	84	84	0	+0.3	83	+1	+1.3
Nebraska	201	203	-2	-0.8	201	0	+0.1
Kansas	291	292	-1	-0.1	288	+3	+1.1
South Atlantic	3,417	3,345	+72	+2.2	3,293	+124	+3.7
Delaware	72	69	+3	+4.7	66	+6	+9.2
Maryland	511	504	+7	+1.3	474	+37	+7.7
District of Columbia	342	335	+7	+2.0	319	+23	+7.3
Virginia	481	478	+3	+0.7	470	+11	+2.2
West Virginia	370	368	+2	+0.6	355	+15	+4.0
North Carolina	586	552	+34	+6.1	590	-4	-0.6
South Carolina	274	273	+1	+0.6	270	+4	+1.7
Georgia	456	451	+5	+1.0	442	+14	+3.0
Florida	325	315	+10	+3.2	307	+18	+5.8
East South Central	1,354	1,327	+27	+2.0	1,301	+53	+4.0
Kentucky	357	356	+1	+0.2	351	+6	+1.6
Tennessee	455	440	+15	+3.4	425	+30	+7.1
Alabama	358	353	+5	+1.4	341	+17	+5.0
Mississippi	184	178	+6	+3.1	184	0	-0.2
West South Central	1,787	1,781	+6	+0.3	1,790	-3	-0.2
Arkansas	175	171	+4	+2.1	178	-3	-1.4
Louisiana	362	361	+1	(¹)	363	-1	-0.5
Oklahoma	290	289	+1	+0.3	293	-3	-1.1
Texas	960	960	0	+0.1	956	+4	+0.5

¹ Less than 0.1 percent

TABLE 4.—*Estimated Number of Employees in Nonagricultural Establishments, by States—Continued*

[In thousands]

Geographic division and State	August 1940 (preliminary)	July 1940	Change, July to August 1940		August 1939	Change, August 1939 to August 1940	
			Number	Percentage		Number	Percentage
Mountain	779	776	+3	+0.4	757	+22	+2.9
Montana.....	115	114	+1	+ .9	112	+3	+2.9
Idaho.....	86	85	+1	+1.4	83	+3	+3.2
Wyoming.....	54	54	0	+1.2	54	0	+ .6
Colorado.....	226	223	+3	+ .9	217	+9	+3.7
New Mexico.....	68	69	-1	-1.2	69	-1	-1.5
Arizona.....	85	86	-1	- .5	83	+2	+2.6
Utah.....	113	113	0	- .4	108	+5	+4.7
Nevada.....	32	32	0	+ .2	31	+1	+4.0
Pacific	2,451	2,383	+68	+2.8	2,377	+74	+3.1
Washington.....	430	423	+7	+1.6	419	+11	+2.6
Oregon.....	240	234	+6	+2.3	233	+7	+2.9
California.....	1,781	1,726	+55	+3.2	1,725	+56	+3.2

Industrial and Business Employment

Monthly reports on employment and pay rolls are available for 90 manufacturing industries; 16 nonmanufacturing industries, including private building construction; water transportation; and class I steam railroads. The reports for the first 2 of these groups—manufacturing and nonmanufacturing—are based on sample surveys by the Bureau of Labor Statistics. The figures on water transportation are based on estimates prepared by the Maritime Commission and those on class I steam railroads are compiled by the Interstate Commerce Commission. They are presented in the foregoing summary.

The indexes of factory employment and pay rolls are based on the 3-year average 1923–25 as 100 and are adjusted to 1937 census data. They relate to wage earners only and are computed from reports supplied by representative manufacturing establishments in 90 manufacturing industries. These reports cover more than 55 percent of the total wage earners in all manufacturing industries of the country and more than 65 percent of the wage earners in the 90 industries included in the monthly survey of the Bureau of Labor Statistics.

The indexes for the nonmanufacturing industries are based on the 12-month average for 1929 as 100. Figures for mining, laundries, and dyeing and cleaning cover wage earners only, but the figures for public utilities, trade, and hotels relate to all employees except corporation officers, executives, and other employees whose duties are mainly supervisory. For crude-petroleum production they cover wage earners and clerical field force. The coverage of the reporting samples for the various nonmanufacturing industries ranges from approximately 25 percent for wholesale and retail trade, dyeing and cleaning, and insurance, to approximately 80 percent for quarrying and nonmetallic mining, anthracite mining, and public utilities.

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

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

The average weekly earnings shown in tables 5 and 6 are computed by dividing the total weekly pay rolls in the reporting establishments by the total number of full- and part-time employees reported. As not all reporting establishments supply man-hours, average hours worked per week and average hourly earnings are necessarily based on data furnished by a smaller number of reporting firms. The size and composition of the reporting sample vary slightly from month to month. Therefore, the average hours per week, average hourly earnings, and average weekly earnings shown may not be strictly comparable from month to month. The sample, however, is believed to be sufficiently adequate in virtually all instances to indicate the general movement of earnings and hours over the period shown. The changes from the preceding month, expressed as percentages, are based on identical lists of firms for the 2 months, but the changes from August 1939 are computed from chain indexes based on the month-to-month percentage changes.

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

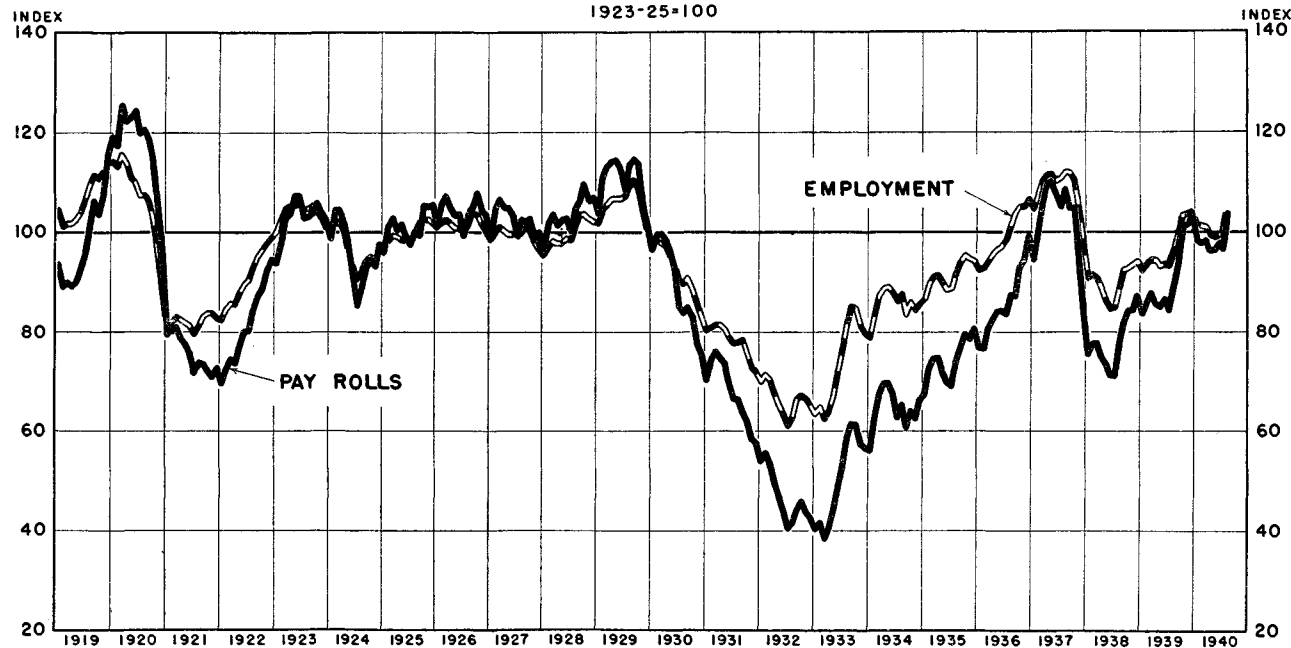
The indexes of employment and pay rolls as well as average hours worked per week, average hourly earnings, and average weekly earnings in manufacturing and nonmanufacturing industries in August 1940 are shown in table 5. Percentage changes from July 1940 and August 1939 are also given.

The employment and pay-roll indexes, as well as average hours worked per week, average hourly earnings, and average weekly earnings for June, July, and August 1940, where available, are presented in table 6. The June and July figures, where given, may differ in some instances from those previously published because of revisions necessitated primarily by the inclusion of late reports.

In table 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 August 1939 to August 1940, inclusive. The accompanying chart indicates the trend of factory employment and pay rolls from January 1919 to August 1940.

EMPLOYMENT AND PAY ROLLS ALL MANUFACTURING INDUSTRIES

1923-25=100



UNITED STATES BUREAU OF LABOR STATISTICS

ADJUSTED TO 1937 CENSUS

TABLE 5.—*Employment, Pay Rolls, Hours, and Earnings in Manufacturing and Nonmanufacturing Industries, August 1940*

MANUFACTURING

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

Industry	Employment			Pay rolls			Average weekly earnings ¹			Average hours worked per week ¹			Average hourly earnings ¹		
	Index August 1940	Percentage change from—		Index August 1940	Percentage change from—		August 1940	Percentage change from—		August 1940	Percentage change from—		August 1940	Percentage change from—	
		July 1940	August 1939		July 1940	August 1939		July 1940	August 1939		July 1940	August 1939		July 1940	August 1939
All manufacturing.....	103.6	+4.1	+7.6	103.8	+7.6	+15.7	\$26.10	+3.3	+7.6	38.4	+3.2	+0.9	Cents 68.7	+(?)	+5.4
Durable goods.....	99.5	+4.1	+18.6	105.0	+9.3	+28.8	29.98	+5.0	+8.7	39.8	+4.9	+3.8	72.8	+0.2	+4.2
Nondurable goods.....	107.6	+4.2	- .5	102.5	+5.6	+3.5	22.10	+1.4	+4.0	37.2	+1.6	-1.8	61.3	- .1	+5.1
<i>Durable goods</i>															
Iron and steel and their products, not including machinery.....	110.7	+4.2	+19.9	113.5	+8.8	+29.0	30.24	+4.4	+7.6	39.8	+4.2	+4.5	77.7	+(?)	+2.7
Blast furnaces, steel works, and rolling mills...	122.1	+2.5	+25.9	124.8	+7.4	+34.7	32.25	+4.7	+7.0	38.1	+4.5	+6.7	85.0	+ .1	+ .6
Bolts, nuts, washers, and rivets.....	114.9	+5.3	+18.5	138.7	+24.2	+33.4	29.02	+18.0	+11.5	41.5	+17.3	+9.7	70.0	+ .7	+2.0
Cast-iron pipe.....	80.2	+2.5	+6.4	76.3	+1.9	+12.5	22.72	- .7	+5.6	37.8	- .3	+1.8	59.9	- .5	+3.7
Cutlery (not including silver and plated cutlery) and edge tools.....	101.6	+2.9	+10.3	93.5	+3.1	+17.6	24.00	+ .2	+6.5	38.8	+ .7	+1.7	62.3	- .1	+4.2
Forgings, iron and steel.....	72.7	+7.3	+30.8	86.2	+11.0	+45.1	31.97	+3.5	+10.9	40.6	+2.9	+6.0	79.3	+ .4	+4.7
Hardware.....	96.4	+16.3	+27.4	107.2	+25.0	+33.8	27.36	+7.5	+5.1	39.2	+5.1	+ .1	70.1	+2.2	+4.8
Plumbers' supplies.....	86.7	+2.9	+11.5	79.9	+7.6	+12.3	26.97	+4.7	+ .7	38.7	+4.9	-2.2	69.7	- .3	+3.0
Stamped and enameled ware.....	163.7	+7.4	+7.3	181.7	+9.4	+16.2	26.43	+1.9	+8.2	39.9	+3.2	+2.1	65.7	-1.4	+6.4
Steam and hot-water heating apparatus and steam fittings.....	89.7	+6.5	+14.5	84.6	+3.4	+24.7	28.80	+1.8	+8.9	40.3	+1.2	+6.3	71.6	+ .6	+2.7
Stoves.....	97.7	+6.4	+8.3	89.1	+9.7	+14.7	26.10	+3.1	+5.9	38.6	+2.8	+2.7	67.8	+ .2	+3.1
Structural and ornamental metal work.....	79.9	+5.1	+11.8	72.9	+7.9	+14.0	29.51	+2.6	+2.1	40.1	+2.8	+ .3	73.6	- .2	+1.8
Tin cans and other tinware.....	108.1	+2.1	+ .7	121.9	+7.5	+6.1	25.61	+5.3	+5.4	40.4	+3.3	+(?)	63.9	+1.8	+5.4
Tools (not including edge tools, machine tools, files, and saws).....	95.6	+1.7	+14.5	95.6	+4.3	+20.5	25.22	+2.5	+5.3	39.8	+2.3	+3.0	63.4	+ .4	+2.2
Wirework.....	146.2	+7.3	+25.9	163.4	+16.1	+41.5	28.07	+8.1	+12.4	39.6	+6.7	+6.8	71.0	+1.4	+5.2

Machinery, not including transportation equipment.	119.2	+2.7	+23.1	131.0	+4.2	+35.2	30.67	+1.5	+9.8	41.2	+1.6	+5.5	74.5	-(?)	+8.1
Agricultural implements (including tractors).	131.2	+5	+14.7	152.0	+2.1	+22.5	30.87	+1.6	+7.0	38.6	+8	+3.6	80.1	+8	+3.0
Cash registers, adding machines, and calculating machines.	128.7	-7	+3.3	135.9	+2	+13.8	33.11	+1.0	+10.2	40.2	+9	+9.1	82.7	+1	+1.2
Electrical machinery, apparatus, and supplies.	106.6	+2.8	+21.4	123.7	+4.8	+32.4	30.92	+1.9	+9.0	40.7	+1.9	+4.7	76.5	-1	+3.9
Engines, turbines, water wheels, and windmills.	175.2	+4.6	+81.0	238.9	+6.8	+110.6	35.85	+2.0	+16.3	44.2	+1.3	+10.4	81.0	+8	+4.9
Foundry and machine-shop products.	100.5	+2.6	+19.5	101.2	+5.2	+29.1	30.12	+2.5	+8.0	41.0	+2.5	+5.6	73.3	+1	+2.0
Machine tools.	237.5	+1.1	+69.4	302.9	-1.6	+88.3	35.48	-2.7	+11.2	46.7	-1.7	+9.4	76.0	-1	+1.7
Radios and phonographs.	157.1	+9.6	+15.6	149.8	+8.2	+22.0	23.49	-1.3	+5.5	38.5	-1	-1.5	61.1	-1.3	+7.4
Textile machinery and parts.	76.4	-8	-1.6	73.5	+1	-1.5	26.30	+1.0	0	39.6	+9	-1.2	66.9	+1	+1.4
Typewriters and parts.	118.0	+3.2	+1	125.4	+7.3	+7.6	26.04	+4.0	+7.5	39.7	+3.2	+5.5	65.6	+7	+2.0
Transportation equipment.	102.8	+5.2	+36.4	113.1	+17.3	+44.4	35.31	+11.4	+5.9	39.9	+10.2	+5.6	89.7	+1.0	+1.5
Aircraft.	2,890.9	+6.9	+104.5	3,014.2	+14.4	+118.3	32.60	+7.0	+6.8	44.6	+6.3	+5.8	74.7	+1.2	+1.9
Automobiles.	86.4	+5.0	+22.7	97.5	+21.1	+30.0	37.05	+15.4	+5.9	38.8	+14.0	+2.8	95.5	+1.2	+2.9
Cars, electric- and steam-railroad.	50.7	+3	+59.2	46.8	+9.6	+72.0	28.94	+9.3	+8.1	38.4	+9.2	+6.1	75.5	+1	+1.9
Locomotives.	33.0	+6.2	+13.4	32.8	+4.8	+20.8	30.47	-1.3	+6.5	39.0	-6	+3.5	78.2	-7	+2.9
Shipbuilding.	181.0	+6.4	+49.0	211.5	+9.4	+64.9	34.86	+2.8	+10.7	40.3	+2.2	+5.9	86.7	+5	+4.7
Nonferrous metals and their products.	113.8	+6.5	+20.2	117.0	+10.6	+31.9	28.18	+3.8	+9.7	40.1	+3.7	+3.5	70.3	+4	+5.9
Aluminum manufactures.	189.2	+4.5	+22.8	224.5	+15.7	+37.6	28.91	+10.7	+12.0	40.1	+10.1	+4.1	72.0	+6	+7.4
Brass, bronze, and copper products.	138.4	+6.7	+28.4	160.8	+10.0	+45.5	31.42	+3.1	+13.3	41.4	+2.5	+4.8	76.2	+7	+8.1
Clocks and watches and time-recording devices.	95.2	+5.8	+15.1	101.4	+11.3	+19.2	23.67	+5.2	+3.7	39.6	+5.2	+1.2	59.7	+3	+2.0
Jewelry.	99.3	+6.5	+5.4	82.9	+9.4	+7.9	23.32	+2.7	+2.3	39.5	+2.9	-(?)	58.0	-1	+2.2
Lighting equipment.	87.7	+14.2	+20.3	76.5	+18.8	+31.2	27.17	+4.0	+9.2	39.1	+3.7	+5.7	69.4	+3	+3.3
Silverware and plated ware.	68.8	+9.1	-(?)	60.5	+18.1	+2.2	25.33	+8.3	+2.1	38.9	+7.6	+1.0	64.8	+8	+1.3
Smelting and refining—copper, lead, and zinc.	91.4	+2.7	+22.5	88.8	+2.3	+25.4	27.17	-4	+2.3	38.2	-1	+3	71.2	-4	+2.0
Lumber and allied products.	71.3	+4.5	+3.8	68.3	+12.5	+8.6	20.81	+7.6	+4.6	40.1	+8.5	+1.5	51.7	-5	+2.9
Furniture.	91.1	+3.9	+4.1	81.8	+10.2	+8.3	21.49	+6.0	+3.9	39.5	+7.0	+2	54.8	-7	+3.5
Lumber:															
Millwork.	64.3	+2.8	+4.7	52.5	+7.7	+6.2	22.61	+4.8	+1.4	41.6	+4.6	-2.0	55.0	+3	+3.3
Sawmills.	64.9	+5.5	+3.6	62.2	+15.5	+9.6	19.79	+9.8	+5.5	40.1	+10.3	+2.9	49.3	-5	+2.5
Stone, clay, and glass products.	84.5	+2.5	+4.6	76.7	+7.9	+7.1	24.81	+5.2	+2.5	37.0	+4.1	-1.1	66.8	+4	+3.4
Brick, tile, and terra cotta.	64.4	+4	+4.2	53.6	+3.4	+6.9	21.34	+3.0	+2.6	38.1	+2.6	-1.2	55.6	+5	+3.8
Cement.	74.5	+3.5	+2.6	72.6	+6.1	+4.0	27.94	+2.6	+1.4	38.8	+2.4	+1	71.6	+2	+1.3
Glass.	106.9	+3.5	+8.5	116.0	+10.2	+13.1	26.56	+6.4	+4.3	35.9	+6.3	+7	74.3	+1	+3.6
Marble, granite, slate, and other products.	48.6	+2.2	-8.7	36.6	+7.1	-9.8	26.53	+4.7	-1.1	36.4	+5.1	-3.6	73.6	-1	+2.8
Pottery.	90.9	+4.1	+7.4	79.8	+12.5	+7.6	22.17	+8.0	+1	36.0	+4.1	-5.0	64.2	+1.0	+4.0
Nondurable goods															
Textiles and their products.	99.8	+5.6	-3.3	87.4	+12.5	-8	17.64	+6.6	+2.6	34.9	+3.6	-3.7	51.2	+1.9	+5.9
Fabrics.	90.4	+2.7	-2.8	80.9	+5.9	+9	17.15	+3.1	+3.8	35.7	+3.0	-2.8	48.6	+1	+6.4
Carpets and rugs.	71.4	+8	-5.6	58.7	+8.8	-7.5	22.78	+7.9	-2.0	33.8	+6.4	-5.4	67.4	+1.4	+3.6
Cotton goods.	85.7	+8	+1.6	80.0	+2.3	+7.1	14.67	+1.5	+5.5	35.5	+2.2	+2.8	41.0	-5	+8.2
Cotton small wares.	76.7	+3.7	-5.2	72.6	+4.9	-4.0	18.36	+1.2	+1.2	37.1	+1	-4.1	49.5	+1.0	+5.7
Dyeing and finishing textiles.	121.5	+4.6	-6	101.8	+7.2	-1.5	20.53	+2.4	-9	37.1	+2.4	-3.8	54.6	+1	+2.7
Hats, fur-felt.	86.5	+4.3	-7.7	83.1	+6.0	-1.2	26.17	+1.6	+6.9	36.6	+1.9	+7.3	74.5	-7	+5.8

See footnotes at end of table.

TABLE 5.—*Employment, Pay Rolls, Hours, and Earnings in Manufacturing and Nonmanufacturing Industries, August 1940—Continued*

MANUFACTURING—Continued

Industry	Employment			Pay rolls			Average weekly earnings			Average hours worked per week			Average hourly earnings		
	Index August 1940	Percentage change from—		Index August 1940	Percentage change from—		August 1940	Percentage change from—		August 1940	Percentage change from—		August 1940	Percentage change from—	
		July 1940	August 1939		July 1940	August 1939		July 1940	August 1939		July 1940	August 1939		July 1940	August 1939
Nondurable goods—Continued															
Textiles and their products—Continued.															
Fabrics—Continued															
Hosiery.....	136.2	+3.8	-10.7	144.2	+11.4	-10.7	\$18.73	+7.3	-.3	33.8	+6.9	-6.4	55.4	0-.1	+6.8
Knitted underwear.....	70.3	+6.3	-10.0	59.9	+11.3	-6.2	17.88	+4.7	+4.3	37.0	+2.9	-3.6	47.6	+9	+7.3
Knitted underwear.....	73.1	+9	-5.2	65.5	+4.0	-3.7	15.24	+3.0	+1.8	35.0	+1.4	-5.7	43.6	+6	+8.2
Knitted cloth.....	147.5	+8.2	+5.1	129.4	+10.5	+11.0	19.73	+2.1	+5.7	39.7	+2.1	+8	49.4	+2	+4.8
Silk and rayon goods.....	63.0	+4.1	-12.9	51.4	+10.3	-7.1	16.77	+5.9	+6.9	36.8	+7.1	-.7	45.5	-.9	+7.5
Woolen and worsted goods.....	86.9	+4.4	+8	77.9	+5.5	+8.9	20.60	+1.1	+8.3	36.5	+7	+3	56.5	+4	+7.4
Wearing apparel.....	116.8	+11.3	-4.3	94.8	+25.4	-3.6	18.95	+12.6	+9	33.5	+5.1	-5.4	55.8	+4.4	+5.0
Clothing, men's.....	107.5	+4.2	-2.4	82.0	+6.9	-5.0	19.72	+2.6	-2.5	32.8	+2.2	-5.2	60.1	+1	+2.6
Clothing, women's.....	164.3	+19.7	-5.7	129.1	+45.0	-2.9	20.93	+21.2	+3.0	34.0	+7.1	-5.5	57.1	+9.7	+6.0
Corsets and allied garments.....	109.7	+7.1	-3.7	108.4	+8.7	-3.4	16.38	+1.5	+4	33.7	-1.9	-5.5	48.7	+3.3	+6.2
Men's furnishings.....	116.6	+6.3	-11.1	113.9	+16.7	-5.1	15.10	+9.8	+6.9	33.8	+6.8	-3.5	43.1	+3.3	+9.9
Millinery.....	73.3	+34.4	-6.3	64.7	+77.1	-3.2	26.14	+31.8	+3.3	34.7	+19.1	-3.6	67.4	+4.0	+3.9
Shirts and collars.....	117.1	+5.9	-2.4	102.1	+16.4	-.4	13.96	+9.9	+2.0	33.6	+4.9	-7.4	41.9	+2.8	+9.7
Leather and its manufactures.....															
Boots and shoes.....	91.1	+4	-9.2	75.1	+7	-9.4	18.97	+3	-.3	35.4	-.4	-6.7	53.4	+3	+6.9
Leather.....	80.3	+3	-6.0	77.0	+1.3	-7.4	23.96	+1.1	-1.6	37.3	+1.5	-4.0	64.4	-.3	+2.4
Food and kindred products.....															
Baking.....	146.6	-.4	-.2	140.1	-1.4	+3.5	26.40	-1.0	+3.9	41.2	-1.1	+1.1	64.3	+1	+3.0
Beverages.....	299.1	-.4	+1.3	357.1	+1.2	+2.0	34.99	+1.6	+7	40.1	+1.5	-1.1	88.4	+3	+2.0
Butter.....	103.2	-1.3	+3	89.4	-.6	+3.1	23.10	+.8	+2.7	47.7	+5	+1.2	48.2	+1.0	+2.1
Canning and preserving.....	264.8	+47.2	-8.2	250.6	+70.9	-.2	18.14	+15.6	+8.4	39.6	+9.5	-.4	46.5	+6.4	+6.3
Confectionery.....	79.8	+8.4	+1.6	77.1	+11.3	+5	19.01	+2.6	-1.1	36.7	+2.7	-3.4	51.8	-.2	+1.9
Flour.....	79.6	-.6	-.4	76.4	-.8	-.5	25.92	+1.3	2	42.0	+3	-.8	61.4	+1.0	+1.8
Ice cream.....	91.1	-1.1	+1.9	78.0	-.1	+5.2	29.97	+1.0	+3.1	46.6	+1.2	-.9	63.5	-.1	+2.3
Slaughtering and meat packing.....	106.8	-3.8	+6.7	112.3	-4.5	+6.2	27.57	-.7	-.5	39.8	-1.1	-1.3	69.1	+3	+9
Sugar, beet.....	89.2	+54.7	+1.0	87.5	+57.9	+2.2	25.40	+2.1	+1.1	38.4	+7.0	-4.2	67.3	-6.3	+6.3
Sugar refining, cane.....	98.3	-2.7	-.3	85.4	-6.6	+5.8	24.44	-4.0	+6.1	37.3	-5.2	+2.0	65.6	+1.3	+4.1

Tobacco manufactures	64.4	+3.2	-3.3	62.3	0	-6	17.79	-3.1	+2.8	36.1	-2.0	-1.8	49.2	-1.1	+4.9
Chewing and smoking tobacco and snuff.....	55.4	-1.3	-8.8	64.7	-2.8	-4.0	18.86	-1.6	+5.3	34.6	-2.5	-1.1	54.7	+8	+6.8
Cigars and cigarettes.....	65.5	+3.6	-2.7	61.9	+3	-4	17.57	-3.1	+2.3	36.2	-1.9	-1.9	48.6	-1.3	+4.8
Paper and printing	115.2	+4	+3.9	110.9	-3	+6.9	28.73	-6	+3.0	38.2	-5	-(2)	78.9	-2	+3.3
Boxes, paper.....	117.5	+1.4	+2.9	130.7	+2.4	+4.9	22.10	+1.0	+1.9	39.4	+1.3	-1.0	56.4	-4	+2.9
Paper and pulp.....	116.9	-1	+9.2	124.8	-1.2	+15.9	26.14	-1.1	+6.0	40.4	-1.1	+4	65.0	+2	+5.4
Printing and publishing:															
Book and job.....	99.7	+7	+1.4	85.9	-1.0	+2.9	30.07	-1.6	+1.5	37.9	-1.5	-3	80.8	-6	+1.9
Newspapers and periodicals.....	113.8	+3	+1.6	105.4	+1	+3.2	37.66	-2	+1.5	35.7	+3	+1.3	103.1	-2	+2.9
Chemical, petroleum, and coal products	119.4	+8	+9.3	134.8	+1.0	+13.3	30.16	+3	+3.6	38.7	+5	+1.1	77.8	-4	+2.7
Petroleum refining.....	122.7	-2	+(2)	137.4	+6	+1.1	34.94	+8	+1.2	35.8	+1.3	0	97.7	-4	+1.1
Other than petroleum refining.....	118.6	+1.0	+12.0	134.0	+1.2	+17.8	28.34	+2	+5.1	39.8	+3	+1.1	70.7	-2	+5.0
Chemicals.....	141.6	+8	+18.9	171.0	+1.2	+25.5	32.18	+4	+4.5	40.3	+4	+1.2	80.6	+1	+4.4
Cottonseed—oil, cake, and meal.....	52.4	+15.5	-7.7	48.5	+11.8	+2.3	14.67	-3.2	+10.8	41.8	-1.0	+8	33.5	-1.1	+10.7
Druggists' preparations.....	114.6	+8	+4.3	127.4	+2.1	+5.1	25.13	+1.2	+7	39.5	-1.3	-1.7	61.5	+9	+3.5
Explosives.....	139.9	+5.4	+50.1	172.1	+3.2	+57.7	33.70	-2.1	+5.1	40.6	-9	+1.2	82.8	-1.3	+3.8
Fertilizers.....	81.1	+1.7	+9.8	70.7	+1.5	+12.8	16.14	+1	+1.1	34.6	-2.1	-1.9	46.6	+2.2	+4.7
Paints and varnishes.....	123.5	-9	+1.1	132.1	-2	+5.2	29.28	+7	+3.0	40.6	+6	+1.0	72.0	-1	+1.8
Rayon and allied products.....	307.7	+2	+20.6	318.0	+1.1	+29.0	26.53	+8	+6.9	39.4	+1.4	+2.6	67.2	-6	+4.3
Soap.....	83.6	+2.8	-2.7	101.8	+1.9	-5	28.68	-3	+3.1	40.3	-3	+1.4	71.2	+(2)	+1.6
Rubber products	85.8	+2.8	+3.9	87.8	+3.1	+1.7	27.98	+3	-2.1	36.3	+1.5	-2.5	77.9	-7	+1.0
Rubber boots and shoes.....	54.7	+2.1	-6.5	57.2	+12.9	-2.0	24.12	+10.6	+4.8	38.4	+8.0	+3.3	62.5	+2.4	+1.6
Rubber tires and inner tubes.....	70.5	+1.7	+3.3	76.3	-1.4	-3.3	31.64	-3.1	-6.2	33.0	-2.4	-6.9	96.0	-1.1	+5
Rubber goods, other.....	143.3	+4.0	+7.8	141.9	+7.6	+11.7	24.10	+3.4	+3.5	39.3	+3.4	+3	62.2	-1	+3.0

See footnotes at end of table.

TABLE 5.—*Employment, Pay Rolls, Hours, and Earnings in Manufacturing and Nonmanufacturing Industries, August 1940—Continued*

NONMANUFACTURING

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

Industry	Employment			Pay rolls			Average weekly earnings			Average hours worked per week			Average hourly earnings		
	Index August 1940	Percentage change from—		Index August 1940	Percentage change from—		August 1940	Percentage change from—		August 1940	Percentage change from—		August 1940	Percentage change from—	
		July 1940	August 1939		July 1940	August 1939		July 1940	August 1939		July 1940	August 1939		July 1940	August 1939
Coal mining:													<i>Cents</i>		
Anthracite ⁴	50.3	-1.0	+3.9	33.1	-9.3	-2.1	\$21.63	-8.5	-5.8	24.2	-8.5	+1.1	91.8	-0.1	-1.2
Bituminous ⁴	86.6	+2.0	+6.5	83.3	+10.8	+11.6	25.37	+8.6	+4.8	28.7	+7.6	+4.8	88.1	+2	+8
Metalliferous mining.....	71.5	+7	+18.3	69.1	+8.5	+30.4	30.10	+7.7	+10.2	41.4	+6.7	+3.9	73.1	+9	+6.2
Quarrying and nonmetallic mining.....	48.8	+1.4	+1.4	45.0	+3.5	+4.9	23.03	+2.0	+3.5	40.7	+2.6	-1	56.6	-4	+4.1
Crude-petroleum production.....	63.4	-5	-4.9	59.1	-1	-4.8	34.11	+4	+2	38.4	+6	-1.5	87.2	-2	+1.6
Public utilities:															
Telephone and telegraph ^{5 6}	78.6	-2	+2.7	100.8	-5	+4.6	31.47	-3	+1.9	39.5	+1	-5	80.1	-4	+1.0
Electric light and power ^{5 6}	92.9	+7	+2.6	107.6	+1.7	+5.3	35.29	+1.0	+2.7	40.4	+2.1	+1.2	87.3	-1.6	+1.0
Street railways and busses ^{5 6 7}	68.4	-(2)	-1.1	70.3	+4	+6	33.77	+4	+1.8	46.1	+7	+8	72.3	-1	+1.5
Trade:															
Wholesale ^{8 9}	90.0	+9	+1.1	78.7	+5	+3.3	30.25	-4	+2.2	41.3	+6	-1.8	73.2	-1.0	+3.7
Retail ^{8 9}	88.4	-8	+2.4	81.3	-1.6	+4.2	21.54	-8	+1.8	43.0	-(2)	(9)	54.5	-7	(9)
Food ⁶	102.9	-7	+1.4	95.9	-1	+3.8	23.96	+5	+2.4	43.9	-(2)	(9)	52.9	+1	(9)
General merchandising ^{8 9}	88.9	-1.6	+3.0	81.1	-3.5	+3.2	17.94	-1.9	+1	38.0	-1.2	(9)	47.4	-4	(9)
Apparel ⁶	72.9	-2.9	+1.1	68.3	-3.5	+2.2	21.91	-6	+1.2	39.0	+5	(9)	55.2	-1.1	(9)
Furniture ⁶	74.8	-1.3	-3.0	66.1	-1.0	-5	27.18	+3	+2.7	44.0	+7	(9)	69.0	-1.4	(9)
Automotive ⁶	86.1	-8	+6.2	79.8	-3.0	+10.8	27.87	-2.2	+4.4	47.1	-1	(9)	59.3	-2.1	(9)
Lumber ⁶	75.6	0	+1.7	72.4	+7	+4.0	26.83	+7	+2.2	42.8	+2	(9)	63.0	+4	(9)
Hotels (year-round) ^{4 5 10}	90.6	+3	+9	80.9	+4	+2.1	15.44	+1	+1.3	46.6	-2	-1	33.0	+4	+2.4
Laundries ⁴	102.8	+3	+3.7	90.6	+7	+5.4	18.02	+3	+1.7	43.0	+1	-2	42.2	+1	+1.8
Dyeing and cleaning ⁴	105.9	-2.1	+3.1	78.0	-2.4	+6.9	20.05	-4	+3.6	42.7	+4	+2.7	48.4	-5	+9
Brokerage ⁸	(9)	-2.7	-1.3	(9)	-5.4	-4.5	35.35	-2.7	-3.2	(9)	(9)	(9)	(9)	(9)	(9)
Insurance ⁸	(9)	+2	+1.8	(9)	-3	+3.4	36.26	-5	+1.6	(9)	(9)	(9)	(9)	(9)	(9)
Building construction.....	(9)	+5.2	+15.6	(9)	+6.7	+20.0	32.47	+1.4	+3.7	34.1	+8	+1.8	95.6	+6	+1.9

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

² Less than $\frac{1}{10}$ of 1 percent.

³ Average hourly earnings not comparable with previously published averages because of expansion in reporting sample.

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

⁵ Average weekly earnings, hourly earnings, and hours not comparable with figures published in EMPLOYMENT AND PAY ROLLS pamphlets prior to January 1938 as they now

exclude corporation officers, executives, and other employees whose duties are mainly supervisory.

⁶ Retail-trade indexes adjusted to 1935 census and public-utility indexes to 1937 census. Not comparable to indexes published in EMPLOYMENT AND PAY ROLLS pamphlets prior to January 1940 or in MONTHLY LABOR REVIEW prior to April 1940. Comparable series for earlier months available upon request.

⁷ Covers street railways and trolley and motorbus operations of subsidiary, affiliated, and successor companies; formerly "electric-railroad and motorbus operation and maintenance."

⁸ Indexes adjusted to 1933 census. Comparable series in November 1934 and subsequent issues of this pamphlet.

⁹ Not available.

¹⁰ Cash payments only; value of board, room, and tips not included.

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

MANUFACTURING

[Indexes are based on 3-year average, 1923-25=100, and are adjusted to 1937 Census of Manufactures for all industries except automobiles. Not comparable 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		
	August 1940	July 1940	June 1940	August 1940	July 1940	June 1940	August 1940	July 1940	June 1940	August 1940	July 1940	June 1940	August 1940	July 1940	June 1940
All manufacturing	103.6	99.5	99.4	103.8	96.5	97.9	\$26.10	\$25.25	\$25.79	38.4	37.3	37.5	Cents 66.7	Cents 66.7	Cents 67.2
Durable goods	99.5	95.6	97.0	105.0	96.1	100.0	29.98	28.52	29.48	39.8	37.9	38.7	72.8	72.7	73.2
Nondurable goods	107.6	103.3	101.7	102.5	97.1	95.6	22.10	21.87	21.81	37.2	36.7	36.4	61.3	61.5	61.7
<i>Durable goods</i>															
Iron and steel and their products, not including machinery	110.7	106.2	103.7	113.5	104.3	102.8	30.24	28.89	29.30	38.8	37.2	37.6	77.7	77.7	77.4
Blast furnaces, steel works, and rolling mills	122.1	119.0	114.3	124.8	116.2	113.9	32.25	30.75	31.53	38.1	36.4	37.1	85.0	84.9	84.9
Bolts, nuts, washers, and rivets	114.9	109.1	104.2	138.7	111.6	111.3	29.02	24.60	25.79	41.5	35.4	37.3	70.0	69.5	69.1
Cast-iron pipe	80.2	78.2	76.8	76.3	74.9	70.0	22.72	22.97	21.80	37.8	37.9	35.9	59.9	60.3	60.5
Cutlery (not including silver and plated cutlery) and edge tools	101.6	98.8	101.2	93.5	90.6	91.6	24.00	23.81	23.63	38.8	38.6	38.4	62.3	62.4	62.3
Forgings, iron and steel	72.7	67.8	66.0	86.2	77.6	74.1	31.97	30.90	30.48	40.6	39.4	39.1	79.3	78.7	78.1
Hardware	96.4	82.9	81.6	107.2	85.7	85.8	27.36	25.45	25.85	39.2	37.3	38.0	70.1	68.3	68.0
Plumbers' supplies	86.7	84.3	82.9	79.9	74.2	73.0	26.97	25.63	25.70	38.7	36.6	36.8	69.7	70.1	70.0
Stamped and enameled ware	163.7	152.4	152.7	181.7	166.1	162.6	26.43	25.93	25.34	39.9	38.6	38.3	65.7	67.2	65.7
Steam and hot-water heating apparatus and steam fittings	89.7	84.2	85.1	84.6	78.0	76.6	28.80	28.25	27.47	40.3	39.8	39.2	71.6	71.1	70.3
Stoves	97.7	91.8	92.6	89.1	81.3	82.7	26.10	25.21	25.49	38.6	37.4	37.3	67.8	67.7	68.4
Structural and ornamental metalwork	79.9	76.0	73.5	72.9	67.6	64.8	29.51	28.87	28.56	40.1	39.0	38.6	73.6	73.8	74.1
Tin cans and other tinware	108.1	105.9	102.8	121.9	113.4	113.5	25.61	24.38	25.04	40.4	39.1	39.8	63.9	62.7	63.2
Tools (not including edge tools, machine tools, files, and saws)	95.6	94.0	91.6	95.6	91.7	88.6	25.22	24.60	24.42	39.8	39.0	38.9	63.4	63.1	62.8
Wirework	146.2	136.2	152.1	163.4	140.8	161.0	28.07	25.96	26.48	39.6	37.1	37.5	71.0	70.0	70.7
Machinery, not including transportation equipment	119.2	118.1	115.1	131.0	125.7	125.1	30.67	30.29	30.41	41.2	40.5	40.8	74.5	74.4	74.3
Agricultural implements (including tractors)	131.2	130.6	137.3	152.0	148.9	157.8	30.87	30.42	30.74	38.6	38.3	38.6	80.1	79.5	79.8
Cash registers, adding machines, and calculating machines	128.7	129.6	130.4	135.9	135.6	138.0	33.11	32.92	33.32	40.2	40.0	40.4	82.7	82.7	83.0
Electrical machinery, apparatus, and supplies	106.6	103.8	103.3	123.7	118.1	118.3	30.92	30.14	30.52	40.7	39.8	40.2	76.5	76.5	76.4
Engines, turbines, water wheels, and windmills	175.2	167.5	158.1	238.9	223.8	210.7	35.85	35.14	35.05	44.2	43.7	43.8	81.0	80.3	80.3
Foundry and machine-shop products	100.5	98.0	96.9	101.2	96.3	95.8	30.12	29.84	29.41	41.0	40.1	40.4	73.3	73.0	72.8
Machine tools	237.5	234.8	229.1	302.9	307.8	302.9	35.48	36.45	36.68	46.7	47.5	47.9	76.0	76.8	76.6
Radios and phonographs	157.1	143.4	141.0	149.8	138.5	134.0	23.49	23.90	23.61	38.5	38.6	38.5	61.1	62.1	61.4
Textile machinery and parts	76.4	77.0	79.0	73.5	73.4	74.1	26.30	26.13	25.70	39.6	39.2	39.4	66.9	66.8	65.4
Typewriters and parts	118.0	114.3	111.0	125.4	116.9	112.1	26.04	25.05	24.75	39.7	38.5	37.7	65.6	65.1	65.6

Transportation equipment.....	102.6	97.5	112.3	113.1	96.4	118.8	35.31	31.88	34.21	39.9	36.2	38.1	89.7	89.1	90.5
Aircraft.....	2,890.9	2,703.3	2,518.7	3,014.2	2,635.4	2,514.0	32.60	30.48	31.18	44.6	42.0	42.7	74.7	73.8	74.2
Automobiles.....	86.4	82.3	104.9	97.5	80.5	112.0	37.05	32.24	35.28	38.8	34.0	37.0	95.5	94.8	95.4
Cars, electric- and steam-railroad.....	50.7	50.6	51.2	46.8	42.7	45.3	28.94	26.43	27.68	38.4	35.0	36.7	75.5	75.5	75.3
Locomotives.....	33.0	31.1	29.1	32.8	31.3	28.5	30.47	30.99	30.12	39.0	39.1	38.2	78.2	79.2	78.9
Shipbuilding.....	181.0	170.1	162.8	211.6	193.4	185.8	34.86	34.03	34.17	40.3	39.3	39.2	86.7	86.2	86.9
Nonferrous metals and their products.....	113.8	108.9	106.6	117.0	105.8	105.8	28.18	27.12	27.25	40.1	38.6	39.0	70.3	70.1	70.2
Aluminum manufactures.....	189.2	181.1	176.5	224.5	194.1	204.3	28.91	26.05	28.20	40.1	36.5	39.7	72.0	71.4	71.0
Brass, bronze, and copper products.....	138.4	129.7	127.1	160.8	146.2	140.8	31.42	30.46	29.95	41.4	40.4	39.8	76.2	75.7	75.5
Clocks and watches and time-recording devices.....	95.2	90.1	91.1	101.4	91.1	92.2	23.67	22.42	22.44	39.6	37.6	37.5	59.7	59.5	59.8
Jewelry.....	99.3	93.2	91.2	82.9	75.8	76.3	23.32	22.71	23.35	39.5	38.1	38.7	58.0	58.1	59.5
Lighting equipment.....	87.7	76.8	83.9	76.5	64.4	70.0	27.17	26.13	26.19	39.1	37.7	36.9	69.4	69.3	70.9
Silverware and plated ware.....	68.8	63.1	68.3	60.5	51.2	55.9	25.33	23.39	23.58	38.9	36.3	36.5	64.8	64.6	64.7
Smelting and refining—copper, lead, and zinc.....	91.4	89.0	87.2	88.8	86.8	85.7	27.17	27.29	27.57	38.2	38.2	38.7	71.2	71.5	71.3
Lumber and allied products.....	71.3	68.2	68.3	68.3	60.7	63.6	20.81	19.37	20.17	40.1	37.0	38.5	51.7	51.9	52.3
Furniture.....	91.1	87.7	88.1	81.8	74.3	75.9	21.49	20.28	20.67	39.5	37.1	38.1	54.8	55.0	54.8
Lumber:															
Millwork.....	64.3	62.6	61.5	52.5	48.8	48.5	22.61	21.66	21.82	41.6	39.7	40.2	55.0	54.8	54.5
Sawmills.....	64.9	61.5	61.9	62.2	53.9	58.1	19.79	18.02	19.32	40.1	36.4	38.3	49.3	49.6	50.5
Stone, clay, and glass products.....	84.5	82.4	82.9	76.7	71.1	73.4	24.81	23.49	24.20	37.0	35.5	36.3	66.8	66.5	66.4
Brick, tile, and terra cotta.....	64.4	64.1	63.1	53.6	51.8	51.1	21.34	20.72	20.74	38.1	37.1	37.4	55.6	55.3	55.1
Cement.....	74.5	72.0	72.4	72.6	68.4	69.9	27.94	27.12	27.42	38.8	37.9	38.9	71.6	71.5	70.4
Glass.....	106.9	103.3	104.9	116.0	105.2	111.0	26.56	24.91	25.89	35.9	33.8	35.1	74.3	74.2	74.0
Marble, granite, slate, and other products.....	48.6	47.5	48.5	36.6	34.2	35.6	26.53	25.33	25.84	36.4	34.7	34.9	73.6	73.7	74.4
Pottery.....	90.9	87.3	89.5	79.8	71.0	75.8	22.17	20.53	21.52	36.0	34.6	35.4	64.2	63.7	64.0
<i>Nondurable goods</i>															
Textiles and their products.....	99.8	94.5	93.7	87.4	77.7	75.4	17.64	16.85	16.43	34.9	33.8	33.5	51.2	50.2	49.6
Fabrics.....	90.4	88.0	85.7	80.9	76.4	72.5	17.15	16.71	16.24	35.7	34.8	34.1	48.6	48.6	48.4
Carpets and rugs.....	71.4	70.8	70.2	58.7	54.0	54.6	22.78	21.11	21.55	33.8	31.7	32.4	67.4	66.5	66.6
Cotton goods.....	88.7	88.0	86.9	80.0	78.2	74.7	14.67	14.43	13.92	35.5	34.9	34.0	41.0	41.2	41.0
Cotton small wares.....	76.7	74.0	73.8	72.6	69.2	66.8	18.36	18.12	17.54	37.1	37.0	36.3	49.5	49.0	48.7
Dyeing and finishing textiles.....	121.5	116.1	115.7	101.8	95.0	93.0	20.53	20.05	19.67	37.1	36.4	35.5	54.6	54.6	54.9
Hats, fur-felt.....	86.5	82.9	71.2	83.1	78.4	57.5	26.17	25.84	22.08	36.6	35.9	31.6	74.5	75.0	72.4
Hosiery.....	136.2	131.2	130.2	144.2	129.5	127.9	18.73	17.60	17.52	33.8	31.8	32.2	55.4	55.8	55.3
Knitted outerwear.....	70.3	66.1	63.1	59.9	53.8	50.6	17.88	17.07	16.99	37.0	35.9	35.8	47.6	47.2	47.1
Knitted underwear.....	73.1	72.4	72.8	65.5	63.0	63.6	15.24	14.63	14.68	35.0	34.3	34.4	43.6	43.4	43.0
Knitted cloth.....	147.5	136.3	128.0	129.4	117.1	107.2	19.73	19.34	18.76	39.7	39.0	37.0	49.4	49.3	50.0
Silk and rayon goods.....	63.0	60.5	59.7	51.4	46.6	45.6	16.77	15.82	15.78	36.8	34.3	34.2	45.5	45.8	45.8
Woolen and worsted goods.....	86.9	83.3	75.7	77.9	73.8	65.4	20.60	20.44	19.87	36.5	36.4	35.3	56.5	56.3	56.3
Wearing apparel.....	116.8	104.9	107.9	94.8	75.6	76.6	18.95	17.26	16.96	33.5	31.9	32.5	55.8	53.4	51.8
Clothing, men's.....	107.5	103.2	98.6	82.0	76.7	71.1	19.72	19.29	18.69	32.8	32.2	32.3	60.1	59.8	58.1
Clothing, women's.....	164.3	137.3	148.1	129.1	89.0	95.1	20.93	17.27	17.22	34.0	31.6	32.7	57.1	52.0	49.6
Corsets and allied garments.....	109.7	102.5	111.9	108.4	99.7	109.2	16.38	16.11	16.16	33.7	34.2	34.0	48.7	47.2	46.6
Men's furnishings.....	116.6	109.8	109.7	113.9	97.7	94.9	15.10	13.75	13.36	33.8	31.7	31.9	43.1	41.8	41.1
Millinery.....	73.3	54.5	65.7	64.7	36.5	47.1	26.14	19.84	21.08	34.7	29.2	31.6	67.4	64.8	68.5
Shirts and collars.....	117.1	110.6	115.1	102.1	87.8	92.0	13.96	12.71	12.84	33.6	32.0	32.1	41.9	40.9	40.7

See footnotes at end of table.

TABLE 6.—*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		
	August 1940	July 1940	June 1940	August 1940	July 1940	June 1940	August 1940	July 1940	June 1940	August 1940	July 1940	June 1940	August 1940	July 1940	June 1940
<i>Nondurable goods—Continued</i>															
Leather and its manufactures.....	92.0	91.6	86.8	77.1	76.4	67.0	\$19.90	\$19.80	\$18.17	35.8	35.9	33.2	<i>Cents</i> 55.4	<i>Cents</i> 55.3	<i>Cents</i> 55.3
Boots and shoes.....	91.1	90.7	84.8	75.1	74.6	62.7	18.97	18.92	17.00	35.4	35.7	32.3	53.4	53.2	53.1
Leather.....	80.3	80.1	80.1	77.0	76.0	75.7	23.96	23.69	23.56	37.3	36.7	36.9	64.4	64.6	64.2
Food and kindred products.....	146.0	135.5	129.7	139.2	131.4	129.0	24.17	24.33	25.54	40.4	39.9	40.1	61.5	62.5	64.1
Baking.....	146.6	147.1	147.0	140.1	142.1	140.8	26.40	26.69	26.57	41.2	41.8	41.7	64.3	64.0	63.9
Beverages.....	299.1	300.3	301.5	357.1	352.8	375.6	34.99	34.41	36.52	40.1	39.3	41.6	88.4	88.1	88.7
Butter.....	103.2	104.6	105.0	89.4	89.9	90.8	23.10	22.93	23.04	47.7	47.4	47.7	48.2	47.7	47.6
Canning and preserving.....	264.8	179.9	140.5	250.6	146.7	117.2	18.14	15.69	16.05	39.6	36.3	34.3	² 46.5	² 43.7	² 47.0
Confectionery.....	79.8	73.6	74.7	77.1	69.2	72.3	19.01	18.48	18.98	36.7	35.7	36.8	51.8	51.9	51.6
Flour.....	79.6	80.0	77.6	76.4	75.8	72.3	25.92	25.59	25.13	42.0	41.9	41.2	61.4	61.0	60.9
Ice cream.....	91.1	92.1	92.0	78.0	78.1	77.9	29.97	29.66	29.63	46.6	46.0	46.6	63.5	63.5	62.5
Slaughtering and meat packing.....	106.8	111.1	108.2	112.3	117.6	114.7	27.57	27.76	27.82	39.8	40.3	40.2	69.1	68.9	69.1
Sugar, beet.....	89.2	57.7	52.9	87.5	55.5	54.2	25.40	24.88	26.55	38.4	35.8	37.1	67.3	71.8	73.6
Sugar refining, cane.....	98.3	101.1	98.3	85.4	91.4	88.7	24.44	25.45	25.37	37.3	39.3	38.9	65.6	64.7	65.2
Tobacco manufactures.....	64.4	62.4	64.9	62.3	62.3	66.9	17.79	18.36	18.98	36.1	36.8	38.1	49.2	50.2	50.5
Chewing and smoking tobacco and snuff.....	55.4	56.1	58.0	64.7	66.5	67.4	18.86	19.16	18.77	34.6	35.4	35.4	54.7	54.3	53.5
Cigars and cigarettes.....	65.5	63.2	65.7	61.9	61.7	66.7	17.57	18.19	19.03	36.2	36.9	38.4	48.6	49.4	50.1
Paper and printing.....	115.2	114.7	114.5	110.9	111.2	112.3	28.73	29.00	29.27	38.2	38.4	38.5	78.9	79.1	79.7
Boxes, paper.....	117.5	116.0	115.3	130.7	127.7	127.4	22.10	21.87	21.99	39.4	38.9	39.0	56.4	56.6	56.7
Paper and pulp.....	116.9	117.1	116.2	124.8	126.3	126.2	26.14	26.47	26.70	40.4	40.8	41.5	65.0	64.9	64.4
Printing and publishing:															
Book and job.....	99.7	99.0	97.1	85.9	86.7	85.1	30.07	30.57	30.59	37.9	38.4	37.9	80.8	81.3	82.0
Newspapers and periodicals.....	113.8	113.5	116.2	105.4	105.3	111.1	37.66	37.72	38.55	35.9	35.5	35.9	103.1	103.3	103.6
Chemical, petroleum, and coal products.....	119.4	118.5	119.0	134.8	133.4	133.2	30.16	30.12	30.08	38.7	38.5	38.5	77.8	78.3	77.7
Petroleum refining.....	122.7	122.9	123.2	137.4	136.6	137.1	34.94	34.73	34.84	35.8	35.3	35.7	97.7	98.6	98.3
Other than petroleum refining.....	118.6	117.4	118.0	134.0	132.4	132.0	28.34	28.27	28.09	39.8	39.7	39.6	70.7	70.9	70.2
Chemicals.....	141.6	140.4	138.3	171.0	168.9	165.2	32.18	31.95	32.08	40.3	40.2	40.0	80.6	80.4	80.2
Cottonseed—oil, cake, and meal.....	52.4	45.3	51.4	48.5	43.4	45.3	14.67	15.15	14.27	41.8	42.4	39.5	33.5	33.9	34.3
Druggists' preparations.....	114.6	113.7	115.8	127.4	124.8	126.1	25.13	24.91	24.71	39.5	40.1	38.3	61.5	61.2	61.1
Explosives.....	139.9	132.7	126.4	172.1	166.8	153.7	33.70	34.43	33.32	40.6	40.9	39.9	82.8	83.9	83.6
Fertilizers.....	81.1	79.8	88.5	70.7	69.7	78.4	16.14	16.05	15.99	34.6	35.2	36.1	46.6	45.6	44.3
Paints and varnishes.....	123.5	124.6	126.4	132.1	132.4	136.2	29.28	29.13	29.55	40.6	40.4	41.2	72.0	72.1	71.7
Rayon and allied products.....	307.7	306.9	306.0	318.0	314.7	314.3	26.53	26.32	26.36	39.4	38.9	39.1	67.2	67.6	67.5
Soap.....	83.6	81.3	81.5	101.8	99.9	100.4	28.68	28.77	28.85	40.3	40.4	40.4	71.2	71.2	71.5

Rubber products.....	85.8	83.5	83.4	87.8	85.2	86.4	27.98	27.90	28.27	36.3	35.7	36.4	77.9	78.5	78.0
Rubber boots and shoes.....	54.7	53.6	54.9	57.2	50.7	56.2	24.12	21.81	23.50	38.4	35.5	38.3	62.5	61.0	61.4
Rubber tires and inner tubes.....	70.5	69.3	68.5	76.3	77.4	77.5	31.64	32.66	33.11	33.0	33.8	34.3	96.0	97.1	96.7
Rubber goods, other.....	143.3	137.8	138.4	141.9	131.9	133.1	24.10	23.30	23.42	39.3	38.0	38.2	62.2	62.2	61.9

NONMANUFACTURING

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

Coal mining:															
Anthracite ³	50.3	50.8	50.2	33.1	36.5	40.6	\$21.63	\$23.63	\$26.63	24.2	26.5	29.3	91.8	91.8	92.2
Bituminous ³	86.6	84.9	83.8	83.3	75.2	73.9	25.37	23.36	23.48	28.7	26.6	26.8	88.1	88.0	88.7
Metalliciferous mining.....	71.5	71.0	70.3	69.1	63.7	65.4	30.10	27.95	28.95	41.4	38.7	40.1	73.1	72.4	72.5
Quarrying and nonmetallic mining.....	48.8	48.1	47.9	45.0	43.5	43.9	23.03	22.57	22.89	40.7	39.7	40.2	56.6	56.9	56.7
Crude-petroleum production.....	63.4	63.7	63.8	59.1	59.1	58.8	34.11	33.97	33.74	38.4	38.2	37.4	87.2	87.4	88.3
Public utilities:															
Telephone and telegraph ^{4 5}	78.6	78.8	77.8	100.8	101.3	100.0	31.47	31.56	31.54	39.5	39.5	39.5	80.1	80.4	80.3
Electric light and power ^{4 5}	92.9	92.2	91.2	107.6	105.8	104.8	35.29	34.96	35.03	40.4	39.5	39.3	87.3	88.7	89.0
Street railways and busses ^{4 5 6}	68.4	68.4	68.5	70.3	70.0	70.5	33.77	33.62	33.80	46.1	45.8	46.3	72.3	72.4	72.3
Trade:															
Wholesale ^{4 7}	90.0	89.2	89.6	78.7	78.3	78.4	30.25	30.36	30.41	41.3	41.0	41.2	73.2	74.0	73.7
Retail ^{4 5}	88.4	89.1	91.9	81.3	82.6	84.8	21.54	21.71	21.51	43.0	43.0	42.9	54.5	54.9	54.8
Food ⁵	102.9	103.6	104.8	95.9	96.0	96.3	23.96	23.84	23.48	43.9	43.9	43.5	52.9	52.9	52.5
General merchandising ^{4 5}	88.9	90.3	96.2	81.1	84.0	89.3	17.94	18.29	18.20	38.0	38.4	38.9	47.4	47.6	46.9
Apparel ⁵	72.9	75.1	88.0	68.3	70.8	80.4	21.91	22.04	21.15	39.0	38.8	38.2	55.2	55.8	55.2
Furniture ⁵	74.8	75.4	77.4	66.1	66.6	70.2	27.18	28.00	30.12	44.0	43.8	44.1	69.0	69.9	70.9
Automotive ⁵	86.1	86.8	86.5	79.8	82.3	83.4	27.87	28.50	28.82	47.1	47.1	47.5	59.3	60.6	60.3
Lumber ⁵	75.6	75.6	75.1	72.4	71.9	71.4	26.83	26.64	26.58	42.8	42.8	42.7	63.0	62.8	62.6
Hotels (year-round) ^{3 4 5}	90.6	90.3	92.0	80.9	80.5	82.0	15.44	15.42	15.47	46.6	46.7	46.3	33.0	32.9	33.3
Laundries ³	102.8	102.5	102.1	90.6	90.0	92.4	18.02	17.96	18.51	43.0	43.0	43.9	42.2	42.1	42.2
Dyeing and cleaning ³	105.9	108.2	112.6	78.0	80.0	89.6	20.05	20.13	21.57	42.7	42.5	45.0	48.4	48.6	49.1
Brokerage ^{4 9}	-2.7	-1.6	-2	-5.4	-3.5	-1.6	35.35	36.34	36.73	(10)	(10)	(10)	(10)	(10)	(10)
Insurance ^{4 9}	+2	+9	+4	-3	+1	-2	36.26	36.45	36.90	(10)	(10)	(10)	(10)	(10)	(10)
Building construction ⁹	+5.2	+5.9	+5.1	+6.7	+5.2	+5.0	32.47	31.78	31.94	34.1	33.6	33.8	95.6	94.7	94.8

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

² Average hourly earnings not comparable with previously published averages because of expansion in reporting sample.

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

⁴ Average weekly earnings, hourly earnings, and hours not comparable with figures published in pamphlets prior to January 1938 as they now exclude corporation officers, executives, and other employees whose duties are mainly supervisory.

⁵ Retail-trade indexes adjusted to 1935 census and public-utility indexes to 1937 census. Not comparable to indexes published in EMPLOYMENT AND PAY ROLLS pamphlets prior to January 1940 or in MONTHLY LABOR REVIEW prior to April 1940.

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

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

⁸ Cash payments only; additional value of board, room, and tips not included.

⁹ Indexes of employment and pay rolls are not available; percentage changes from preceding month substituted.

¹⁰ Not available.

TABLE 7.—*Indexes of Employment and Pay Rolls in Selected Manufacturing¹ and Non-manufacturing² Industries, August 1939 to August 1940, Inclusive*

Industry	Employment															
	1939								1940							
	Av.	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.		
<i>Manufacturing</i>																
All industries	96.8	96.3	100.2	103.6	103.8	104.1	101.4	101.4	100.8	99.6	99.0	99.4	99.5	103.6		
Durable goods ³	87.8	83.9	89.8	96.1	98.2	100.0	97.4	96.6	96.4	96.0	96.5	97.0	95.6	99.5		
Nondurable goods ⁴	105.5	108.1	110.2	110.8	109.2	108.0	105.3	106.1	105.1	103.0	101.4	101.7	103.3	107.6		
<i>Nonmanufacturing</i>																
Anthracite mining ⁵	50.6	48.5	49.4	51.9	51.3	51.0	51.5	52.0	52.6	51.6	52.2	50.2	50.8	50.3		
Bituminous-coal mining ⁵	78.6	81.4	85.4	93.0	94.9	92.6	91.8	91.7	89.7	86.2	85.1	83.8	84.9	86.6		
Metalliferous mining	62.7	60.4	62.9	65.3	66.5	67.3	66.4	66.3	66.2	67.7	69.2	70.3	71.0	71.5		
Quarrying and nonmetallic mining	44.6	48.1	47.9	48.0	47.1	44.0	37.8	38.3	41.0	44.5	46.9	47.9	48.1	48.8		
Crude-petroleum production	65.8	66.7	65.0	64.3	63.8	63.8	63.2	63.0	63.2	63.1	63.3	63.8	63.7	63.4		
Telephone and telegraph ⁶	75.8	76.6	76.4	76.5	76.1	75.8	76.1	75.9	76.0	76.7	77.3	77.8	78.8	78.6		
Electric light and power ⁶	89.0	90.6	90.6	90.4	90.3	90.1	89.1	89.2	89.3	90.0	90.6	91.2	92.2	92.9		
Street railways and busses ⁷	69.0	69.2	69.2	69.5	69.3	69.0	68.8	68.7	68.2	68.3	68.4	68.5	68.4	68.4		
Wholesale trade	89.2	89.0	90.5	92.4	92.1	92.2	90.6	90.2	90.5	89.3	88.9	89.6	89.2	90.0		
Retail trade ⁸	89.8	86.3	90.5	91.7	93.3	104.2	87.7	87.0	91.1	89.8	91.2	91.9	89.1	88.4		
Year-round hotels ⁹	92.0	89.8	91.3	92.9	91.8	90.8	91.3	92.1	92.0	92.7	93.4	92.0	90.3	90.6		
Laundries ⁹	95.9	99.1	97.8	96.0	95.6	95.6	96.0	95.8	96.2	97.2	99.1	102.1	102.5	102.8		
Dyeing and cleaning ⁹	101.3	102.7	105.2	105.1	97.8	97.4	94.0	93.7	99.5	104.5	108.7	112.6	108.2	105.9		
<i>Pay rolls</i>																
<i>Manufacturing</i>																
All industries	90.8	89.7	93.8	101.6	101.6	103.7	98.3	97.8	98.2	96.3	96.3	97.9	96.5	103.8		
Durable goods ³	85.2	81.5	87.8	99.6	100.9	104.6	98.2	96.7	97.6	97.2	97.5	100.0	96.1	105.0		
Nondurable goods ⁴	97.0	99.0	100.5	103.9	102.4	102.8	98.4	99.1	99.0	95.4	94.9	95.6	97.1	102.5		
<i>Nonmanufacturing</i>																
Anthracite mining ⁵	39.5	33.8	40.1	52.2	42.0	26.6	52.5	32.9	38.4	36.3	40.0	40.6	36.5	33.1		
Bituminous-coal mining ⁵	69.9	74.6	80.2	97.6	96.3	84.3	87.0	87.0	78.3	72.2	75.3	73.9	75.2	83.3		
Metalliferous mining	56.0	53.0	55.1	63.4	63.9	65.0	63.6	64.2	63.2	63.5	65.7	65.4	63.7	69.1		
Quarrying and nonmetallic mining	38.7	42.9	42.7	45.6	42.9	39.2	29.6	30.8	34.1	38.1	42.7	43.9	43.5	45.0		
Crude-petroleum production	61.0	62.0	60.8	58.8	59.6	59.2	58.4	59.0	58.4	59.0	58.7	58.8	59.1	59.1		
Telephone and telegraph ⁶	95.6	96.3	96.9	97.2	96.4	97.4	97.4	96.9	98.1	98.7	98.8	100.0	101.3	100.8		
Electric light and power ⁶	100.4	102.2	102.2	102.0	102.5	102.4	101.6	102.2	102.3	103.3	104.2	104.8	105.8	107.6		
Street railways and busses ⁷	69.5	69.8	69.2	71.2	69.4	69.8	69.0	71.5	69.5	69.2	69.2	70.5	70.0	70.3		
Wholesale trade	76.6	76.2	78.0	80.3	79.0	79.1	77.1	77.1	77.8	77.4	77.4	78.4	78.3	78.7		
Retail trade ⁸	80.8	78.0	80.9	83.2	83.6	91.8	79.9	79.1	82.0	82.3	83.4	84.8	82.6	81.3		
Year-round hotels ⁹	81.2	79.2	80.4	82.2	81.8	81.1	81.1	82.7	81.8	83.2	83.0	82.0	80.5	80.9		
Laundries ⁹	83.1	85.9	84.5	83.9	82.9	83.7	83.4	83.1	84.1	85.6	88.5	92.4	90.0	90.6		
Dyeing and cleaning ⁹	73.6	73.0	78.3	77.3	70.8	69.9	65.5	64.4	72.7	79.6	85.4	89.6	80.0	78.0		

¹ 3-year average 1923-25=100—adjusted to 1937 Census of Manufactures.

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 and 6.

³ Indexes: 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.

⁶ Retail-trade indexes adjusted to 1935 census and public-utility indexes to 1937 census. Not comparable with indexes published in *EMPLOYMENT AND PAY ROLLS* pamphlets prior to January 1940 or in *MONTHLY LABOR REVIEW* prior to April 1940. Comparable series January 1929 to December 1939 available in mimeographed form.

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

INDUSTRIAL AND BUSINESS EMPLOYMENT IN PRINCIPAL METROPOLITAN AREAS

A comparison of employment and pay rolls in July and August 1940 is made in table 8 for 13 metropolitan areas, each of which had a population of 500,000 or over in 1930. Cities within these areas but having a population of 100,000 or over are not included. Footnotes to the table specify which cities are excluded. Data concerning them have been prepared in a supplementary tabulation which is available on request. The figures represent reports from cooperating establishments and cover both full- and part-time workers in the manufacturing and nonmanufacturing industries presented in table 3, with the exception of building construction, and include also miscellaneous industries.

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

TABLE 8.—*Comparison of Employment and Pay Rolls in Identical Establishments in July and August 1940, by Principal Metropolitan Areas*

Metropolitan area	Number of establishments August 1940	Number on pay roll August 1940	Percentage change from July 1940	Amount of pay roll (1 week) August 1940	Percentage change from July 1940
New York ¹	14,467	792,402	+2.4	\$22,836,295	+4.1
Chicago ²	4,388	474,528	+1.1	13,687,299	+2.0
Philadelphia ³	2,481	256,328	+3.5	7,188,641	+3.4
Detroit	1,668	293,490	+4.7	10,480,770	+12.9
Los Angeles ⁴	3,014	184,359	+3.1	5,604,841	+5.7
Cleveland	1,351	129,965	+3.1	3,965,005	+7.3
St. Louis	1,376	118,716	-2	3,007,531	+1.5
Baltimore	1,153	119,692	+1.1	3,088,781	+9
Boston ⁵	2,970	182,708	+1.2	4,683,609	+2.3
Pittsburgh	1,296	214,496	+2.1	6,564,495	+6.8
San Francisco ⁶	1,828	114,012	+9.7	3,528,550	+11.1
Buffalo	1,105	82,872	+1.9	2,415,674	+3.0
Milwaukee	992	105,587	+2.8	3,081,137	+3.9

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

² Does not include Gary, Ind.

³ Does not include Camden, N. J.

⁴ Does not include Long Beach, Calif.

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

⁶ Does not include Oakland, Calif.

WAGE-RATE CHANGES IN AMERICAN INDUSTRIES

The following table gives information concerning wage-rate adjustments occurring during the month ending August 15, 1940, as shown by reports received from manufacturing and nonmanufacturing establishments which supply employment data to this Bureau.

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

TABLE 9.—*Wage Rate Changes Reported by Manufacturing and Nonmanufacturing Establishments During Month Ending Aug. 15, 1940*¹

Group and industry	Total number of establishments reporting	Total number of employees covered	Number of establishments reporting—		Number of employees having—		Average percentage change in wage rates of employees having—	
			Wage-rate increases	Wage-rate decreases	Wage-rate increases	Wage-rate decreases	Increases	Decreases
All manufacturing.....	26, 203	4, 980, 486	169	-----	24, 677	-----	6. 6	-----
Iron and steel group.....	2, 134	762, 027	7	-----	876	-----	6. 6	-----
Structural metalwork.....	304	27, 350	3	-----	36	-----	8. 8	-----
Machinery group.....	3, 357	724, 481	16	-----	1, 844	-----	6. 2	-----
Electrical machinery.....	554	208, 529	5	-----	623	-----	6. 9	-----
Foundries and machine shops.....	2, 205	268, 002	9	-----	537	-----	7. 0	-----
Transportation equipment group.....	643	488, 542	5	-----	2, 105	-----	2. 7	-----
Nonferrous metals and products group.....	808	158, 936	5	-----	772	-----	8. 7	-----
Brass, bronze, and copper products.....	325	61, 678	4	-----	358	-----	12. 4	-----
Lumber and allied products group.....	1, 943	242, 584	8	-----	1, 665	-----	3. 5	-----
Millwork.....	574	35, 634	4	-----	789	-----	3. 6	-----
Stone, clay, and glass products group.....	1, 206	154, 609	5	-----	249	-----	4. 4	-----
Brick, tile, and terra cotta.....	535	39, 534	4	-----	93	-----	5. 0	-----
Fabrics group.....	2, 845	795, 156	8	-----	3, 010	-----	3. 5	-----
Woolen and worsted goods.....	421	131, 609	3	-----	1, 788	-----	3. 6	-----
Wearing apparel group.....	2, 831	294, 493	32	-----	3, 168	-----	17. 3	-----
Men's clothing.....	1, 121	130, 511	15	-----	1, 664	-----	17. 8	-----
Women's clothing.....	1, 071	81, 362	7	-----	517	-----	16. 8	-----
Men's furnishings.....	151	13, 247	3	-----	297	-----	13. 7	-----
Shirts and collars.....	275	50, 479	7	-----	690	-----	17. 9	-----
Food group.....	4, 382	466, 874	13	-----	801	-----	8. 3	-----
Baking.....	1, 059	79, 709	4	-----	260	-----	5. 2	-----
Beverages.....	638	43, 130	3	-----	101	-----	4. 3	-----
Paper group.....	3, 376	305, 125	28	-----	6, 238	-----	4. 2	-----
Paper boxes.....	665	41, 472	5	-----	262	-----	3. 9	-----
Paper and pulp.....	423	128, 674	18	-----	5, 917	-----	4. 2	-----
Newspapers.....	692	57, 412	5	-----	59	-----	11. 5	-----
Chemicals group.....	1, 594	238, 403	4	-----	761	-----	7. 1	-----
All nonmanufacturing (except building construction).....	68, 208	1, 931, 603	33	15	3, 141	905	3. 2	5. 1
Electric light and power.....	1, 409	138, 871	3	-----	127	-----	2. 0	-----
Natural gas distribution.....	400	10, 555	5	-----	873	-----	4. 0	-----
Street railways and busses.....	239	87, 974	4	-----	1, 637	-----	1. 5	-----
Wholesale trade.....	11, 636	248, 599	7	-----	80	-----	8. 4	-----
Retail trade.....	38, 224	615, 768	9	-----	66	-----	6. 4	-----

¹ As the Bureau's survey does not cover all establishments in an industry, and, furthermore, as some firms may have failed to report wage changes, the figures should not be construed as representing the total number of wage changes occurring. Figures are not given for some industries to avoid disclosure of information concerning individual establishments. They are, however, included, where practicable, in "all manufacturing," in "all nonmanufacturing," and in the various industry groups.

Public Employment

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

EXECUTIVE SERVICE OF THE FEDERAL GOVERNMENT

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

TABLE 10.—Employment and Pay Rolls for the Executive Service of the United States Government, August and July 1940¹

[Subject to revision]

Class	Employment			Pay rolls		
	August	July	Percent- age change	August	July	Percent- age change
Entire service:						
Total.....	1, 038, 229	² 1, 023, 552	+1. 4	\$159, 218, 015	² \$154, 787, 444	+2. 9
Regular appropriation.....	884, 988	874, 212	+1. 2	138, 417, 786	135, 224, 896	+2. 4
Emergency appropriation.....	50, 267	51, 745	-2. 9	6, 727, 484	6, 857, 883	-1. 9
Force-account.....	102, 974	97, 595	+5. 5	14, 072, 745	12, 704, 665	+10. 8
Inside the District of Columbia:						
Total.....	142, 821	138, 453	+3. 2	24, 881, 086	24, 209, 496	+2. 8
Regular appropriation.....	125, 740	123, 241	+2. 0	22, 158, 997	21, 776, 931	+1. 8
Emergency appropriation.....	7, 969	8, 004	- . 4	1, 242, 759	1, 228, 234	+1. 2
Force-account.....	9, 112	7, 208	+26. 4	1, 479, 330	1, 204, 331	+22. 8
Outside the District of Columbia:						
Total.....	895, 408	885, 099	+1. 2	134, 336, 929	130, 577, 948	+2. 9
Regular appropriation.....	759, 248	750, 971	+1. 1	116, 258, 789	113, 447, 965	+2. 5
Emergency appropriation.....	42, 298	43, 741	-3. 3	5, 484, 725	5, 629, 649	-2. 6
Force-account.....	93, 862	90, 387	+3. 8	12, 593, 415	11, 500, 334	+9. 5

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

² Revised.

CONSTRUCTION PROJECTS FINANCED BY THE PUBLIC WORKS ADMINISTRATION

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

TABLE 11.—Employment and Pay Rolls on Projects Financed from Public Works Administration Funds, August 1940 ¹
 [Subject to revision]

Type of project	Employment		Monthly pay rolls	Man-hours worked during month	Average earnings per hour	Value of material orders placed during month
	Maximum ²	Weekly average				
All programs.....	58,303	49,222	\$6,484,992	6,695,701	\$0.969	\$9,673,380
Federal projects financed from National Industrial Recovery Act funds						
All projects.....	³ 955	827	\$76,486	135,618	\$0.564	\$113,546
Building construction.....	556	481	46,399	87,853	.528	78,137
Public roads ⁴	(⁵) 201	201	13,570	22,164	.612	27,000
Reclamation.....	56	54	8,440	11,540	.731	2,210
River, harbor, and flood control.....	78	36	2,686	4,718	.569	3,248
Water and sewerage.....	31	22	1,270	3,333	.381	2,576
Miscellaneous.....	33	33	4,121	6,010	.686	375
Federal projects financed from Public Works Administration Appropriation Act 1938 funds						
All projects.....	5,829	5,161	\$637,362	714,537	\$0.892	\$1,225,680
Airport construction (exclusive of buildings).....	455	447	53,860	85,394	.631	59,225
Building construction.....	2,786	2,345	297,063	271,653	1.094	474,669
Electrification.....	443	426	34,706	45,618	.761	453,178
Reclamation.....	1,344	1,268	177,832	223,295	.796	146,049
River, harbor, and flood control.....	332	301	31,996	38,296	.835	34,599
Streets and roads.....	138	105	12,378	17,594	.704	37,183
Water and sewerage.....	90	74	6,380	5,371	1.188	7,406
Miscellaneous.....	149	124	12,848	14,771	.870	13,153
Professional, technical, and clerical.....	92	71	10,299	12,545	.821	218
Non-Federal projects financed from National Industrial Recovery Act funds						
All projects ⁶	1,544	1,307	\$160,029	155,607	\$1.028	\$515,549
Building construction ⁶	910	714	112,623	86,669	1.209	369,690
Streets and roads.....	370	347	29,197	42,071	.694	61,144
Railroads.....	14	14	7	14	.500	0
Miscellaneous.....	250	232	18,202	26,853	.678	84,715
Non-Federal projects financed from Emergency Relief Appropriation Act 1935, 1936, and 1937 funds						
All projects.....	6,023	5,462	\$682,614	856,972	\$0.797	\$675,620
Building construction.....	579	490	81,318	63,000	1.291	77,208
Electrification.....	1,015	887	83,488	114,948	.726	113,244
Heavy engineering.....	4,069	3,751	450,931	618,727	.743	453,387
Water and sewerage.....	360	334	57,877	60,207	.960	31,781
Non-Federal projects financed from Public Works Administration Appropriation Act 1938 funds						
All projects.....	43,952	36,465	\$4,928,501	4,832,967	\$1.020	\$7,142,985
Building construction.....	11,306	9,214	1,256,865	1,051,819	1.195	2,132,824
Electrification.....	815	622	93,332	81,692	1.142	503,680
Heavy engineering.....	9,979	8,420	1,274,930	1,189,075	1.072	1,410,972
Reclamation.....	378	340	52,449	58,679	.894	20,899
Streets and roads.....	11,450	9,272	1,033,221	1,262,881	.818	1,651,108
Water and sewerage.....	10,024	8,507	1,217,704	1,188,821	1.024	1,423,502

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

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

³ Includes weekly average for public roads.

⁴ Under the jurisdiction of the Public Roads Administration.

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

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

UNITED STATES HOUSING AUTHORITY

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

TABLE 12.—*Employment and Pay Rolls on Low-Rent Housing Projects Operated by the United States Housing Authority, August 1940*

[Subject to revision]

Geographic division	Employment		Monthly pay rolls	Man-hours worked during month	Average earnings per hour	Value of material orders placed during month
	Maximum ¹	Weekly average				
All divisions	50,695	42,980	\$5,602,339	5,886,784	\$0.952	\$7,496,845
New England	4,833	4,200	651,544	579,155	1.125	978,273
Middle Atlantic	10,141	8,594	1,469,759	1,146,054	1.282	1,860,266
East North Central	5,468	4,610	752,216	645,741	1.165	964,830
West North Central	537	422	57,029	63,764	.894	49,426
South Atlantic	11,978	10,075	1,041,027	1,398,473	.744	1,477,381
East South Central	8,731	7,234	755,403	965,474	.782	901,630
West South Central	5,783	5,034	537,412	703,312	.764	643,922
Mountain	710	542	76,534	65,175	1.174	214,154
Pacific	1,703	1,539	233,513	220,223	1.060	372,760
Outside continental United States ..	811	730	27,902	99,413	.281	34,203

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

WORK PROJECTS ADMINISTRATION PROGRAM

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

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

[Subject to revision]

Type of project	Employment		Monthly pay rolls	Man-hours worked during month	Average earnings per hour	Value of material orders placed during month
	Maximum ¹	Weekly average				
	Projects operated by Federal agencies					
All projects	70,841	64,995	\$2,768,053	6,688,049	\$0.414	\$476,036
Airport construction (exclusive of buildings)	5,751	5,751	53,744	298,018	.180	1,380
Building construction	33,009	30,374	1,448,333	3,255,718	.445	282,435
Forestry	6,456	6,313	262,500	639,186	.411	21,429
Grade-crossing elimination ²	159	134	10,860	16,509	.658	35,222
Hydroelectric power plants ³	881	446	16,516	61,833	.267	30,000
Plant, crop, and livestock conservation	7,537	7,382	309,719	700,275	.442	27,043
Professional, technical, and clerical	3,029	2,756	189,427	317,408	.597	10,907
Public roads ²	172	125	6,876	13,123	.524	680
Reclamation	8,991	8,032	327,788	948,978	.345	30,725
River, harbor, and flood control	599	428	26,182	40,809	.642	8,262
Streets and roads	921	729	31,227	96,958	.322	9,614
Water and sewerage	941	734	18,910	87,623	.216	3,500
Miscellaneous	2,395	1,791	65,971	211,611	.312	15,439
	Projects operated by Work Projects Administration ⁴					
All projects		1,647,123	\$94,784,451	208,508,192	\$0.455	(⁵)

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

² These data are for projects under the jurisdiction of the Public Roads Administration.

³ These data are for projects under construction in Puerto Rico.

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

⁵ Data on a monthly basis are not available.

Data on employment, pay rolls, and man-hours worked in August for each type of project operated by the Work Projects Administration were not available when this report was prepared. The figures for July are shown in table 14.

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

[Subject to revision]

Type of project	Employment ¹	Pay rolls	Man-hours worked	Average earnings per hour
All projects.....	1, 651, 407	\$95, 030, 429	207, 734, 571	\$0. 457
Conservation.....	39, 915	2, 201, 807	4, 925, 758	. 447
Highway, road, and street.....	700, 296	35, 974, 007	86, 124, 544	. 418
Professional, technical, and clerical.....	287, 237	19, 441, 464	37, 429, 189	. 519
Public buildings.....	150, 143	9, 464, 935	18, 877, 251	. 501
Publicly owned or operated utilities.....	159, 711	9, 736, 586	20, 745, 395	. 469
Recreational facilities.....	92, 064	6, 148, 607	12, 544, 009	. 490
Sanitation and health.....	23, 380	1, 268, 396	3, 038, 644	. 417
Sewing, canning, gardening, etc.....	117, 942	6, 015, 986	15, 038, 827	. 400
Transportation.....	26, 782	1, 443, 124	2, 966, 480	. 486
Not elsewhere classified.....	53, 937	3, 335, 517	6, 044, 474	. 552

¹ As of July 31, 1940.

NATIONAL YOUTH ADMINISTRATION

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

TABLE 15.—Employment and Pay Rolls on National Youth Administration Projects, August and July 1940

[Subject to revision]

Type of project	Employment		Pay rolls	
	August	July	August	July
Total.....	240, 067	195, 917	\$4, 777, 920	\$3, 382, 162
Student work program ¹	0	0	0	0
Out-of-school work program.....	240, 067	² 195, 917	4, 777, 920	² 3, 382, 162

¹ Not in operation during July and August.

² Revised.

CIVILIAN CONSERVATION CORPS

Employment and pay rolls in the Civilian Conservation Corps in August and July 1940 are presented in table 16.

TABLE 16.—Employment and Pay Rolls in the Civilian Conservation Corps, August and July 1940 ¹

[Subject to revision]

Group	Employment		Pay rolls	
	August	July	August	July
All groups.....	326, 244	316, 548	\$14, 420, 968	\$14, 146, 541
Enrolled personnel ²	290, 675	280, 072	9, 038, 917	8, 713, 816
Nurses ³	224	222	30, 166	29, 629
Educational advisers ³	1, 554	1, 560	260, 250	259, 592
Supervisory and technical ³	33, 791	34, 694	5, 091, 635	5, 143, 504

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

² August data include 3,560 enrollees and pay roll of \$73,298 outside continental United States; in July the corresponding figures were 3,531 enrollees and pay roll of \$69,171.

³ Included in executive service, table 10.

CONSTRUCTION PROJECTS FINANCED BY RECONSTRUCTION FINANCE CORPORATION

Statistics of employment, pay rolls, and man-hours worked on construction projects financed by the Reconstruction Finance Corporation in August are presented in table 17, by type of project.

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

[Subject to revision]

Type of project	Employment ²	Monthly pay rolls	Man-hours worked during month	Average earnings per hour	Value of material orders placed during month
All projects.....	2, 133	\$283, 288	259, 267	\$1, 093	\$338, 769
Building construction ³	1, 885	250, 886	223, 931	1, 120	262, 973
Streets and roads.....	89	6, 072	7, 069	.859	6, 806
Water and sewerage.....	159	26, 330	28, 267	.931	68, 990

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

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

³ Includes 1,173 employees; pay-roll disbursements of \$181,105; 133,935 man-hours worked; and material orders placed of \$155,388 on projects financed by RFC Mortgage Co.

CONSTRUCTION PROJECTS FINANCED FROM REGULAR FEDERAL APPROPRIATIONS

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

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

[Subject to revision]

Type of project	Employment		Monthly pay rolls	Man-hours worked during month	Average earnings per hour	Value of material orders placed during month
	Maximum ²	Weekly average				
All projects.....	³ 334, 593	315, 913	\$39, 006, 635	49, 909, 494	\$0. 782	\$78, 155, 126
Building construction.....	28, 183	23, 032	2, 873, 927	2, 980, 234	. 964	4, 629, 731
Electrification:						
Rural Electrification Administration projects ⁴	5, 686	4, 670	339, 572	603, 021	. 563	1, 383, 508
Other than R. E. A. projects.....	598	488	30, 771	41, 211	. 747	205, 230
Forestry.....	10	10	703	1, 456	. 483	5
Heavy engineering.....	117	102	22, 126	16, 474	1. 343	278, 781
Public roads ⁵	(⁶)	106, 227	10, 218, 513	15, 931, 436	. 641	16, 448, 398
Reclamation.....	24, 997	23, 787	3, 752, 648	4, 168, 199	. 900	2, 624, 074
River, harbor, and flood control:						
Dredging, dikes, revetments, etc.	33, 321	29, 607	3, 449, 700	4, 982, 389	. 692	3, 841, 758
Locks and dams.....	8, 329	7, 488	1, 060, 701	1, 266, 400	. 838	896, 467
Ship construction:						
Naval vessels.....	85, 854	82, 091	13, 185, 292	14, 522, 526	. 908	42, 729, 488
Other than naval vessels.....	25, 770	23, 786	2, 997, 949	3, 626, 387	. 827	3, 152, 310
Streets and roads.....	3, 469	3, 097	334, 700	466, 232	. 718	317, 361
Water and sewerage.....	282	237	21, 898	25, 392	. 862	33, 133
Miscellaneous.....	11, 750	11, 291	718, 135	1, 278, 137	. 562	1, 584, 882

¹ Data are for the month ending on the 15th.² Maximum number employed during any 1 week of the month by each contractor, and Government agency doing force-account work.³ Includes weekly average for public-road projects.⁴ Financed by Rural Electrification Administration loans.⁵ Under the jurisdiction of the Public Roads Administration.⁶ Not available; weekly average included in the total for all projects.**STATE-ROADS PROJECTS**

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

TABLE 19.—Employment and Pay Rolls on Construction and Maintenance of State Roads August 1940, July 1940, and August 1939 ¹

[Subject to revision]

Item	Employment ²			Pay rolls		
	August 1940	July 1940	August 1939	August 1940	July 1940	August 1939
Total.....	201, 836	197, 950	155, 747	\$15, 045, 089	\$14, 696, 498	\$11, 905, 560
New roads.....	64, 133	61, 705	23, 586	4, 357, 497	3, 984, 957	1, 596, 240
Maintenance.....	137, 703	136, 245	132, 161	10, 687, 592	10, 711, 541	10, 309, 320

¹ Projects financed wholly from State or local funds. August and July 1940 data are for the calendar month; August 1939, for the month ending on the 15th.² Average number working during month.