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# EMPLOYMENT AND PAY ROLLS

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# *Employment and Pay Rolls*

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## SUMMARY OF REPORTS FOR MAY 1941

### *Total Nonagricultural Employment*

TOTAL civil nonagricultural employment was estimated at 38,278,000 in May 1941. This was above all preceding levels on record and represented gains of more than 600,000 over April and 3,115,000 over May of last year. These figures do not include C. C. C. enrollees, workers on W. P. A. or N. Y. A. projects, or the armed forces.

About half of the increase since April resulted from the resumption of operations in bituminous-coal mines following shut-downs in April pending wage negotiations. Manufacturing employment also expanded substantially, the usual May decline being more than offset by increased industrial activity in many defense and nondefense industries. The only major groups to show decreases over the month were construction and trade. The decrease in the former group was due to the completion of many new army cantonments, while the decline in employment in trade reflected the lay-off of temporary workers who had been employed to handle Easter business.

All major groups showed substantial employment gains over May 1940. Manufacturing employment showed an increase of 1,756,000 wage earners, construction employment a gain of 499,000, trade a rise of 222,000 workers, and Federal, State, and local Government service employment an expansion of 301,000. The armed forces of the nation showed an increase of nearly 1,200,000 over this period.

Emergency employment decreased 33,000 over the month as a result of the following changes: An increase of 117,000 in the military service and decreases of 119,000 on projects operated by the Work Projects Administration, 26,000 on the out-of-school work program of the National Youth Administration, and 5,000 in the Civilian Conservation Corps.

### *Industrial and Business Employment*

Of the 157 manufacturing industries surveyed, 127 reported increases in employment from April to May, and 139 showed increases in pay rolls. As in past months, most of the gains were larger than seasonal. Of the 16 nonmanufacturing industries regularly covered, 12 showed employment gains, and 13 showed pay-roll increases. For manufactur-

ing as a whole, employment advanced contraseasonally 1.8 percent (172,600 wage earners), and weekly factory pay rolls showed a larger-than-seasonal increase of 6.9 percent (\$17,642,000). These increases raised the employment and pay-roll indexes for all manufacturing industries combined to the highest levels on record. The typical April-May changes in factory employment and pay rolls are  $-0.8$  and  $+0.2$  percent, respectively. A comparison with May of last year showed factory employment had climbed 21.8 percent, and factory pay rolls had increased 47.2 percent, the larger gain in pay rolls than in employment being due primarily to wage-rate increases, increased hours, and overtime payments. The durable-goods group of manufacturing industries, in which defense activity is largely concentrated, showed employment gains of 2.7 percent over the month and 32.3 percent over the year, with corresponding pay-roll increases of 8.7 percent and 65.1 percent. The gains in the nondurable-goods group as a whole were much less pronounced, namely 0.8 percent and 12.4 percent in employment and 4.2 percent and 26.8 percent in pay rolls. The employment and pay-roll indexes for these two groups were likewise at the highest levels on record. Employment in key defense industries continued to expand, and many additional industries affected by orders for war materials also reported substantial employment gains. Among them were foundries and machine shops (15,900), electrical machinery (14,900), steel (12,200), aircraft (10,200), ship-building (6,900), and engines (4,600). Other industries showing large employment gains were meat packing (8,400); cotton goods (7,000); beverages (6,000); automobiles (5,600); radios and phonographs (4,500); furniture (4,300); baking (4,100); cars, electric- and steam-railroad (3,700); brick, tile, and terra cotta (3,500); and woolen and worsted goods (4,600). Decreases, for the most part seasonal, were reported for fertilizers (9,600), women's clothing (8,500), and shoes (6,000).

In wholesale trade, employment showed a small seasonal decrease of 0.2 percent and pay rolls a seasonal gain of 1.5 percent. Seasonal decreases in employment were shown for farm products (30.9 percent), farm supplies (5.4 percent), and assemblers and country buyers (9.1 percent). Among the wholesale lines showing substantial employment gains were automotive (2.4 percent); general merchandise (1.9 percent); iron and steel scrap (3.2 percent); machinery, equipment, and supplies (1.7 percent); and metals and minerals (2.6 percent).

Employment in retail-trade establishments fell 1.8 percent, principally because of the release of large numbers of temporary workers employed in mid-April to handle Easter sales. Despite this decline, retail employment was 5.3 percent above that of May a year ago, and pay rolls were 9.7 percent higher. In the general merchandising and apparel groups under retail trade, employment was reduced 5.2 percent and 9.1 percent, respectively, between April and May.

The resumption of operations in May following the sharp curtailment in April during wage negotiations accounted for the increase of 282 percent in employment and 528 percent in weekly pay rolls in bituminous-coal mines. Increased demand for metals in the manufacture of defense equipment resulted in an employment increase in metal mining of 1.5 percent. Quarrying employment showed a larger-than-seasonal gain of 6.4 percent, and each of the three public-utility industries surveyed showed larger-than-seasonal employment gains ranging from 1.0 percent to 1.7 percent. Laundry and dyeing and cleaning establishments increased their working forces by about 3 percent and year-round hotels by 1.6 percent.

Employment in private building construction showed a smaller-than-seasonal gain of 5.4 percent from April to May following the sharp rises of recent months. The level of employment in this industry in the current month was 24.0 percent higher than May of last year. Gains were shown in each of the nine geographic divisions ranging from 11.9 percent in the Mountain States to 2.2 percent in the West South Central States. General building contractors as a group increased employment 4.6 percent, and the special-trades group increased employment 6.1 percent. Of the 15 special building trades surveyed, the 13 which reported increased employment were: Plastering and lathing (20.8 percent), painting and decorating (15.5 percent), building insulation (12.0 percent), tile and terrazzo contracting (7.0 percent), carpentering (6.1 percent), brick and stone masonry (5.8 percent), structural-steel erection (5.4 percent), plumbing and heating (4.5 percent), electrical contracting (4.4 percent), roofing and sheet metal (4.2 percent), elevator installation and repairing (3.4 percent), excavating (1.0 percent), and ornamental-iron contracting (0.8 percent).

A preliminary report of the Interstate Commerce Commission for class I steam railroads showed an employment gain of 4.1 percent between April and May. The total number employed in May was 1,124,719. The corresponding pay-roll figure for May was not available when this report was prepared. For April this was \$174,338,424, a decrease of \$2,200,162 since March. This decrease was due to the fact that April operations covered only 30 days, whereas the March pay roll covered 31 days.

*Hours and earnings.*—Hourly and weekly earnings of wage earners in manufacturing industries in May registered a sharp advance. The rise in earnings to new high levels in May resulted from widespread wage increases and extension of overtime operations in many industries. During the past 2 months general wage-rate increases affecting nearly 1,500,000 workers have been reported to the Bureau of Labor Statistics. Thirty-seven of the forty-three durable-goods industries regularly tabulated reported operations in excess of 40 hours per week per wage earner.

The machine-tool and machine-tool-accessories industries maintained operations above 50 hours per week per wage earner in May, with hours of 52.3 and 52.4, respectively. Other important defense industries operated at the following levels during May: Screw-machine products, 48.3 hours; engines, turbines, etc., 47.2 hours; foundry and machine-shop products, 45.4 hours; aircraft, 45.2 hours; brass, bronze, and copper products, 44.5 hours; shipbuilding, 44.0 hours; aluminum, 42.6 hours; ammunition, 42.5 hours; explosives, 42.2 hours; optical goods, 40.9 hours; and smelting and refining—copper, lead, and zinc—39.3 hours.

Average hourly earnings in manufacturing industries rose to 72.6 cents, representing a gain of 2.5 percent over April and 9.1 percent over May 1940. Eighty-one of the ninety manufacturing industries reported an increase in hourly earnings since April and all ninety industries showed a rise over the year interval. Average hours worked per wage earner increased from 39.9 in April to 40.8 in May. The increase in hours amounted to 2.1 percent over the month and 9.7 percent over the year. Weekly earnings of full-time and part-time workers averaged \$30.69, a rise of 5.0 percent since April and 21.0 percent over May 1940.

Wage-rate increases from April 15 to May 15 averaging 8.9 percent for more than 700,000 wage earners were reported by 1,926 manufacturing plants out of a reporting sample of 33,791 plants employing 7,105,000 wage earners. Industries in which the reported wage increases affected substantial numbers of workers were electrical machinery (90,182); woolen and worsted goods (87,845); slaughtering and meat packing (52,656); blast furnaces, steel works, and rolling mills (44,576); foundry and machine-shop products (33,198); agricultural implements (31,750); sawmills (29,468); chemicals (20,540); engines, turbines, etc. (18,747); paper and pulp (12,564); brick, tile, and terra cotta (12,015); smelting and refining—copper, lead, and zinc (11,386); and brass, bronze, and copper products (10,453). 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.

Resumption of operations in bituminous-coal mines in May resulted in a substantial recovery in average hours worked in that industry. The new wage scale agreed upon affected a major portion of the 400,000 wage earners employed in this industry. As compared with May 1940, weekly earnings in the bituminous-coal industry showed an increase of 17.9 percent, while average hours advanced 13.8 percent, and hourly earnings rose 9.0 percent. Anthracite mining reported a recovery in hours worked, but the level of hours was still 18.0 percent below that of a year ago. Average weekly earnings in

anthracite mining were 11.0 percent below a year ago. Quarrying and nonmetallic mining showed an increase in weekly earnings of 7.1 percent from April to May and 14.6 percent over May 1940. Wholesale-trade establishments reported an average increase of 5.3 percent in weekly earnings over the year. In retail trade weekly earnings showed an increase of 4.3 percent during this same interval.

Employment and pay-roll indexes and average weekly earnings for May 1941 are given in table 1 for all manufacturing industries combined and 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, May 1941*

Industry	Employment			Pay rolls			Average weekly earnings		
	Index May 1941	Percentage change from—		Index May 1941	Percentage change from—		Average in May 1941	Percentage change from—	
		April 1941	May 1940		April 1941	May 1940		April 1941	May 1940
All manufacturing industries combined <sup>1</sup> ..	(1923-25 =100) 124.8	+1.8	+21.8	(1923-25 =100) 144.0	+6.9	+47.2	\$30.69	+5.0	+21.0
Class I steam railroads <sup>2</sup> ..	110.2 (1929= 100)	+4.1	+11.1	( <sup>3</sup> ) (1929= 100)	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
Coal mining:									
Anthracite <sup>4</sup> ..	48.6	-3	-6.2	33.4	+37.1	-16.5	22.59	+37.5	-11.0
Bituminous <sup>4</sup> ..	89.9	+282.0	+5.6	99.2	+528.4	+31.8	29.63	+64.5	+17.9
Metalliferous mining <sup>5</sup> ..	78.3	+1.5	+13.2	81.8	+4.1	+24.6	32.91	+2.6	+10.0
Quarrying and nonmetallic mining.....	51.3	+6.4	+9.4	53.6	+14.0	+25.3	26.10	+7.1	+14.6
Crude-petroleum production..	60.4	+6	-4.5	59.6	+3.2	+1.5	36.22	+2.6	+6.3
Public utilities:									
Telephone and telegraph <sup>6</sup> ..	84.6	+1.7	+9.5	109.2	+2.0	+10.5	7 31.63	+2	+9
Electric light and power <sup>6</sup> ..	92.3	+1.1	+1.9	110.3	+2.5	+5.8	7 36.46	+1.4	+3.8
Street railways and busses <sup>6,8</sup>	68.9	+1.0	+8	73.0	+1.3	+5.4	7 34.49	+3	+4.5
Trade:									
Wholesale <sup>9</sup> ..	92.3	-2	+3.8	84.6	+1.5	+9.4	7 31.88	+1.6	+5.3
Retail <sup>6</sup> ..	96.0	-1.8	+5.3	91.5	-2	+9.7	7 21.92	+1.6	+4.3
Hotels (year-round) <sup>4,10</sup> ..	96.8	+1.6	+3.6	88.4	+1.5	+6.6	7 15.86	-1	+2.9
Laundries <sup>4</sup> ..	108.4	+3.4	+9.4	98.9	+3.2	+11.7	18.95	-2	+2.2
Dyeing and cleaning <sup>4</sup> ..	120.7	+3.0	+11.0	95.6	-2.2	+12.0	21.77	-5.1	+8
Brokerage..	( <sup>3</sup> )	-6	-14.7	( <sup>3</sup> )	-5	-14.2	7 38.57	+1	+6
Insurance..	( <sup>3</sup> )	+2	+1.5	( <sup>3</sup> )	+3	+2.3	7 37.34	0	+8
Building construction..	( <sup>3</sup> )	+5.4	+24.0	( <sup>3</sup> )	+8.0	+33.6	34.87	+2.5	+7.7
Water transportation <sup>11</sup> ..	81.3	+1.5	-5	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )

<sup>1</sup> Indexes adjusted to preliminary 1939 Census of Manufactures. See table 9 in December 1940 EMPLOYMENT AND PAY ROLLS for comparable series back to January 1919.

<sup>2</sup> Preliminary—Source: Interstate Commerce Commission.

<sup>3</sup> Not available.

<sup>4</sup> Indexes adjusted to 1935 census. Comparable series back to January 1929 presented in January 1938 issue of EMPLOYMENT AND PAY ROLLS. See also table 7 of October 1940 pamphlet for revised figures for anthracite mining February to September 1940 inclusive.

<sup>5</sup> See table 7 of February 1941 pamphlet for revised figures January 1938 to January 1941.

<sup>6</sup> Retail-trade indexes adjusted to 1935 census and public-utility indexes to 1937 census. Not comparable with indexes published in pamphlets prior to January 1940. Revised series available upon request.

<sup>7</sup> Average weekly earnings not strictly comparable with figures published in issues of EMPLOYMENT AND PAY ROLLS dated earlier than January 1938, as they now exclude corporation officers, executives and other employees whose duties are mainly supervisory.

<sup>8</sup> Covers street railways and trolley and motorbus operations of subsidiary, affiliated, and successor companies.

<sup>9</sup> Indexes adjusted to 1933 census. Comparable series in November 1934 and subsequent issues of EMPLOYMENT AND PAY ROLLS February 1935 and subsequent issues of MONTHLY LABOR REVIEW.

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

<sup>11</sup> Based on estimates prepared by the United States Maritime Commission.



## *Public Employment*

Employment on construction projects financed from appropriations to regular Federal agencies declined 81,000 in the month ending May 15. On defense construction curtailment of employment on troop cantonments was partially offset by sizable gains on ship construction, airports, and residential building construction. The number of persons employed on all defense projects during the month totaled 609,000. Nondefense projects, with a large seasonal gain on Federal-aid roads, furnished employment to 200,000 men, an increase of 14,000 from the preceding month. Wage payments of \$107,644,000 to the 809,000 men employed on defense and nondefense projects were \$8,266,000 less than in April.

Contractors on low-rent projects of the United States Housing Authority increased employment by 2,600 in the month ending May 15. There was a decrease of approximately 1,400 in the number of workers employed on defense housing while 4,000 were added to pay rolls on nondefense housing. Wage payments of \$4,506,000 to the 42,000 workers employed on all projects were \$613,000 more than in the month ending April 15.

Employment on construction projects financed by the Public Works Administration showed a decrease of about 800 during the month ending May 15. The 10,200 men employed were paid \$1,220,000.

Construction projects financed by the Reconstruction Finance Corporation furnished employment to an additional 850 workers in the month ending May 15. The increase on defense projects amounted to 725 and on nondefense projects to 125. Wage payments to the 9,250 men at work on both types of work totaled \$1,262,000.

Further curtailment of employment on work-relief projects operated by the Work Projects Administration was reported in May. Employment on all projects under this program totaled 1,447,000, a decrease of 119,000 from April. Approximately 414,000 persons were at work on defense projects and 1,033,000 on nondefense projects. Total pay-rolls were \$86,527,000. The number of persons at work on Federal agency projects financed by the Work Projects Administration declined 4,000 in May. Wage payments to the 54,000 persons employed amounted to \$2,711,000.

The National Youth Administration reported decreases on both the student-work program and the out-of-school work program. Employment on the student program in May totaled 464,000 and on the out-of-school program 399,000. Wage payments on the former were \$3,400,000 and on the latter, \$8,209,000.

Employment in camps of the Civilian Conservation Corps showed a decline of 5,000 in May. Of the 261,400 persons on the pay-roll, 226,000 were enrollees; 1,500, educational advisers; 100, nurses; and 33,800, supervisory and technical employees. Pay-roll disbursements of \$12,243,000 were \$96,000 less than in April.

In the regular services of the Federal Government sizable increases were again reported in the executive and military branches and slight increases in the legislative and judicial branches. Of the 1,306,000 employees in the executive service, 177,000 were working in the District of Columbia and 1,129,000 outside the District. Force-account employees (employees on the pay roll of the United States Government who are engaged on construction projects, and whose period of employment terminates as the project is completed) were 11 percent of the total number of employees in the executive service. Employment in the War Department increased almost 35,000 in May and the Navy Department showed a gain of 10,000. Increased employment was also reported in the Post Office Department, the Department of the Interior, the Department of Agriculture, and the Tennessee Valley Authority.

Employment on State-financed road projects showed a seasonal gain of 29,000 in May. Of the 174,000 on the pay roll, 55,000 were engaged in the construction of new roads and 119,000 on maintenance. Pay-roll disbursements of \$14,671,000 were \$2,859,000 more than in April.

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, May 1941**

[Preliminary figures]

Class	Employment			Pay rolls		
	May 1941	April 1941	Percentage change	May 1941	April 1941	Percentage change
<b>Federal Services:</b>						
Executive 1	1,306,333	1,251,283	+4.4	\$198,382,389	\$189,213,464	+4.8
Judicial	2,517	2,505	+5	642,704	641,009	+3
Legislative	6,055	6,015	+7	1,333,550	1,320,148	+1.0
Military	1,662,428	1,545,689	+7.6	96,262,203	93,000,983	+3.5
<b>Construction projects:</b>						
Financed by regular Federal appropriations	809,402	890,050	-9.1	107,643,982	115,909,892	-7.1
Defense	608,976	703,802	-13.5	86,148,474	97,822,631	-11.9
Other	200,426	186,248	+7.6	21,495,508	18,087,261	+18.8
U. S. H. A. low-rent housing	41,576	38,970	+6.7	4,505,728	3,892,911	+15.7
Defense	4,837	6,230	-22.4	534,147	603,642	-11.5
Other	36,739	32,740	+12.2	3,971,581	3,289,269	+20.7
Financed by P. W. A. <sup>3</sup>	10,209	10,997	-7.2	1,219,777	1,338,312	-8.9
Financed by R. F. C. <sup>4</sup>	9,258	8,403	+10.2	1,261,547	1,135,134	+11.1
Defense	6,852	6,127	+11.8	980,240	861,486	+13.8
Other	2,406	2,276	+5.7	281,307	273,648	+2.8
Federal agency projects financed by Work Projects Administration	54,174	57,827	-6.3	2,711,234	2,696,470	+5
Defense	22,600	27,256	-17.1	1,191,626	1,273,492	-6.4
Other	31,574	30,571	+3.3	1,519,608	1,422,978	+6.8
Projects operated by W. P. A.	1,446,994	1,566,325	-7.6	86,527,291	92,325,962	-6.3
Defense	414,187	426,400	-2.9	(5)	(5)	--
Other	1,032,807	1,139,925	-9.4	(5)	(5)	--
<b>National Youth Administration:</b>						
Student work program	463,978	480,419	-3.4	3,400,476	3,369,480	+9
Out-of-school work program	399,480	425,302	-6.1	8,208,793	8,486,681	-3.3
Civilian Conservation Corps	261,357	266,645	-2.0	12,242,700	12,339,002	-8

<sup>1</sup> Includes force-account and supervisory and technical employees shown under other classifications to the extent of 177,904 employees and pay-roll disbursements of \$26,841,076 for May 1941, and 176,999 employees and pay-roll disbursements of \$26,447,715 for April 1941.

<sup>2</sup> Revised.

<sup>3</sup> Data covering P. W. A. projects financed from National Industrial Recovery Act funds, Emergency Relief Appropriation Acts of 1935, 1936, 1937 funds, and Public Works Administration Appropriation Act of 1938 funds are included. These data are not shown under projects financed by the Work Projects Administration. Includes 3,354 wage earners and \$374,798 pay roll for May 1941; 3,198 wage earners and \$402,329 pay roll for April 1941, covering Public Works Administration projects financed from Emergency Relief Appropriation Acts of 1935, 1936, and 1937 funds. Includes 6,619 wage earners and \$822,134 pay roll for May 1941 financed from funds provided by the Public Works Administration Appropriation Act of 1938.

<sup>4</sup> Includes 348 employees and pay roll disbursements of \$70,313 for May 1941; 434 employees and pay roll disbursements of \$67,835 for April 1941 on projects financed by the RFC Mortgage Co.

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



## DETAILED TABLES FOR MAY 1941

### *Estimates of Nonagricultural Employment*

THE estimates of "Total civil nonagricultural employment," given on the first line of table 3, represent the total number of persons engaged in gainful work in the United States in nonagricultural industries, excluding military and naval personnel, persons employed on W. P. A. or N. Y. A. projects, and enrollees in C. C. C. camps. The series described as "Employees in nonagricultural establishments" also excludes proprietors and firm members, self-employed persons, casual workers, and persons in domestic service. The estimates for "Employees in nonagricultural establishments" are shown separately for

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

The figures represent the number of persons working at any time during the week ending nearest the middle of each month. The totals for the United States have been adjusted to conform to the figures shown by the 1930 Census of Occupations for the number of non-agricultural "gainful workers" less the number shown to have been unemployed for 1 week or more at the time of the census. Separate estimates for "employees in nonagricultural establishments" are shown in table 4 for each of the 48 States and the District of Columbia for April and May 1941 and May 1940. Tables showing monthly figures for each State from January 1938 to date are available on request. Because the State figures do not include employees on merchant vessels, and because of certain adjustments in the United States estimates which have not been made on a State basis, the total of the State estimates will not agree exactly with the figures for the United States as a whole.

These estimates are based in large part on industrial censuses and on regular reports of employers to the United States Bureau of Labor Statistics and to other Government agencies, such as the Interstate Commerce Commission. Data derived from employers' quarterly reports in connection with "old age and survivors' insurance," and employers' monthly reports in connection with unemployment compensation have been used extensively as a check on estimates derived from other sources, and in some industries they have provided the most reliable information available.

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

[In thousands]

Industry	May 1941 (prelim- inary)	April 1941	Change, April to May 1941	May 1940	Change, May 1940 to May 1941
Total civil nonagricultural employment <sup>1</sup> ..	38, 283	37, 676	+607	35, 163	+3, 120
Employees in nonagricultural establishments <sup>1 2</sup> ..	32, 140	31, 533	+607	29, 020	+3, 120
Manufacturing <sup>3</sup> ..	11, 537	11, 370	+167	9, 776	+1, 761
Mining ..	1, 875	564	+311	845	+30
Construction ..	1, 748	1, 775	-27	1, 249	+499
Transportation and public utilities ..	3, 184	3, 113	+71	3, 000	+184
Trade ..	6, 419	6, 463	-44	6, 197	+222
Finance, service, and miscellaneous ..	4, 325	4, 265	+60	4, 202	+123
Federal, State and local Government:					
Civil employees ..	4, 052	3, 983	+69	3, 751	+301
Military and naval forces <sup>4</sup> ..	1, 662	1, 546	+116	464	+1, 198

<sup>1</sup> Excludes military and naval forces as well as employees on W. P. A. and N. Y. A. projects, and enrollees in C. C. C. camps. Includes proprietors, firm members, self-employed persons, casual workers, and domestic servants. Includes allowance for adjustment of factory wage-earner totals to preliminary 1939 Census of Manufactures. (Revised series available on request.)

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

<sup>3</sup> Adjusted to preliminary 1939 Census of Manufactures.

<sup>4</sup> Not included in total shown above. Includes members of the National Guard inducted into the Federal service by act of Congress.

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]

[Numbers in thousands]

Geographic divisions and States	May 1941 (preliminary)	April 1941	Change April to May 1941		May 1940	Change May 1940 to May 1941	
			Number	Percentage		Number	Percentage
<b>New England</b> .....	2,844	2,789	+55	+1.9	2,422	+422	+17.4
Maine.....	204	197	+7	+3.4	184	+20	+11.0
New Hampshire..	142	138	+4	+2.5	124	+18	+14.4
Vermont.....	77	74	+3	+4.1	72	+5	+7.3
Massachusetts..	1,481	1,457	+24	+1.7	1,265	+216	+17.0
Rhode Island....	267	264	+3	+8	218	+49	+22.1
Connecticut.....	673	659	+14	+2.0	559	+114	+20.4
<b>Middle Atlantic</b> .....	8,251	8,043	+208	+2.6	7,582	+669	+9.1
New York.....	4,069	4,029	+40	+1.0	3,838	+231	+6.0
New Jersey.....	1,270	1,250	+20	+1.6	1,116	+154	+13.8
Pennsylvania....	2,912	2,764	+148	+5.4	2,608	+304	+11.6
<b>East North Central</b> .....	7,573	7,410	+163	+2.2	6,640	+933	+14.0
Ohio.....	1,982	1,937	+45	+2.3	1,724	+258	+15.0
Indiana.....	903	872	+31	+3.6	749	+154	+20.5
Illinois.....	2,456	2,394	+62	+2.6	2,201	+255	+11.6
Michigan.....	1,540	1,527	+13	+8	1,348	+192	+14.2
Wisconsin.....	692	680	+12	+1.7	618	+74	+12.0
<b>West North Central</b> .....	2,491	2,443	+48	+2.0	2,316	+175	+7.6
Minnesota.....	553	539	+14	+2.6	516	+37	+7.2
Iowa.....	421	409	+12	+2.9	396	+25	+6.3
Missouri.....	834	823	+11	+1.3	760	+74	+9.8
North Dakota....	77	75	+2	+2.9	74	+3	+3.7
South Dakota....	83	81	+2	+2.8	81	+2	+3.2
Nebraska.....	207	200	+7	+3.8	198	+9	+4.6
Kansas.....	316	316	0	+1	291	+25	+8.5
<b>South Atlantic</b> .....	3,864	3,796	+68	+1.8	3,378	+486	+14.4
Delaware.....	78	74	+4	+5.0	70	+8	+12.3
Maryland.....	593	583	+10	+1.8	491	+102	+20.7
District of Columbia..	397	392	+5	+1.3	334	+63	+19.1
Virginia.....	574	546	+28	+5.2	478	+96	+20.1
West Virginia....	392	301	+91	+29.9	366	+26	+7.0
North Carolina..	627	658	-31	-4.7	564	+63	+11.1
South Carolina....	310	325	-15	-4.3	273	+37	+13.8
Georgia.....	520	524	-4	-8	465	+55	+11.9
Florida.....	373	393	-20	-5.1	337	+36	+10.7
<b>East South Central</b> .....	1,454	1,409	+45	+3.2	1,318	+136	+10.3
Kentucky.....	382	350	+32	+9.1	354	+28	+7.9
Tennessee.....	474	479	-5	-9	432	+42	+9.8
Alabama.....	405	388	+17	+4.5	354	+51	+14.5
Mississippi.....	193	192	+1	+4	178	+15	+8.2
<b>West South Central</b> .....	1,947	1,974	-27	-1.4	1,797	+150	+8.3
Arkansas.....	188	183	+5	+3.0	172	+16	+9.5
Louisiana.....	386	399	-13	-3.5	357	+29	+7.9
Oklahoma.....	297	295	+2	+7	285	+12	+4.3
Texas.....	1,076	1,097	-21	-2.0	983	+93	+9.4
<b>Mountain</b> .....	800	778	+22	+2.7	758	+42	+5.4
Montana.....	114	111	+3	+2.2	110	+4	+3.1
Idaho.....	87	85	+2	+1.9	83	+4	+4.6
Wyoming.....	54	53	+1	+1.8	51	+3	+5.8
Colorado.....	231	221	+10	+4.8	214	+17	+7.9
New Mexico.....	72	70	+2	+2.7	72	0	+5
Arizona.....	94	94	0	+1	89	+5	+5.9
Utah.....	113	110	+3	+2.7	106	+7	+6.1
Nevada.....	35	34	+1	+1.8	33	+2	+4.9
<b>Pacific</b> .....	2,605	2,589	+16	+7	2,350	+255	+10.9
Washington.....	457	458	-1	-3	411	+46	+11.3
Oregon.....	264	253	+11	+4.7	234	+30	+12.9
California.....	1,884	1,878	+6	+3	1,705	+179	+10.5

### *Industrial and Business Employment*

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

The indexes of factory employment and pay rolls relate to wage earners only. Those shown in tables 5 and 6 are based on the 3-year average 1923–25 as 100. For all manufacturing industries combined, the durable-goods group, the nondurable-goods group, and aluminum manufactures, they have been adjusted to preliminary 1939 census figures and for automobiles to the 1933 census. The indexes for all other groups and industries have been adjusted to 1937 census data except for the aircraft industry and the transportation equipment group which have been adjusted on the basis of a complete employment survey of the aircraft industry made by the Bureau of Labor Statistics in August 1940. The over-all manufacturing indexes are computed from reports supplied by representative manufacturing establishments in 90 of the 157 industries surveyed. These reports cover more than 55 percent of the total wage earners in all manufacturing industries of the country and more than 65 percent of the wage earners in the 90 industries covered.

Indexes for 55 of the 67 manufacturing industries recently added to the monthly survey are shown in table 8. These indexes are based on 1939 as 100.

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

The indexes for retail trade have been adjusted to conform in general with the 1935 Census of Retail Distribution and are weighted by lines of trade. For the public utilities they have been adjusted to the 1937 Census of Electrical Industries, for wholesale trade to the 1933 census,

and for coal mining, year-round hotels, laundries, and dyeing and cleaning to the 1935 censuses.

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

The average weekly earnings shown in tables 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 slightly smaller number of reporting firms. As the size and composition of the reporting sample vary somewhat from month to month, 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 May 1940 are computed from chain indexes based on the month-to-month percentage changes.

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

The indexes of employment and pay rolls as well as average hours worked per week, average hourly earnings, and average weekly earnings in manufacturing and nonmanufacturing industries in May 1941 are shown in table 5. Percentage changes from April 1941 and May 1940 are also given.

The employment and pay-roll indexes, as well as average hours worked per week, average hourly earnings, and average weekly earnings for March, April, and May 1941, where available, are presented in table 6. The March and April figures, where given, may differ in some instance from those previously published because of revisions necessitated primarily by the inclusion of late reports. Indexes of employment and pay rolls are given in table 7 for 55 of the 67 newly added manufacturing industries for the months of March, April, and May 1941. These indexes are based on 1939 as 100 and are available in mimeographed form for the period from January 1939 to January 1941, inclusive.

In table 8 indexes of employment and pay rolls are given for all manufacturing industries combined, for the durable- and nondurable-goods groups of manufacturing industries, and for each of 13 nonmanufacturing industries, by months, from May 1940 to May 1941, inclu-





sive. The indexes for all manufacturing industries combined, the durable-goods group, and the nondurable-goods group have been adjusted to preliminary 1939 census figures. Comparable indexes for all available months and years back to January 1919 are given in tables 9, 10, and 11 of the December 1940 issue of this pamphlet. The chart on page 13 indicates the trend of factory employment and pay rolls from January 1919 to May 1941.

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

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

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

TABLE 5.—*Employment, Pay Rolls, Hours, and Earnings in Manufacturing and Nonmanufacturing Industries, May 1941*

## MANUFACTURING

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

Industry	Employment			Pay rolls			Average weekly earnings <sup>1</sup>			Average hours worked per week <sup>1</sup>			Average hourly earnings <sup>1</sup>		
	Index May 1941	Percentage change from—		May 1941	Percentage change from—		May 1941	Percentage change from—		May 1941	Percentage change from—		Index May 1941	Percentage change from—	
		April 1941	May 1940		April 1941	May 1940		April 1941	May 1940		April 1941	May 1940		April 1941	May 1940
<b>All manufacturing <sup>2</sup>.....</b>	<b>124.8</b>	<b>+1.8</b>	<b>+21.8</b>	<b>144.0</b>	<b>+6.9</b>	<b>+47.2</b>	<b>\$30.69</b>	<b>+5.0</b>	<b>+21.0</b>	<b>40.8</b>	<b>+2.1</b>	<b>+9.7</b>	<i>Cents</i> <b>72.6</b>	<b>+2.5</b>	<b>+9.1</b>
Durable goods <sup>2</sup> .....	131.2	+2.7	+32.3	163.0	+8.7	+65.1	35.51	+5.8	+24.8	42.5	+2.5	+11.5	80.6	+2.8	+11.1
Nondurable goods <sup>2</sup> .....	118.7	+ .8	12.4	122.7	+4.2	+26.8	24.47	+3.5	+12.8	38.9	+1.5	+7.1	64.1	+1.8	+4.9
<i>Durable goods</i>															
<b>Iron and steel and their products, not including machinery.....</b>	<b>132.9</b>	<b>+2.7</b>	<b>+30.4</b>	<b>160.9</b>	<b>+6.6</b>	<b>+65.5</b>	<b>35.74</b>	<b>+3.9</b>	<b>+26.9</b>	<b>41.5</b>	<b>+1.7</b>	<b>+13.0</b>	<b>85.9</b>	<b>+2.0</b>	<b>+12.3</b>
Blast furnaces, steel works, and rolling mills.....	140.4	+2.2	+28.7	172.5	+5.1	+67.2	39.05	+2.8	+30.0	40.4	+1.7	+13.6	96.8	+1.1	+14.6
Bolts, nuts, washers, and rivets.....	161.1	+4.1	+52.2	233.7	+10.2	+112.7	34.92	+5.9	+39.8	45.1	+ .8	+24.4	77.5	+5.1	+12.4
Cast-iron pipe.....	94.4	+1.9	+24.4	110.3	+5.8	+65.2	27.93	+3.8	+32.8	41.7	- .2	+19.4	66.6	+4.2	+11.2
Cutlery (not including silver and plated cutlery) and edge tools.....	118.5	+1.7	+15.6	134.3	+7.6	+46.0	29.67	+5.9	+26.4	43.2	+2.4	+10.6	69.6	+3.1	+14.1
Forgings, iron and steel <sup>3</sup> .....	102.1	+2.7	+53.0	152.3	+8.5	+107.3	39.62	+5.7	+35.6	46.0	+2.2	+19.4	86.4	+3.4	+13.7
Hardware.....	116.7	+1.1	+21.7	141.5	+4.2	+38.8	29.89	+4.1	+14.0	42.3	+2.2	+11.3	70.7	+1.9	+2.5
Plumbers' supplies <sup>4</sup> .....	102.1	+1.2	+24.8	104.8	+6.5	+40.7	29.62	+5.2	+12.8	40.5	+2.9	+5.4	73.1	+2.3	+6.9
Stamped and enameled ware.....	218.0	+3.8	+39.3	265.0	+9.3	+63.5	28.51	+5.3	+17.3	40.5	+ .3	+6.8	70.2	+5.0	+9.9
Steam and hot-water heating apparatus and steam fittings.....	112.1	+3.0	+31.9	128.6	+10.1	+72.6	34.63	+6.8	+30.8	44.0	+ .8	+16.9	78.8	+6.1	+12.0
Stoves.....	113.4	+3.9	+24.5	119.3	+7.9	+42.2	29.66	+3.9	+14.2	41.2	+1.8	+6.0	72.1	+2.2	+6.5
Structural and ornamental metalwork.....	102.3	+3.2	+43.9	113.8	+10.1	+84.6	33.13	+6.7	+28.3	44.0	+1.6	+16.3	82.5	+5.1	+10.7
Tin cans and other tinware <sup>5</sup> .....	123.4	+12.7	+29.2	151.6	+19.1	+50.7	27.65	+5.7	+16.4	42.3	+3.2	+2.0	65.5	+2.4	+6.8
Tools (not including edge tools, machine tools, files, and saws).....	135.5	+1.8	+47.3	171.7	+3.7	+90.4	32.01	+2.0	+29.3	46.1	- .7	+16.0	70.0	+2.7	+11.5
Wirework <sup>6</sup> .....	211.1	+1.8	+31.0	273.0	+12.4	+60.8	31.37	+10.5	+22.8	42.7	+6.3	+13.8	72.9	+3.9	+7.8

<b>Machinery, not including transportation equipment.</b>	<b>182.0</b>	<b>+3.7</b>	<b>+42.2</b>	<b>217.1</b>	<b>+9.9</b>	<b>+77.5</b>	<b>37.16</b>	<b>+5.9</b>	<b>+24.8</b>	<b>45.4</b>	<b>+2.0</b>	<b>+12.4</b>	<b>81.8</b>	<b>+3.8</b>	<b>+11.0</b>
Agricultural implements (including tractors) ..	170.7	+1.4	+22.3	223.0	- .3	+39.7	36.88	-1.6	+14.2	41.8	-3.4	+4.3	88.6	+1.7	+9.6
Cash registers, adding machines, and calculating machines ..	151.3	+(6)	+17.3	196.0	+2.6	+46.8	40.28	+2.6	+25.2	45.9	+1.4	+16.4	88.8	+1.3	+8.4
Electrical machinery, apparatus, and supplies ..	154.0	+4.5	+51.2	215.3	+12.0	+88.3	36.68	+7.1	+24.6	44.4	+ .8	+11.6	82.9	+6.3	+11.3
Engines, turbines, water wheels, and wind-mills ..	271.6	+5.6	+82.3	452.0	+21.4	+133.3	44.01	+15.0	+28.0	47.2	+9.3	+9.3	93.5	+5.3	+17.0
Foundry and machine-shop products ..	134.0	+3.1	+38.8	165.0	+8.2	+74.5	36.21	+4.9	+25.6	45.4	+2.2	+14.4	80.1	+2.8	+9.8
Machine tools ..	325.6	+2.8	+47.3	505.3	+7.0	+74.4	42.98	+4.1	+18.5	52.3	+2.0	+9.5	82.4	+2.1	+8.1
Radios and phonographs ..	173.7	+9.6	+27.2	191.5	+16.9	+50.9	27.02	+6.6	+18.7	41.0	+3.9	+7.5	66.1	+2.7	+10.5
Textile machinery and parts ..	101.3	+2.4	+23.2	124.3	+10.8	+61.4	33.72	+8.2	+31.1	46.4	+3.6	+17.3	72.8	+4.4	+11.7
Typewriters and parts ..	143.5	+3.8	+26.9	189.6	+8.7	+66.4	32.40	+4.8	+31.1	45.3	+3.4	+19.3	71.6	+1.3	+9.9
<b>Transportation equipment <sup>5 8</sup> ..</b>	<b>171.3</b>	<b>+2.9</b>	<b>+46.8</b>	<b>216.8</b>	<b>+13.3</b>	<b>+33.0</b>	<b>39.89</b>	<b>+10.1</b>	<b>+24.7</b>	<b>42.4</b>	<b>+6.9</b>	<b>+16.4</b>	<b>94.5</b>	<b>+2.5</b>	<b>+8.5</b>
Aircraft <sup>5</sup> ..	6,293.8	+6.2	+135.2	7,790.9	+7.9	+196.0	35.80	+1.7	+19.6	45.2	+ .1	+9.3	79.5	+ .9	+8.6
Automobiles <sup>9</sup> ..	133.8	+1.1	+21.9	171.1	+16.2	+54.1	41.70	+14.9	+26.3	41.2	+11.4	+16.8	101.4	+3.2	+8.2
Cars, electric- and steam-railroad ..	79.5	+8.0	+42.7	84.2	+14.8	+68.8	33.71	+6.3	+18.3	41.0	+3.1	+8.5	82.3	+3.1	+8.3
Locomotives ..	65.1	+9.1	+131.2	79.9	+11.6	+197.4	37.58	+2.3	+28.5	44.4	-2.7	+18.7	84.6	+5.2	+8.3
Shipbuilding ..	307.1	+4.3	+94.1	430.2	+9.6	+138.4	41.09	+5.1	+22.9	44.0	+2.8	+12.3	92.6	+2.2	+8.8
<b>Nonferrous metals and their products ..</b>	<b>139.9</b>	<b>+ .7</b>	<b>+32.9</b>	<b>168.3</b>	<b>+5.9</b>	<b>+80.5</b>	<b>33.14</b>	<b>+5.2</b>	<b>+20.8</b>	<b>42.8</b>	<b>+2.0</b>	<b>+10.0</b>	<b>77.0</b>	<b>+2.9</b>	<b>+10.1</b>
Aluminum manufactures <sup>10</sup> ..	233.5	+1.1	+29.6	322.0	+10.9	+53.1	34.36	+9.7	+18.2	42.5	+2.1	+6.0	80.8	+7.5	+11.5
Brass, bronze, and copper products ..	184.4	+1.0	+43.9	245.4	+5.0	+82.8	37.10	+4.0	+24.4	44.5	+1.8	+13.0	83.4	+2.2	+10.3
Clocks and watches and time-recording devices ..	115.9	+1.4	+29.2	143.4	+7.4	+52.5	27.36	+5.9	+18.1	42.2	+2.6	+9.2	64.8	+3.1	+8.5
Jewelry ..	104.4	+(6)	+17.8	97.7	+4.3	+34.5	25.08	+4.2	+14.2	40.9	+1.6	+10.0	60.7	+2.1	+4.6
Lighting equipment ..	112.0	-1.1	+33.1	110.4	+4.3	+32.5	30.39	+5.5	+14.5	41.3	+3.5	+7.4	73.2	+2.0	+6.7
Silverware and plated ware ..	82.9	+1.7	+17.7	90.8	+10.7	+48.1	31.64	+8.8	+25.9	45.1	+4.6	+16.8	70.8	+4.2	+8.6
Smelting and refining—copper, lead, and zinc ..	102.5	+1.1	+19.8	111.4	+3.6	+32.1	30.84	+2.5	+10.2	39.3	+ .5	+ .5	78.1	+1.9	+9.7
<b>Lumber and allied products ..</b>	<b>74.8</b>	<b>+1.4</b>	<b>+10.0</b>	<b>78.0</b>	<b>+3.0</b>	<b>+23.2</b>	<b>22.56</b>	<b>+1.7</b>	<b>+12.0</b>	<b>40.1</b>	<b>- .3</b>	<b>+3.8</b>	<b>55.6</b>	<b>+1.9</b>	<b>+7.7</b>
Furniture ..	100.1	+2.5	+14.7	102.5	+7.7	+37.1	24.29	+5.0	+19.6	41.8	+2.5	+9.7	58.4	+2.9	+9.5
Lumber:															
Millwork ..	70.0	+ .5	+15.4	62.4	+5.1	+30.4	24.29	+4.6	+12.9	42.2	+2.8	+5.3	57.5	+1.9	+7.4
Sawmills ..	65.8	+ .9	+6.2	66.0	- .6	+13.3	20.75	-1.3	+6.8	38.6	-2.6	-(6)	53.7	+1.3	+6.8
<b>Stone, clay, and glass products ..</b>	<b>95.6</b>	<b>+2.8</b>	<b>+18.6</b>	<b>97.8</b>	<b>+7.4</b>	<b>+31.1</b>	<b>27.64</b>	<b>+4.4</b>	<b>+12.4</b>	<b>33.5</b>	<b>+1.3</b>	<b>+3.6</b>	<b>71.0</b>	<b>+2.3</b>	<b>+7.1</b>
Brick, tile, and terra cotta ..	72.7	+5.0	+19.3	69.0	+10.6	+40.2	24.49	+5.3	+17.5	38.4	+ .1	+3.9	63.7	+5.4	+16.7
Cement ..	78.0	+5.1	+10.3	85.2	+12.9	+23.2	30.71	+7.4	+11.7	40.6	+1.2	+3.9	75.7	+6.2	+7.4
Glass ..	124.0	+1.8	+18.8	150.3	+4.7	+34.2	29.53	+2.9	+13.1	37.8	+1.1	+6.5	76.9	- .1	+4.0
Marble, granite, slate, and other products ..	46.3	+2.2	-5.7	38.7	+11.7	- .3	29.38	+9.3	+5.7	39.5	+6.4	+2.0	75.4	+2.5	+3.2
Pottery ..	112.5	- .5	+24.2	113.6	+2.2	+34.9	25.58	+2.7	+8.6	38.1	+1.4	+1.9	67.0	+1.0	+7.9

See footnotes at end of table.

TABLE 5.—*Employment, Pay Rolls, Hours, and Earnings in Manufacturing and Nonmanufacturing Industries, May 1941—Continued*

## MANUFACTURING—Continued

Industry	Employment			Pay rolls			Average weekly earnings <sup>1</sup>			Average hours worked per week <sup>1</sup>			Average hourly earnings <sup>1</sup>		
	Index May 1941	Percentage change from—		Index May 1941	Percentage change from—		May 1941	Percentage change from—		May 1941	Percentage change from—		May 1941	Percentage change from—	
		April 1941	May 1940		April 1941	May 1940		April 1941	May 1940		April 1941	May 1940			
<i>Nondurable goods</i>															
<i>Cents</i>															
Textiles and their products..	112.4	+9.3	+17.1	110.3	+3.1	+41.6	\$20.12	+2.7	+21.0	37.9	+1.8	+12.3	53.0	+1.0	+7.1
Fabrics.....	105.1	+1.4	+20.8	109.2	+4.9	+47.8	20.08	+3.5	+22.4	38.8	+1.4	+13.2	52.0	+1.9	+7.8
Carpets and rugs..	89.2	+2.5	+17.8	89.6	+9.9	+49.6	27.78	+7.2	+27.1	39.3	+5.1	+20.4	70.7	+2.0	+5.6
Cotton goods.....	106.3	+1.5	+19.8	116.9	+3.2	+49.8	17.83	+1.6	+25.1	39.5	+6	+14.6	45.1	+1.0	+9.3
Cotton small wares.....	102.6	+1.7	+35.0	114.1	+6.3	+67.3	21.70	+4.5	+23.8	41.5	+2.9	+15.5	52.5	+1.6	+7.8
Dyeing and finishing textiles..	141.2	-1.5	+15.2	133.9	-6	+35.4	23.06	+9	+17.6	38.6	-5	+8.6	59.4	+1.2	+7.9
Hats, fur-felt.....	79.9	-1.0	+20.8	74.8	+11.7	+62.4	25.77	+12.8	+34.5	33.5	+13.8	+26.3	77.1	+1.6	+9.3
Hosiery.....	143.0	+7	+6.9	158.1	+1.9	+18.4	19.64	+1.1	+10.7	35.8	+1.2	+8.7	54.8	+(6)	+6
Knitted outerwear..	76.5	+7.1	+24.2	71.5	+12.0	+43.3	19.38	+4.6	+15.3	38.5	+3.7	+8.4	50.0	+1.5	+6.6
Knitted underwear..	82.3	-3	+11.8	84.6	+7	+30.4	17.21	+1.1	+16.9	38.0	+4	+10.2	45.1	+6	+5.0
Knitted cloth <sup>3</sup> .....	154.7	+9.3	+21.5	149.2	+12.4	+44.1	21.79	+2.8	+18.8	40.4	+4	+11.2	53.3	+1.6	+5.8
Silk and rayon goods.....	68.5	+1	+10.3	62.4	+3.8	+23.4	18.72	+3.7	+15.2	33.5	+2.6	+10.2	48.4	+1.0	+5.6
Woolen and worsted goods..	106.9	+2.5	+48.9	113.3	+11.6	+88.1	24.53	+8.9	+23.3	39.7	+2.6	+15.2	61.6	+6.1	+9.4
Wearing apparel <sup>3</sup> .....	124.0	-1.7	+10.5	105.7	-5	+30.5	20.24	+1.2	+18.0	33.2	+2.4	+10.0	55.0	-6	+5.9
Clothing, men's <sup>4</sup> .....	118.8	+8	+25.0	101.2	+2.9	+56.8	21.71	+2.1	+24.7	35.9	+1.5	+15.8	60.3	+5	+5.9
Clothing, women's <sup>5</sup> .....	165.2	-3.9	+1.6	131.3	-7	+16.8	21.36	+3.2	+15.0	36.7	+4.7	+6.4	54.5	-1.2	+5.7
Corsets and allied garments..	118.1	+(1)	+3.2	136.6	+3.1	+17.3	19.12	+3.1	+13.6	38.7	+3.2	+8.4	48.8	-1	+5.1
Men's furnishings..	121.8	-5	+5.9	129.9	+4.8	+34.9	15.88	+5.2	+27.5	36.4	+4.8	+14.2	42.8	+3	+11.7
Millinery.....	75.7	-13.8	+1.4	51.0	-32.4	-5.7	20.59	-21.6	-7.0	23.6	-12.0	-11.2	66.6	-4.5	+4
Shirts and collars..	131.1	+8	+8.2	129.8	+2.8	+28.2	15.49	+1.9	+18.4	37.0	+1.6	+11.3	42.9	+4	+6.6
Leather and its manufactures..	95.5	-2.6	+10.0	91.0	-1.4	+43.1	22.09	+1.2	+30.0	37.5	-1.3	+22.1	59.0	+2.0	+8.2
Boots and shoes..	93.0	-2.8	+9.9	86.7	-2.7	+49.3	20.89	+2	+35.9	36.9	-2.3	+26.1	56.7	+2.3	+8.8
Leather..	89.6	-4	+11.2	97.6	+2.6	+27.2	27.29	+3.0	+14.3	40.1	+2.1	+8.6	68.1	+7	+5.5

<b>Food and kindred products..</b>	<b>127.5</b>	<b>+3.2</b>	<b>+4.8</b>	<b>134.7</b>	<b>+7.6</b>	<b>+10.9</b>	<b>26.67</b>	<b>+4.2</b>	<b>+5.8</b>	<b>40.3</b>	<b>+1.8</b>	<b>+5</b>	<b>67.0</b>	<b>+2.4</b>	<b>+4.5</b>
Baking.....	149.0	+1.7	+2.9	148.4	+5.4	+7.7	27.56	+3.6	+4.7	41.8	+1.8	+1.0	65.9	+2.0	+3.8
Beverages..	293.0	+7.9	+5.1	362.4	+9.4	+9.6	36.19	+1.3	+4.2	40.7	+1.6	+9	89.8	-2	+3.0
Butter.....	109.6	+7.1	+9.7	97.4	+8.3	+14.9	23.15	+1.1	+4.7	45.9	+1.6	+2.1	49.5	-5	+2.9
Canning and preserving..	99.9	+3.1	-2	91.1	+4.2	+1.9	17.44	+1.1	+2.1	34.3	+1.1	-2.0	51.7	+1	+2.6
Confectionery..	81.0	-6.2	+6.5	83.7	-2.4	+11.0	19.91	+4.0	+4.2	37.6	+1.3	-1.4	54.0	+2.8	+5.4
Flour.....	76.5	-1.0	-2.5	75.6	-1.1	+3.4	26.57	-1	+6.0	42.0	-7	+3.2	62.8	+7	+3.0
Ice cream.....	87.9	+11.6	+4.9	75.9	+9.1	+8.3	29.81	-2.3	+3.2	45.4	-8	-3	63.5	-1.0	+2.3
Slaughtering and meat packing..	116.8	+5.9	+10.4	133.1	+15.7	+20.5	29.55	+9.2	+9.1	40.5	+3.4	+1.7	73.1	+5.6	+7.0
Sugar, beet.....	47.4	+8.7	+1	53.8	+11.6	+9.1	29.35	+2.7	+9.1	39.5	+4.3	+5.4	77.2	-1.7	+4.1
Sugar refining, cane..	102.5	-2	+7.6	90.0	-2.7	+12.5	24.89	-2.5	+4.6	38.2	-2.4	+2.8	65.2	-1	+1.8
<b>Tobacco manufactures.....</b>	<b>64.9</b>	<b>+2.2</b>	<b>+4.3</b>	<b>66.8</b>	<b>+13.4</b>	<b>+10.0</b>	<b>18.67</b>	<b>+10.9</b>	<b>+5.4</b>	<b>36.8</b>	<b>+11.2</b>	<b>+2.2</b>	<b>50.5</b>	<b>+3</b>	<b>+4.0</b>
Chewing and smoking tobacco and snuff..	52.8	-1.3	-9.9	66.9	+8.6	+6	20.45	+10.0	+12.2	36.4	+7.9	+5.3	56.4	+2.5	+6.2
Cigars and cigarettes..	66.4	+2.7	+6.0	66.7	+14.1	+11.4	18.33	+11.2	+5.2	36.9	+11.5	+1.1	49.9	+1	+4.1
<b>Paper and printing..</b>	<b>120.8</b>	<b>+1.2</b>	<b>+5.0</b>	<b>124.9</b>	<b>+3.1</b>	<b>+10.4</b>	<b>31.15</b>	<b>+1.9</b>	<b>+5.2</b>	<b>40.0</b>	<b>+1.1</b>	<b>+2.7</b>	<b>81.1</b>	<b>+8</b>	<b>+2.5</b>
Boxes, paper.....	129.5	+2.3	+13.6	159.0	+5.6	+27.7	24.56	+3.2	+12.5	41.8	+2.2	+7.5	59.2	+1.2	+5.1
Paper and pulp.....	122.7	+2.1	+6.5	145.6	+4.6	+17.2	29.07	+2.5	+10.1	43.0	+9	+3.1	67.6	+1.6	+6.7
Printing and publishing:															
Book and job.....	103.2	+4	+3.9	95.7	+2.1	+8.2	32.01	+1.7	+4.1	39.7	+1.2	+2.3	81.9	+5	+1.6
Newspapers and periodicals..	117.6	+4	+4	114.0	+1.4	+1.6	39.51	+1.0	+1.2	36.2	+4	-2	106.6	+7	+1.7
<b>Chemical, petroleum, and coal products..</b>	<b>133.5</b>	<b>-7</b>	<b>+10.7</b>	<b>162.4</b>	<b>+3.7</b>	<b>+21.6</b>	<b>32.39</b>	<b>+4.4</b>	<b>+9.8</b>	<b>39.8</b>	<b>0</b>	<b>+2.8</b>	<b>80.6</b>	<b>+4.4</b>	<b>+7.1</b>
Petroleum refining.....	122.0	+1.2	+2	146.3	+2.8	+6.9	37.14	+1.5	+6.8	37.0	+3	+2.0	100.8	+1.1	+4.7
Other than petroleum refining..	136.3	-1.0	+13.2	167.4	+4.0	+26.3	30.73	+5.1	+11.6	40.7	-(9)	+2.7	74.4	+5.5	+9.4
Chemicals.....	166.8	+2.7	+22.5	221.8	+6.5	+37.0	35.48	+3.7	+11.8	41.1	+8	+2.5	86.3	+2.9	+9.2
Cottonseed—oil, cake, and meal..	70.9	-20.1	+11.1	65.5	-20.8	+15.8	14.85	-9	+4.2	40.6	-4.9	+1.6	35.1	+2.5	+1.3
Druggists' preparations..	125.2	+2.3	+5.7	142.8	+3.7	+11.1	25.49	+1.4	+4.9	39.4	0	+8	61.5	+5	+4.2
Explosives.....	(11)	(11)	(11)	(11)	(11)	(11)	37.97	+6.5	+16.1	42.2	+2.9	+6.4	90.1	+3.5	+9.2
Fertilizers.....	127.1	-28.9	-1.4	127.4	-28.0	+7.9	17.99	+2.7	+8.7	38.5	-8.6	-5	46.8	+12.3	+9.3
Paints and varnishes.....	141.4	+2.9	+12.3	170.4	+7.9	+25.0	33.05	+4.8	+11.3	43.0	+2.8	+4.5	77.0	+2.0	+6.8
Rayon and allied products..	323.5	+1.8	+6.3	356.2	+4.1	+14.4	28.16	+2.3	+7.6	39.5	+1.3	+1.8	71.2	+9	+5.6
Soap.....	92.2	+7	+13.3	125.7	+8.7	+28.3	32.13	+8.0	+14.0	40.7	+1.0	+3.3	78.9	+7.0	+10.4
<b>Rubber products.....</b>	<b>106.3</b>	<b>+1.2</b>	<b>+26.8</b>	<b>129.0</b>	<b>+5.0</b>	<b>+48.1</b>	<b>32.83</b>	<b>+3.8</b>	<b>+16.8</b>	<b>40.3</b>	<b>+2.3</b>	<b>+10.7</b>	<b>81.8</b>	<b>+1.7</b>	<b>+5.5</b>
Rubber boots and shoes.....	74.9	+3.4	+38.5	88.3	+5.7	+64.3	27.11	+2.1	+18.7	41.2	+7	+10.6	65.8	+1.4	+7.2
Rubber tires and inner tubes..	83.2	+1.1	+20.7	111.6	+4.3	+39.7	38.96	+3.2	+15.8	38.6	+1.6	+10.6	101.1	+1.3	+4.1
Rubber goods other.....	181.5	+6	+30.0	207.2	+6.3	+57.7	27.56	+5.7	+21.4	41.8	+3.4	+11.3	66.6	+2.3	+8.9

See footnotes at end of table.

TABLE 5.—Employment, Pay Rolls, Hours, and Earnings in Manufacturing and Nonmanufacturing Industries, May 1941—Continued

## NONMANUFACTURING

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

Industry	Employment			Pay rolls			Average weekly earnings <sup>1</sup>			Average hours worked per week <sup>1</sup>			Average hourly earnings <sup>1</sup>		
	Index May 1941	Percentage change from—		Index May 1941	Percentage change from—		May 1941	Percentage change from—		May 1941	Percentage change from—		May 1941	Percentage change from—	
		April 1941	May 1940		April 1941	May 1940		April 1941	May 1940		April 1941	May 1940		April 1941	May 1940
Coal mining:													<i>Cents</i>		
Anthracite <sup>12 13</sup> .....	48.6	-0.3	-6.2	33.4	+37.1	-16.5	\$22.59	+37.5	-11.0	22.9	+23.6	-18.0	94.5	+2.4	+2.3
Bituminous <sup>12</sup> .....	89.9	+282.0	+5.6	99.2	+528.4	+31.8	29.63	+34.5	+17.9	30.2	+31.9	+13.8	97.3	+15.7	+9.0
Metalliferous mining <sup>14</sup> .....	78.3	+1.5	+13.2	81.8	+4.1	+24.6	32.91	+2.6	+10.0	41.8	+1.6	+8	79.0	+1.0	+9.2
Quarrying and nonmetallic mining..	51.3	+6.4	+9.4	53.6	+14.0	+25.3	26.10	+7.1	+14.6	42.3	+4.1	+4.8	61.5	+2.5	+9.0
Crude-petroleum production..	60.4	+6	-4.5	59.6	+3.2	+1.5	36.22	+2.6	+6.3	37.9	-3	-8	92.7	+3.0	+5.8
Public utilities:															
Telephone and telegraph <sup>15 16</sup> .....	84.6	+1.7	+9.5	109.2	+2.0	+10.5	31.63	+2	+9	39.8	0	+1.2	79.7	+1	-5
Electric light and power <sup>15 16</sup> .....	92.3	+1.1	+1.9	110.3	+2.5	+5.8	36.46	+1.4	+3.8	40.1	+8	-1	91.3	+8	+4.1
Street railways and busses <sup>15 16 17</sup> .....	68.9	+1.0	+8	73.0	+1.3	+5.4	34.49	+3	+4.5	46.5	+2	+3.1	73.2	+2	+1.9
Trade:															
Wholesale <sup>15 18</sup> .....	92.3	-2	+3.8	84.6	+1.5	+9.4	31.88	+1.6	+5.3	41.3	+7	+1	78.2	+1.0	+6.1
Retail <sup>15 16</sup> .....	96.0	-1.8	+5.3	91.5	-2	+9.7	21.92	+1.6	+4.3	42.5	-(9)	-5	56.1	+1.9	+4.9
Food <sup>16</sup> .....	107.8	+3	+3.4	101.4	+6	+6.5	24.00	+3	+3.1	42.6	-9	-1.0	53.7	+1.0	+3.3
General merchandising <sup>15 16</sup> .....	103.0	-5.2	+8.3	95.8	-2.8	+10.6	18.49	+2.5	+2.1	35.3	-9	+4	47.8	+3.6	+2.6
Apparel <sup>16</sup> .....	90.8	-9.1	+4.2	84.8	-10.2	+8.2	21.67	-1.2	+3.8	38.1	-2	+2	56.9	-7	+3.8
Furniture <sup>16</sup> .....	77.8	+1.3	+6	75.0	+4.3	+6.1	30.28	+3.0	+5.4	44.7	+8	-4	71.9	+2.2	+3.8
Automotive <sup>16</sup> .....	91.7	+1.1	+6.5	99.7	+4.1	+20.7	32.44	+2.9	+13.3	47.7	+1	-8	68.3	+2.8	+14.2
Lumber <sup>16</sup> .....	76.6	+2.3	+2.7	76.5	+5.4	+8.2	27.94	+3.1	+5.4	43.0	+1.5	-4	65.7	+1.4	+6.6
Hotels (year-round) <sup>12 15 19</sup> .....	96.8	+1.6	+3.6	88.4	+1.5	+6.6	15.86	-1	+2.9	44.7	-1.4	-2.1	34.5	+1.4	+4.6
Laundries <sup>12</sup> .....	108.4	+3.4	+9.4	98.9	+3.2	+11.7	18.95	-2	+2.2	43.7	-2	+1.1	43.6	+5	+1.7
Dyeing and cleaning <sup>12</sup> .....	120.7	+3.0	+11.0	95.6	-2.2	+12.0	21.77	-5.1	+8	44.7	-2.5	+7	49.7	-2.8	+1
Brokerage <sup>15</sup> .....	(11)	-6	-14.7	(11)	-5	-14.2	38.57	+1	+6	(11)	(11)	(11)	(11)	(11)	(11)
Insurance <sup>15</sup> .....	(11)	+2	+1.5	(11)	+3	+2.3	37.34	0	+8	(11)	(11)	(11)	(11)	(11)	(11)
Building construction..	(11)	+5.4	+24.0	(11)	+8.0	+33.6	34.87	+2.5	+7.7	35.1	+2.1	+3.9	99.3	+4	+3.6

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

<sup>2</sup> See tables 9, 10, and 11 in the December 1940 issue of *EMPLOYMENT AND PAY ROLLS* for comparable series back to January 1919 for all manufacturing and back to January 1923 for the durable- and nondurable-goods groups.

<sup>3</sup> Because of change in the composition of the reporting sample, hours and earnings are not comparable with those previously published as indicated:

*Forgings.*—Average weekly earnings, average weekly hours, average hourly earnings (comparable February figures \$36.95, 45.0 hours, 82.3 cents).

*Wirework.*—Average weekly earnings, average weekly hours, average hourly earnings (comparable February figures \$29.46, 41.9 hours, 70.4 cents).

*Knitted cloth.*—Average weekly earnings and average hourly earnings (comparable February figures \$20.37 and 51.1 cents).

*Wearing apparel group.*—Average hourly earnings (comparable January and February figures 55.7 and 56.1 cents).

*Women's clothing.*—Average weekly earnings and average weekly hours (comparable January figures \$19.60, 33.4 hours); average hourly earnings (comparable January and February figures 56.7 and 57.8 cents).

<sup>4</sup> Not comparable with previously published figures. See table 7 in the April 1941 issue of *EMPLOYMENT AND PAY ROLLS* for revised figures from January 1940 to March 1941.

<sup>5</sup> Revisions in the following industries have been made as indicated:

*Tin cans.*—January and February 1941 average weekly and hourly earnings to \$25.31 and \$24.98; 63.9 and 63.5 cents; January average weekly hours to 39.8; January and February pay-roll indexes to 114.8 and 115.7.

*Transportation group.*—February average hourly earnings to 91.7 cents.

*Men's clothing.*—February average weekly earnings, average weekly hours, average hourly earnings to \$21.43, 35.7 hours, 59.9 cents; February pay-roll index to 96.2.

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

<sup>7</sup> November, and December 1940, January and February 1941 weekly earnings, average weekly hours and average hourly earnings revised to \$36.35, \$38.20, \$39.16, \$38.56; 43.2,

45.5, 45.4, 45.3 hours; 84.2, 84.1, 86.5, 85.3 cents; employment indexes to 200.5, 210.5, 222.4, 236.3; pay-roll indexes to 274.8, 303.3, 329.9, 345.4. Beginning with January 1941, average weekly earnings and average hourly earnings not comparable with figures given for previous months because of expansion in the reporting sample (comparable December weekly and hourly earnings \$38.04 and 83.8 cents).

<sup>8</sup> Adjusted on basis of a complete employment survey of the aircraft industry made by the Bureau of Labor Statistics for August 1940. Not comparable with previously published indexes from January 1939 to August 1940, inclusive. Comparable figures for this period given in table 9 of the September 1940 issue of *EMPLOYMENT AND PAY ROLLS*.

<sup>9</sup> The indexes for "automobiles" have been adjusted to 1933 census figures, but not to later census figures because of problems involving integrated industries.

<sup>10</sup> See table 8 in March 1941 *EMPLOYMENT AND PAY ROLLS* pamphlet for revised figures from January 1935 to February 1941.

<sup>11</sup> Not available.

<sup>12</sup> Indexes adjusted to 1935 census. Comparable series back to January 1929 presented in January 1938 issue of *EMPLOYMENT AND PAY ROLLS*.

<sup>13</sup> See table 7 of October 1940 *EMPLOYMENT AND PAY ROLLS* for revised employment and pay-roll indexes, average hours worked per week, average hourly earnings, and average weekly earnings in anthracite mining, February 1940 to September 1940, inclusive.

<sup>14</sup> See table 7 of February 1941 *EMPLOYMENT AND PAY ROLLS* for revised figures for metalliferous mining from January 1938 to January 1941, inclusive.

<sup>15</sup> 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.

<sup>16</sup> 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, with but one exception, retail furniture, which has been revised since publication of July 1940 pamphlet back to January 1936. Comparable series for earlier months available upon request.

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

<sup>18</sup> Indexes adjusted to 1933 census. Comparable series in November 1934 and subsequent issues of *EMPLOYMENT AND PAY ROLLS*.

<sup>19</sup> Cash payments only; additional 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. For "all manufacturing," "durable goods," "nondurable goods," and "aluminum manufactures," they have been adjusted to preliminary 1939 census figures. The indexes for all other manufacturing groups and industries have been adjusted to 1937 census figures, except as otherwise noted, and are not comparable to indexes published in pamphlets prior to August 1939. Comparable series available upon request]

Industry	Employment index			Pay-roll index			Average weekly earnings <sup>1</sup>			Average hours worked per week <sup>1</sup>			Average hourly earnings <sup>1</sup>		
	May 1941	April 1941	March 1941	May 1941	April 1941	March 1941	May 1941	April 1941	March 1941	May 1941	April 1941	March 1941	May 1941	April 1941	March 1941
<b>All manufacturing <sup>2</sup></b>	<b>124.8</b>	<b>122.6</b>	<b>119.9</b>	<b>144.0</b>	<b>134.7</b>	<b>131.2</b>	<b>\$30.69</b>	<b>\$29.15</b>	<b>\$29.11</b>	<b>40.8</b>	<b>40.0</b>	<b>40.4</b>	<i>Cents</i> <b>72.6</b>	<i>Cents</i> <b>70.8</b>	<i>Cents</i> <b>69.7</b>
Durable goods <sup>2</sup>	131.2	127.7	123.7	163.0	149.9	144.6	35.51	33.52	33.49	42.5	41.5	42.0	80.6	78.5	76.8
Nondurable goods <sup>2</sup>	118.7	117.8	116.3	122.7	117.7	116.3	24.47	23.61	23.63	38.9	38.4	38.8	64.1	62.9	62.4
<i>Durable goods</i>															
<b>Iron and steel and their products, not including machinery</b>	<b>132.9</b>	<b>129.4</b>	<b>127.2</b>	<b>163.9</b>	<b>150.9</b>	<b>141.2</b>	<b>35.74</b>	<b>34.39</b>	<b>32.85</b>	<b>41.5</b>	<b>40.8</b>	<b>41.0</b>	<b>85.9</b>	<b>84.1</b>	<b>79.5</b>
Blast furnaces, steel works, and rolling mills	140.4	137.4	135.0	172.5	164.1	149.0	39.05	37.87	34.94	40.4	39.8	40.1	96.8	95.4	87.3
Bolts, nuts, washers, and rivets	161.1	154.7	150.5	233.7	212.0	199.4	34.92	32.99	31.87	45.1	44.7	44.0	77.5	73.8	72.4
Cast-iron pipe	94.4	92.6	90.5	110.3	104.2	99.2	27.93	27.00	26.22	41.7	41.8	41.5	66.6	64.1	62.8
Cutlery (not including silver and plated cutlery) and edge tools	118.5	116.5	113.3	134.3	124.8	123.1	29.67	27.96	28.44	43.2	42.2	42.6	69.6	67.4	67.8
Forgings, iron and steel <sup>3</sup>	102.1	99.5	97.3	152.3	140.3	137.7	39.62	37.57	37.94	46.0	45.0	45.7	86.4	83.6	83.1
Hardware	116.7	116.6	117.1	141.5	135.7	138.1	29.89	28.64	28.95	42.3	41.4	42.0	70.7	69.3	69.0
Plumbers' supplies <sup>4</sup>	102.1	100.8	100.5	104.8	98.4	100.5	29.62	28.18	28.97	40.5	39.4	40.4	73.1	71.6	71.5
Stamped and enameled ware	218.0	210.0	207.4	235.0	242.5	240.9	28.51	27.08	27.04	40.5	40.4	40.4	70.2	66.8	66.7
Steam and hot-water heating apparatus and steam fittings	112.1	108.9	107.3	128.6	116.8	112.1	34.63	32.28	31.49	44.0	43.6	42.6	78.8	74.1	74.2
Stoves	113.4	109.2	103.4	119.3	110.6	102.8	29.66	28.60	28.03	41.2	40.4	40.2	72.1	70.8	69.9
Structural and ornamental metalwork	102.3	99.1	97.2	113.8	103.4	97.1	36.13	33.71	32.35	44.0	43.2	42.9	82.5	78.2	75.6
Tin cans and other tinware <sup>5</sup>	123.4	109.5	107.1	151.6	127.3	121.8	27.65	26.17	25.53	42.3	41.0	40.1	65.5	64.2	63.9
Tools (not including edge tools, machine tools, files, and saws)	135.5	133.2	130.1	171.7	165.5	160.5	32.01	31.57	31.36	46.1	46.4	46.4	70.0	68.1	67.7
Wirework <sup>3</sup>	211.1	207.4	209.7	273.0	242.8	256.4	31.37	28.22	29.64	42.7	40.1	41.7	72.9	70.5	71.1

<b>Machinery, not including transportation equipment.</b>	<b>162.0</b>	<b>156.2</b>	<b>147.7</b>	<b>217.1</b>	<b>197.6</b>	<b>186.2</b>	<b>37.16</b>	<b>35.16</b>	<b>35.02</b>	<b>45.4</b>	<b>44.7</b>	<b>44.9</b>	<b>81.8</b>	<b>78.8</b>	<b>77.8</b>
Agricultural implements (including tractors) ..	170.7	168.5	132.6	229.0	229.6	162.0	36.88	37.52	33.54	41.8	43.2	41.0	88.6	87.2	82.0
Cash registers, adding machines, and calculating machines ..	151.3	151.3	146.3	196.0	191.0	179.4	40.28	39.26	38.25	45.9	45.3	44.3	88.8	87.7	87.3
Electrical machinery, apparatus, and supplies ..	154.0	147.3	141.5	215.3	192.3	185.9	36.68	34.41	34.46	44.4	44.1	44.3	82.9	78.2	78.0
Engines, turbines, water wheels, and wind-mills ..	271.6	257.2	247.6	452.0	372.4	376.4	44.01	38.30	40.20	47.2	43.3	46.1	93.5	88.7	87.3
Fo ndry and machine-shop products ..	134.0	130.6	123.6	165.0	152.5	143.6	36.21	34.60	34.39	45.4	44.8	44.7	80.1	77.9	76.9
Machine tools ..	325.6	316.9	307.1	505.3	472.2	461.9	42.98	41.10	41.49	52.3	51.1	51.9	82.4	80.8	79.9
Radios and phonographs ..	173.7	158.5	149.1	191.5	163.9	157.2	27.02	25.31	25.79	41.0	39.4	40.2	66.1	64.4	64.3
Textile machinery and parts ..	101.3	98.9	96.2	124.3	112.1	110.3	33.72	31.32	31.77	46.4	45.0	45.9	72.8	69.7	69.3
Typewriters and parts ..	143.5	138.3	133.6	189.6	174.5	159.2	32.40	30.93	29.20	45.3	43.8	42.3	71.6	70.6	69.1
<b>Transportation equipment <sup>5</sup> ..</b>	<b>171.3</b>	<b>166.4</b>	<b>161.2</b>	<b>216.8</b>	<b>191.4</b>	<b>197.2</b>	<b>39.89</b>	<b>36.41</b>	<b>38.80</b>	<b>42.4</b>	<b>39.7</b>	<b>42.3</b>	<b>94.5</b>	<b>92.3</b>	<b>92.0</b>
Aircraft <sup>1</sup> ..	6,293.8	5,929.2	5,563.7	7,790.9	7,134.4	6,678.3	35.80	35.15	35.02	45.2	45.1	45.2	79.5	78.8	78.3
Automobiles <sup>2</sup> ..	133.8	132.4	131.5	171.1	147.3	163.1	41.70	36.36	40.61	41.2	37.0	41.4	101.4	98.3	98.2
Cars, electric- and steam-railroad ..	79.5	73.7	70.9	84.2	73.4	65.6	33.71	31.71	29.42	41.0	39.7	37.7	82.3	79.8	78.0
Locomotives ..	65.1	59.7	55.8	79.9	71.6	64.0	37.58	36.75	35.17	44.4	45.7	43.3	84.6	80.4	81.2
Shipbuilding ..	307.1	294.4	272.4	430.2	392.5	365.0	41.09	39.11	39.30	44.0	42.7	44.0	92.6	90.6	89.0
<b>Nonferrous metals and their products ..</b>	<b>139.9</b>	<b>138.9</b>	<b>137.9</b>	<b>168.3</b>	<b>157.0</b>	<b>155.5</b>	<b>33.14</b>	<b>31.48</b>	<b>31.67</b>	<b>42.8</b>	<b>42.0</b>	<b>42.1</b>	<b>77.0</b>	<b>74.9</b>	<b>74.8</b>
Aluminum manufactures <sup>3</sup> ..	233.5	231.0	224.1	322.0	290.4	258.4	34.36	31.40	28.74	42.5	41.7	38.1	80.8	75.4	75.5
Brass, bronze, and copper products ..	184.4	182.5	180.5	245.4	233.6	236.7	37.10	35.70	36.45	44.5	43.8	44.4	83.4	81.6	82.2
Clocks and watches and time-recording devices ..	115.9	114.2	111.4	143.4	133.6	128.0	27.36	25.83	25.58	42.2	41.2	41.8	64.8	62.7	61.2
Jewelry ..	104.4	104.4	104.2	97.7	93.7	94.0	25.03	24.07	24.14	46.9	40.3	40.9	60.7	59.4	58.9
Lighting equipment ..	112.0	113.3	111.9	116.4	105.8	105.4	30.39	28.60	28.83	41.3	39.8	40.5	73.2	71.8	71.1
Silverware and plated ware ..	82.9	81.5	79.8	90.8	82.0	82.4	31.64	29.07	29.81	45.1	43.2	44.3	70.8	67.9	68.0
Smelting and refining—copper, lead, and zinc ..	102.5	101.4	100.6	111.4	107.6	105.7	30.84	29.89	29.60	39.3	39.0	39.1	78.1	76.7	75.8
<b>Lumber and allied products ..</b>	<b>74.8</b>	<b>73.8</b>	<b>72.6</b>	<b>78.0</b>	<b>75.7</b>	<b>72.8</b>	<b>22.56</b>	<b>22.17</b>	<b>21.65</b>	<b>40.1</b>	<b>40.2</b>	<b>39.7</b>	<b>55.6</b>	<b>54.7</b>	<b>54.1</b>
Furniture ..	100.1	97.6	96.7	102.5	95.2	93.9	24.29	23.22	23.03	41.8	40.8	40.8	58.4	57.0	56.5
Lumber:															
Millwork ..	70.0	69.7	69.7	62.4	59.3	57.7	24.29	23.36	22.78	42.2	41.1	40.4	57.5	56.6	56.2
Sawmills ..	65.8	65.2	63.7	66.0	66.4	62.7	20.75	21.03	20.33	38.6	39.7	38.9	53.7	53.0	52.3
<b>Stone, clay, and glass products ..</b>	<b>95.6</b>	<b>93.0</b>	<b>89.7</b>	<b>97.8</b>	<b>91.1</b>	<b>85.2</b>	<b>27.64</b>	<b>26.50</b>	<b>25.89</b>	<b>38.5</b>	<b>38.0</b>	<b>37.2</b>	<b>71.0</b>	<b>69.5</b>	<b>69.9</b>
Brick, tile, and terra cotta ..	72.7	69.2	65.4	69.0	62.4	56.1	24.49	23.38	22.30	38.4	38.4	37.4	63.7	60.6	59.4
Cement ..	78.0	74.2	69.3	85.2	75.5	66.2	30.71	28.72	27.13	40.6	40.3	38.2	75.7	71.3	71.0
Glass ..	124.0	121.8	119.5	150.3	143.5	140.5	29.53	28.70	28.76	37.8	37.4	37.1	76.9	77.0	77.8
Marble, granite, slate, and other products ..	46.3	45.3	43.4	38.7	34.6	31.1	29.38	26.80	25.37	39.5	36.9	35.2	75.4	73.5	72.3
Pottery ..	112.5	113.1	111.2	113.6	111.1	104.6	25.58	24.88	23.90	38.1	37.6	37.4	67.0	66.2	64.1

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 <sup>1</sup>			Average hours worked per week <sup>1</sup>			Average hourly earnings <sup>1</sup>		
	May 1941	April 1941	March 1941	May 1941	April 1941	March 1941	May 1941	April 1941	March 1941	May 1941	April 1941	March 1941	May 1941	April 1941	March 1941
<i>Nondurable goods</i>													<i>Cents</i>	<i>Cents</i>	<i>Cents</i>
<b>Textiles and their products</b>	112.4	112.1	111.6	110.3	107.0	107.0	\$20.12	\$19.46	\$19.37	37.9	37.3	37.8	53.0	52.4	51.7
Fabrics	105.1	103.7	102.7	109.2	104.1	101.1	20.08	19.30	18.89	38.8	38.3	38.6	52.0	50.9	49.4
Carpets and rugs	89.2	87.0	85.5	89.6	81.5	83.1	27.78	25.94	26.86	39.3	37.4	39.0	70.7	69.4	68.9
Cotton goods	106.3	104.7	103.6	116.9	113.3	104.8	17.83	17.54	16.39	39.5	39.3	38.8	45.1	44.6	42.3
Cotton small wares	102.6	100.8	98.2	114.1	107.4	104.5	21.70	20.73	20.87	41.5	40.2	41.1	52.5	51.6	50.8
Dyeing and finishing textiles	141.2	143.3	142.0	133.9	134.7	133.3	23.06	22.78	22.91	38.6	38.7	40.8	59.4	58.4	55.5
Hats, fur-felt	78.9	80.7	84.7	74.8	66.9	88.1	25.77	23.00	29.12	33.5	29.4	37.8	77.1	75.9	77.1
Hosiery	143.0	141.9	143.8	153.1	155.2	160.5	19.64	19.37	19.80	35.8	35.4	36.2	54.8	54.7	54.6
Knitted outerwear	76.5	71.4	68.2	71.5	63.9	60.8	19.38	18.53	18.34	38.5	37.3	37.4	50.0	49.2	49.1
Knitted underwear	82.3	82.6	80.4	84.6	84.0	81.7	17.21	17.03	17.00	38.0	37.8	38.3	45.1	44.8	44.2
Knitted cloth <sup>3</sup>	154.7	141.5	145.6	149.2	132.7	133.0	21.79	21.17	20.57	40.4	40.1	39.6	53.3	52.6	51.7
Silk and rayon goods	68.5	68.5	67.2	62.4	60.1	57.5	18.72	18.04	17.55	38.5	37.6	37.8	48.4	47.8	46.2
Woolen and worsted goods	106.9	104.3	102.7	113.3	101.5	100.3	24.58	22.44	22.51	39.7	38.7	39.1	61.6	58.1	57.6
Wearing apparel <sup>3</sup>	124.0	126.2	127.0	105.7	106.2	112.2	20.24	19.91	20.68	36.2	35.3	36.3	55.0	55.3	56.1
Clothing, men's <sup>4</sup>	118.8	117.9	115.9	101.2	98.3	99.2	21.71	21.32	21.90	35.9	35.6	36.2	60.3	60.0	60.1
Clothing, women's <sup>4</sup>	165.2	171.9	177.8	131.3	132.3	148.0	21.36	20.53	22.12	36.7	35.0	36.3	54.5	55.0	57.2
Corsets and allied garments	118.1	118.1	117.8	136.6	132.5	133.4	19.12	18.65	18.87	38.7	37.5	38.5	43.8	49.2	43.7
Men's furnishings	121.8	122.3	122.6	123.9	123.9	129.1	15.88	15.13	15.66	36.4	34.9	35.1	42.8	42.6	42.4
Millinery	75.7	87.8	91.0	51.0	75.5	84.6	20.59	26.37	28.53	28.6	32.6	34.9	66.6	69.7	70.0
Shirts and collars	131.1	130.0	127.5	129.8	126.3	121.1	15.49	15.20	14.87	37.0	36.4	36.2	42.9	42.6	41.7
<b>Leather and its manufactures</b>	95.5	93.0	93.7	91.0	92.3	96.1	23.09	21.87	22.87	37.5	33.0	39.7	59.0	57.9	57.2
Boots and shoes	93.0	95.8	97.0	85.7	89.1	94.2	20.89	20.84	21.77	36.9	37.7	39.7	56.7	55.5	54.9
Leather	89.6	90.0	89.1	97.6	95.1	94.3	27.29	26.52	26.47	40.1	39.2	39.6	68.1	67.7	67.0
<b>Food and kindred products</b>	127.5	123.6	120.3	134.7	125.2	126.7	25.57	25.74	25.74	40.3	33.6	42.0	67.0	65.5	65.5
Baking	149.0	146.5	145.0	118.4	140.9	140.0	27.56	26.59	23.66	41.8	41.1	41.6	65.9	64.7	64.1
Beverages	203.0	271.5	263.9	362.4	331.4	312.9	36.19	35.67	34.63	40.7	40.1	38.9	89.8	89.8	90.1
Butter	109.6	102.3	95.9	97.4	89.9	95.2	23.15	22.96	23.14	45.9	45.3	45.3	49.5	50.0	50.5
Canning and preserving	99.9	96.9	80.4	91.1	87.5	75.6	17.44	17.33	17.90	34.3	34.2	34.5	51.7	51.4	52.5
Confectionery	81.0	86.4	89.3	83.7	85.8	93.5	19.91	19.17	20.30	37.6	37.1	39.2	54.0	52.5	52.4

Flour.....	76.5	77.4	76.8	75.6	76.4	72.7	26.57	26.59	25.48	42.0	42.5	41.0	62.8	62.3	61.6
Ice cream.....	87.9	78.7	70.8	75.9	69.5	62.5	29.81	30.50	30.21	45.4	45.8	45.2	63.5	64.1	65.2
Slaughtering and meat packing..	116.8	110.2	110.7	133.1	115.1	114.2	29.55	27.14	26.81	40.5	39.1	39.2	73.1	69.4	68.5
Sugar, beet.....	47.4	43.6	43.2	53.8	48.2	46.0	29.35	28.63	27.56	39.5	37.9	34.6	77.2	78.6	81.9
Sugar refining, cane.....	102.5	102.6	95.7	90.0	92.5	92.3	24.89	25.53	27.32	38.2	39.1	41.5	65.2	65.2	65.8
<b>Tobacco manufactures.....</b>	<b>64.9</b>	<b>63.5</b>	<b>63.3</b>	<b>66.8</b>	<b>58.9</b>	<b>62.7</b>	<b>18.67</b>	<b>16.88</b>	<b>17.99</b>	<b>36.8</b>	<b>33.2</b>	<b>36.1</b>	<b>50.5</b>	<b>50.6</b>	<b>49.7</b>
Chewing and smoking tobacco and snuff..	52.8	53.5	54.2	66.9	61.6	64.2	20.45	18.50	19.10	36.4	33.7	35.3	56.4	54.9	54.3
Cigars and cigarettes.....	66.4	64.7	64.4	66.7	58.5	62.4	18.33	16.58	17.78	36.9	33.0	36.1	49.9	50.1	49.2
<b>Paper and printing.....</b>	<b>120.8</b>	<b>119.4</b>	<b>118.1</b>	<b>124.9</b>	<b>121.2</b>	<b>120.3</b>	<b>31.15</b>	<b>30.54</b>	<b>30.67</b>	<b>40.0</b>	<b>39.6</b>	<b>39.7</b>	<b>81.1</b>	<b>80.5</b>	<b>80.7</b>
Boxes, paper.....	129.5	126.6	123.0	159.0	150.7	145.0	24.56	23.74	23.54	41.8	40.8	40.8	59.2	58.5	58.2
Paper and pulp.....	122.7	120.3	118.5	145.6	139.1	136.4	29.07	28.31	28.19	43.0	42.6	42.5	67.6	66.6	66.4
Printing and publishing:															
Book and job.....	103.2	102.8	102.1	95.7	93.7	94.9	32.01	31.54	32.08	39.7	39.4	39.8	81.9	81.4	81.7
Newspapers and periodicals.....	117.6	117.1	116.9	114.0	112.4	112.1	39.51	39.01	39.02	36.2	36.0	36.0	106.6	105.7	105.5
<b>Chemical, petroleum, and coal products..</b>	<b>133.5</b>	<b>134.4</b>	<b>130.7</b>	<b>162.4</b>	<b>156.6</b>	<b>148.1</b>	<b>32.39</b>	<b>30.95</b>	<b>30.36</b>	<b>39.8</b>	<b>39.9</b>	<b>39.1</b>	<b>80.6</b>	<b>77.3</b>	<b>78.6</b>
Petroleum refining.....	122.0	120.5	119.5	146.3	142.4	135.4	37.14	36.64	34.68	37.0	37.0	36.0	100.8	99.5	96.7
Other than petroleum refining..	136.3	137.7	133.4	167.4	160.9	152.7	30.73	29.07	28.83	40.7	40.7	40.1	74.4	70.7	70.5
Chemicals.....	166.8	162.4	159.3	221.8	208.3	201.7	35.48	34.24	33.93	41.1	40.8	41.0	86.3	83.9	82.9
Cottonseed—oil, cake, and meal..	70.9	88.6	99.7	65.5	82.7	92.9	14.85	14.95	14.92	40.6	42.4	42.1	35.1	34.4	34.5
Druggists' preparations.....	125.2	122.4	120.9	142.8	137.7	137.7	25.40	25.12	25.62	39.4	39.4	39.9	61.5	61.1	61.6
Explosives.....	(10)	(10)	(10)	(10)	(10)	(10)	37.07	35.66	35.14	42.2	41.0	40.5	90.1	87.1	86.8
Fertilizers.....	127.1	178.7	140.9	127.4	176.9	116.9	17.99	17.48	14.88	38.5	41.9	36.5	46.8	41.7	40.8
Paints and varnishes.....	141.4	137.4	132.9	170.4	157.9	147.4	33.05	31.57	30.46	43.0	41.9	40.8	77.0	75.5	74.9
Rayon and allied products.....	323.5	317.9	312.2	356.2	342.3	332.9	28.16	27.54	27.28	39.5	39.0	38.9	71.2	70.6	70.0
Soap.....	92.2	91.6	90.7	125.7	115.6	114.8	32.13	29.76	29.84	40.7	40.4	40.5	78.9	73.7	73.6
<b>Rubber products.....</b>	<b>106.3</b>	<b>105.0</b>	<b>102.8</b>	<b>129.0</b>	<b>122.8</b>	<b>119.5</b>	<b>32.83</b>	<b>31.74</b>	<b>31.67</b>	<b>40.3</b>	<b>39.4</b>	<b>39.7</b>	<b>81.8</b>	<b>80.4</b>	<b>79.9</b>
Rubber boots and shoes.....	74.9	72.4	68.9	88.3	83.6	80.4	27.11	26.54	26.83	41.2	40.9	41.7	65.8	64.9	64.3
Rubber tires and inner tubes..	83.2	82.3	80.0	111.6	107.1	102.7	38.96	38.01	37.55	38.6	38.2	37.9	101.1	99.7	99.4
Rubber goods, other.....	181.5	180.4	179.2	207.2	194.8	194.6	27.56	26.11	26.31	41.8	40.4	41.0	66.6	65.4	64.7

See footnotes at end of table.

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

## NONMANUFACTURING

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

Industry	Employment index			Pay-roll index			Average weekly earnings <sup>1</sup>			Average hours worked per week <sup>1</sup>			Average hourly earnings <sup>1</sup>		
	May 1941	April 1941	March 1941	May 1941	April 1941	March 1941	May 1941	April 1941	March 1941	May 1941	April 1941	March 1941	May 1941	April 1941	March 1941
Coal mining:													<i>Cents</i>	<i>Cents</i>	<i>Cents</i>
Anthracite <sup>11 12</sup> .....	48.6	48.7	50.2	33.4	24.3	42.4	\$22.59	\$16.43	\$27.79	22.9	18.5	29.9	94.5	92.3	92.7
Bituminous <sup>11</sup> .....	89.9	23.5	91.1	99.2	15.8	93.8	29.63	18.02	27.64	30.2	22.9	31.6	97.3	84.1	88.3
Metaliferous mining <sup>13</sup> .....	78.3	77.2	74.3	81.8	78.6	72.7	32.91	32.08	30.85	41.8	41.2	41.0	79.0	78.2	75.4
Quarrying and nonmetallic mining.....	51.3	48.2	44.2	53.6	47.0	40.3	26.10	24.37	22.85	42.3	40.7	38.9	61.5	60.0	58.9
Crude-petroleum production.....	60.4	60.1	60.2	59.6	57.8	56.1	36.22	35.31	34.25	37.9	38.0	37.3	92.7	90.0	89.3
Public utilities:															
Telephone and telegraph <sup>14 15</sup> .....	84.6	83.2	81.8	109.2	107.1	106.4	31.63	31.55	31.93	39.8	39.8	39.8	79.7	79.6	80.6
Electric light and power <sup>14 15</sup> .....	92.3	91.3	90.3	110.3	107.6	106.1	36.46	35.96	35.82	40.1	39.8	39.3	91.3	90.6	91.4
Street railways and busses <sup>14 15 16</sup> .....	68.9	68.3	68.2	73.0	72.0	72.5	34.49	34.37	34.59	46.5	46.4	46.6	73.2	73.1	73.2
Trade															
Wholesale <sup>14 17</sup> .....	92.3	92.4	91.8	84.6	83.4	82.0	31.88	31.36	31.17	41.3	41.0	40.6	78.2	77.5	77.2
Retail <sup>14 18</sup> .....	96.0	97.8	92.5	91.5	91.7	86.2	21.92	21.56	21.59	42.5	42.5	42.7	56.1	55.0	54.8
Food <sup>15</sup> .....	107.8	107.5	106.1	101.4	100.8	99.1	24.00	23.88	23.83	42.6	43.0	43.1	53.7	53.1	52.9
General merchandising <sup>14 16</sup> .....	103.0	108.7	96.6	95.8	98.6	88.3	18.49	18.13	18.18	38.3	38.7	38.5	47.8	46.1	46.6
Apparel <sup>15</sup> .....	90.8	99.9	83.0	84.8	94.4	76.5	21.67	21.97	21.50	38.1	38.1	38.0	56.9	57.3	55.7
Furniture <sup>15</sup> .....	77.8	76.8	74.2	75.0	71.9	66.3	30.28	29.44	28.36	44.7	44.4	44.1	71.9	70.3	67.0
Automotive <sup>15</sup> .....	91.7	90.7	87.9	99.7	95.8	87.9	32.44	31.52	29.96	47.7	47.6	47.1	68.3	66.4	64.3
Lumber <sup>15</sup> .....	76.6	74.9	72.5	76.5	72.6	69.2	27.94	27.11	26.72	43.0	42.4	42.0	65.7	64.8	64.8
Hotels (year-round) <sup>11 14 18</sup> .....	96.8	95.2	94.2	88.4	87.1	85.7	15.86	15.87	15.67	44.7	45.4	46.0	34.5	34.0	33.7
Laundries <sup>11</sup> .....	108.4	104.9	102.5	98.9	95.8	90.9	18.95	18.98	18.37	43.7	43.8	43.3	43.6	43.4	42.6
Dyeing and cleaning <sup>11</sup> .....	120.7	117.2	104.4	95.6	97.8	77.2	21.77	22.94	20.34	44.7	45.8	42.4	49.7	51.1	49.4
Brokerage <sup>14 19</sup> .....	- .6	- .8	- 1.6	- .5	+ .2	- 1.4	38.57	38.54	37.85	(10)	(10)	(10)	(10)	(10)	(10)
Insurance <sup>14 19</sup> .....	+ .2	+ .3	+ .2	+ .3	+ .4	+ .6	37.34	37.34	37.24	(10)	(10)	(10)	(10)	(10)	(10)
Building construction <sup>19</sup> .....	+5.4	+11.1	+ .2	+8.0	+15.5	+ .5	34.87	33.96	32.61	35.1	34.4	32.8	99.3	98.9	100.0

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

<sup>2</sup> See tables 9, 10, and 11 in the December 1940 issue of *EMPLOYMENT AND PAY ROLLS* for comparable series back to January 1919 for all manufacturing and back to January 1923 for the durable- and nondurable-goods groups.

<sup>3</sup> Because of change in the composition of the reporting sample, hours and earnings are not comparable with those previously published as indicated:

*Forgings*.—Average weekly earnings, average weekly hours, average hourly earnings (comparable February figures \$36.95, 45.0 hours, 82.3 cents).

*Wirework*.—Average weekly earnings, average weekly hours, average hourly earnings (comparable February figures \$29.46, 41.9 hours, 70.4 cents).

*Knitted cloth*.—Average weekly earnings and average hourly earnings (comparable February figures \$20.37 and 51.1 cents).

*Wearing apparel group*.—Average hourly earnings (comparable January and February figures 55.7 and 56.1 cents).

*Women's clothing*.—Average weekly earnings and average weekly hours (comparable January figures \$19.60, 33.4 hours); average hourly earnings (comparable January and February figures 56.7 and 57.8 cents).

<sup>4</sup> Not comparable with previously published figures. See table 7 in the April 1941 issue of *EMPLOYMENT AND PAY ROLLS* for revised figures from January 1940 to March 1941.

<sup>5</sup> Revisions in the following industries have been made as indicated:

*Tin cans*.—January and February 1941 average weekly and hourly earnings to \$25.31 and \$24.98; 63.9 and 63.8 cents; January average weekly hours to 39.8; January and February pay-roll indexes to 114.8 and 115.7.

*Transportation group*.—February average hourly earnings to 91.7 cents.

*Men's clothing*.—February average weekly earnings, average weekly hours, average hourly earnings to \$21.43, 35.7 hours, 59.9 cents; February pay-roll index to 96.2.

<sup>6</sup> November and December 1940, January and February 1941 weekly earnings, average weekly hours, and average hourly earnings revised to \$36.35, \$38.20, \$39.16, \$38.56; 43.2, 45.5, 45.4, 45.3 hours; 84.2, 84.1, 86.5, 85.3 cents; employment indexes to 200.5, 210.5, 222.4,

236.3; pay-roll indexes to 274.8, 303.3, 329.9, 345.4. Beginning with January 1941, average weekly earnings and average hourly earnings not comparable with figures given for previous months because of expansion in the reporting sample (comparable December weekly and hourly earnings \$38.04 and 83.2 cents).

<sup>7</sup> Adjusted on basis of a complete employment survey of the aircraft industry made by the Bureau of Labor Statistics for August 1940. Not comparable with previously published indexes from January 1939 to August 1940, inclusive. Comparable figures for this period given in table 9 of the September 1940 issue of *EMPLOYMENT AND PAY ROLLS*.

<sup>8</sup> The indexes for "automobiles" have been adjusted to 1933 census figures, but not to later census figures, because of problems involving integrated industries.

<sup>9</sup> See table 8 in March 1941 *EMPLOYMENT AND PAY ROLLS* pamphlet for revised figures from January 1935 to February 1941.

<sup>10</sup> Not available.

<sup>11</sup> Indexes adjusted to 1935 census. Comparable series back to January 1929 presented in January 1938 issue of *EMPLOYMENT AND PAY ROLLS*.

<sup>12</sup> See table 7 of October 1940 *EMPLOYMENT AND PAY ROLLS* for revised employment and pay-roll indexes, average hours worked per week, average hourly earnings, and average weekly earnings in anthracite mining, February 1940 to September 1940, inclusive.

<sup>13</sup> See table 7 of February 1941 *EMPLOYMENT AND PAY ROLLS* for revised figures for metalliferous mining from January 1938 to January 1941, inclusive.

<sup>14</sup> Average weekly earnings, hourly earnings, and hours not comparable with figures published in *EMPLOYMENT AND PAY ROLLS* prior to January 1938 as they now exclude corporation officers, executives, and other employees whose duties are mainly supervisory.

<sup>15</sup> 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, with but one exception, retail furniture, which has been revised since publication of July 1940 pamphlet back to January 1936.

<sup>16</sup> Covers street-railways and trolley and motorbus operations of subsidiary, affiliated, and successor companies; formerly "electric-railroad and motorbus operation and maintenance."

<sup>17</sup> Indexes adjusted to 1933 census. Comparable series in November 1934 and subsequent issues of *EMPLOYMENT AND PAY ROLLS*.

<sup>18</sup> Cash payments only; additional value of board, room, and tips not included.

<sup>19</sup> Indexes of employment and pay rolls are not available; percentage changes from preceding month substituted.

TABLE 7.—*Indexes of Employment and Pay Rolls in Fifty-five Additional Manufacturing Industries*

[12-month average 1939=100]

Industry	Employment			Pay rolls		
	May 1941	April 1941	March 1941	May 1941	April 1941	March 1941
Iron and steel group:						
Metal doors and shutters..	128.8	126.9	125.7	142.7	135.9	136.7
Firearms.....	(1)	(1)	(1)	(1)	(1)	(1)
Screw-machine products..	183.6	178.3	173.3	246.4	224.4	222.7
Wire drawing.....	137.5	136.7	133.3	169.0	158.4	154.8
Wrought pipe not made in rolling mills..	156.2	155.7	144.9	201.4	175.7	167.9
Steel barrels, kegs, and drums.....	128.4	117.4	108.1	168.4	147.5	126.7
Machinery group:						
Machine-tool accessories..	211.2	200.5	190.5	275.7	251.7	235.0
Pumps.....	173.9	165.5	158.0	243.1	218.6	203.9
Refrigerators and refrigerating apparatus..	156.4	153.7	150.9	194.3	182.7	177.5
Sewing machines.....	125.3	122.3	117.8	178.1	165.4	149.0
Washing machines, wringers, and driers..	137.5	130.8	125.4	173.0	162.6	145.2
Transportation equipment group:						
Motorcycles, bicycles, and parts..	158.0	147.3	133.5	182.8	168.3	144.6
Nonferrous metals group:						
Sheet-metal work.....	141.3	142.2	140.1	170.9	161.2	155.3
Smelting and refining of scrap metal..	138.4	141.2	135.9	163.6	167.5	161.8
Lumber group:						
Caskets and morticians' goods..	101.0	102.0	102.4	109.4	108.5	110.1
Wood preserving.....	120.2	121.0	117.3	143.5	142.8	137.8
Wood, turned and shaped.....	117.4	117.2	116.3	134.9	130.9	130.7
Wooden boxes, other than cigar..	121.6	118.3	115.9	149.5	137.7	129.7
Mattresses and bedsprings.....	119.1	116.2	114.5	135.7	127.7	125.7
Stone, clay, and glass products group:						
Abrasive wheels.....	178.1	172.3	164.1	219.8	202.8	181.9
Asbestos products.....	126.8	121.3	115.7	158.3	139.6	138.8
Lime.....	126.3	120.5	111.9	158.5	141.0	120.8
Gypsum.....	118.1	112.2	109.2	135.3	126.6	112.8
Glass products made from purchased glass..	144.6	134.6	130.0	160.9	143.5	141.2
Wallboard and plaster, except gypsum..	127.9	122.8	122.2	148.9	137.1	136.5
Textiles:						
Textile bags.....	110.3	110.8	104.3	120.4	119.6	115.1
Cordage and twine.....	129.2	124.6	120.4	161.1	148.1	138.3
Curtains, draperies, and bedspreads..	101.0	98.2	102.8	115.9	115.0	119.1
Housefurnishings, other.....	143.0	136.0	129.6	159.8	141.3	143.4
Jute goods, except felt.....	120.1	121.5	113.5	151.4	150.7	136.5
Handkerchiefs.....	103.2	101.1	100.3	120.0	112.8	117.1
Leather group:						
Boot and shoe cut stock and findings..	103.7	103.3	104.8	115.2	111.9	117.5
Leather gloves and mittens.....	135.7	135.7	130.1	172.1	169.4	156.6
Trunks and suitcases.....	142.1	136.4	131.7	138.4	131.6	131.1
Food group:						
Cereal preparations.....	106.4	102.2	100.2	118.9	114.3	107.6
Condensed and evaporated milk..	119.8	109.6	102.6	134.9	117.7	107.9
Feeds, prepared.....	106.9	105.4	101.3	117.7	113.5	104.6
Paper and printing group:						
Paper bags.....	118.5	115.0	105.5	138.7	129.9	117.6
Envelopes.....	113.8	112.0	111.0	125.3	118.5	116.7
Paper goods, not elsewhere classified..	118.8	117.7	115.5	129.0	124.7	123.8
Bookbinding.....	106.7	105.9	105.7	119.6	121.5	121.8
Lithographing.....	100.2	98.7	96.6	110.5	107.4	106.1
Chemical, petroleum, and coal products group:						
Ammunition.....	(1)	(1)	(1)	(1)	(1)	(1)
Compressed and liquefied gases..	138.1	135.7	133.1	180.1	160.9	162.9
Perfumes and cosmetics.....	89.4	92.7	90.3	93.8	94.3	91.0
Coke-oven products.....	120.8	115.8	118.5	141.5	125.6	123.2
Paving materials.....	117.9	97.2	86.4	130.7	102.2	93.7
Roofing materials.....	124.7	121.5	115.9	149.3	136.0	126.1
Miscellaneous group:						
Chemical fire extinguishers..	240.7	224.4	218.4	330.2	271.0	279.9
Buttons.....	114.8	111.9	111.5	138.2	129.6	127.8
Instruments, professional, scientific, and commercial.....	175.8	169.2	161.0	218.5	203.7	192.9
Optical goods.....	160.1	155.9	149.8	182.5	174.8	165.2
Photographic apparatus.....	115.6	113.6	110.6	135.3	128.9	120.8
Planos, organs, and parts.....	121.1	123.1	121.5	131.2	129.3	127.0
Toys, games, and playground equipment..	122.2	106.6	111.4	127.0	108.5	117.0

<sup>1</sup>Not available.

TABLE 8.—*Indexes of Employment and Pay Rolls in Selected Manufacturing<sup>1</sup> and Non-manufacturing<sup>2</sup> Industries, May 1940 Through May 1941*

Industry	1940										1941				
	Av.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	
Employment															
Manufacturing															
All industries...	107.5	102.5	103.1	103.2	107.4	111.4	113.8	114.7	116.2	115.5	117.8	119.9	122.6	124.8	
Durable goods <sup>3</sup> .....	104.3	99.2	99.8	98.4	102.4	108.2	112.8	115.5	117.7	118.3	121.0	123.7	127.7	131.2	
Nondurable goods <sup>4</sup> .....	110.6	105.6	106.2	107.8	112.2	114.4	114.8	113.8	114.8	112.7	114.7	116.3	117.8	118.7	
Nonmanufacturing															
Anthracite mining <sup>5</sup> .....	50.7	51.8	49.7	50.5	49.9	49.8	49.4	50.4	50.8	50.3	50.6	50.2	48.7	48.6	
Bituminous-coal mining <sup>5</sup> .....	88.0	85.1	83.8	84.9	86.6	87.7	89.2	89.8	90.1	90.2	90.6	91.1	23.5	89.9	
Metalliferous mining <sup>6</sup> .....	69.9	69.2	70.3	71.0	71.5	72.5	72.6	72.5	72.2	72.5	73.4	74.3	77.2	78.3	
Quarrying and nonmetallic mining .....	45.3	46.9	47.9	48.1	48.5	48.9	48.8	47.2	45.4	41.7	42.4	44.2	48.2	51.3	
Crude-petroleum production .....	62.9	63.3	63.8	63.7	63.6	63.0	62.4	61.3	60.7	60.3	60.4	60.2	60.1	60.4	
Telephone and telegraph .....	77.9	77.3	77.8	78.8	79.0	78.9	79.1	79.2	79.7	80.4	80.9	81.8	83.2	84.6	
Electric light and power <sup>7</sup> .....	91.1	90.6	91.2	92.2	93.0	92.7	92.3	91.8	91.3	90.5	90.1	90.3	91.3	92.3	
Street railways and busses <sup>7,8</sup> .....	68.5	68.4	68.5	68.4	68.4	68.5	68.7	68.7	68.4	68.3	68.0	68.2	68.3	68.9	
Wholesale trade .....	90.4	88.9	89.6	89.2	90.1	90.9	91.0	91.8	92.5	91.2	91.4	91.8	92.4	92.3	
Retail trade <sup>7</sup> .....	92.3	91.2	91.9	89.1	88.7	92.8	94.3	96.3	108.1	90.5	90.7	92.5	97.8	96.0	
Year-round hotels <sup>8</sup> .....	92.0	93.4	92.0	90.3	90.3	91.6	93.4	92.3	92.6	92.9	93.9	94.2	95.2	96.8	
Laundries <sup>8</sup> .....	99.5	99.1	102.1	102.5	102.8	101.9	100.2	99.7	100.3	101.4	101.1	102.5	104.9	108.4	
Dyeing and cleaning <sup>8</sup> .....	104.7	108.7	112.6	108.2	106.7	110.0	109.4	106.0	103.3	101.0	101.4	104.4	117.2	120.7	
Pay rolls															
All industries...	105.4	97.8	99.5	98.2	105.5	111.6	116.2	116.4	122.4	120.7	126.8	131.2	134.7	144.0	
Durable goods <sup>3</sup> .....	107.8	98.7	101.4	97.4	106.5	115.1	123.4	125.1	131.7	132.0	139.3	144.6	149.9	163.0	
Nondurable goods <sup>4</sup> .....	102.7	96.8	97.4	99.1	104.4	107.7	108.1	106.6	112.1	108.1	112.9	116.3	117.7	122.7	
Nonmanufacturing															
Anthracite mining <sup>5</sup> .....	38.5	40.0	40.6	36.5	33.1	39.3	32.3	37.6	42.7	38.5	45.2	42.4	24.3	33.4	
Bituminous-coal mining <sup>5</sup> .....	81.2	75.3	73.9	75.2	82.5	83.2	83.0	84.5	91.4	87.8	90.8	93.8	15.8	99.2	
Metalliferous mining <sup>6</sup> .....	66.7	65.7	65.3	63.6	68.5	69.5	71.3	69.8	72.8	70.4	71.8	72.7	78.6	81.8	
Quarrying and nonmetallic mining .....	40.5	42.7	43.9	43.5	45.2	46.2	46.7	42.3	42.4	36.9	38.2	40.3	47.0	53.6	
Crude-petroleum production .....	58.2	58.7	58.8	59.1	59.0	58.2	57.6	56.8	55.9	55.7	57.3	56.1	57.8	59.6	
Telephone and telegraph <sup>7</sup> .....	100.2	98.8	100.0	101.3	100.4	101.8	102.2	103.2	103.5	103.9	104.3	106.4	107.1	109.2	
Electric light and power <sup>7</sup> .....	104.8	104.2	104.8	105.8	108.1	105.8	107.0	106.9	106.0	105.1	105.4	106.1	107.6	110.3	
Street railways and busses <sup>7,8</sup> .....	70.4	69.2	70.5	70.0	70.4	71.5	70.7	70.3	73.1	70.7	71.0	72.5	72.0	73.0	
Wholesale trade .....	79.0	77.4	78.4	78.3	78.7	81.1	80.2	80.7	83.4	80.5	81.4	82.0	83.4	84.6	
Retail trade <sup>7</sup> .....	84.2	83.4	84.8	82.6	81.5	85.8	87.1	97.3	83.7	83.7	84.6	86.2	91.7	91.5	
Year-round hotels <sup>8</sup> .....	82.4	83.0	82.0	80.5	80.7	81.8	84.2	83.6	84.1	84.1	86.1	85.7	87.1	88.4	
Laundries <sup>8</sup> .....	87.7	88.5	92.4	90.0	90.5	89.9	88.0	87.2	89.2	89.8	89.7	90.9	95.8	98.9	
Dyeing and cleaning <sup>8</sup> .....	78.2	85.4	89.6	80.0	78.9	85.6	82.4	77.8	75.8	73.3	74.4	77.2	97.8	95.6	

<sup>1</sup> 3-year average 1923-25=100—adjusted to preliminary 1939 Census of Manufactures. See tables 9, 10, and 11 of December 1940 EMPLOYMENT AND PAY ROLLS for comparable figures back to January 1919 for "all manufacturing" and January 1923 for "durable goods" and "nondurable goods."

<sup>2</sup> 12-month average for 1929=100. Comparable indexes for wholesale trade, quarrying, metal mining, and crude-petroleum production are in November 1934 and subsequent issues of EMPLOYMENT AND PAY ROLLS, or in February 1935 and subsequent issues of MONTHLY LABOR REVIEW. For other nonmanufacturing indexes see notes 5, 6, and 7.

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

<sup>4</sup> Includes: Textiles and their products, leather and its manufactures, food and kindred products, tobacco manufactures, paper and printing, chemicals and allied products, products of petroleum and coal, rubber products, and a number of miscellaneous industries not included in other groups.

<sup>5</sup> Indexes have been adjusted to the 1935 census. Comparable series from January 1929 forward are presented in January 1938 and subsequent issues of this pamphlet. See also table 7 of October 1940 pamphlet for revised figures for anthracite mining February 1940 to September 1940.

<sup>6</sup> See table 7 of February 1941 pamphlet for revised indexes January 1938 to January 1941.

<sup>7</sup> Retail-trade indexes adjusted to 1935 census and public-utility indexes to 1937 census. Not comparable with indexes published in EMPLOYMENT AND PAY ROLLS pamphlets prior to January 1940 or in MONTHLY LABOR REVIEW prior to April 1940. Comparable series January 1929 to December 1939 available in mimeographed form.

<sup>8</sup> Covers street railways and trolley and motorbus operations of manufacturing, affiliated, and successor companies.



# INDUSTRIAL AND BUSINESS EMPLOYMENT IN PRINCIPAL METROPOLITAN AREAS

A comparison of employment and pay rolls in April and May 1941 is made in table 9 for 13 metropolitan areas, each of which had a population of 500,000 or over in 1930. Cities within these areas but having a population of 100,000 or over are not included. Footnotes to the table specify which cities are excluded. Data concerning them have been prepared in a supplementary tabulation which is available on request. The figures represent reports from cooperating establishments and cover both full- and part-time workers in the manufacturing and nonmanufacturing industries presented in table 6, with the exception of building construction, and include also miscellaneous industries.

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

TABLE 9.—*Comparison of Employment and Pay Rolls in Identical Establishments in April and May 1941, by Principal Metropolitan Areas*

Metropolitan area	Number of establish- ments May 1941	Number on pay roll May 1941	Percentage change from April 1941	Amount of pay roll (1 week) May 1941	Percentage change from April 1941
New York <sup>1</sup> ..	13,480	796,781	-0.3	\$24,837,036	+3.3
Chicago <sup>2</sup> ..	4,379	537,482	+2.6	17,025,228	+6.2
Philadelphia <sup>3</sup> ..	2,400	275,729	+1.8	8,604,633	+8.1
Detroit.....	1,146	398,648	+9	16,405,519	+17.9
Los Angeles <sup>4</sup> ..	2,876	243,329	+2.4	7,945,452	+3.9
Cleveland..	1,311	165,332	+8	5,797,062	+6.4
St. Louis..	1,370	156,015	+1.7	4,241,534	+3.6
Baltimore..	1,126	151,545	+3.1	4,650,927	+8.3
Boston <sup>5</sup> ..	2,680	219,788	+1.2	6,430,905	+3.9
Pittsburgh..	1,251	246,754	+6.8	9,086,333	+12.2
San Francisco <sup>6</sup> ..	1,738	107,310	+3.5	3,543,735	+5.2
Buffalo.....	801	114,384	+2.1	3,842,737	+8.8
Milwaukee..	979	132,848	+3.0	4,357,640	+6.1

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

<sup>2</sup> Does not include Gary, Ind.

<sup>3</sup> Does not include Camden, N. J.

<sup>4</sup> Does not include Long Beach, Calif.

<sup>5</sup> Does not include Cambridge, Lynn, or Somerville, Mass.

<sup>6</sup> Does not include Oakland, Calif.

## WAGE-RATE CHANGES IN AMERICAN INDUSTRIES

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

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

TABLE 10.—*Wage-Rate Changes Reported by Manufacturing and Nonmanufacturing Establishments During Month Ending May 15, 1941*<sup>1 2</sup>

Group and industry	Establishments		Employees		Average percent- age change in wage rates of em- ployees having increases
	Total number covered	Number reporting increases	Total number covered	Number having increases	
<b>All manufacturing..</b>	<b>33, 791</b>	<b>19, 26</b>	<b>7, 104, 962</b>	<b>720, 956</b>	<b>8. 9</b>
<b>Iron and steel group</b>	<b>2, 550</b>	<b>255</b>	<b>1, 025, 192</b>	<b>108, 048</b>	<b>11. 4</b>
Blast furnaces, steel works, and rolling mills..	339	60	546, 417	44, 576	10. 2
Bolts, nuts, washers, and rivets..	64	10	17, 941	3, 202	8. 1
Cast-iron pipe	69	9	19, 327	5, 505	9. 7
Cutlery (not including silver and plated cutlery) and edge tools..	115	4	14, 759	861	8. 2
Forgings, iron and steel..	98	11	18, 304	2, 570	12. 3
Hardware..	158	6	53, 420	4, 055	6. 6
Plumbers' supplies..	112	12	29, 015	1, 803	10. 3
Stamped and enameled ware	238	22	51, 090	5, 411	9. 3
Steam and hot-water heating apparatus and steam fittings..	107	14	39, 573	4, 214	7. 7
Stoves..	247	22	42, 563	3, 237	8. 3
Structural and ornamental metalwork..	301	18	34, 529	9, 057	13. 7
Tin cans and other tinware..	134	10	32, 327	3, 191	8. 6
Tools (not including edge tools, machine tools, files, and saws) ..	131	10	19, 367	1, 774	7. 4
Wirework..	164	16	28, 072	5, 787	10. 9
Metal doors and shutters..	21	4	4, 092	1, 435	8. 3
Screw-machine products..	78	7	14, 578	1, 285	11. 7
Wire not made in rolling mills..	44	9	17, 316	2, 879	11. 2
<b>Machinery group</b>	<b>3, 867</b>	<b>324</b>	<b>1, 144, 467</b>	<b>201, 279</b>	<b>9. 1</b>
Agricultural implements (including tractors) ..	110	17	69, 930	31, 750	5. 6
Electrical machinery, apparatus, and supplies..	596	62	322, 906	90, 182	11. 0
Engines, turbines, water wheels, and windmills	68	8	78, 497	18, 747	6. 2
Foundry and machine-shop products..	2, 285	177	363, 149	33, 198	9. 1
Machine tools..	203	18	92, 054	6, 297	7. 0
Radios and phonographs..	72	6	50, 817	5, 773	8. 3
Textile machinery and parts..	127	15	23, 123	5, 304	10. 0
Pumps..	109	7	24, 375	1, 231	8. 8
Sewing machines..	9	3	9, 365	6, 257	8. 8
<b>Transportation group</b>	<b>773</b>	<b>36</b>	<b>861, 752</b>	<b>17, 163</b>	<b>7. 0</b>
Aircraft..	96	7	170, 973	8, 544	4. 3
Automobiles..	400	10	469, 162	3, 093	9. 7
Cars, electric- and steam-railroad..	74	7	42, 160	2, 823	10. 5
Shipbuilding..	160	8	156, 012	1, 846	9. 7
<b>Nonferrous group</b>	<b>1, 091</b>	<b>76</b>	<b>245, 228</b>	<b>35, 566</b>	<b>8. 3</b>
Aluminum manufactures..	44	5	18, 643	8, 613	9. 9
Brass, bronze, and copper products..	336	37	96, 333	10, 453	8. 0
Lighting equipment..	94	6	14, 383	475	4. 9
Smelting and refining—copper, lead, and zinc..	53	10	30, 027	11, 386	8. 0
Sheet-metal work..	129	6	7, 197	306	9. 1
Smelting and refining of scrap metal..	27	5	3, 237	952	8. 4
<b>Lumber group</b>	<b>2, 646</b>	<b>177</b>	<b>346, 887</b>	<b>41, 120</b>	<b>7. 6</b>
Furniture..	722	28	109, 104	5, 186	7. 1
Lumber:					
Millwork..	573	22	38, 961	3, 063	6. 6
Sawmills..	785	109	142, 479	29, 468	7. 5
Wooden boxes, other than cigar..	135	6	14, 153	568	10. 1

See footnotes at end of table.

TABLE 10.—*Wage-Rate Changes Reported by Manufacturing and Nonmanufacturing Establishments During Month Ending May 15, 1941*<sup>1 2</sup>—Continued

Group and industry	Establishments		Employees		Average percent- age change in wage rates of em- ployees having increases
	Total number covered	Number reporting increases	Total number covered	Number having increases	
<b>Stone group</b> .....	<b>1,615</b>	<b>157</b>	<b>226,398</b>	<b>27,232</b>	<b>10.0</b>
Brick, tile, and terra cotta.....	542	61	46,335	12,015	11.3
Cement.....	134	52	22,857	9,298	10.3
Glass.....	151	4	70,416	1,213	5.6
Marble, granite, slate, and other products.....	252	13	6,362	488	3.9
Pottery.....	134	9	33,359	1,098	7.6
Asbestos products.....	21	3	9,766	666	8.1
Concrete products.....	98	3	2,633	199	9.2
Gypsum.....	26	6	3,291	1,142	7.1
<b>Textiles and their products</b> .....	<b>6,600</b>	<b>324</b>	<b>1,392,612</b>	<b>120,601</b>	<b>9.2</b>
Fabrics group.....	3,569	289	1,050,994	115,291	9.2
Carpet and rugs.....	33	4	28,415	5,081	5.6
Cotton goods.....	815	18	425,067	7,718	8.9
Cotton small wares.....	130	7	14,898	890	7.7
Dyeing and finishing textiles.....	211	9	59,205	1,312	8.4
Hats, fur-felt.....	36	3	6,403	673	11.5
Hosiery.....	315	3	99,947	1,155	5.2
Knitted underwear.....	136	3	40,233	570	6.4
Knitted cloth.....	75	4	7,369	535	7.1
Silk and rayon goods.....	408	17	78,656	1,588	8.6
Woolen and worsted goods.....	418	182	168,737	87,845	9.6
Textile bags.....	54	5	6,562	640	6.7
Cordage and twine.....	57	5	12,230	1,029	8.0
Gloves.....	38	9	6,503	1,681	6.0
Wearing apparel group.....	3,031	35	341,618	5,310	8.4
Clothing, men's.....	1,165	26	153,270	3,603	9.8
Clothing, women's.....	1,209	5	94,269	439	8.3
Shirts and collars.....	269	3	57,302	1,247	4.5
<b>Leather group</b> .....	<b>1,085</b>	<b>60</b>	<b>242,830</b>	<b>15,763</b>	<b>5.7</b>
Boots and shoes.....	508	25	170,017	9,451	5.6
Leather.....	181	27	39,273	4,959	5.6
Boot and shoe cut stock and findings.....	130	3	10,559	557	6.8
<b>Food group</b> .....	<b>5,425</b>	<b>193</b>	<b>463,486</b>	<b>63,243</b>	<b>8.1</b>
Baking.....	1,054	13	83,825	651	9.5
Beverages.....	623	21	42,486	1,034	6.9
Butter.....	319	3	6,146	184	8.6
Confectionery.....	288	10	35,102	2,938	8.2
Ice cream.....	270	4	10,383	149	7.6
Slaughtering and meat packing.....	343	66	120,639	52,625	8.1
Canning and preserving.....	1,034	28	62,381	1,578	10.5
Condensed and evaporated milk.....	111	7	6,860	239	9.8
Feeds, prepared.....	101	6	3,802	215	7.7
<b>Tobacco group</b> .....	<b>231</b>	<b>3</b>	<b>70,452</b>	<b>637</b>	<b>9.6</b>
Cigars and cigarettes.....	188	3	59,374	637	9.6
<b>Paper group</b> .....	<b>4,058</b>	<b>105</b>	<b>405,324</b>	<b>18,536</b>	<b>7.9</b>
Boxes, paper.....	670	17	47,662	1,269	10.4
Paper and pulp.....	450	42	143,216	12,564	7.0
Printing and publishing:					
Book and job.....	1,632	19	85,343	1,387	12.6
Newspapers and periodicals.....	733	10	64,180	621	3.9
Envelopes.....	62	10	7,010	2,006	10.0
Paper goods, not elsewhere classified.....	139	5	21,979	209	8.6
<b>Chemical group</b> .....	<b>2,303</b>	<b>154</b>	<b>347,171</b>	<b>56,157</b>	<b>7.4</b>
Chemicals.....	239	34	73,687	20,540	7.1
Druggists' preparations.....	92	3	13,060	118	4.0
Explosives.....	34	16	8,009	6,597	8.5
Fertilizers.....	319	7	16,639	1,100	11.2
Paints and varnishes.....	531	27	25,967	2,022	8.3
Petroleum refining.....	182	23	73,241	9,585	5.3
Rayon and allied products.....	30	3	51,305	5,481	5.2
Soap.....	87	12	17,042	5,001	9.0
Grease and tallow.....	23	4	509	116	8.0
Coke-oven products.....	20	3	7,426	634	16.5

See footnotes at end of table.

TABLE 10.—*Wage-Rate Changes Reported by Manufacturing and Nonmanufacturing Establishments During Month Ending May 15, 1941*<sup>1 2</sup>—Continued

Group and industry	Establishments		Employees		Average percent-age change in wage rates of employees having increases
	Total number covered	Number reporting increases	Total number covered	Number having increases	
<b>Rubber group</b> .....	280	8	135,971	3,546	7.8
Rubber goods, other.....	208	6	51,360	1,953	7.8
<b>Miscellaneous</b> .....	1,287	54	197,192	14,065	8.2
Instruments—professional, scientific, and commercial.....	63	5	23,526	1,841	8.8
Mattresses and bedsprings.....	190	3	11,662	202	11.6
Photographic apparatus.....	46	3	6,624	392	6.4
Surgical and orthopedic appliances.....	48	4	8,987	2,528	5.4
Fabricated plastic and wood-pulp products.....	73	9	19,150	2,017	10.5
<b>All nonmanufacturing (except building construction)</b> .....	*94,110	1,844	*3,064,500	349,121	15.6
Anthracite mining.....	*90	44	*58,500	58,500	7.5
Bituminous-coal mining.....	*1,110	(3)	*254,900	(3)	(3)
Metalliferous mining.....	*390	27	*72,900	6,327	8.1
Quarrying and nonmetallic mining.....	*1,120	39	*38,800	2,593	10.0
Crude-petroleum production.....	*480	25	*39,300	2,754	5.1
Natural gas.....	*660	52	*25,000	2,510	9.9
Electric light and power.....	*2,870	37	*249,100	5,275	5.0
Street railways and busses.....	*350	31	*130,600	5,415	4.6
Wholesale trade.....	*15,140	402	*347,200	5,147	6.8
Retail trade.....	*53,840	645	*1,100,400	3,488	7.7
Hotels.....	*2,020	8	*151,600	270	11.1
Laundries.....	*1,340	7	*85,200	364	9.8
Dyeing and cleaning.....	*890	5	*20,200	50	9.3
Insurance.....	*2,700	32	*125,400	806	2.9

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

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

<sup>3</sup> It is estimated that nearly 400,000 bituminous-coal miners received wage-rate increases averaging approximately 18 percent.

\*Approximate—based on previous month's sample.

### Public Employment

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

#### EXECUTIVE SERVICE OF THE FEDERAL GOVERNMENT

Statistics of employment and pay rolls for the executive service of the Federal Government in April and May 1941 are given in table 11.

TABLE 11.—*Employment and Pay Rolls, for the Executive Service of the United States Government, May 1941*<sup>1</sup>

[Subject to revision]

Class	Employment			Pay rolls		
	May 1941	April 1941	Percentage change	May 1941	April 1941	Percentage change
Entire service: Total.....	1,306,333	1,251,283	+4.4	\$198,382,389	\$189,213,464	+4.8
Regular appropriation.....	1,116,503	1,061,520	+5.2	170,169,547	161,374,753	+5.4
Emergency appropriation...	47,326	47,647	— .7	6,578,430	6,513,579	+ .1
Force-account.....	142,504	142,116	+ .3	21,634,412	21,325,132	+1.5
Inside District of Columbia: Total..	177,328	172,876	+2.6	30,268,124	29,426,672	+2.9
Regular appropriation.....	160,794	156,071	+3.0	27,316,671	26,432,190	+3.3
Emergency appropriation...	7,741	7,656	+1.1	1,210,124	1,184,746	+2.1
Force-account.....	8,793	9,149	—3.9	1,741,329	1,809,736	—3.8
Outside District of Columbia: Total..	1,129,005	1,078,407	+4.7	168,114,265	159,786,792	+5.2
Regular appropriation.....	955,709	905,449	+5.6	142,852,876	134,942,563	+5.9
Emergency appropriation...	39,585	39,991	—1.0	5,368,306	5,328,833	+ .7
Force-account.....	133,711	132,967	+ .6	19,893,083	19,515,396	+1.9

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

### CONSTRUCTION PROJECTS FINANCED BY THE PUBLIC WORKS ADMINISTRATION

Details concerning employment, pay rolls, and man-hours worked during May on construction projects financed from Public Works Administration funds are given in table 12, by type of project.

TABLE 12.—*Employment and Pay Rolls on Projects Financed from Public Works Administration Funds, May 1941*<sup>1</sup>

[Subject to revision]

Type of project	Employment		Monthly pay rolls	Man-hours worked during month	Average earnings per hour	Value of material orders placed during month
	Maximum <sup>2</sup>	Weekly average				
All programs..	10,209	8,862	\$1,219,777	1,263,636	\$0.965	\$2,468,053
Federal projects financed from National Industrial Recovery Act funds						
All projects.....	<sup>3</sup> 169	156	\$15,810	25,143	\$0.629	\$20,226
Building construction.....	41	32	4,472	3,342	1.338	5,852
Public roads <sup>4</sup> .....	(6)	86	5,561	13,533	.411	11,000
Reclamation.....	40	36	5,722	8,228	.695	885
Miscellaneous.....	2	2	55	40	1.375	2,489

See footnotes at end of table.

TABLE 12.—*Employment and Pay Rolls on Projects Financed from Public Works Administration Funds, May 1941*<sup>1</sup>—Continued

Type of project	Employment		Monthly pay rolls	Man-hours worked during month	Average earnings per hour	Value of material orders placed during month
	Maximum <sup>2</sup>	Weekly average				
	Federal projects financed from Public Works Administration Appropriation Act 1938 funds					
All projects...	1, 533	1, 368	\$188, 098	226, 451	\$0. 831	\$273, 391
Airport construction (exclusive of buildings).....	244	244	26, 616	42, 708	. 623	28, 833
Building construction..	267	237	36, 246	32, 265	1. 123	156, 203
Reclamation.....	909	794	119, 087	143, 724	. 829	85, 165
River, harbor, and flood control.....	100	82	4, 641	5, 845	. 794	790
Professional, technical, and clerical.....	2	2	232	340	. 682	0
Miscellaneous.....	11	9	1, 276	1, 569	. 813	2, 400
	Non-Federal projects financed from National Industrial Recovery Act funds					
All projects..	67	56	\$6, 985	6, 839	\$1. 021	\$9, 693
Building construction..	49	39	4, 573	4, 427	1. 033	9, 693
Miscellaneous.....	18	17	2, 412	2, 412	1. 000	0
	Non-Federal projects financed from Emergency Relief Appropriation Act 1935, 1936, and 1937 funds					
All projects.....	3, 354	3, 035	\$374, 798	497, 712	\$0. 753	\$963, 351
Building construction.....	49	39	3, 132	2, 540	1. 233	39, 894
Electrification.....	202	151	12, 453	14, 706	. 847	59, 121
Heavy engineering.....	3, 016	2, 792	356, 487	475, 031	. 750	\$28, 575
Water and sewerage.....	87	53	2, 726	5, 435	. 502	35, 761
	Non-Federal projects financed from Public Works Administration Appropriations Act 1938 funds					
All projects.....	5, 086	4, 247	\$634, 086	50, 491	\$1. 249	\$1, 201, 392
Building construction.....	1, 635	1, 320	213, 422	142, 370	1. 499	544, 711
Electrification.....	194	158	39, 651	26, 129	1. 517	27, 599
Heavy engineering.....	1, 868	1, 597	237, 862	205, 869	1. 155	441, 331
Streets and roads.....	392	308	29, 530	29, 100	1. 015	95, 560
Water and sewerage.....	997	864	113, 621	104, 023	1. 092	92, 191

<sup>1</sup> Data are for the month ending on the 15th.

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

<sup>3</sup> Includes weekly average for public roads.

<sup>4</sup> Under the jurisdiction of the Public Roads Administration.

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

#### UNITED STATES HOUSING AUTHORITY

Table 13 shows data concerning employment, pay rolls, and man-hours worked in May 1941 on low-rent projects of the United States Housing Authority.

**TABLE 13.—Employment and Pay Rolls on Low-rent Housing Projects Sponsored by the United States Housing Authority, May 1941**

[Subject to revision]

Geographic division	Employment		Monthly pay rolls	Man-hours worked during month	Average earnings per hour	Value of material orders placed during month
	Maximum	Weekly average				
All divisions..	41, 576	35, 171	\$4, 505, 728	4, 664, 209	\$0. 966	\$6, 208, 613
New England..	3, 974	3, 460	454, 436	433, 498	1. 048	726, 778
Middle Atlantic..	5, 670	4, 785	826, 451	629, 873	1. 312	992, 873
East North Central..	6, 896	5, 848	899, 478	769, 690	1. 169	1, 248, 696
West North Central..	214	173	19, 292	20, 847	. 925	29, 467
South Atlantic..	11, 410	9, 656	1, 110, 290	1, 334, 723	. 832	1, 523, 753
East South Central..	3, 549	2, 858	286, 334	371, 555	. 771	335, 465
West South Central..	5, 966	5, 125	526, 158	640, 316	. 822	987, 111
Mountain..	438	380	47, 065	44, 805	1. 050	39, 171
Pacific..	2, 234	1, 795	295, 133	248, 236	1. 189	293, 394
Outside continental United States..	1, 225	1, 091	41, 091	170, 666	. 241	31, 905

### WORK PROJECTS ADMINISTRATION PROGRAM

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

**TABLE 14.—Employment and Pay Rolls on Projects Financed by the Work Projects Administration, May 1941**

[Subject to revision]

Type of project	Employment		Monthly pay-roll disbursements	Number of man-hours worked during month	Average earnings per hour	Value of material orders placed during month
	Maximum number employed <sup>1</sup>	Weekly average				
All projects	Projects operated by Work Projects Administration <sup>2</sup>					
		1, 446, 994	\$86, 527, 291	190, 895, 422	\$0. 453	(3)
	Projects operated by other Federal agencies					
All projects	54, 174	52, 212	\$2, 711, 234	6, 263, 822	\$0. 433	\$697, 909
Airport construction (exclusive of buildings) <sup>4</sup>	204	200	15, 866	29, 464	. 538	40, 713
Building construction	26, 104	24, 856	1, 339, 329	3, 070, 123	. 436	332, 600
Forestry	7, 779	7, 691	314, 494	807, 201	. 390	50, 075
Grade-crossing elimination <sup>5</sup>	197	149	15, 618	23, 293	. 671	24, 853
Hydroelectric power plants <sup>4</sup>	1, 254	1, 228	57, 284	206, 180	. 278	109, 227
Plant, crop, and livestock conservation	5, 694	5, 627	279, 397	603, 481	. 463	45, 123
Professional, technical, and clerical	2, 802	2, 735	192, 266	322, 668	. 596	4, 040
Public roads <sup>5</sup>	217	155	11, 219	21, 553	. 521	14, 751
Reclamation	8, 944	8, 677	451, 416	1, 070, 565	. 422	36, 519
River, harbor, and flood control	41	31	1, 973	3, 441	. 573	0
Streets and roads	542	500	20, 970	60, 773	. 345	38, 224
Water and sewerage	171	142	4, 736	17, 920	. 264	1, 494
Miscellaneous	225	221	6, 666	27, 160	. 245	290

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

<sup>2</sup> Data are for the calendar month; will be published by type of project in June pamphlet.

<sup>3</sup> Data on a monthly basis are not available.

<sup>4</sup> Includes projects under construction in Puerto Rico.

<sup>5</sup> Projects under the jurisdiction of the Public Roads Administration.

Data on employment, pay rolls, and man-hours worked in May on each type of project operated by the Work Projects Administration were not available when this report was prepared. The figures for April are presented in table 15.

**TABLE 15.—Average Employment and Pay Rolls on Projects Operated by the Work Projects Administration, by Type of Project, April 1941**

[Subject to revision]

Type of project	Employment <sup>1</sup>	Pay-roll disbursements	Man-hours worked	Average earnings per hour
All projects.....	1,566,325	\$92,325,962	205,148,616	\$0.450
Conservation.....	39,223	2,304,355	5,208,697	.442
Highways, roads, and streets.....	567,953	30,173,534	73,040,327	.413
Community service programs, excluding sewing..	323,199	20,698,176	42,038,396	.492
Public buildings <sup>2</sup> .....	144,341	9,418,295	19,420,710	.485
Publicly owned or operated utilities..	161,599	10,364,634	22,227,555	.466
Recreational facilities <sup>3</sup> .....	61,188	3,700,457	7,493,062	.494
Sanitation.....	17,258	923,818	2,247,380	.411
Sewing.....	105,118	5,551,981	13,668,735	.406
Airports and airways.....	70,602	4,058,529	9,772,944	.415
Not elsewhere classified—Total.....	75,844	5,132,183	10,030,810	.512
National defense vocational training..	33,483	1,860,641	4,111,977	.452
Other.....	42,361	3,271,542	5,918,833	.553

<sup>1</sup> Data for "All projects" represent the average of the weekly employment counts made as of each Wednesday during the calendar month. The distribution by type of project is, except for "National defense vocational training," estimated on the basis of employment on Apr. 30, 1941.

<sup>2</sup> Separate data for housing projects are not available.

<sup>3</sup> Exclusive of buildings.

## NATIONAL YOUTH ADMINISTRATION

Employment and pay rolls on the National Youth Administration projects for April and May 1941 are shown in table 16.

**TABLE 16.—Employment and Pay Rolls on National Youth Administration Projects, May and April 1941**

[Subject to revision]

Type of project	Employment		Pay rolls	
	May	April	May	April
Total.....	863,458	905,721	\$11,609,269	\$11,856,161
Student work program.....	463,978	480,419	3,400,476	3,369,480
Out-of-school work program.....	399,480	425,302	8,208,793	8,486,681



## CIVILIAN CONSERVATION CORPS

Employment and pay rolls in the Civilian Conservation Corps in April and May 1941 are presented in table 17.

TABLE 17.—*Employment and Pay Rolls in the Civilian Conservation Corps, May 1941*<sup>1</sup>

[Subject to revision]

Group	Employment		Pay rolls	
	May 1941	April 1941	May 1941	April 1941
All groups....	261,357	266,645	\$12,242,703	\$12,339,002
Enrolled personnel <sup>2</sup> .....	225,957	231,762	7,036,039	7,216,419
Nurses <sup>3</sup> .....	124	123	16,011	17,249
Educational advisers <sup>3</sup> .....	1,518	1,515	261,915	261,339
Supervisory and technical <sup>3</sup> .....	33,758	33,245	4,928,738	4,843,995

<sup>1</sup> Employment figure is an average of counts of enrolled personnel taken at 10-day intervals, and number employed on last day of month for other groups.

<sup>2</sup> May data include 3,080 enrollees and pay roll of \$62,007 outside continental United States; in April the corresponding figures were 3,409 enrollees and pay roll of \$67,128.

<sup>3</sup> Included in executive service, table 11.

CONSTRUCTION PROJECTS FINANCED BY THE RECONSTRUCTION  
FINANCE CORPORATION

Statistics of employment, pay rolls, and man-hours worked on construction projects financed by the Reconstruction Finance Corporation in May are presented in table 18, by type of project.

TABLE 18.—*Employment and Pay Rolls on Projects Financed by the Reconstruction Finance Corporation, by Type of Project, May 1941*<sup>1</sup>

[Subject to revision]

Type of project	Employment <sup>2</sup>	Monthly pay rolls	Man-hours worked during month	Average earnings per hour	Value of material orders placed during month
All projects..	9,258	\$1,261,547	1,066,024	\$1.183	\$3,113,560
Building construction <sup>3</sup> .....	8,533	1,205,956	1,005,440	1.199	3,066,343
Streets and roads.....	409	8,212	12,503	.657	672
Water and sewerage.....	179	27,510	32,842	.838	40,177
Heavy engineering.....	137	19,869	15,239	1.304	6,368

<sup>1</sup> Data are for the month ending on the 15th.

<sup>2</sup> Maximum number employed during any 1 week of the month by each contractor.

<sup>3</sup> Includes 348 employees; pay-roll disbursements of \$70,313; 55,207 man-hours worked; and material orders placed of \$1,159 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 May 1941 are given in table 19, by type of project.

TABLE 19.—*Employment and Pay Rolls on Construction Projects Financed from Regular Federal Appropriations, by Type of Project, May 1941*<sup>1</sup>

[Subject to revision]

Type of project	Employment		Monthly pay rolls	Man-hours worked during month	Average earnings per hour	Value of material orders placed during month
	Maximum <sup>2</sup>	Weekly average				
All projects..	3 809,402	748,115	\$107,643,982	122,545,796	\$0.878	\$189,650,571
Airport construction....	47,497	42,933	6,436,588	6,739,018	.955	10,592,823
Building construction:						
Residential.....	66,337	60,783	6,637,069	7,848,834	.846	7,645,363
Nonresidential....	328,813	292,679	46,305,732	48,160,078	.961	70,297,339
Electrification:						
Rural electrification administration projects <sup>4</sup> .....	10,659	8,870	591,955	1,133,247	.522	2,621,174
Other than R. E. A. projects....	755	632	77,604	78,967	.983	538,405
Forestry.....	1	1	150	176	.852	—
Heavy engineering....	6,678	6,678	432,783	803,248	.539	721,138
Public roads <sup>5</sup> .....	(6)	70,832	7,389,632	11,051,300	.669	7,874,450
Reclamation.....	28,542	27,422	4,358,599	4,712,661	.925	5,604,346
River, harbor and flood control:						
Dredging, dikes, revetments, etc.	28,779	25,147	2,969,997	4,170,964	.712	3,821,099
Locks and dams....	6,580	6,075	885,584	1,057,921	.837	1,118,901
Ship construction:						
Naval vessels.....	145,879	141,899	24,816,641	27,652,719	.897	62,860,697
Other than naval vessels....	47,115	44,002	5,652,945	6,340,648	.892	13,793,298
Streets and roads.....	2,814	2,503	236,160	333,043	.709	426,278
Water and sewerage....	1,935	1,822	233,659	391,301	.597	623,097
Miscellaneous.....	16,186	15,837	618,884	2,071,671	.299	1,112,163

<sup>1</sup> Data are for the month ending on the 15th.

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

<sup>3</sup> Includes weekly average for public-road projects.

<sup>4</sup> Financed by Rural Electrification Administration loans.

<sup>5</sup> Under the jurisdiction of the Public Roads Administration.

<sup>6</sup> Not available; weekly average included in the total for all projects.

### STATE-ROADS PROJECTS

A record of employment and pay-roll disbursements on the construction and maintenance of roads financed wholly from State or local funds in May 1941, compared with April 1941, and May 1940, is presented in table 20.

TABLE 20.—*Employment and Pay Rolls on Construction and Maintenance of State Roads, May 1941, April 1941, and May 1940*<sup>1</sup>

[Subject to revision]

Item	Employment <sup>2</sup>			Pay rolls		
	May 1941	April 1941	May 1940	May 1941	April 1941	May 1940
Total..	174,159	145,520	174,655	\$14,671,221	\$11,811,753	\$12,920,046
New roads.....	55,214	34,608	48,463	3,837,660	2,528,657	3,071,048
Maintenance.....	118,945	110,912	126,192	10,833,561	9,283,096	9,848,998

<sup>1</sup> Projects financed wholly from State or local funds.

<sup>2</sup> Average number working during month.