

UNITED STATES DEPARTMENT OF LABOR

Frances Perkins, *Secretary*

BUREAU OF LABOR STATISTICS

Isador Lubin, *Commissioner (on leave)*

A. F. Hinrichs, *Acting Commissioner*



# EMPLOYMENT AND PAY ROLLS

DECEMBER 1941

**PLEASE NOTE.**—In the interest of economy during the war, the monthly publication of this pamphlet, *Employment and Pay Rolls*, is discontinued with this issue. It is planned to present a semiannual bulletin in similar form which will contain individual industry data relating to employment, hours, and earnings for the 6 months including the month of issue. For example, the June 1942 issue will cover the period January to June 1942, inclusive.

Information similar to that contained in the monthly pamphlets is available each month in two mimeographed reports—"Employment and Pay Rolls" and "Hours and Earnings." If you are not now receiving and have need for either of these mimeographed monthly reports, they will be made available upon request.

The *Monthly Labor Review* will continue to carry information similar to that contained in the monthly pamphlets. The Review is not available for general distribution but is for sale by the Superintendent of Documents, Government Printing Office, Washington, D. C. The subscription price is \$3.50 per year.

## CONTENTS

---

Summary of employment reports for December 1941:	Page
Total nonagricultural employment.....	1
Industrial and business employment.....	1
Public employment.....	3
Detailed tables for December 1941:	
Nonagricultural employment.....	7
Industrial and business employment.....	9
Public employment.....	31
Purchases from public funds.....	36

# *Employment and Pay Rolls*

## SUMMARY OF REPORTS OF EMPLOYMENT FOR DECEMBER 1941

### *Total Nonagricultural Employment*

TOTAL civil nonagricultural employment showed a gain of 207,000 workers between November and December, bringing the total number employed to 40,963,000. This was the highest level on record, exceeding the December 1940 total by 2,802,000 and the December 1929 figure by 5,047,000. These figures do not include C. C. C. enrollees, workers on W. P. A. or N. Y. A. projects, nor the armed forces. Emergency employment, excluding the armed forces, totaled 1,810,000 in December.

Five of the major industrial groups covered showed declines in employment over the month interval, namely, contract construction (141,000); manufacturing (37,000); transportation and public utilities (35,000); finance, service, and miscellaneous (6,000); and mining (4,000). The two groups showing gains were trade (357,000) and Federal, State, and local Government (73,000). The increase in trade reflected the hiring of temporary personnel to handle the holiday business in retail stores, and the increase in Government employment was due in large part to temporary expansion of post-office personnel.

A comparison with December of last year showed substantial gains in all of the major groups as follows: Manufacturing, 1,599,000; Federal, State, and local Government, 423,000; trade, 256,000; transportation and public utilities, 248,000; finance, service, and miscellaneous, 124,000; contract construction, 100,000; and mining, 52,000.

Emergency employment on projects of the W. P. A., N. Y. A., and C. C. C. declined 45,600 in the past month. The reductions were distributed as follows: W. P. A., 3,300; N. Y. A., 24,900; and C. C. C., 17,400. Over the past year, work-relief personnel on these 3 projects declined 1,098,000 persons.

### *Industrial and Business Employment*

Gains in employment between mid-November and mid-December were reported by 68 of the 157 manufacturing and by 8 of the 16 nonmanufacturing industries regularly surveyed by the Bureau of

Labor Statistics. Pay-roll increases were reported by 109 of the manufacturing and 12 of the nonmanufacturing industries.

The less-than-seasonal decreases of 0.4 percent, or 37,000 wage earners, in all manufacturing industries combined was caused largely by a sharp reduction in employment in automobile plants, as passenger-car production was cut during the latter part of December, and by a greater-than-seasonal decline in the canning and preserving industry. In addition, many establishments continued to report employment reduction because of inability to secure raw materials. These decreases were partly offset by continued gains in war industries and by a sharp rise in the slaughtering and meat-packing industry.

Despite the decline in manufacturing employment, there was a larger-than-seasonal gain of 2.9 percent, or \$9,113,000, in weekly pay rolls. The seasonally expected changes in manufacturing employment and pay rolls in December are  $-0.7$  and  $+0.4$  percent, respectively.

The employment index for all manufacturing industries combined in December stood at 134.3 percent of the 1923-25 average, and the pay-roll index at 170.2. Compared with December 1940, factory wage-earner employment had increased by 15.6 percent (1,427,000), and corresponding weekly wages by 39.1 percent, or \$90,573,000. The larger increase in pay rolls than in employment reflected overtime premiums, wage-rate increases, and expansion in working hours. The rise of 6.2 percent or 10,200 workers in meat-packing employment raised the employment index for that industry to 137.7, the highest level on record. Other industries not directly related to the war effort and showing substantial increases over the month were leather boots and shoes, newspapers and periodicals, and book and job printing. Industries directly connected with the war effort, such as aircraft, engines, shipbuilding, and machine tools, continued to report gains in employment and pay rolls.

Employment in the durable goods group of manufacturing industries as a whole declined 0.2 percent in December to 144.3 percent of the 1923-25 average, while pay rolls advanced 2.9 to 195.9 percent of that average. In nondurable goods, employment fell 0.6 percent over the month interval, and pay rolls increased 2.8 percent, the December employment index dropping to 124.7 and the pay-roll index rising to 141.3.

Among the nonmanufacturing industries, retail trade showed a seasonal increase between mid-November and mid-December of 9.5 percent, bringing the employment index for that industry to the highest December level on record. Substantial employment declines were reported for building construction, dyeing and cleaning, quarrying and nonmetallic mining, and anthracite mining. The increases and decreases in the remaining nonmanufacturing industries did not exceed 0.5 percent in any industry.

A preliminary report of the Interstate Commerce Commission for class I steam railroads showed an employment decrease of 1.5 percent between November and December, the total number employed in December being 1,184,536. Corresponding pay-roll figures for December were not available when this report was prepared. For November, they were \$192,724,101, a decrease of \$14,251,885 since October.

*Hours and earnings.*—The average hours worked per week by manufacturing wage earners were 41.2 in December, an increase of 2.3 percent since November. Corresponding average hourly earnings were 78.7 cents, a gain of 0.8 percent over the preceding month. The average weekly earnings of factory wage earners (both full- and part-time combined) were \$33.69, an increase of 3.3 percent since November.

Of the 16 nonmanufacturing industries regularly surveyed, 13 reported increases in average weekly earnings. Of the 14 nonmanufacturing industries for which man-hours are available, 12 showed increases in average hours worked per week and 8 showed gains in average hourly earnings.

Wage-rate increases averaging 7.4 percent and affecting 238,000 wage earners were reported by nearly 600 manufacturing plants out of a reporting sample of approximately 34,000 plants employing about 7,800,000 wage earners. 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 industries.

### *Public Employment*

Employment in the executive service of the Federal Government reached 1,671,000 persons during the month of December, while pay rolls reached \$254,452,000. Of the total number employed in the executive service, 207,000, or 12 percent, worked inside the District of Columbia, and 194,000 were force-account employees whose period of employment will terminate at the completion of the construction project on which they are engaged. The increase of 126,000 employees over November was to a large extent due to the employment of temporary workers by the Post Office Department. Important increases in employment were reported also by the War and Navy Departments, and by the Office for Emergency Management, while no important decreases were reported.

Employment in the legislative and judicial branches of the Government increased approximately 1 percent during the month with the addition of 99 employees. The legislative branch employed 6,290

employees and the judicial 2,590. Corresponding pay rolls were \$1,374,000 and \$657,000.

In the month ending December 15, defense construction projects employed 35,800 more persons than in the preceding month, the bulk of the increase taking place in the construction of naval and other vessels. Decreased employment of 25,200, on the other hand, was reported on nondefense construction projects. Part of this decline was due to the gradual contraction of projects financed by the United States Housing Authority and the Reconstruction Finance Corporation, and part was due to a seasonal decline on construction projects financed from regular Federal appropriations. All construction projects financed wholly or partially from Federal funds employed 1,083,000 building-trades workers in the current month. Only 194,000 of these construction workers, however, were employed directly by the Federal Government on a force-account basis, the other workers being employed by contractors for Government projects. The total pay roll for the month for both force-account and contract workers amounted to \$179,027,000.

Personnel on work-relief programs of the Work Projects Administration, National Youth Administration, and the Civilian Conservation Corps was reduced during the month of December by 46,900, although pay rolls were increased \$7,770,000. The decline in personnel took place mainly in the enrollee group of the C. C. C. and in the out-of-school work program of the N. Y. A. The pay-roll increase was mainly in the nondefense group of the W. P. A. Nurses, educational advisers, and supervisory and technical employees constituted 15 percent of the C. C. C. workers, while approximately 5 percent of the N. Y. A. and W. P. A. personnel were employed in a supervisory capacity. Personnel on work-relief programs in December totaled 1,832,000 and pay rolls totaled \$86,495,000.

Seasonal factors were responsible for the decline of 23,500 employees working on State or locally financed road projects in the month of December. The 149,000 road workers employed, however, exceeded the number employed a year ago by 6,540. Most of the gradual decline since August 1941 took place in the number engaged on road maintenance, until November when the number engaged on the construction of new roads suddenly declined. In December, employment on new roads was only 57 percent of the August level. Workers on State roads received a pay roll of \$12,903,000 in December.

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

**TABLE 1.—Summary of Employment and Pay Rolls in Regular Federal Services and on Projects Financed Wholly or Partially From Federal Funds, November and December, 1941 <sup>1</sup>**

[Subject to revision]

Class	Employment			Pay rolls		
	December 1941	November 1941	Percentage change	December 1941	November 1941	Percentage change
Federal services:						
Executive <sup>2</sup> .....	1, 670, 922	1, 545, 131	+8. 1	\$254, 452, 078	\$237, 398, 486	+7. 2
Judicial.....	2, 593	2, 582	+ .4	656, 938	654, 806	+ .3
Legislative.....	6, 290	6, 202	+1. 4	1, 373, 715	1, 360, 645	+1. 0
Construction projects:						
Financed from regular Federal appropriations.....	1, 039, 672	1, 018, 930	+2. 0	172, 262, 023	167, 455, 277	+2. 9
Defense.....	921, 915	878, 361	+5. 0	155, 370, 610	148, 426, 608	+4. 7
Other.....	117, 757	140, 569	-16. 2	16, 891, 413	19, 028, 669	-11. 2
Financed by U. S. H. A.:						
Defense.....	25, 499	29, 862	-14. 6	3, 407, 691	3, 981, 702	-14. 4
Other.....	5, 799	7, 983	-27. 4	806, 990	1, 149, 347	-29. 8
Financed by P. W. A. <sup>3</sup> .....	19, 700	21, 879	-10. 0	2, 600, 701	2, 832, 355	-8. 2
Financed by R. F. C. <sup>4</sup> .....	2, 378	2, 284	+4. 1	479, 827	322, 668	+48. 7
Defense.....	15, 809	21, 528	-26. 6	2, 877, 769	3, 590, 705	-19. 9
Other.....	14, 175	19, 732	-28. 2	2, 629, 608	3, 313, 032	-20. 6
Work Projects Administration projects:						
Defense.....	1, 053, 095	1, 056, 401	- .3	69, 769, 684	60, 600, 000	+15. 1
Other.....	322, 406	324, 107	- .5	20, 763, 347	18, 100, 000	+14. 7
National Youth Administration:						
Student work program.....	730, 689	732, 294	- .2	49, 006, 337	42, 500, 000	+15. 3
Out-of-school work program.....	338, 481	342, 509	-1. 2	2, 312, 174	2, 375, 097	-2. 6
Civilian Conservation Corps.....	288, 129	308, 975	-6. 7	6, 928, 891	7, 507, 844	-7. 7
	152, 748	171, 493	-10. 9	7, 484, 630	8, 242, 555	-9. 2

<sup>1</sup> For explanation of employment count, and pay-roll period, see footnotes to detailed tables.

<sup>2</sup> Includes force-account and supervisory and technical employees shown under other classifications to the extent of 216,866 employees and \$38,140,082 pay roll for December, and 224,054 employees and \$34,314,666 pay roll for November.

<sup>3</sup> Includes data covering P. W. A. projects financed from Emergency Relief Appropriation Act, 1935, 1936, 1937 funds, as follows: For December, 1,018 wage earners and \$129,206 pay roll; for November, 940 wage earners and \$133,333 pay roll. Also includes data covering P. W. A. projects financed from Public Works Administration Appropriation Act of 1938, as follows: For December, 1,265 wage earners and \$339,067 pay roll; for November, 1,238 wage earners and \$179,507 pay roll. Also includes data for P. W. A. projects financed from National Industrial Recovery Act funds, as follows: For December, 95 wage earners and \$11,554 pay roll; for November, 106 wage earners and \$9,828 pay roll.

<sup>4</sup> Includes 349 employees and \$49,468 pay roll for December, and 1,218 employees and \$149,238 pay roll for November, on projects financed by the RFC Mortgage Co.

### *Purchases From Public Funds*

During the quarter ending December 1941, the value of material orders placed on construction projects financed from regular Federal appropriations and from U. S. H. A., R. F. C., and P. W. A. funds was \$810,620,000. The amount of employment created in fabrication and in transportation of these materials to the construction site was estimated at 1,632,000 man-months.

Orders for machinery products (including electrical) amounted to 41 percent of the total value of material orders placed. Iron and steel products ranked second with 24 percent, and stone, clay, and glass products, third, with 15 percent. Nonferrous metals and their products—including aluminum, copper, lead, and zinc products—accounted for 1 percent of the total.

Since the third quarter of 1941 the total value of material orders placed on these construction projects increased 12 percent, and since the fourth quarter of 1940, 85 percent.

Material orders that were placed on construction projects of the Work Projects Administration, during the quarter ending September 1941, were valued at \$73,846,000 and created an estimated 157,000 man-months of employment in fabrication and transportation to construction site. Corresponding figures for the W. P. A. for the fourth quarter of 1941 are not yet available.

Stone, clay, and glass products (including cement, concrete products, crushed stone, etc.) ranked first in value on W. P. A. projects, accounting for 38 percent of the total, and together with iron and steel products accounted for 57 percent. Machinery products, the value of which was 41 percent of the total on other construction programs, amounted to only 4 percent on projects of the Work Projects Administration.

The value of material orders placed on W. P. A. projects, including the value of rentals and services, decreased 6 percent during the third quarter of 1941 and 9 percent since the third quarter of 1940.

The man-months of labor created in fabrication and transportation to site of materials ordered for construction projects financed by the Federal Government, discussed above, do not represent direct governmental employment, but private employment created by Government-financed projects.

The estimated man-months of labor, as stated above, include only the labor required in the final fabrication of materials into the form in which they are to be used and their transportation from the point of fabrication to the site of the construction project. No estimates are made of the labor required in producing the raw materials or in transporting them to the point of manufacture. For structural steel, for example, no estimates are made of the labor created in mining, smelting, and transporting the ore, nor of the labor in blast furnaces, open-hearth furnaces, or blooming mills.

TABLE 2.—*Value of Material Orders Placed for Projects Financed Wholly or Partially From Federal Funds and Number of Man-Months of Labor Created*<sup>1</sup>

[Subject to revision]

Program	Value of material orders placed			Man-months of labor created in final fabrication		
	Fourth quarter 1941	Third quarter 1941	Fourth quarter 1940	Fourth quarter 1941	Third quarter 1941	Fourth quarter 1940
Public Works Administration <sup>1</sup> .....	\$1,787,883	\$2,861,077	\$13,374,652	3,104	5,394	27,222
U. S. H. A. low-rent housing.....	15,709,168	21,861,362	21,276,497	35,180	49,265	49,437
Reconstruction Finance Corporation <sup>2</sup> .....	20,681,549	23,802,324	1,846,261	42,141	46,837	3,395
Regular Federal appropriations.....	772,441,607	675,390,417	401,358,476	1,651,756	1,339,516	832,979
Work Projects Administration.....	( <sup>3</sup> )	73,846,249	88,616,927	( <sup>3</sup> )	156,943	188,122
Rentals and services on W. P. A. projects.....	( <sup>3</sup> )	59,119,093	66,880,484	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )

<sup>1</sup> Data unavailable for National Youth Administration projects.

<sup>2</sup> Includes data covering projects financed from E. R. A. A. 1935, 1936, and 1937, and P. W. A. A. 1938 funds

Also includes low-rent housing projects financed from funds of N. I. R. A. and E. R. A. A. 1935.

<sup>3</sup> Includes RFC Mortgage Co.

<sup>4</sup> Data not available.



The value of the material orders placed and the estimated man-months of labor created in final fabrication and transportation are presented in table 2 for the fourth quarter of 1940 and the third and fourth quarters of 1941. Detailed data by type of material are given in tables 21 and 22.



## DETAILED TABLES FOR DECEMBER 1941

### *Estimates of Nonagricultural Employment*

IN TABLE 3 are given estimates of nonagricultural employment by major groups. The figures for "Total civil nonagricultural employment" and "Civil employees in nonagricultural establishments" are based on the number of nonagricultural "gainful workers," shown by the 1930 Census of Occupations (less the number who were unemployed for 1 week or more at the time of the census) and on regular reports of employers to the United States Bureau of Labor Statistics and to other Government agencies. The estimates for the individual industry groups are based in large part on industrial censuses and on the above-mentioned regular reports of employers.

Estimates of "Employees in nonagricultural establishments" by States are given in table 4. Because the State figures do not include employees on merchant vessels, and because of certain adjustments in the United States estimates which have not been made on a State basis, the totals of the State estimates will not agree exactly with the figures for the United States as a whole.

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

[In thousands]

Employment group	December 1941 (preliminary)	November 1941	Change November to December 1941	December 1940	Change December 1940 to December 1941
Total civil nonagricultural employment <sup>1</sup> .....	40,963	40,756	+207	38,161	+2,802
Civil employees in nonagricultural establishments <sup>2</sup> .....	34,820	34,613	+207	32,018	+2,802
Manufacturing <sup>3</sup> .....	12,726	12,763	-37	11,127	+1,599
Mining.....	907	911	-4	855	+52
Contract construction <sup>4</sup> .....	1,820	1,961	-141	1,720	+100
Transportation and public utilities.....	3,287	3,322	-35	3,039	+248
Trade <sup>5</sup> .....	7,503	7,146	+357	7,247	+256
Finance, service, and miscellaneous <sup>6</sup> .....	4,223	4,229	-6	4,099	+124
Federal, State, and local Government.....	4,354	4,281	+73	3,931	+423

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

<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> Includes employees of construction contractors only. Does not include "force-account" construction workers, that is, those employed directly by other types of employers.

<sup>5</sup> Retail trade component adjusted to preliminary 1939 census.

<sup>6</sup> Revised series—not comparable to figures published in October 1941 or prior issues of pamphlet.

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

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

[In thousands]

Geographic division and State	December 1941 (preliminary)	November 1941	Change, November to December 1941		December 1940	Change, December 1940 to December 1941	
			Number	Percentage		Number	Percentage
<b>New England.....</b>	<b>2,993</b>	<b>2,973</b>	<b>+20</b>	<b>+0.6</b>	<b>2,720</b>	<b>+273</b>	<b>+10.0</b>
Maine.....	213	208	+5	+2.1	187	+26	+13.5
New Hampshire.....	150	150	0	— .6	133	+17	+12.0
Vermont.....	79	80	—1	— .6	73	+6	+8.9
Massachusetts.....	1,564	1,553	+11	+ .7	1,441	+123	+8.6
Rhode Island.....	268	267	+1	+ .5	251	+17	+6.8
Connecticut.....	719	715	+4	+ .5	635	+84	+13.3
<b>Middle Atlantic.....</b>	<b>8,719</b>	<b>8,634</b>	<b>+85</b>	<b>+1.0</b>	<b>8,037</b>	<b>+682</b>	<b>+8.2</b>
New York.....	4,280	4,238	+42	+1.0	4,011	+269	+6.7
New Jersey.....	1,359	1,347	+12	+ .9	1,217	+142	+11.7
Pennsylvania.....	3,080	3,049	+31	+1.0	2,829	+251	+8.9
<b>East North Central.....</b>	<b>7,896</b>	<b>7,905</b>	<b>—9</b>	<b>— .1</b>	<b>7,246</b>	<b>+650</b>	<b>+9.0</b>
Ohio.....	2,091	2,080	+11	+ .5	1,876	+215	+11.4
Indiana.....	924	926	—2	— .2	839	+85	+10.2
Illinois.....	2,584	2,576	+8	+ .3	2,360	+224	+9.5
Michigan.....	1,569	1,594	—25	—1.6	1,505	+64	+4.3
Wisconsin.....	728	729	—1	— .2	666	+62	+9.4
<b>West North Central.....</b>	<b>2,839</b>	<b>2,659</b>	<b>—20</b>	<b>— .7</b>	<b>2,415</b>	<b>+224</b>	<b>+9.3</b>
Minnesota.....	578	583	—5	— .9	537	+41	+7.7
Iowa.....	443	450	—7	—1.5	408	+35	+8.6
Missouri.....	905	919	—14	—1.5	800	+105	+13.2
North Dakota.....	79	80	—1	—1.6	75	+4	+4.9
South Dakota.....	85	85	0	+ .2	83	+2	+3.1
Nebraska.....	220	218	+2	+1.3	199	+21	+10.4
Kansas <sup>1</sup> .....	329	324	+5	+1.7	313	+16	+5.2
<b>South Atlantic.....</b>	<b>4,158</b>	<b>4,127</b>	<b>+31</b>	<b>+ .8</b>	<b>3,826</b>	<b>+332</b>	<b>+8.7</b>
Delaware.....	77	77	0	+ .5	73	+4	+5.5
Maryland.....	627	626	+1	+ .2	560	+67	+11.9
District of Columbia.....	445	430	+15	+3.5	372	+73	+19.6
Virginia.....	601	601	0	( <sup>2</sup> )	542	+59	+11.0
West Virginia.....	413	414	—1	— .3	382	+31	+8.1
North Carolina.....	665	670	—5	— .8	643	+22	+3.4
South Carolina.....	331	332	—1	— .5	307	+24	+7.6
Georgia.....	572	571	+1	+ .2	515	+57	+11.2
Florida.....	427	406	+21	+5.2	432	—5	—1.0
<b>East South Central.....</b>	<b>1,808</b>	<b>1,585</b>	<b>+23</b>	<b>+1.4</b>	<b>1,436</b>	<b>+172</b>	<b>+12.0</b>
Kentucky.....	411	403	+8	+1.9	378	+33	+8.6
Tennessee.....	515	509	+6	+1.2	470	+45	+9.7
Alabama.....	468	460	+8	+1.7	395	+73	+18.5
Mississippi.....	214	213	+1	+ .6	193	+21	+11.2
<b>West South Central.....</b>	<b>2,142</b>	<b>2,112</b>	<b>+30</b>	<b>+1.4</b>	<b>2,023</b>	<b>+119</b>	<b>+5.9</b>
Arkansas.....	228	216	+12	+5.5	195	+33	+17.1
Louisiana.....	422	420	+2	+ .4	435	—13	—3.1
Oklahoma.....	317	315	+2	+ .7	296	+21	+7.1
Texas <sup>1</sup> .....	1,175	1,161	+14	+1.2	1,097	+78	+7.1
<b>Mountain.....</b>	<b>852</b>	<b>857</b>	<b>—5</b>	<b>— .7</b>	<b>783</b>	<b>+69</b>	<b>+8.9</b>
Montana.....	117	118	—1	—1.0	113	+4	+3.8
Idaho.....	94	94	0	+ .2	86	+8	+9.4
Wyoming.....	55	57	—2	—3.5	53	+2	+4.5
Colorado.....	246	251	—5	—1.9	222	+24	+10.8
New Mexico.....	77	77	0	+ .3	71	+6	+8.0
Arizona.....	102	102	0	+ .3	92	+10	+10.7
Utah.....	123	121	+2	+ .9	113	+10	+8.8
Nevada.....	38	37	+1	+1.5	33	+5	+15.6
<b>Pacific.....</b>	<b>2,884</b>	<b>2,871</b>	<b>+13</b>	<b>+ .5</b>	<b>2,533</b>	<b>+351</b>	<b>+13.9</b>
Washington.....	506	508	—2	— .4	441	+65	+14.7
Oregon.....	282	282	0	— .1	243	+39	+16.2
California.....	2,096	2,081	+15	+ .7	1,849	+247	+13.4

<sup>1</sup> Revised series—comparable figures back to 1937 available on request.<sup>2</sup> Less than 1/10 of 1 percent.

## *Industrial and Business Employment*

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

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

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

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

The average weekly earnings shown in tables 5 and 6 are computed by dividing the weekly pay rolls in the reporting establishments by the total number of full- and part-time employees reported. As not all reporting establishments supply information on man-hours, average hours worked per week and average hourly earnings are necessarily based on data furnished by a slightly smaller number of reporting firms. Because of variation in the size and composition of the reporting sample, 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 December 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 December 1941 are shown in table 5. Percentage changes from November 1941 and December 1940 are also given.

Employment and pay-roll indexes, as well as average hours worked per week, average hourly earnings, and average weekly earnings for October, November, and December, 1941, where available, are presented in table 6. The October and November figures, where given, may differ in some instances from those previously published because of revisions necessitated primarily by the inclusion of late reports. Indexes of employment and pay rolls are given in table 7 for 55 additional manufacturing industries for the months of October, November, and December, 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 non-manufacturing industries, by months, from December 1940 to December 1941, inclusive. The chart on page 12 indicates the trend of factory employment and pay rolls from January 1919 to December 1941.

Indexes of factory employment by metropolitan areas and cities of 100,000 population or over according to the 1930 Census of Population are given in table 9 for November and December 1941 and December 1940, together with percentage changes from November to December 1941 and from December 1940 to December 1941.

*Use of average hourly earnings in "escalator" clauses.*—Average hourly earnings of wage earners, such as those shown in tables 4 and 5, 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 tables 5 and 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.

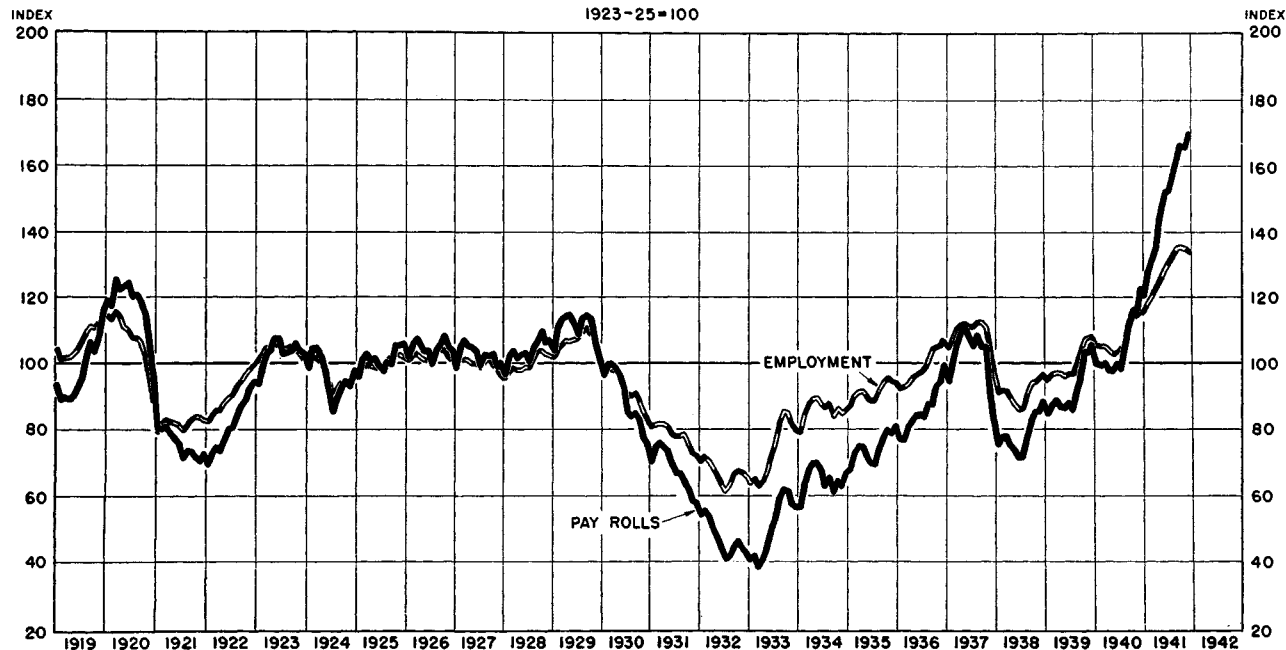
To an increasing extent, use is being made of these average hourly earnings figures in so-called "escalator" clauses in Government contracts. These are designed to protect contractors from losses that might arise from general wage increases over which they could exercise no control. A number of contracts 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 usually show a seasonal movement unrelated to rates of pay. For example, the average hourly earnings figure in the durable-goods industries dropped from 73.2 cents in June 1940 to 72.7 cents in July 1940. This drop was due not to a general decline in wages in this period but almost entirely to the fact that employment in the automobile industry declined sharply as the result of model changes. This industry is a high-wage industry in which the average hourly earnings were about 95 cents an hour. Between June and July 1940 employment in the automobile industry dropped from 104.9 to 82.3. This relative decline, of a purely seasonal character, in the number of highly paid automobile workers was very largely responsible for the decline of half a cent noted in the average hourly earnings in durable-goods industries.

By way of illustration of the problem involved it would be possible to construct an index of earnings that was unrelated to changes in the relative occupational composition of the group workers actually at work. For example, giving the averages for the several industries the same weights in July and August 1940 that they had in June 1940 and

# EMPLOYMENT AND PAY ROLLS

## ALL MANUFACTURING INDUSTRIES



UNITED STATES DEPARTMENT OF LABOR  
BUREAU OF LABOR STATISTICS

ADJUSTED TO 1939 CENSUS OF MANUFACTURES

considering only the influence of changes in average earnings in each industry, we find no change in the rate of earnings from June to July and approximately the same percentage change as is shown by the published figures from July to August. This means that from June 1940 to August 1940 the currently published figures show a slight decline over this 3-month interval whereas the series computed with constant weights show 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, December 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 December 1941	Percentage change from—		Index December 1941	Percentage change from—		Decem- ber 1941	Percentage change from—		Decem- ber 1941	Percentage change from—		Decem- ber 1941	Percentage change from—	
		Novem- ber 1941	Decem- ber 1940		Novem- ber 1941	Decem- ber 1940		Novem- ber 1941	Decem- ber 1940		Novem- ber 1941	Decem- ber 1940		Novem- ber 1941	Decem- ber 1940
<b>All manufacturing<sup>2</sup></b> .....	134.3	-0.4	+15.6	170.2	+2.9	+39.1	\$33.69	+3.3	+20.3	41.2	+2.3	+3.6	Cents 78.7	+0.8	+15.3
<b>Durable goods<sup>2</sup></b> .....	144.3	-2	+22.6	195.9	+2.9	+48.7	38.65	+3.2	+21.4	42.8	+2.3	+3.8	87.1	+6	+16.2
<b>Nondurable goods<sup>2</sup></b> .....	124.7	-6	+8.6	141.3	+2.8	+26.0	26.90	+3.4	+16.1	39.4	+2.2	+2.8	69.5	+1.1	+12.4
<i>Durable goods</i>															
<b>Iron and steel and their products, not including machinery</b> .....	138.5	-2	+13.9	175.0	+1.8	+31.6	37.00	+2.1	+15.5	41.4	+1.4	+6	89.4	+7	+14.6
Blast furnaces, steel works, and rolling mills.....	148.6	+6	+14.8	185.0	+1.0	+30.2	39.26	+5	+13.5	40.0	+2	-5	98.3	+3	+14.2
Bolts, nuts, washers, and rivets.....	169.6	+6	+25.9	259.5	+2.4	+45.8	36.81	+1.8	+15.7	44.1	+2.4	-3	83.4	-5	+16.1
Cast-iron pipe.....	98.1	-2	+12.2	120.2	+2.0	+23.7	29.46	+2.2	+10.4	41.3	+5	-5.6	71.2	+1.4	+16.1
Cutlery (not including silver and plated cutlery) and edge tools.....	134.1	+1.2	+22.1	165.2	+2.8	+45.3	32.39	+1.6	+19.0	44.6	+1.5	+5.7	73.5	-2	+12.3
Forgings, iron and steel.....	117.6	+2.7	+32.5	196.0	+8.7	+63.8	45.20	+5.9	+23.7	47.1	+4.4	+4.1	96.4	+1.4	+18.7
Hardware.....	113.8	+3	+1.1	152.7	+3.0	+18.9	33.18	+2.7	+17.5	43.5	+1.5	+4.9	76.3	+1.1	+12.1
Plumbers' supplies <sup>3</sup> .....	97.3	-3	+8	109.5	+3.7	+15.2	32.62	+4.1	+14.4	41.0	+3.5	+1.2	79.5	+6	+12.9
Stamped and enameled ware.....	220.2	-2.0	+12.2	297.6	+3.2	+32.0	31.64	+5.3	+17.7	42.1	+3.9	+3.3	75.2	+1.3	+13.1
Steam and hot-water heating apparatus and steam fittings.....	123.9	-1.0	+20.7	160.5	+6.9	+52.8	38.79	+8.0	+26.5	45.3	+4.6	+6.4	86.1	+3.3	+18.8
Stoves.....	104.3	-5.3	+4	112.3	-2.5	+12.0	30.42	+2.8	+11.5	40.2	+3.0	-1.4	75.7	-3	+11.7
Structural and ornamental metalwork.....	105.7	-1.8	+16.9	120.1	+3.2	+39.6	36.33	+5.1	+19.4	42.9	+3.2	+4.3	85.4	+1.8	+14.4
Tin cans and other tinware.....	134.4	-4	+35.9	173.6	+4.7	+53.5	28.89	+5.1	+13.0	41.3	+6.1	+1.9	70.3	-7	+10.4
Tools (not including edge tools, machine tools, files, and saws).....	149.7	+1.7	+28.3	210.5	+2.6	+53.5	35.97	+9	+19.7	47.1	+5	+3.6	76.5	+4	+16.4
Wirework.....	199.4	-2.2	-3.6	266.8	-4.9	+10.2	32.07	-2.7	+14.4	40.4	-3.4	-2.7	79.8	+6	+17.1
<b>Machinery, not including transportation equipment</b> .....	183.6	+1.3	+34.9	271.3	+6.3	+66.4	40.74	+5.0	+23.4	46.3	+3.5	+5.8	87.9	+1.4	+15.7
Agricultural implements (including tractors).....	167.2	-1	+16.8	219.0	-2.2	+27.8	35.96	-2.0	+9.4	39.0	-2.6	-3.4	92.4	+6	+13.3
Cash registers, adding machines, and calculating machines.....	176.3	-4	+30.4	239.4	+7.3	+61.6	42.32	+7.7	+24.0	45.1	+4.2	+9.8	94.7	+3.4	+13.2



Electrical machinery, apparatus, and supplies	(5)	(5)	(5)	(5)	(5)	(5)	39.12	+5.0	+19.5	44.7	+3.2	+3.1	87.7	+1.6	+15.7
Engines, turbines, water wheels, and windmills	(5)	(5)	(5)	(5)	(5)	(5)	53.02	+4.7	+39.4	49.9	+5.5	+9.8	106.3	-.9	+26.5
Foundry and machine-shop products	150.4	+1.1	+31.8	202.8	+6.0	+6.2	39.86	+4.8	+21.6	46.3	+3.5	+6.1	85.8	+1.4	+14.2
Machine tools	(5)	(5)	(5)	(5)	(5)	(5)	48.82	+7.8	+23.3	53.8	+5.4	+6.2	90.8	+2.3	+16.1
Radios and phonographs	219.1	+7	+38.2	287.9	+7.3	+76.0	32.19	+6.6	+27.2	44.6	+3.6	+9.4	72.2	+2.9	+16.4
Textile machinery and parts	109.4	+4	+27.0	150.1	+6.6	+65.7	37.80	+6.1	+30.5	48.5	+4.3	+13.8	78.1	+1.8	+14.7
Typewriters and parts	161.8	-(5)	+22.4	235.0	-.5	+59.6	35.62	-.5	+30.5	46.7	+1.0	+12.0	76.2	+5	+16.5
<b>Transportation equipment</b>	<b>208.7</b>	<b>-.8</b>	<b>+39.3</b>	<b>290.0</b>	<b>+8</b>	<b>+71.2</b>	<b>43.76</b>	<b>+1.6</b>	<b>+22.9</b>	<b>42.2</b>	<b>+1.8</b>	<b>+5.6</b>	<b>103.5</b>	<b>-.6</b>	<b>+13.4</b>
Aircraft	(5)	(5)	(5)	(5)	(5)	(5)	42.22	+6.2	+25.9	46.2	+4.3	+2.9	91.6	+1.4	+20.8
Automobiles	116.2	-10.4	-10.7	147.9	-15.9	+2.0	40.97	-6.1	+14.3	37.1	-5.6	-2.3	110.7	-.7	+16.8
Cars, electric- and steam-railroad	(5)	(5)	(5)	(5)	(5)	(5)	39.38	+7.5	+30.9	42.4	+6.0	+7.2	92.3	+1.4	+22.1
Locomotives	(5)	(5)	(5)	(5)	(5)	(5)	46.62	+11.0	+37.1	46.7	+4.0	+11.5	99.8	+6.7	+22.9
Shipbuilding	(5)	(5)	(5)	(5)	(5)	(5)	49.19	+7.1	+28.0	46.0	+7.0	+7.4	106.0	-.8	+18.5
<b>Nonferrous metals and their products</b>	<b>145.5</b>	<b>-.3</b>	<b>+10.9</b>	<b>193.1</b>	<b>+6.2</b>	<b>+29.1</b>	<b>36.86</b>	<b>+6.5</b>	<b>+16.4</b>	<b>43.4</b>	<b>+4.3</b>	<b>+1.0</b>	<b>84.8</b>	<b>+1.9</b>	<b>+14.3</b>
Aluminum manufactures	(5)	(5)	(5)	(5)	(5)	(5)	40.65	+9.2	+29.0	45.7	+7.1	+8.6	89.0	+1.9	+18.8
Brass, bronze, and copper products	(5)	(5)	(5)	(5)	(5)	(5)	40.81	+8.1	+13.2	44.5	+5.5	-.4	91.8	+2.6	+13.9
Clocks and watches and time-recording devices	113.3	-2.4	+6.7	150.5	-2.9	+25.8	29.50	-.5	+18.0	41.8	-.7	+2.3	70.6	+1	+15.3
Jewelry	116.0	-3.2	+11.3	121.4	+5.0	+25.4	28.08	+8.4	+12.6	43.1	+7.2	+3.1	65.7	+2.0	+11.0
Lighting equipment	113.9	-4.8	+3.6	123.1	-1.1	+20.4	33.62	+3.9	+16.2	41.2	+3.4	+8	81.5	+5	+15.3
Silverware and plated ware	86.1	-.5	+9.2	100.8	-1.4	+16.4	34.18	-.9	+6.6	44.3	-1.8	-5.7	76.8	+5	+12.0
Smelting and refining—copper, lead, and zinc	101.3	+1.0	+4.8	123.9	+2.6	+20.7	34.48	+1.6	+15.1	39.8	+1.3	-.3	86.6	+3	+15.5
<b>Lumber and allied products</b>	<b>76.6</b>	<b>-1.7</b>	<b>+3.9</b>	<b>85.8</b>	<b>-.7</b>	<b>+20.0</b>	<b>24.35</b>	<b>+1.0</b>	<b>+15.5</b>	<b>39.7</b>	<b>+6</b>	<b>+1.5</b>	<b>60.2</b>	<b>+1</b>	<b>+13.7</b>
Furniture	106.8	-1.5	+9.7	120.9	+1.8	+30.5	26.81	+3.3	+19.1	41.8	+2.3	+2.7	64.2	+6	+16.2
Lumber:															
Millwork	74.4	-1.4	+4.0	71.8	+1.2	+20.2	26.66	+2.7	+15.5	42.7	+2.7	+2.4	62.3	+1	+13.1
Sawmills	65.3	-1.7	+9	68.0	-3.1	+12.7	21.50	-1.3	+11.5	37.6	-1.2	-1.2	57.2	-.2	+12.8
<b>Stone, clay, and glass products</b>	<b>99.7</b>	<b>-1.8</b>	<b>+12.4</b>	<b>106.8</b>	<b>+7</b>	<b>+24.6</b>	<b>29.26</b>	<b>+2.5</b>	<b>+10.9</b>	<b>38.6</b>	<b>+2.2</b>	<b>-.3</b>	<b>75.3</b>	<b>+4</b>	<b>+11.4</b>
Brick, tile, and terra cotta	74.3	-2.6	+13.9	72.5	-.6	+27.6	25.84	+2.0	+11.9	38.9	+1.3	-1.2	66.7	+1.1	+14.0
Cement	80.7	-2.1	+12.5	89.0	-2.0	+22.9	31.27	+1	+9.1	39.9	+6	-1.5	78.4	-.5	+10.9
Glass	132.0	-.9	+13.0	172.2	+1.7	+25.1	31.80	+2.6	+10.7	38.1	+2.9	+7	84.1	-.4	+10.0
Marble, granite, slate, and other products	43.7	-4.2	-3.2	35.0	+1.0	+4.9	28.24	+5.4	+8.3	38.5	+4.6	+4.7	73.3	+1.7	+4.2
Pottery	122.3	-1.2	+15.9	130.8	+1.7	+28.3	27.11	+3.0	+10.8	38.4	+2.6	-.4	70.7	+9	+11.7
<b>Nondurable goods</b>															
<b>Textiles and their products</b>	<b>113.0</b>	<b>-.4</b>	<b>+5.6</b>	<b>122.1</b>	<b>+3.3</b>	<b>+25.1</b>	<b>22.30</b>	<b>+3.7</b>	<b>+18.5</b>	<b>38.1</b>	<b>+2.8</b>	<b>+3.4</b>	<b>58.3</b>	<b>+8</b>	<b>+14.7</b>
Fabrics	106.2	+1	+5.8	123.6	+4.0	+29.3	22.46	+3.8	+22.3	39.6	+3.0	+3.8	57.1	+8	+17.6
Carpets and rugs	89.8	-.2	+9.1	95.2	+8	+24.9	29.24	+1.0	+14.5	38.8	+1.0	+2.4	75.5	+(5)	+11.8
Cotton goods	111.9	+1	+11.3	139.8	+3.3	+42.6	20.27	+3.3	+28.2	40.2	+2.8	+5.6	50.5	+4	+21.3
Cotton smallwares	108.5	-.5	+21.1	129.2	+1.0	+41.3	23.56	+1.6	+16.7	41.1	+1.8	+2.9	57.5	-.1	+13.5
Dyeing and finishing textiles	134.8	+1.3	+4	141.1	+6.6	+16.7	25.58	+5.2	+16.2	40.4	+4.6	+1.4	62.3	+1.0	+14.3
Hats, fur-felt	75.6	-.9	-.8	82.4	+9.0	+1.2	29.94	+10.0	+12.1	35.8	+7.7	+1.2	84.3	+1.6	+12.2
Hosiery	135.0	+(5)	-7.5	165.5	+2.5	+2.2	21.24	+5	+10.5	37.3	+1.9	+2.7	57.2	+6	+7.0
Knitted underwear	77.4	-3.7	+8.4	73.6	-.4	+19.7	19.61	-.8	+10.3	37.0	-.1	-2.0	52.4	+5	+7.9
Knitted underwear	85.6	-.9	+10.6	98.1	-.9	+32.2	19.45	+3.9	+19.8	38.3	-.3	-3.8	50.3	+4.4	+14.0
Knitted cloth	145.6	-.1	-1.3	144.4	+3.4	+11.2	22.68	+3.5	+12.6	39.2	+1.3	-1.6	57.9	+2.2	+12.8
Silk and rayon goods	61.0	-.4	-6.5	62.2	+2.2	+14.3	21.18	+2.5	+22.1	38.9	+2.4	+3.0	54.4	+3	+18.9
Woolen and worsted goods	110.7	+1.2	+9.7	133.8	+7.3	+38.9	27.99	+6.0	+26.6	40.1	+5.1	+3.2	69.9	+9	+22.7

See footnotes at end of table.

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

## MANUFACTURING—Continued

Industry	Employment			Pay rolls			Average weekly earnings			Average hours worked per week			Average hourly earnings		
	Index Decem- ber 1941	Percentage change from—		Index Decem- ber 1941	Percentage change from—		Decem- ber 1941	Percentage change from—		Decem- ber 1941	Percentage change from—		Decem- ber 1941	Percentage change from—	
		Novem- ber 1941	Decem- ber 1940		Novem- ber 1941	Decem- ber 1940		Novem- ber 1941	Decem- ber 1940		Novem- ber 1941	Decem- ber 1940		Novem- ber 1941	Decem- ber 1940
<i>Nondurable goods—Continued</i>															
<b>Textiles and their products—Continued.</b>															
Wearing apparel.....	123.2	-1.3	+5.1	111.7	+1.9	+16.8	\$21.83	+3.3	+11.2	35.1	+2.4	+2.3	<i>Cents</i> 60.9	+0.8	+9.8
Clothing, men's.....	120.7	-.3	+11.6	111.5	+2.2	+29.1	23.61	+2.5	+15.1	35.8	+2.8	+6.6	66.1	0	+9.3
Clothing, women's.....	162.7	-1.0	-.9	133.3	+5.7	+6.3	22.00	+6.9	+7.4	33.7	+3.0	-3.3	61.9	+3.1	+10.6
Corsets and allied garments.....	113.4	-6.8	+5	138.4	-7.5	+12.9	20.27	-.6	+12.3	37.3	+1.2	+2	54.3	-.9	+12.5
Men's furnishings.....	119.9	-7.9	-2.7	132.9	-15.4	-.2	16.40	-8.2	+2.8	32.8	-9.6	-10.7	49.0	+1.6	+15.0
Millinery.....	60.1	-1.9	-1.2	39.6	-1.6	-4.4	20.14	+3	-3.3	27.7	+3.2	-6.7	68.4	-2.0	+7.6
Shirts and collars.....	135.1	-1.4	+10.6	153.3	-1.5	+33.4	18.05	-.1	+20.5	38.9	+3.7	+9.4	46.8	-3.5	+10.9
<b>Leather and its manufactures..</b>															
Boots and shoes.....	99.2	+2.6	+9.5	106.7	+10.0	+35.9	24.87	+7.3	+24.2	38.7	+6.0	+5.5	64.9	+8	+17.5
Leather.....	95.2	+3.1	+8.2	99.5	+12.6	+35.9	23.36	+9.2	+25.7	38.1	+7.5	+6.4	61.8	+7	+17.4
	98.2	+5	+14.4	121.8	+3.4	+36.1	31.20	+2.9	+18.9	40.9	+1.4	+2.0	76.4	+1.5	+16.5
<b>Food and kindred products...</b>															
Baking.....	140.7	-3.4	+7.8	157.1	-.4	+18.6	28.33	+3.2	+10.0	40.7	+1.4	+5	70.3	+1.3	+9.9
Beverages.....	151.5	-1.4	+5.2	157.5	-1.4	+14.3	28.84	+1	+8.6	41.5	-1.2	+5	69.5	+1.2	+8.0
Butter.....	289.4	-.5	+11.1	358.6	+2.1	+19.6	36.40	+2.7	+7.7	39.9	+3.5	+4.8	92.2	-.7	+3.0
Canning and preserving.....	101.4	-2.2	+5.2	95.6	-1.8	+13.6	24.94	+4	+7.9	45.1	-.8	-.4	54.1	+1.4	+8.8
Confectionery.....	123.2	-24.0	+19.2	129.4	-25.0	+39.9	19.87	-1.2	+17.3	36.0	-.8	+6.1	56.6	+(6)	+11.1
Flour.....	105.6	-4.0	+4.8	123.3	-1.8	+19.0	22.37	+2.3	+13.4	41.0	+1.8	+2.0	55.1	+6	+11.8
Ice cream.....	78.9	-1	+1.4	89.3	+7.5	+22.6	30.43	+7.6	+20.8	44.3	+4.9	+9.9	67.5	+2.3	+10.4
Slaughtering and meat packing.....	71.0	-2.7	+2.2	67.1	+2	+9.9	32.27	+3.0	+7.6	45.3	+7	+1.0	69.8	+2.9	+8.2
Sugar, beet.....	137.7	+6.2	+10.2	168.5	+9.8	+22.7	31.87	+3.4	+11.4	40.7	+4.8	-3.3	78.3	-1.3	+15.1
Sugar refining, cane.....	228.0	-14.1	-3.1	254.8	-17.3	-3.2	29.24	-3.8	-(6)	45.3	-7.5	-13.5	64.0	+3.0	+13.1
	98.6	+1.7	+4.6	98.2	+9.4	+15.5	28.09	+7.6	+10.4	40.7	+7.4	+5.4	69.0	+2	+4.8
<b>Tobacco manufactures.....</b>															
Chewing and smoking tobacco and snuff.....	67.4	-1.5	+2.7	76.7	-.5	+13.8	20.67	+1.0	+10.8	39.1	+1.3	+3.0	53.0	-.4	+8.0
Cigars and cigarettes.....	56.5	+3.0	-1.7	74.1	+3.7	+6.2	21.22	+7	+8.1	37.2	+2.4	+6	57.4	-1.5	+6.9
	68.7	-1.8	+3.3	76.9	-.9	+14.8	20.57	+1.0	+10.9	39.3	+1.3	+2.9	52.6	-.3	+8.3
<b>Paper and printing...</b>															
Boxes, paper.....	128.3	+1.3	+7.4	144.1	+4.8	+19.3	34.04	+3.5	+11.1	41.0	+1.6	+4.2	85.5	+1.7	+6.0
Paper and pulp.....	144.7	-1.4	+15.5	192.6	-.5	+32.4	26.60	+9	+14.5	42.2	+5	+2.5	63.4	+6	+12.0
	129.1	+3	+11.4	169.9	+1.8	+32.2	32.42	+1.5	+18.7	43.4	+5	+6.3	74.7	+9	+11.8

Printing and publishing:																	
Book and job.....	110.0	+1.7	+4.5	109.7	+4.8	+12.0	34.86	+3.1	+7.2	41.3	+2.8	+3.9	84.3	+4.6	+3.7		
Newspapers and periodicals.....	122.3	+3.5	+2.0	128.5	+10.4	+10.8	42.65	+6.7	+8.6	37.4	+2.9	+2.2	111.2	+2.4	+4.6		
<b>Chemical, petroleum, and coal products <sup>4</sup>.....</b>	<b>148.6</b>	<b>+1</b>	<b>+18.2</b>	<b>200.9</b>	<b>+2.7</b>	<b>+39.6</b>	<b>36.19</b>	<b>+2.7</b>	<b>+18.1</b>	<b>40.5</b>	<b>+1.4</b>	<b>+1.9</b>	<b>88.1</b>	<b>+9</b>	<b>+15.4</b>		
Petroleum refining.....	129.3	+1	+8.0	173.9	+3.6	+25.2	41.74	+3.5	+15.9	37.9	+3.4	+1.4	110.9	-( <sup>6</sup> )	+14.7		
Other than petroleum refining <sup>4</sup> .....	153.2	0	+20.5	209.2	+2.4	+43.9	34.39	+2.5	+19.4	41.2	+9	+2.0	81.5	+1.3	+16.6		
Chemicals.....	185.9	+6	+24.0	271.6	+2.7	+44.6	38.64	+2.1	+16.7	41.1	+1.0	+5	94.1	+1.1	+16.1		
Cottonseed—oil, cake, and meal.....	116.7	-5.1	-9.6	125.5	-4.5	-2.9	17.30	+6	+7.3	46.6	+9	-1.2	36.8	+2	+10.0		
Druggists' preparations.....	149.2	+8	+28.9	184.0	-2.2	+40.7	27.48	-2.9	+9.1	40.5	-2.1	+2.1	64.7	-1.2	+6.6		
Explosives <sup>4</sup> .....	( <sup>9</sup> )	( <sup>9</sup> )	( <sup>9</sup> )	( <sup>9</sup> )	( <sup>9</sup> )	( <sup>9</sup> )	44.85	+6.1	+30.5	47.0	+4.5	+19.5	95.4	+1.5	+9.3		
Fertilizers.....	105.8	+4.5	+11.4	106.2	+7.1	+31.9	18.44	+2.5	+19.4	36.3	+2.7	+2.3	50.8	-8	+15.9		
Paints and varnishes.....	142.2	-3	+12.8	176.0	+2.2	+26.8	34.20	+2.5	+12.5	41.6	+2.0	+1.6	82.4	+5	+10.8		
Rayon and allied products.....	321.1	-5	+1.9	391.2	+1.6	+17.0	31.13	+2.1	+14.7	39.1	-8	-2	79.7	+3.0	+15.0		
Soap.....	92.3	-4.3	+8.9	133.5	-3.6	+25.6	34.09	+8	+15.4	40.1	-9	-5	84.9	+1.6	+15.9		
<b>Rubber products.....</b>	<b>110.8</b>	<b>-6</b>	<b>+13.8</b>	<b>138.0</b>	<b>-2.1</b>	<b>+24.2</b>	<b>33.84</b>	<b>-1.6</b>	<b>+9.3</b>	<b>38.8</b>	<b>-1.2</b>	<b>-2.0</b>	<b>88.0</b>	<b>+5</b>	<b>+12.5</b>		
Rubber boots and shoes <sup>11</sup> .....	80.8	-1.1	+20.7	109.3	-1.0	+34.4	30.78	+1	+11.5	41.7	-3	-4.9	73.8	+4	+17.0		
Rubber tires and inner tubes.....	85.4	-1.2	+11.1	109.5	-6.9	+13.6	37.40	-5.8	+2.2	35.0	-5.4	-6.9	107.2	-2	+9.6		
Rubber goods, other.....	190.3	+1	+14.2	238.9	+4.5	+37.4	30.45	-4.3	+20.3	41.7	+2.4	+3.5	73.0	+1.8	+16.0		

# NONMANUFACTURING

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

Coal mining:																	
Anthracite <sup>12</sup> <sup>13</sup> .....	49.1	-2.3	-3.5	35.9	-14.1	-16.0	\$24.05	-12.2	-12.9	23.6	-13.1	-20.5	Cents	100.7	-( <sup>6</sup> )	+9.6	
Bituminous <sup>12</sup> .....	95.4	+3	+5.9	119.6	+2.9	+30.8	33.47	+2.6	+23.6	32.0	+2.2	+3.9	105.7	+0.6	+18.1		
Metalliferous mining <sup>14</sup> .....	79.5	+( <sup>6</sup> )	+10.1	90.9	+1.3	+24.9	36.20	+1.2	+13.4	42.7	+1.2	-2	85.0	0	+13.5		
Quarrying and nonmetallic mining.....	50.8	-3.4	+12.0	56.0	-2.6	+31.8	27.87	+8	+17.7	42.1	+1	+3.8	66.4	+4	+12.7		
Crude-petroleum production <sup>15</sup> .....	61.0	+2	+6	64.9	+1.1	+16.1	39.37	+9	+15.4	38.6	+2.2	+4.9	99.1	-1.1	+9.8		
Public utilities:																	
Telephone and telegraph <sup>16</sup> <sup>17</sup> .....	89.6	-5	+12.4	124.1	+4.9	+19.9	33.83	+5.4	+6.7	40.5	+1.5	+2.8	84.1	+4.3	+4.1		
Electric light and power <sup>16</sup> <sup>17</sup> .....	93.3	-1	+2.2	116.3	+1.0	+9.8	38.00	+1.1	+7.4	40.3	+1.1	+2.8	94.7	+2	+4.8		
Street railroads and busses <sup>16</sup> <sup>17</sup> <sup>18</sup> .....	70.4	+2	+2.9	80.1	+2.4	+9.5	37.14	+2.2	+6.5	47.0	+1.7	-2	78.1	+7	+6.6		
Trade:																	
Wholesale <sup>16</sup> <sup>19</sup> .....	96.5	+2	+4.4	92.7	+1.2	+11.1	33.75	+9	+6.5	41.2	+1.6	-5	81.8	-6	+6.5		
Retail <sup>16</sup> <sup>17</sup> .....	112.8	+9.5	+4.3	107.9	+8.9	+10.9	21.79	-5	+6.3	42.3	+1.4	-1.6	56.1	-2.7	+6.7		
Food <sup>17</sup> .....	114.0	+1.9	+7.1	115.4	+2.3	+16.8	25.75	+4	+8.9	41.9	+4	-3.9	57.3	-1	+9.0		
General merchandising <sup>16</sup> <sup>17</sup> .....	161.0	+27.9	+5.8	150.6	+27.8	+13.3	18.68	-1	+7.1	40.1	+5.0	-1	45.7	-4.7	+7.1		
Apparel <sup>17</sup> .....	107.6	+8.7	+4.1	101.7	+7.6	+8.9	22.35	-1.0	+4.7	38.5	+1.5	-1.5	58.1	-3.0	+6.1		
Furniture <sup>17</sup> .....	80.7	+2.4	-1.5	78.8	+5.5	+3.3	30.41	+3.0	+4.7	44.5	+2.1	-1.8	70.0	-1.3	+2.9		
Automotive <sup>17</sup> .....	85.8	-3	-2.5	87.2	+1	+2.3	30.27	+4	+5.0	47.3	+5	-9	64.6	-6	+5.8		
Lumber <sup>17</sup> .....	79.8	-1.8	+4.9	83.0	0	+14.5	29.12	+1.9	+9.1	42.7	+2.0	+4	69.5	+7	+9.8		
Hotels (year-round) <sup>12</sup> <sup>16</sup> <sup>20</sup> .....	95.6	-5	+3.3	93.5	+3	+11.2	16.91	+8	+7.6	45.3	+( <sup>6</sup> )	-( <sup>6</sup> )	36.7	+1.1	+7.8		
Laundries <sup>12</sup> .....	108.4	-5	+8.0	102.7	+8	+15.1	19.68	+1.2	+6.6	42.9	+6	-7	46.2	+2	+7.2		
Dyeing and cleaning <sup>12</sup> .....	113.1	-3.5	+9.5	88.5	-4.9	+16.8	21.79	-1.4	+6.7	42.4	-5	+1	52.4	-1.4	+6.0		

See footnotes at end of table.

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

## NONMANUFACTURING—Continued

Industry	Employment			Pay rolls			Average weekly earnings			Average hours worked per week			Average hourly earnings		
	Index December 1941	Percentage change from—		Index December 1941	Percentage change from—		December 1941	Percentage change from—		December 1941	Percentage change from—		December 1941	Percentage change from—	
		November 1941	December 1940		November 1941	December 1940		November 1941	December 1940		November 1941	December 1940		November 1941	December 1940
Brokerage <sup>16 21</sup>	(22)	+0.4	-9.5	(22)	+1.2	-5.7	\$40.55	+0.8	+4.3	(22)	(22)	(22)	Cents	(22)	(22)
Insurance <sup>16</sup>	(22)	+4	+2.4	(22)	+1.5	+5.2	38.13	+1.1	+2.7	(22)	(22)	(22)	(22)	(22)	(22)
Building construction	(22)	-5.7	+2.1	(22)	-7	+17.0	37.73	+5.3	+14.6	35.4	+2.2	+4.2	106.6	+3.0	+9.9
Water transportation <sup>23</sup>	77.5	+1	+1.7	(22)	(22)	(22)	(22)	(22)	(22)	(22)	(22)	(22)	(22)	(22)	(22)
Class I steam railroads <sup>24</sup>	116.1	-1.5	+15.5	(22)	(22)	(22)	(22)	(22)	(22)	(22)	(22)	(22)	(22)	(22)	(22)

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

<sup>4</sup> Revisions in the following industries and groups have been made as indicated:

*Plumbers' supplies.*—September 1941 average weekly earnings and average hourly earnings to \$30.97 and 76.4 cents.

*Nonferrous metals and their products.*—September 1941 employment and pay-roll indexes to 146.4 and 185.6.

*Aluminum manufactures.*—September 1941 employment and pay-roll indexes to 245.5 and 357.7; September average weekly earnings and average hourly earnings to \$36.21 and 85.4 cents.

*Knitted outerwear.*—August 1941 average weekly and hourly earnings to \$19.77 and 50.6 cents; September 1941 employment index to 82.5.

*Men's furnishings.*—September 1941 employment and pay-roll indexes to 130.5 and 155.8; September average weekly earnings, average hours, and average hourly earnings to \$17.72, 37.3 hours, and 46.1 cents.

*Beverages.*—September 1941 employment index to 315.2; September average weekly and hourly earnings to \$37.38 and 91.8 cents.

*Chemical, petroleum, and coal products group.*—August and September 1941 employ-

<sup>5</sup> See footnote 7 in table 5 of October 1941 "Employment and Pay Rolls" for revised employment and pay-roll indexes, average hours worked per week, average hourly earnings, and average weekly earnings in "Locomotives," August 1940 to July 1941, inclusive.

<sup>10</sup> See table 8 in March 1941 "Employment and Pay Rolls" pamphlet for revised figures for January 1935 to February 1941.

<sup>11</sup> *Rubber boots and shoes.*—Because of expansion in the reporting sample average weekly earnings and average hourly earnings are not comparable with those previously published for September 1941 and prior months. (Comparable September figures are \$30.67 and 72.0 cents.)

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

<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 pamphlet for revised figures for metalliferous mining from January 1938 to January 1941, inclusive.

<sup>15</sup> Does not include well drilling or rig building.

<sup>16</sup> Average weekly earnings, hourly earnings, and hours not comparable with figures published in pamphlets prior to January 1938 as they now exclude corporation officers, executives, and other employees whose duties are mainly supervisory.

<sup>17</sup> Retail-trade indexes adjusted to 1935 census and public-utility indexes to 1937 census. Not comparable to indexes published in pamphlets prior to January 1940 or in Monthly Labor Review prior to April 1940, with but 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.

ment indexes to 142.0 and 146.6; pay-roll indexes to 180.0 and 187.0.

*Chemicals, other than petroleum refining.*—August and September 1941 employment indexes to 145.4 and 150.9; pay-roll indexes to 186.4 and 193.3.

*Explosives.*—August and September 1941 average weekly earnings to \$38.56 and \$39.04; average weekly hours to 43.1 and 43.2; average hourly earnings to 89.6 and 90.5 cents.

<sup>5</sup> Included in total and group indexes, but not available for publication separately.

<sup>6</sup> Less than  $\frac{1}{16}$  of 1 percent.

<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>18</sup> Covers street-railways and trolley and motorbus operations of subsidiary, affiliated, and successor companies; formerly "Electric-railroad and motorbus operation and maintenance."

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

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

<sup>21</sup> See note 18, table 9, in the July 1941 issue of "Employment and Pay Rolls" for revised average weekly earnings in the brokerage industry from January 1939 to January 1941.

<sup>22</sup> Not available.

<sup>23</sup> Based on estimates prepared by the United States Maritime Commission covering employment on steam and motor merchant vessels of 1,000 gross tons or over in deep-sea trades only.

<sup>24</sup> Preliminary—Source: Interstate Commerce Commission.

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>		
	December 1941	November 1941	October 1941	December 1941	November 1941	October 1941	December 1941	November 1941	October 1941	December 1941	November 1941	October 1941	December 1941	November 1941	October 1941
<b>All manufacturing <sup>2</sup>.....</b>	<b>134.3</b>	<b>134.8</b>	<b>135.4</b>	<b>170.2</b>	<b>165.4</b>	<b>167.0</b>	<b>\$33.69</b>	<b>\$32.80</b>	<b>\$32.89</b>	<b>41.2</b>	<b>40.3</b>	<b>41.1</b>	<i>Cents</i> <b>78.7</b>	<i>Cents</i> <b>78.1</b>	<i>Cents</i> <b>77.0</b>
Durable goods <sup>2</sup> .....	144.3	144.6	144.0	195.9	190.3	191.4	38.65	37.65	37.92	42.8	41.8	42.9	87.1	86.5	85.3
Nondurable goods <sup>2</sup> .....	124.7	125.4	127.3	141.3	137.4	139.6	26.90	26.09	26.11	39.4	38.6	39.1	69.5	68.8	68.0
<i>Durable goods</i>															
<b>Iron and steel and their products, not including machinery.....</b>	<b>138.5</b>	<b>138.8</b>	<b>139.4</b>	<b>175.0</b>	<b>171.9</b>	<b>173.4</b>	<b>37.00</b>	<b>36.40</b>	<b>36.49</b>	<b>41.4</b>	<b>40.9</b>	<b>41.5</b>	<b>89.4</b>	<b>88.6</b>	<b>87.7</b>
Blast furnaces, steel works, and rolling mills.....	148.6	147.8	147.9	185.0	183.2	181.1	39.26	39.06	38.63	40.0	40.0	39.9	98.3	97.7	96.9
Bolts, nuts, washers, and rivets.....	169.6	168.7	169.9	259.5	253.4	255.5	36.81	36.08	35.96	44.1	43.0	44.2	83.4	83.9	81.4
Cast-iron pipe.....	98.1	98.3	98.0	120.2	117.9	119.1	29.46	28.74	29.16	41.3	40.8	41.3	71.2	70.2	70.0
Cutlery (not including silver and plated cutlery) and edge tools.....	134.1	132.5	131.6	165.2	160.7	157.7	32.39	31.77	31.55	44.6	43.9	44.5	73.5	73.3	71.7
Forgings, iron and steel.....	117.6	114.5	114.0	196.0	180.3	182.1	45.20	42.87	43.52	47.1	45.1	46.7	96.4	95.1	93.4
Hardware.....	113.8	113.4	115.2	152.7	148.2	151.5	33.18	32.32	32.29	43.5	42.9	43.1	76.3	75.4	74.9
Plumbers' supplies <sup>3</sup> .....	97.3	97.6	99.2	109.5	105.6	113.4	32.62	31.29	33.08	41.0	39.6	42.0	79.5	78.9	78.7
Stamped and enameled ware.....	220.2	224.6	227.2	297.6	288.4	296.2	31.64	30.18	30.48	42.1	40.7	41.7	75.2	74.2	73.2
Steam and hot-water heating apparatus and steam fittings.....	123.9	125.1	128.4	160.5	150.1	157.7	38.79	35.96	37.00	45.3	43.4	44.9	86.1	83.4	82.6
Stoves.....	104.3	110.1	114.4	112.3	115.3	129.0	30.42	29.39	31.70	40.2	38.9	41.9	75.7	75.7	75.8
Structural and ornamental metalwork.....	105.7	107.6	109.3	120.1	116.3	127.2	36.33	34.59	37.59	42.9	41.6	44.4	85.4	83.9	85.2
Tin cans and other tinware.....	134.4	135.0	130.1	173.6	165.8	171.7	28.89	27.39	29.56	41.3	38.9	41.9	70.3	70.7	70.8
Tools (not including edge tools, machine tools, files, and saws).....	149.7	147.3	146.0	210.5	205.2	202.2	35.97	35.58	35.30	47.1	46.8	47.0	76.5	76.1	75.1
Wirework.....	199.4	203.8	204.9	266.8	280.4	277.1	32.07	33.15	32.63	40.4	41.9	42.0	79.8	79.3	77.9
<b>Machinery, not including transportation equipment.....</b>	<b>183.6</b>	<b>181.4</b>	<b>180.1</b>	<b>271.3</b>	<b>255.3</b>	<b>255.7</b>	<b>40.74</b>	<b>38.98</b>	<b>39.23</b>	<b>46.3</b>	<b>44.6</b>	<b>45.4</b>	<b>87.9</b>	<b>86.8</b>	<b>86.1</b>
Agricultural implements (including tractors).....	167.2	167.5	169.9	219.0	223.9	231.6	35.96	36.72	37.46	39.0	40.1	40.7	92.4	91.9	92.3
Cash registers, adding machines, and calculating machines.....	176.3	177.0	174.9	239.4	223.2	233.1	42.32	39.25	41.45	45.1	43.3	44.9	94.7	91.5	92.7
Electrical machinery, apparatus, and supplies.....	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	39.12	37.16	37.78	44.7	43.1	44.0	87.7	86.4	86.0
Engines, turbines, waterwheels, and windmills.....	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	53.02	50.64	47.81	49.9	47.4	47.0	106.3	107.2	101.9

Foundry and machine-shop products..	150.4	148.8	147.8	202.8	191.4	194.7	39.86	38.00	38.84	46.3	44.6	46.0	85.8	84.9	84.3
Machine tools.....	(9)	(9)	(9)	(9)	(9)	(9)	48.82	45.17	45.54	53.8	51.0	52.0	90.8	88.6	87.6
Radios and phonographs.....	219.1	217.6	217.9	287.9	268.2	261.7	32.19	30.16	29.42	44.6	42.9	41.9	72.2	70.4	70.1
Textile machinery and parts.....	109.4	108.9	109.0	150.1	140.9	142.0	37.80	35.71	35.05	48.5	46.6	47.4	78.1	76.8	76.0
Typewriters and parts.....	161.8	161.8	160.7	235.0	236.3	232.8	35.62	35.80	35.52	46.7	47.2	47.0	76.2	75.9	75.6
<b>Transportation equipment <sup>6</sup></b> .....	<b>208.7</b>	<b>210.4</b>	<b>203.2</b>	<b>290.0</b>	<b>287.8</b>	<b>282.0</b>	<b>43.78</b>	<b>43.01</b>	<b>43.80</b>	<b>42.2</b>	<b>41.4</b>	<b>43.0</b>	<b>103.5</b>	<b>104.2</b>	<b>101.9</b>
Aircraft.....	(9)	(9)	(9)	(9)	(9)	(9)	42.22	39.74	39.20	46.2	44.3	45.2	91.6	90.2	87.0
Automobiles.....	116.2	129.7	128.9	147.9	175.8	176.6	40.97	43.84	44.32	37.1	39.3	40.7	110.7	111.6	109.1
Cars, electric- and steam-railroad..	(9)	(9)	(9)	(9)	(9)	(9)	39.38	36.62	37.69	42.4	40.3	42.6	92.3	91.0	88.5
Locomotives.....	(9)	(9)	(9)	(9)	(9)	(9)	46.62	42.00	42.12	46.7	44.9	45.8	99.8	93.5	92.0
Shipbuilding.....	(9)	(9)	(9)	(9)	(9)	(9)	49.19	45.90	47.84	46.0	42.9	45.4	106.0	107.0	105.9
<b>Nonferrous metals and their products <sup>4</sup></b> .....	<b>145.5</b>	<b>146.0</b>	<b>147.4</b>	<b>193.1</b>	<b>181.9</b>	<b>185.9</b>	<b>36.86</b>	<b>34.72</b>	<b>35.09</b>	<b>43.4</b>	<b>41.6</b>	<b>42.7</b>	<b>84.8</b>	<b>83.1</b>	<b>82.2</b>
Aluminum manufactures <sup>4, 9</sup> .....	(9)	(9)	(9)	(9)	(9)	(9)	40.65	37.01	36.43	45.7	42.4	42.5	89.0	87.2	85.8
Brass, bronze, and copper products.....	(9)	(9)	(9)	(9)	(9)	(9)	40.81	37.79	38.24	44.5	42.3	43.1	91.8	89.4	89.0
Clocks and watches and time-recording devices.....	113.3	116.1	117.8	150.5	155.0	160.6	29.50	29.64	30.10	41.8	42.1	43.3	70.6	70.5	69.6
Jewelry.....	116.0	119.8	121.0	121.4	115.6	122.2	28.08	25.80	27.10	43.1	40.2	43.1	65.7	64.5	63.2
Lighting equipment.....	113.9	119.6	123.3	123.1	124.4	136.2	33.62	32.35	34.38	41.2	39.9	42.4	81.5	81.0	81.1
Silverware and plated ware.....	86.1	86.5	87.1	100.8	102.2	102.9	34.18	34.40	34.41	44.3	45.2	45.7	76.8	76.4	75.5
Smelting and refining—copper, lead, and zinc.....	101.3	100.3	101.2	123.9	120.8	120.1	34.48	33.92	33.38	39.8	39.3	39.5	86.6	86.2	84.5
<b>Lumber and allied products</b> .....	<b>76.6</b>	<b>77.9</b>	<b>78.8</b>	<b>85.8</b>	<b>86.4</b>	<b>82.3</b>	<b>24.35</b>	<b>24.12</b>	<b>25.12</b>	<b>39.7</b>	<b>38.5</b>	<b>41.5</b>	<b>60.2</b>	<b>60.2</b>	<b>59.8</b>
Furniture.....	106.8	108.4	107.4	120.9	118.8	120.6	26.81	26.07	26.71	41.8	41.0	42.8	64.2	64.0	62.6
Lumber:															
Millwork.....	74.4	75.5	76.8	71.8	71.0	74.9	26.66	26.05	26.91	42.7	41.6	43.4	62.3	62.5	61.9
Sawmills.....	65.3	66.4	69.5	68.0	70.2	78.2	21.50	21.79	23.22	37.6	38.0	40.2	57.2	57.3	57.8
<b>Stone, clay, and glass products</b> .....	<b>99.7</b>	<b>101.5</b>	<b>102.0</b>	<b>108.8</b>	<b>106.1</b>	<b>109.5</b>	<b>29.26</b>	<b>28.59</b>	<b>29.38</b>	<b>38.6</b>	<b>37.8</b>	<b>39.2</b>	<b>75.3</b>	<b>74.9</b>	<b>74.4</b>
Brick, tile, and terra cotta.....	74.3	76.2	77.7	72.5	72.9	75.8	25.84	25.11	25.71	38.9	38.1	39.2	66.7	65.7	65.5
Cement.....	80.7	82.4	82.1	89.0	90.8	92.9	31.27	31.22	32.08	39.9	39.7	41.0	78.4	78.7	78.3
Glass.....	132.0	133.1	132.4	172.2	169.3	173.7	31.80	31.17	32.16	38.1	37.0	38.6	84.1	84.4	83.6
Marble, granite, slate, and other products.....	43.7	45.6	46.7	35.0	34.6	37.6	28.24	26.70	28.32	38.5	36.8	38.8	73.3	72.1	72.8
Pottery.....	122.3	123.8	123.9	130.8	128.5	131.5	27.11	26.25	26.84	38.4	37.5	38.6	70.7	69.8	69.5
<i>Nondurable goods</i>															
<b>Textiles and their products</b> .....	<b>113.0</b>	<b>113.4</b>	<b>114.9</b>	<b>122.1</b>	<b>118.2</b>	<b>122.4</b>	<b>22.30</b>	<b>21.57</b>	<b>21.91</b>	<b>38.1</b>	<b>37.1</b>	<b>37.6</b>	<b>58.3</b>	<b>57.9</b>	<b>58.1</b>
Fabrics.....	106.2	106.1	106.4	123.6	118.9	120.2	22.46	21.66	21.80	39.6	38.4	38.8	57.1	56.7	56.6
Carpets and rugs.....	89.8	90.0	90.5	95.2	94.4	93.6	29.24	28.97	28.58	38.8	38.4	39.0	75.5	75.5	73.3
Cotton goods.....	111.9	111.8	111.5	139.8	135.3	136.2	20.27	19.65	19.80	40.2	39.1	39.4	50.5	50.3	50.4
Cotton smallwares.....	108.5	109.1	109.2	129.2	127.9	128.1	23.56	23.04	22.91	41.1	40.3	40.9	57.5	57.4	56.3
Dyeing and finishing textiles.....	134.8	133.1	135.1	141.1	132.4	135.9	25.58	24.15	24.53	40.4	38.6	39.2	62.3	61.7	61.5
Hats, fur-felt.....	75.6	76.3	77.7	82.4	75.6	74.9	29.94	27.23	26.57	35.8	33.3	32.5	84.3	83.0	82.7
Hosiery.....	135.0	135.0	135.2	163.5	159.5	160.6	21.24	20.77	20.87	37.3	36.5	36.6	57.2	57.0	57.3
Knitted outerwear <sup>4</sup> .....	77.4	80.3	83.8	73.6	76.9	79.8	19.61	19.83	19.92	37.0	37.5	38.1	52.4	52.0	51.8
Knitted underwear.....	85.6	88.1	88.4	98.1	97.3	98.6	19.45	18.72	18.88	38.3	38.6	39.0	50.3	43.1	48.1
Knitted cloth.....	145.6	145.8	151.2	144.4	139.7	148.4	22.68	22.05	22.61	39.2	38.4	39.7	57.9	56.7	56.4
Silk and rayon goods.....	61.0	61.3	61.9	62.2	60.9	61.5	21.18	20.78	20.73	38.9	38.0	38.4	54.4	54.5	53.8
Woolen and worsted goods.....	110.7	109.4	109.6	133.8	124.7	126.7	27.99	26.45	26.81	40.1	38.2	39.0	69.9	69.4	68.9

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			Average hours worked per week			Average hourly earnings		
	December 1941	November 1941	October 1941	December 1941	November 1941	October 1941	December 1941	November 1941	October 1941	December 1941	November 1941	October 1941	December 1941	November 1941	October 1941
<i>Nondurable goods—Continued</i>															
<b>Textiles and their products—Continued.</b>													<i>Cents</i>	<i>Cents</i>	<i>Cents</i>
Wearing apparel.....	123.2	124.8	129.0	111.7	109.6	119.2	\$21.83	\$21.32	\$22.21	35.1	34.4	35.4	60.9	60.4	61.1
Clothing, men's.....	120.7	121.0	123.4	111.5	109.0	112.8	23.61	23.08	23.42	35.8	34.9	35.2	66.1	66.0	66.0
Clothing, women's.....	162.7	164.4	172.7	133.3	126.1	145.4	22.00	20.58	22.59	33.7	32.8	34.9	61.9	60.0	61.2
Corsets and allied garments..	113.4	121.7	112.4	138.4	149.6	144.0	20.27	20.34	21.27	37.3	36.8	38.9	54.3	54.6	53.7
Men's furnishings 4.....	119.9	130.2	133.1	132.9	157.2	166.8	16.40	17.86	18.61	32.8	36.3	37.7	49.0	48.1	48.3
Millinery.....	60.1	61.3	77.2	39.6	40.3	59.6	20.14	20.09	23.57	27.7	26.8	29.1	68.4	69.8	75.0
Shirts and collars.....	135.1	137.0	137.1	153.3	155.7	156.8	18.05	18.09	18.22	38.9	37.5	37.9	46.8	48.4	48.1
<b>Leather and its manufactures...</b>	<b>99.2</b>	<b>96.7</b>	<b>98.5</b>	<b>106.7</b>	<b>97.0</b>	<b>100.5</b>	<b>24.87</b>	<b>23.16</b>	<b>23.59</b>	<b>38.7</b>	<b>36.4</b>	<b>37.7</b>	<b>64.9</b>	<b>64.4</b>	<b>63.5</b>
Boots and shoes.....	95.2	92.3	94.7	99.5	88.4	93.3	23.36	21.45	22.07	38.1	35.4	37.0	61.8	61.4	60.5
Leather.....	98.2	97.7	96.7	121.8	117.8	116.4	31.20	30.40	30.22	40.9	40.3	40.4	76.4	75.3	74.8
<b>Food and kindred products.....</b>	<b>140.7</b>	<b>145.7</b>	<b>152.4</b>	<b>157.1</b>	<b>157.7</b>	<b>162.9</b>	<b>28.33</b>	<b>27.39</b>	<b>27.14</b>	<b>40.7</b>	<b>40.2</b>	<b>40.9</b>	<b>70.3</b>	<b>69.5</b>	<b>67.9</b>
Baking.....	151.5	153.7	154.5	157.5	159.7	157.6	28.84	28.81	28.18	41.5	42.0	41.9	69.5	68.8	67.5
Beverages 4.....	289.4	291.0	302.7	358.6	351.2	381.5	36.40	35.41	36.92	39.9	38.6	40.6	92.2	92.7	92.0
Butter.....	101.4	103.6	102.4	95.6	97.3	96.8	24.94	24.63	24.74	45.1	45.6	45.9	54.1	53.3	53.4
Canning and preserving..	123.2	162.2	218.4	129.4	172.5	244.4	19.87	20.27	21.23	36.0	36.4	39.8	56.6	56.8	54.7
Confectionery.....	105.6	110.0	106.3	123.3	125.6	122.0	22.37	21.96	22.16	41.0	40.2	40.6	55.1	54.9	54.7
Flour.....	78.9	78.9	80.1	89.3	83.0	88.3	30.43	28.22	29.66	44.3	42.3	44.3	67.5	65.7	66.1
Ice cream.....	71.0	73.0	78.4	67.1	66.9	71.2	32.27	31.14	30.80	45.3	45.0	44.7	69.8	67.9	67.9
Slaughtering and meat packing..	137.7	129.7	125.9	168.5	153.5	151.0	31.87	30.79	31.20	40.7	38.8	39.8	78.3	79.3	78.7
Sugar, beet.....	228.0	265.4	244.5	254.8	308.3	229.1	29.24	30.46	24.41	45.3	49.0	36.8	64.0	62.3	65.3
Sugar refining, cane.....	98.6	97.0	103.3	98.2	89.7	93.9	28.09	26.20	25.75	40.7	38.2	37.7	69.0	68.6	68.4
<b>Tobacco manufactures.....</b>	<b>67.4</b>	<b>68.4</b>	<b>67.3</b>	<b>76.7</b>	<b>77.1</b>	<b>75.6</b>	<b>20.67</b>	<b>20.45</b>	<b>20.36</b>	<b>39.1</b>	<b>38.5</b>	<b>38.7</b>	<b>53.0</b>	<b>53.2</b>	<b>52.7</b>
Cheewing and smoking tobacco and snuff..	56.5	54.8	54.3	74.1	71.5	70.8	21.22	21.12	21.14	37.2	36.5	36.7	57.4	58.1	57.9
Cigars and cigarettes.....	68.7	70.0	69.0	76.9	77.6	76.0	20.57	20.33	20.22	39.3	38.7	38.9	52.6	52.7	52.2
<b>Paper and printing.....</b>	<b>128.3</b>	<b>126.7</b>	<b>126.5</b>	<b>144.1</b>	<b>137.5</b>	<b>135.9</b>	<b>34.04</b>	<b>32.98</b>	<b>32.66</b>	<b>41.0</b>	<b>40.4</b>	<b>40.3</b>	<b>85.5</b>	<b>84.1</b>	<b>83.4</b>
Boxes, paper.....	144.7	146.7	146.8	192.6	193.5	194.5	26.60	26.40	26.58	42.2	42.0	42.7	63.4	63.2	62.5
Paper and pulp.....	129.1	128.7	128.2	169.9	166.9	165.4	32.42	31.94	31.73	43.4	43.3	43.4	74.7	73.8	73.2
Printing and publishing:															
Book and job.....	110.0	108.2	108.2	109.7	104.6	102.6	34.86	33.56	32.91	41.3	40.3	39.9	84.3	83.8	82.7
Newspapers and periodicals.....	122.3	118.1	118.1	128.5	116.4	114.8	42.65	40.10	39.42	37.4	36.1	35.8	111.2	108.6	108.2



<b>Chemical, petroleum, and coal products <sup>4</sup></b>	<b>148.6</b>	<b>148.5</b>	<b>148.6</b>	<b>200.9</b>	<b>195.6</b>	<b>194.3</b>	<b>36.19</b>	<b>35.23</b>	<b>34.99</b>	<b>40.5</b>	<b>40.0</b>	<b>40.2</b>	<b>88.1</b>	<b>87.5</b>	<b>86.1</b>
Petroleum refining	129.3	129.2	129.2	173.9	167.8	168.0	41.74	40.41	40.33	37.9	36.6	36.9	110.9	111.1	109.7
Other than petroleum refining <sup>4</sup>	153.2	153.2	153.4	209.2	204.2	202.4	34.39	33.55	33.24	41.2	40.9	41.2	81.5	80.6	79.4
Chemicals	185.9	184.9	183.4	271.6	264.6	261.0	38.64	38.08	37.85	41.1	40.7	41.0	94.1	93.5	92.5
Cottonseed—oil, cake, and meal	116.7	123.0	134.6	125.5	131.4	142.7	17.30	17.21	17.13	46.6	46.1	47.2	36.8	36.9	35.4
Druggists' preparations	149.2	148.0	145.8	184.0	188.0	183.6	27.48	28.31	28.09	40.5	41.3	42.0	64.7	65.5	63.8
Explosives <sup>4</sup>	(3)	(5)	(5)	(5)	(5)	(5)	44.85	42.30	40.81	47.0	45.0	43.7	95.4	94.0	93.3
Fertilizers	105.8	101.2	103.6	106.2	99.1	102.7	18.44	18.14	18.45	36.3	35.5	36.8	50.8	51.1	50.1
Paints and varnishes	142.2	142.6	143.9	176.0	172.2	173.8	34.20	33.30	33.33	41.6	40.8	41.2	82.4	81.8	80.8
Rayon and allied products	321.1	322.9	325.0	391.2	385.2	386.4	31.13	30.50	30.42	39.1	39.4	39.4	79.7	77.5	77.3
Soap	92.3	96.5	97.7	133.5	138.5	142.2	34.09	33.82	34.28	40.1	40.5	41.2	84.9	83.6	83.2
<b>Rubber products</b>	<b>110.8</b>	<b>111.5</b>	<b>111.6</b>	<b>138.0</b>	<b>141.0</b>	<b>138.1</b>	<b>33.84</b>	<b>34.39</b>	<b>33.54</b>	<b>38.8</b>	<b>39.3</b>	<b>39.1</b>	<b>88.0</b>	<b>87.6</b>	<b>86.5</b>
Rubber boots and shoes <sup>10</sup>	80.8	81.7	80.4	109.3	110.4	106.9	30.78	30.74	30.25	41.7	41.8	41.8	73.8	73.6	72.4
Rubber tires and inner tubes	85.4	86.4	86.0	109.5	117.6	111.8	37.40	39.72	37.92	35.0	37.0	35.8	107.2	107.5	106.0
Rubber goods, other	190.3	190.0	192.6	238.9	228.6	234.4	30.45	29.28	29.53	41.7	40.9	41.5	73.0	71.7	71.3

# NONMANUFACTURING

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

<b>Coal mining:</b>													<i>Cents</i>	<i>Cents</i>	<i>Cents</i>
Anthracite <sup>11 12</sup>	49.1	50.2	50.3	35.9	41.8	49.2	\$24.05	\$27.38	\$32.12	23.6	27.2	31.9	100.7	100.7	100.6
Bituminous <sup>11</sup>	95.4	95.1	95.3	119.6	116.3	122.6	33.47	32.62	34.27	32.0	31.3	33.0	105.7	105.1	103.8
<b>Metalliferous mining <sup>13</sup></b>	<b>79.5</b>	<b>79.5</b>	<b>79.7</b>	<b>90.9</b>	<b>89.8</b>	<b>88.3</b>	<b>36.20</b>	<b>35.74</b>	<b>34.86</b>	<b>42.7</b>	<b>42.2</b>	<b>42.5</b>	<b>85.0</b>	<b>85.0</b>	<b>82.3</b>
Quarrying and nonmetallic mining	50.8	52.6	54.1	56.0	57.5	61.5	27.87	27.66	28.88	42.1	42.1	44.0	66.4	66.2	65.9
Crude-petroleum production <sup>14</sup>	61.0	60.9	61.6	64.9	64.2	64.4	39.37	38.79	38.39	38.6	37.6	38.7	99.1	99.9	96.8
<b>Public utilities:</b>															
Telephone and telegraph <sup>15 16</sup>	89.6	90.1	90.6	124.1	118.3	117.0	33.83	32.08	31.53	40.5	40.0	39.7	84.1	80.7	79.7
Electric light and power <sup>15 16</sup>	93.3	93.4	94.1	116.3	115.2	115.7	38.00	37.60	37.50	40.3	39.9	40.6	94.7	94.5	92.9
Street railways and busses <sup>15 16 17</sup>	70.4	70.2	70.3	80.1	78.2	78.4	37.14	36.35	36.32	47.0	46.2	46.4	78.1	77.6	77.0
<b>Trade:</b>															
Wholesale <sup>15 16</sup>	96.5	96.3	96.3	92.7	91.6	92.0	33.75	33.44	33.48	41.2	40.6	41.3	81.8	82.4	81.2
Retail <sup>15 16</sup>	112.8	103.0	101.0	107.9	98.5	97.3	21.79	21.88	22.07	42.3	41.7	42.1	56.1	57.7	57.6
Food <sup>16</sup>	114.0	111.9	110.7	115.4	109.1	107.0	25.75	24.91	24.64	41.9	41.8	41.8	57.3	57.4	56.6
General merchandising <sup>15 16</sup>	161.0	125.9	116.4	150.6	117.8	110.9	18.68	18.52	18.69	40.1	38.2	38.4	45.7	47.9	48.5
Apparel	107.6	99.0	97.4	101.7	94.5	93.1	22.35	22.51	22.21	38.5	38.0	37.8	58.1	59.9	59.3
Furniture <sup>16</sup>	80.7	78.8	80.3	78.8	74.7	82.6	30.41	29.76	31.35	44.5	43.6	44.1	70.0	70.9	71.0
Automotive <sup>16</sup>	85.8	86.1	87.5	87.2	87.1	86.3	30.27	30.11	29.67	47.3	46.9	47.2	64.6	65.4	63.7
Lumber <sup>16</sup>	79.8	81.3	82.4	83.0	83.0	86.4	29.12	28.49	29.04	42.7	41.9	43.5	69.5	69.0	68.4
Hotels (year-round) <sup>11 15 19</sup>	95.6	96.1	96.2	93.5	93.2	91.9	16.91	16.77	16.50	45.3	45.3	45.3	36.7	36.3	36.0
Laundries <sup>11</sup>	108.4	108.9	111.2	102.7	101.9	103.4	19.68	19.44	19.31	42.9	42.9	42.9	46.2	46.1	45.3
Dyeing and cleaning <sup>11</sup>	113.1	117.2	121.2	88.5	93.0	98.5	21.79	22.09	22.56	42.4	42.7	43.9	52.4	53.1	52.7

See footnotes at end of table.

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

## NONMANUFACTURING—Continued

Industry	Employment index			Pay-roll index			Average weekly earnings			Average hours worked per week			Average hourly earnings		
	December 1941	November 1941	October 1941	December 1941	November 1941	October 1941	December 1941	November 1941	October 1941	December 1941	November 1941	October 1941	December 1941	November 1941	October 1941
Brokerage <sup>15 20 21</sup> .....	+0.4	-1.2	-0.6	+1.2	-0.5	— <sup>(22)</sup>	\$40.55	\$40.22	\$39.72	<sup>(23)</sup>	<sup>(23)</sup>	<sup>(23)</sup>	<i>Cents</i> <sup>(23)</sup>	<i>Cents</i> <sup>(23)</sup>	<i>Cents</i> <sup>(23)</sup>
Insurance <sup>16 20</sup> .....	+4	— <sup>(22)</sup>	—2	+1.5	—4	+1.4	38.13	37.73	37.89	<sup>(23)</sup>	<sup>(23)</sup>	<sup>(23)</sup>	<sup>(23)</sup>	<sup>(23)</sup>	<sup>(23)</sup>
Building construction <sup>20</sup> .....	-5.7	-2.8	-1.3	—7	-5.1	-2.8	37.73	35.93	36.50	35.4	34.6	35.7	106.6	103.9	102.3
Water transportation <sup>24</sup> .....	77.5	77.4	77.6	<sup>(23)</sup>	<sup>(23)</sup>	<sup>(23)</sup>	<sup>(23)</sup>	<sup>(23)</sup>	<sup>(23)</sup>	<sup>(23)</sup>	<sup>(23)</sup>	<sup>(23)</sup>	<sup>(23)</sup>	<sup>(23)</sup>	<sup>(23)</sup>
Class I steam railroads <sup>25</sup> .....	116.1	117.8	119.4	<sup>(23)</sup>	<sup>(23)</sup>	<sup>(23)</sup>	<sup>(23)</sup>	<sup>(23)</sup>	<sup>(23)</sup>	<sup>(23)</sup>	<sup>(23)</sup>	<sup>(23)</sup>	<sup>(23)</sup>	<sup>(23)</sup>	<sup>(23)</sup>

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

<sup>4</sup> Revisions in the following industries and groups have been made as indicated:

*Plumbers' supplies.*—September 1941 average weekly earnings and average hourly earnings to \$30.97 and 76.4 cents.

*Nonferrous metals and their products.*—September 1941 employment and pay-roll indexes to 146.4 and 185.6.

*Aluminum manufactures.*—September 1941 employment and pay-roll indexes to 245.5 and 357.7; September average weekly earnings and average hourly earnings to \$36.21 and 85.4 cents.

*Knitted outerwear.*—August 1941 average weekly and hourly earnings to \$19.77 and 50.6 cents; September 1941 employment index to 82.5.

*Men's furnishings.*—September 1941 employment and pay-roll indexes to 130.5 and 155.8; September average weekly earnings, average hours, and average hourly earnings to \$17.72, 37.3 hours, and 46.1 cents.

*Beverages.*—September 1941 employment index to 315.2; September average weekly

<sup>5</sup> See footnote 7 in table 5 of October 1941 "Employment and Pay Rolls" for revised employment and pay-roll indexes, average hours worked per week, average hourly earnings, and average weekly earnings in "Locomotives," August 1940 to July 1941, inclusive.

<sup>6</sup> See table 8 in March 1941 "Employment and Pay Rolls" pamphlet for revised figures from January 1935 to February 1941.

<sup>10</sup> *Rubber boots and shoes.*—Because of expansion in the reporting sample, average weekly earnings and average hourly earnings are not comparable with those previously published for September 1941 and prior months. (Comparable September figures are \$30.67 and 72.0 cents.)

<sup>11</sup> Indexes adjusted to 1935 census. Comparable series back to January 1929 presented in January 1938 issue of pamphlet.

<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 pamphlet for revised figures for metalliferous mining from January 1938 to January 1941, inclusive.

<sup>14</sup> Does not include well drilling or rig building.

<sup>15</sup> Average weekly earnings, hourly earnings, and hours not comparable with figures published in pamphlets prior to January 1938, as they now exclude corporation officers, executives, and other employees whose duties are mainly supervisory.

<sup>16</sup> Retail-trade indexes adjusted to 1935 census and public-utility indexes to 1937 census. Not comparable to indexes published in pamphlets prior to January 1940 or in Monthly Labor Review prior to April 1940, with but 1 exception, retail furniture, which has been revised since publication of July 1940 pamphlet back to January 1936. Comparable series for earlier months available upon request.

<sup>17</sup> Covers street railways and trolley and motorbus operations of subsidiary, affiliated

and hourly earnings to \$37.38 and 91.8 cents.

*Chemical, petroleum, and coal products group.*—August and September 1941 employment indexes to 142.0 and 146.6; pay-roll indexes to 180.0 and 187.0.

*Chemicals, other than petroleum refining.*—August and September 1941 employment indexes to 145.4 and 150.9; pay-roll indexes to 186.4 and 193.3.

*Explosives.*—August and September 1941 average weekly earnings to \$38.56 and \$39.04; average weekly hours to 43.1 and 43.2; average hourly earnings to 89.6 and 90.5 cents.

<sup>5</sup> Included in total and group indexes, but not available for publication separately.

<sup>6</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>7</sup> The indexes for "Automobiles" have been adjusted to 1933 census figures, but not to later census figures because of problems involving integrated industries.

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.

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

<sup>21</sup> See note 18, table 9, in the July 1941 issue of "Employment and Pay Rolls" for revised average weekly earnings in the brokerage industry from January 1939 to January 1941.

<sup>22</sup> Less than  $\frac{1}{10}$  of 1 percent.

<sup>23</sup> Not available.

<sup>24</sup> Based on estimates prepared by the United States Maritime Commission covering employment on steam and motor merchant vessels of 1,000 gross tons or over in deep-sea trades only.

<sup>25</sup> Preliminary—Source: Interstate Commerce Commission.

TABLE 7.—*Indexes of Employment and Pay Rolls in 55 Additional Manufacturing Industries*

[12-month average 1939=100]

Industry	Employment			Pay rolls		
	De- cember 1941	No- vember 1941	Octo- ber 1941	De- cember 1941	No- vember 1941	Octo- ber 1941
Iron and steel group:						
Metal doors and shutters.	142.5	144.0	148.3	209.2	197.3	219.0
Firearms.	(1)	(1)	(1)	(1)	(1)	(1)
Screw-machine products.	213.4	200.3	207.9	317.8	294.7	293.8
Wire drawing.	139.0	138.2	140.3	184.5	174.3	173.1
Wrought pipe not made in rolling mills.	152.3	152.7	159.6	199.8	194.2	204.4
Steel barrels, kegs, and drums.	140.0	144.4	147.2	193.6	180.0	190.7
Machinery group:						
Machine-tool accessories.	(1)	(1)	(1)	(1)	(1)	(1)
Pumps.	213.4	207.1	203.3	351.7	319.7	312.8
Refrigerators and refrigerating apparatus.	111.2	105.9	121.4	134.7	116.0	141.5
Sewing machines.	137.9	136.9	136.8	224.5	215.2	220.3
Washing machines, wringers, and driers.	117.7	118.8	116.3	154.7	140.6	140.7
Transportation equipment group:						
Motorcycles, bicycles, and parts.	163.8	168.6	168.7	216.3	211.2	214.9
Nonferrous metals group:						
Sheet-metal work.	145.9	145.7	149.5	194.5	181.5	189.1
Smelting and refining of scrap metal.	150.5	148.8	156.5	190.2	181.0	194.4
Lumber group:						
Caskets and morticians' goods.	105.6	105.0	105.3	126.5	118.8	120.1
Wood preserving.	118.8	120.0	123.1	166.4	158.5	160.9
Wood turned and shaped.	111.8	110.8	107.8	144.1	138.9	141.4
Wooden boxes, other than cigar.	127.4	125.5	127.9	170.2	163.9	170.9
Mattresses and bedsprings.	117.9	123.7	128.8	139.4	138.3	161.7
Stone, clay, and glass products group:						
Abrasives wheels.	194.8	193.5	193.7	260.1	248.3	257.8
Asbestos products.	138.1	142.0	144.2	192.2	189.9	195.2
Lime.	118.1	120.0	119.8	156.2	153.3	159.4
Gypsum.	120.9	122.9	126.6	158.1	155.4	165.8
Glass products made from purchased glass.	143.7	146.2	136.7	176.7	177.8	167.9
Wallboard and plaster, except gypsum.	132.8	140.7	140.8	159.5	165.7	166.3
Textiles:						
Textile bags.	116.4	114.3	117.7	136.6	127.0	137.3
Cordage and twine.	143.0	142.9	142.4	197.5	195.5	193.6
Curtains, draperies, and bedspreads.	95.2	106.0	112.4	134.2	144.6	158.0
Housefurnishings, other.	126.9	132.9	142.2	154.7	158.9	176.6
Jute goods, except felt.	124.7	126.6	128.9	182.3	176.2	174.5
Handkerchiefs.	102.0	106.2	108.6	131.7	138.9	144.5
Leather group:						
Boot and shoe cut stock and findings.	103.9	102.1	104.9	129.0	121.2	125.8
Leather gloves and mittens.	142.0	148.4	154.1	166.9	177.5	195.8
Trunks and suitcases.	185.2	191.9	180.5	203.0	214.0	204.1
Food group:						
Cereal preparations.	106.6	110.2	116.6	128.0	129.2	128.0
Condensed and evaporated milk.	122.8	123.5	124.4	142.9	141.8	146.3
Feeds, prepared.	111.1	114.4	113.7	135.8	133.7	136.5
Paper and printing group:						
Paper bags.	129.1	129.1	129.3	167.2	159.7	160.7
Envelopes.	124.1	123.0	123.1	142.1	137.6	136.6
Paper goods, not elsewhere classified.	129.9	128.7	128.7	153.3	149.2	152.3
Bookbinding.	112.0	111.8	117.0	147.5	133.5	143.2
Lithographing.	106.1	108.0	108.3	116.1	116.3	117.9
Chemical, petroleum, and coal products group:						
Ammunition.	(1)	(1)	(1)	(1)	(1)	(1)
Compressed and liquefied gases.	143.5	140.8	140.5	160.0	165.6	162.3
Perfumes and cosmetics.	110.4	123.6	121.8	122.1	141.1	140.5
Coke-oven products.	123.6	122.6	124.3	149.1	144.9	147.4
Paving materials.	99.9	109.7	113.6	127.2	132.4	139.2
Roofing materials.	124.0	129.5	129.6	153.6	162.6	164.9
Miscellaneous group:						
Chemical fire extinguishers.	(1)	(1)	(1)	(1)	(1)	(1)
Buttons.	123.4	121.2	121.0	162.7	159.0	156.9
Instruments—professional, scientific, and commercial.	(1)	(1)	(1)	(1)	(1)	(1)
Optical goods.	(1)	(1)	(1)	(1)	(1)	(1)
Photographic apparatus.	125.4	124.8	124.9	166.7	160.6	162.3
Pianos, organs, and parts.	127.8	130.4	130.7	158.0	163.1	159.6
Toys, games, and playground equipment.	123.4	133.9	139.7	147.6	153.9	157.8

\* Confidential.

TABLE 8.—*Indexes of Employment and Pay Rolls in Selected Manufacturing<sup>1</sup> and Nonmanufacturing<sup>2</sup> Industries, December 1940 to December 1941*

Industry	1940			1941											
	A.v.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	
Employment															
Manufacturing															
All industries.....	107.5	116.2	115.5	117.8	119.9	122.6	124.9	127.9	130.6	133.1	135.2	135.4	134.8	134.3	
Durable goods <sup>3</sup> .....	104.3	117.7	118.3	121.0	123.7	127.7	131.3	135.1	137.6	138.7	142.1	144.0	144.6	144.3	
Nondurable goods <sup>4</sup> .....	110.6	114.8	112.7	114.7	116.3	117.8	118.8	121.1	123.9	127.7	128.7	127.3	125.4	124.7	
Nonmanufacturing															
Anthracite mining <sup>5</sup> .....	50.7	50.8	50.3	50.6	50.2	48.7	48.6	49.2	49.3	50.0	50.0	50.3	50.2	49.1	
Bituminous-coal mining <sup>5</sup> .....	88.0	90.1	90.2	90.6	91.1	23.5	87.9	88.1	90.3	92.6	94.2	95.3	95.1	95.4	
Metalliferous mining <sup>5</sup> .....	69.9	72.2	72.5	73.4	74.3	77.2	77.1	78.9	79.0	79.9	79.4	79.7	79.5	79.5	
Quarrying and nonmetallic mining.....	45.3	45.4	41.7	42.4	44.2	48.2	51.0	51.9	52.7	53.9	54.2	54.1	52.6	50.8	
Crude-petroleum production.....	62.9	60.7	60.3	60.4	60.2	60.1	60.3	61.5	62.1	62.2	61.8	61.6	60.9	61.0	
Telephone and telegraph <sup>7</sup> .....	77.9	79.7	80.4	80.9	81.8	83.2	84.6	86.3	88.3	89.6	90.3	90.6	90.1	89.6	
Electric light and power <sup>7</sup> .....	91.1	91.3	90.5	90.1	90.3	91.3	92.2	93.5	94.6	95.2	94.9	94.1	93.4	93.3	
Street railways and busses <sup>8</sup> .....	68.5	68.4	68.3	68.0	68.2	68.3	68.9	69.1	69.5	69.7	70.3	70.3	70.2	70.4	
Wholesale trade.....	90.4	92.5	91.2	91.4	91.8	92.4	92.2	93.8	94.2	95.8	95.6	96.3	96.3	96.5	
Retail trade <sup>7</sup> .....	92.3	108.1	90.5	90.7	92.5	97.8	96.1	97.8	96.7	96.9	100.0	101.0	103.0	112.8	
Year-round hotels <sup>6</sup> .....	92.0	92.6	92.9	93.9	94.2	95.2	96.3	95.0	94.5	94.5	95.7	96.2	96.1	95.6	
Laundries <sup>6</sup> .....	99.5	100.3	101.4	101.1	102.5	104.9	108.3	112.0	115.8	114.6	113.0	111.2	108.9	108.4	
Dyeing and cleaning <sup>6</sup> .....	104.7	103.3	101.0	101.4	104.4	117.2	120.6	122.7	121.7	118.9	121.5	121.2	117.2	113.1	
Pay rolls															
Manufacturing															
All industries.....	105.4	122.4	120.7	126.8	131.2	134.7	144.1	152.2	152.7	158.1	162.6	167.0	165.4	170.2	
Durable goods <sup>3</sup> .....	107.8	131.7	132.0	139.3	144.6	149.9	163.1	173.9	172.2	177.6	183.3	191.4	190.3	195.9	
Nondurable goods <sup>4</sup> .....	102.7	112.1	108.1	112.9	116.3	117.7	122.9	127.9	130.7	136.3	139.5	139.6	137.4	141.3	
Nonmanufacturing															
Anthracite mining <sup>5</sup> .....	38.5	42.7	38.5	45.2	42.4	24.3	33.4	51.2	34.8	51.1	49.6	49.2	41.8	35.9	
Bituminous-coal mining <sup>5</sup> .....	81.2	91.4	87.8	90.8	93.8	15.5	103.4	107.2	105.4	117.3	115.5	122.6	116.3	119.6	
Metalliferous mining <sup>5</sup> .....	66.7	72.8	70.4	71.8	72.7	78.9	81.5	85.3	79.3	85.4	85.9	88.3	89.8	90.9	
Quarrying and nonmetallic mining.....	40.5	42.4	36.9	38.2	40.3	47.0	53.2	55.7	55.5	59.3	60.5	61.5	57.5	56.0	
Crude-petroleum production.....	58.2	55.9	55.7	57.3	56.1	57.8	58.6	59.9	61.4	61.5	64.4	64.4	64.2	64.9	
Telephone and telegraph <sup>7</sup> .....	100.2	103.5	103.9	104.3	106.4	107.3	110.5	113.0	115.7	116.4	117.3	117.0	118.3	124.1	
Electric light and power <sup>7</sup> .....	104.8	106.0	105.1	105.4	106.1	107.6	109.6	111.4	113.5	115.1	115.0	115.7	115.2	116.3	
Street railways and busses <sup>8</sup> .....	70.4	73.1	70.7	71.0	72.5	72.0	72.7	76.2	75.8	78.6	78.1	78.4	78.2	80.1	
Wholesale trade.....	79.0	83.4	80.5	81.4	82.0	83.4	84.6	88.4	88.0	89.8	90.9	92.0	91.6	92.7	
Retail trade <sup>7</sup> .....	84.2	97.3	83.7	84.6	86.2	91.7	91.5	95.2	94.0	94.0	95.8	97.3	98.5	107.9	
Year-round hotels <sup>6</sup> .....	82.4	84.1	84.1	86.1	85.7	87.1	87.9	87.4	87.6	88.2	90.0	91.9	93.2	93.5	
Laundries <sup>6</sup> .....	87.7	89.2	89.8	89.7	90.9	95.8	98.7	102.5	106.7	104.7	105.2	103.4	101.9	102.7	
Dyeing and cleaning <sup>6</sup> .....	78.2	75.8	73.3	74.4	77.2	97.8	96.1	98.4	96.4	92.1	99.5	98.5	93.0	88.5	

<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 3, 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 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 subsidiary, affiliated, and successor companies.

TABLE 9.—*Indexes of Employment in Manufacturing Industries, by Metropolitan Area*

[12-month average 1937=100]

Metropolitan area	Employment index		Percentage change, November to December 1941	Employment index, December 1940	Percentage change, December 1940 to December 1941
	December 1941	November 1941			
Akron, Ohio.....	113.4	113.4	0	93.3	+21.5
Albany, N. Y.....	116.7	115.9	+7	95.1	+22.7
Atlanta, Ga.....	114.7	109.7	+4.6	103.9	+10.4
Baltimore, Md.....	165.0	164.5	+3	123.0	+34.1
Birmingham, Ala.....	131.7	131.5	+2	120.5	+9.3
Boston, Mass. <sup>1</sup> .....	145.1	142.7	+1.7	114.5	+26.7
Cambridge, Mass.....	110.4	111.9	-1.3	93.2	+18.5
Lynn, Mass.....	184.6	181.4	+1.8	121.9	+51.4
Somerville, Mass.....	101.6	102.3	-7	103.7	-2.0
Boston, city and outside <sup>1</sup> .....	146.7	143.8	+2.0	116.5	+25.9
Bridgeport, Conn.....	161.3	159.8	+9	117.3	+37.5
Buffalo, N. Y.....	140.3	140.7	-3	118.1	+18.8
Canton, Ohio.....	144.9	143.6	+9	114.7	+26.3
Chattanooga, Tenn.....	121.1	121.5	-3	107.2	+13.0
Chicago, Ill.....	132.9	132.8	+1	110.1	+20.7
Gary, Ind.....	118.5	118.9	-3	120.6	-1.7
Chicago, city and outside.....	133.7	133.6	+1	109.5	+22.1
Cincinnati, Ohio.....	124.5	124.7	-2	101.5	+22.7
Cleveland, Ohio.....	136.7	136.3	+3	111.5	+22.6
Columbus, Ohio.....	136.2	135.6	+4	109.9	+23.9
Dallas, Tex.....	148.8	152.4	-2.4	111.3	+33.7
Dayton, Ohio.....	107.0	106.7	+3	95.0	+12.6
Denver, Colo.....	157.3	147.1	+6.9	99.4	+58.2
Des Moines, Iowa.....	116.0	112.6	+3.0	106.1	+9.3
Detroit, Mich.....	88.8	93.4	-4.9	92.8	-4.3
Duluth, Minn.....	89.6	85.9	+4.3	73.0	+22.7
El Paso, Tex.....	101.8	98.1	+3.8	97.2	+4.7
Erie, Pa.....	144.6	144.6	0	114.6	+26.2
Evansville, Ind.....	79.0	79.8	-1.0	90.0	-12.2
Flint, Mich.....	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
Fort Wayne, Ind.....	121.2	118.5	+2.3	90.7	+33.6
Fort Worth, Tex.....	116.2	113.4	+2.5	97.3	+19.4
Grand Rapids, Mich.....	116.2	120.0	-3.2	134.4	-13.5
Hartford, Conn.....	151.9	150.2	+1.1	119.5	+27.1
Houston, Tex.....	135.8	132.3	+2.6	98.5	+37.9
Indianapolis, Ind.....	142.7	141.9	+6	116.3	+22.7
Jacksonville, Fla. <sup>4</sup> .....	145.9	142.4	+2.5	119.8	+21.8
Kansas City, Mo.....	125.7	120.6	+4.2	104.2	+20.6
Kansas City, Kans.....	108.8	106.8	+1.9	103.7	+4.9
Kansas City, Mo., and outside.....	132.1	125.9	+4.9	104.3	+26.7
Knoxville, Tenn.....	121.3	120.9	+3	98.1	+23.6
Los Angeles, Calif.....	207.3	204.8	+1.2	139.5	+48.6
Long Beach, Calif.....	374.7	329.3	+13.8	108.2	+246.3
Los Angeles, city and outside.....	202.8	201.4	+7	140.4	+44.4
Louisville, Ky.....	118.9	120.0	-9	107.2	+10.9
Lowell, Mass. <sup>2</sup> .....	110.0	109.0	+9	101.3	+8.6
Memphis, Tenn.....	109.4	115.2	-5.0	108.1	+1.2
Miami, Fla.....	143.1	137.9	+3.8	118.5	+20.8
Milwaukee, Wis.....	120.4	119.9	+4	99.2	+21.4
Minneapolis-St. Paul <sup>4</sup> .....	120.5	121.7	-1.0	102.9	+17.1
St. Paul, Minn. <sup>4</sup> .....	113.1	117.6	-3.8	106.5	+6.2
Minneapolis, city and outside <sup>4</sup> .....	124.5	123.9	+5	100.9	+23.4
Nashville, Tenn.....	111.7	110.9	+7	96.5	+15.8
New Haven, Conn.....	144.2	143.8	+3	118.5	+21.7
New Orleans, La. <sup>2</sup> .....	145.0	146.6	-1.1	101.0	+43.6
New York and northeastern N. J. <sup>1</sup> .....	137.0	136.3	+5	115.6	+18.5
Newark, N. J.....	135.4	136.0	-4	116.3	+16.4
Jersey City, N. J.....	119.5	121.6	-1.7	101.4	+17.9
Paterson, N. J.....	160.0	157.3	+1.7	134.0	+19.4
Elizabeth, N. J.....	134.2	135.3	-8	108.9	+23.2
Yonkers, N. Y.....	118.7	119.0	-3	103.6	+14.6
New York City and outside <sup>1</sup> .....	137.3	136.4	+7	115.8	+18.6

See footnotes at end of table.

TABLE 9.—*Indexes of Employment in Manufacturing Industries, by Metropolitan Area—Continued*

Metropolitan area	Employment index		Percentage change, November to December 1941	Employment index, December 1940	Percentage change, December 1940 to December 1941
	December 1941	November 1941			
Norfolk, Va. <sup>1</sup>	250.1	241.7	+3.5	168.6	+48.3
Oklahoma City, Okla.	121.4	123.9	-2.0	112.0	+8.4
Omaha, Nebr.	119.4	110.8	+7.8	104.4	+14.4
Peoria, Ill.	115.2	115.0	+2	95.7	+20.4
Philadelphia, Pa. <sup>1</sup>	126.6	124.8	+1.4	106.2	+19.2
Camden, N. J.	163.1	163.3	-.1	123.7	+31.9
Philadelphia, city and outside <sup>1</sup>	123.6	121.7	+1.6	104.8	+17.9
Pittsburgh, Pa.	127.6	126.8	+6	107.4	+18.8
Portland, Oreg.	177.4	168.5	+5.3	106.5	+66.6
Providence, R. I. <sup>1</sup>	125.8	124.7	+9	111.0	+13.3
Fall River, Mass.	111.5	116.0	+1.4	109.7	+1.6
New Bedford, Mass.	103.8	104.1	-.3	89.1	+16.5
Providence, city and outside <sup>1</sup>	133.9	132.6	+1.0	116.5	+14.9
Reading, Pa.	77.2	76.9	+4	73.5	+5.0
Richmond, Va.	113.9	114.9	-.9	110.8	+2.8
Rochester, N. Y.	126.2	125.7	+4	102.2	+23.5
St. Louis, Mo.	120.8	120.0	+7	103.7	+16.5
Salt Lake City, Utah.	99.7	100.8	-1.1	92.9	+7.3
San Antonio, Tex.	119.4	117.3	+1.8	108.2	+10.4
San Diego, Calif.	515.6	467.5	+10.3	250.3	+106.0
San Francisco, Calif. <sup>1</sup>	157.8	151.9	+3.9	108.8	+45.0
Oakland, Calif.	108.2	108.0	+2	98.5	+9.8
San Francisco, city and outside <sup>1</sup>	169.5	162.2	+4.5	111.2	+52.4
Scranton, Pa.	91.3	91.8	-.5	94.0	-2.9
Seattle, Wash. <sup>2</sup>	229.3	216.2	+6.1	118.8	+93.0
South Bend, Ind.	145.9	148.9	-2.0	120.3	+21.3
Spokane, Wash.	103.4	104.4	-1.0	97.5	+6.1
Springfield, Mass. <sup>1</sup>	134.3	134.6	-2	106.7	+25.9
Syracuse, N. Y.	138.2	137.6	+4	114.6	+20.6
Tacoma, Wash. <sup>2</sup>	135.0	125.2	+7.8	91.1	+48.2
Tampa, Fla. <sup>4</sup>	131.2	136.2	-3.7	112.6	+16.5
Toledo, Ohio	102.8	100.5	+2.3	86.5	+18.8
Trenton, N. J.	135.9	134.6	+1.0	130.8	+3.9
Tulsa, Okla.	121.5	124.2	-2.2	96.2	+26.3
Utica, N. Y. <sup>4</sup>	134.0	134.3	-.2	115.7	+15.8
Washington, D. C. <sup>1</sup>	196.9	174.2	+13.0	126.4	+55.8
Wichita, Kans.	271.3	271.9	-.2	162.8	+66.6
Wilmington, Del. <sup>2</sup>	133.5	133.3	+2	106.5	+25.4
Worcester, Mass.	122.4	122.5	-.1	106.1	+15.4
Youngstown, Ohio.	111.6	112.1	-.4	99.4	+12.3

<sup>1</sup> Includes employment in Government arsenals and navy yards.<sup>2</sup> Previously published indexes for 1941 have been revised as follows: Lowell—October, 110.1; New Orleans—October, 137.4; Seattle—September, 203.3, October, 211.2; Tacoma—October, 127.8; Wilmington—October, 132.6.<sup>3</sup> Data not available.<sup>4</sup> Revised—Figures for earlier months (January 1940 to October 1941) available on request.

## WAGE-RATE CHANGES IN UNITED STATES INDUSTRIES

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

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

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

Group and industry	Establishments		Employees		Average percentage change in wage rates of employees having increases
	Total number covered	Number reporting increases	Total number covered	Number reporting increases	
<b>All manufacturing</b> .....	<b>34, 147</b>	<b>576</b>	<b>7, 818, 618</b>	<b>238, 171</b>	<b>7. 4</b>
Durable goods.....	12, 881	241	4, 339, 552	121, 645	8. 0
Nondurable goods.....	21, 266	335	3, 479, 066	116, 526	6. 7
<b>Iron and steel and their products, not including machinery</b> .....	<b>2, 695</b>	<b>52</b>	<b>1, 106, 446</b>	<b>29, 050</b>	<b>8. 5</b>
Blast furnaces, steel works, and rolling mills..	345	7	581, 074	4, 489	11. 1
Cast-iron pipe.....	67	3	20, 258	651	6. 7
Forgings, iron and steel.....	100	7	22, 557	2, 732	9. 1
Hardware.....	153	4	38, 869	904	7. 0
Stamped and enameled ware.....	247	4	49, 735	874	10. 8
Steam and hot-water heating apparatus and steam fittings.....	117	3	47, 624	12, 091	8. 1
Structural and ornamental metalwork.....	290	4	34, 345	162	7. 2
Tin cans and other tinware.....	138	3	37, 914	763	10. 1
Tools (not including edge tools, machine tools, files, and saws).....	131	3	21, 952	320	4. 9
Wirework.....	168	6	26, 756	1, 189	7. 0
<b>Machinery, not including transportation equipment</b> .....	<b>3, 884</b>	<b>97</b>	<b>1, 233, 622</b>	<b>50, 939</b>	<b>7. 4</b>
Electrical machinery, apparatus, and supplies	606	17	(2)	8, 840	5. 8
Engines, turbines, water wheels, and windmills.....	74	4	(2)	1, 084	8. 4
Foundry and machine-shop products.....	2, 284	54	419, 593	14, 833	8. 5
Machine tools.....	192	8	(2)	9, 284	8. 8
Radios and phonographs.....	75	4	63, 774	5, 324	8. 3
Textile machinery and parts.....	122	4	24, 189	3, 375	5. 6
<b>Transportation equipment</b> .....	<b>855</b>	<b>17</b>	<b>1, 126, 164</b>	<b>20, 808</b>	<b>10. 0</b>
Shipbuilding.....	224	7	(2)	1, 359	7. 8
<b>Nonferrous metals and their products</b> .....	<b>1, 140</b>	<b>22</b>	<b>262, 045</b>	<b>10, 043</b>	<b>6. 8</b>
Brass, bronze, and copper products.....	366	11	(2)	6, 372	6. 5
Sheet-metal work.....	147	3	8, 497	160	7. 6
<b>Lumber and allied products</b> .....	<b>2, 816</b>	<b>35</b>	<b>369, 231</b>	<b>5, 524</b>	<b>7. 1</b>
Furniture.....	732	6	119, 418	719	6. 6
Lumber: Sawmills.....	720	12	135, 722	3, 352	6. 5
Caskets and morticians' goods.....	104	3	5, 996	205	6. 8
<b>Stone, clay, and glass products</b> .....	<b>1, 591</b>	<b>18</b>	<b>242, 044</b>	<b>5, 286</b>	<b>7. 5</b>
Brick, tile, and terra cotta.....	528	8	48, 416	249	6. 9
<b>Textiles and their products</b> .....	<b>6, 940</b>	<b>65</b>	<b>1, 447, 334</b>	<b>18, 311</b>	<b>7. 6</b>
Fabrics.....	3, 779	52	1, 086, 631	15, 308	6. 8
Carpets and rugs.....	32	3	28, 887	557	8. 1
Cotton goods.....	815	9	451, 371	5, 512	5. 5
Knitted outerwear.....	214	4	17, 714	521	7. 6
Knitted underwear.....	137	10	39, 040	2, 469	6. 4
Silk and rayon goods.....	487	5	76, 808	254	7. 4
Woolen and worsted goods.....	413	9	172, 192	1, 664	7. 3
Wearing apparel.....	3, 161	13	360, 703	3, 003	11. 5
Clothing, women's.....	1, 142	4	93, 669	216	10. 6
Men's furnishings.....	158	4	15, 255	226	13. 3
<b>Leather and its manufactures</b> .....	<b>1, 093</b>	<b>54</b>	<b>253, 470</b>	<b>28, 663</b>	<b>5. 2</b>
Boots and shoes.....	513	43	176, 140	24, 648	5. 0
Leather.....	180	10	42, 057	3, 838	6. 4
<b>Food and kindred products</b> .....	<b>5, 336</b>	<b>48</b>	<b>523, 800</b>	<b>7, 943</b>	<b>7. 3</b>
Baking.....	1, 027	12	81, 990	1, 059	11. 4
Butter.....	314	4	5, 723	190	9. 8
Canning and preserving.....	1, 055	5	78, 239	386	12. 0
Confectionery.....	285	4	45, 694	1, 829	6. 0
Slaughtering and meat packing.....	328	7	139, 660	543	7. 5

See footnotes at end of table.



TABLE 10.—*Wage-Rate Changes Reported by Manufacturing and Nonmanufacturing Establishments During the Month Ending Dec. 15, 1941—Continued*

Group and industry	Establishments		Employees		Average percentage change in wage rates of employees having increases
	Total number covered	Number reporting increases	Total number covered	Number reporting increases	
<b>Paper and printing</b> .....	3,993	87	420,229	27,135	6.3
Boxes, paper.....	653	15	52,408	1,797	6.4
Paper and pulp.....	442	30	146,308	19,023	6.6
Printing and publishing:					
Book and job.....	1,530	15	82,432	1,316	3.5
Newspapers and periodicals..	739	14	65,017	1,270	5.9
Paper bags.....	32	4	8,928	2,541	5.7
<b>Chemical, petroleum, and coal products</b> .....	2,305	57	412,557	23,950	6.2
Petroleum refining.....	186	6	78,449	1,495	5.4
Chemicals.....	241	16	86,852	10,039	6.4
Fertilizers.....	305	5	13,366	195	13.3
Paints and varnishes.....	498	5	24,944	396	8.9
Rayon and allied products.....	31	3	51,281	7,792	6.8
Coke-oven products.....	27	3	9,411	624	9.0
<b>Miscellaneous</b> .....	1,101	22	203,143	9,283	12.2
Instruments—professional, scientific, and commercial.....	74	7	( <sup>2</sup> )	5,938	14.1
<b>All nonmanufacturing (except building construction)</b> .....	<sup>3</sup> 90,700	191	<sup>3</sup> 3,197,700	12,831	8.9
Metalliferous mining.....	<sup>3</sup> 390	4	<sup>3</sup> 78,900	1,965	5.3
Quarrying and nonmetallic mining.....	<sup>3</sup> 1,100	5	<sup>3</sup> 43,400	305	9.1
Crude-petroleum production.....	<sup>3</sup> 480	4	<sup>3</sup> 39,000	245	5.7
Public utilities:					
Electric light and power.....	<sup>3</sup> 2,600	36	<sup>3</sup> 249,400	2,161	7.5
Manufactured gas.....	<sup>3</sup> 160	20	<sup>3</sup> 33,800	2,151	8.0
Street railways and busses.....	<sup>3</sup> 350	15	<sup>3</sup> 135,300	2,345	11.7
Trade:					
Wholesale.....	<sup>3</sup> 14,760	24	<sup>3</sup> 357,200	1,901	12.6
Retail.....	<sup>3</sup> 51,290	66	<sup>3</sup> 1,164,600	452	8.2
Hotels (year-round).....	<sup>3</sup> 1,910	4	<sup>3</sup> 147,800	241	7.0
Laundries.....	<sup>3</sup> 1,270	8	<sup>3</sup> 83,300	765	9.1

<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," and in the various industry groups. No decreases reported.

<sup>2</sup> Included in group totals, but not available for publication separately.

<sup>3</sup> Approximate—based on previous month's sample.

## Public Employment

The detailed tables presented below showing public employment and pay rolls, may be grouped into four main categories: (1) Regular Federal services, table 11; (2) construction projects financed from Federal funds, tables 12–15; (3) work-relief programs of the Federal Government, tables 16–19; and (4) State road projects, table 20.

### REGULAR FEDERAL SERVICES

Table 11 covers all persons in the executive service who are employed directly by the Federal Government. It includes civilian employees of the War and Navy Departments as well as employees of the national defense agencies, but excludes the uniformed personnel of the Army, Navy, Coast Guard, and Marine Corps. Data for the legislative and judicial branches are shown in table 1 on page 5.

Force-account employees of the Federal Government, that is, persons on the pay roll of the United States Government engaged on construction work whose period of employment terminates as the project is completed, are included in table 11, and also in tables 12 and 14 under the type of construction project. Nurses, educational advisers, and supervisory and technical employees of the Civilian Conservation Corps are also included in table 11 as well as table 19.

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

### CONSTRUCTION PROJECTS

With the exception of force-account employees, the employees shown in tables 12 through 15 are not hired directly by the Federal Government but by contractors and subcontractors engaged in construction work financed wholly or partially from Federal funds. The force-account employees who are included in tables 12 and 14 also appear in table 11.

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

### WORK-RELIEF PROJECTS

Tables 16 through 19 present employment and pay-roll data for the work-relief programs of the Work Projects Administration, National Youth Administration, and Civilian Conservation Corps. The data are reported monthly to the Bureau of Labor Statistics by the respective agencies. The nurses, educational advisers, and supervisory and technical employees of the Civilian Conservation Corps, are also included in the executive service (table 11). All other data are for work-relief personnel, except for, roughly, 5 percent of the W. P. A. and N. Y. A. employees who are hired in a supervisory capacity.

### STATE ROADS

Employment and pay-roll data for the maintenance and construction of State roads that are financed wholly from State or local funds are shown in table 20. The data are reported monthly to the Bureau of Labor Statistics through the Public Roads Administration.

**TABLE 11.—Employment and Pay Rolls for the Executive Service of the Federal Government, December and November, 1941 <sup>1</sup>**

[Subject to revision]

Location and fund	Employment			Pay rolls		
	December 1941	November 1941	Percentage change	December 1941	November 1941	Percentage change
Entire service.....	1, 670, 922	1, 545, 131	+8. 1	\$254, 452, 078	\$237, 398, 486	+7. 2
Regular appropriation.....	1, 456, 564	1, 324, 314	+10. 0	216, 703, 659	203, 605, 497	+6. 4
Emergency appropriation.....	20, 339	20, 969	-3. 0	3, 016, 955	3, 101, 946	-2. 7
Force-account.....	<sup>2</sup> 194, 019	199, 848	-2. 9	<sup>2</sup> 34, 731, 464	30, 691, 043	+13. 2
Inside the District of Columbia.....	207, 214	199, 283	+4. 0	35, 930, 090	33, 938, 499	+5. 9
Regular appropriation.....	193, 190	184, 474	+4. 7	33, 314, 191	31, 228, 420	+6. 7
Emergency appropriation.....	2, 990	3, 387	-11. 7	479, 997	536, 015	-10. 5
Force-account.....	11, 034	11, 422	-3. 4	2, 135, 902	2, 174, 064	-1. 8
Outside the District of Columbia.....	1, 463, 708	1, 345, 848	+8. 8	218, 521, 988	203, 459, 987	+7. 4
Regular appropriation.....	1, 263, 374	1, 139, 840	+10. 8	183, 389, 468	172, 377, 077	+6. 4
Emergency appropriation.....	17, 349	17, 582	-1. 3	2, 536, 958	2, 565, 931	-1. 1
Force-account.....	182, 985	188, 426	-2. 9	32, 595, 562	28, 516, 979	+14. 3

<sup>1</sup> Employment data are for the last pay period of the month, pay-roll data for the calendar month.

<sup>2</sup> Also included in tables 12 and 14.

**TABLE 12.—Employment and Pay Rolls on Construction Projects Financed from Regular Federal Appropriations, by Type of Project, December 1941 <sup>1</sup>**

[Subject to revision]

Type of project	Employment		Pay rolls for the month <sup>2</sup>	Man-hours worked during month <sup>2</sup>	Average earnings per hour <sup>2</sup>	Value of material orders placed during month <sup>2</sup>
	Week ending nearest the 15th of the month	Weekly average <sup>3</sup>				
All projects.....	<sup>3</sup> 1, 059, 715	1, 039, 672	\$172, 262, 023	179, 953, 407	\$0. 957	\$249, 506, 444
Airport construction.....	74, 934	74, 927	8, 326, 658	12, 507, 281	. 666	14, 552, 696
Building construction:						
Residential.....	44, 031	43, 444	6, 234, 748	6, 581, 082	. 947	8, 337, 933
Nonresidential.....	463, 611	466, 920	78, 335, 605	79, 052, 585	. 991	94, 643, 050
Electrification:						
Rural Electrification Administration projects <sup>4</sup> .....	6, 226	5, 808	430, 458	733, 915	. 587	3, 649, 634
Other than R. E. A. projects.....	1, 235	1, 135	175, 465	158, 271	1. 109	1, 112, 903
Heavy engineering.....	3, 409	3, 409	371, 239	522, 615	. 710	298, 098
Public roads <sup>5</sup> .....	( <sup>6</sup> )	35, 700	3, 567, 525	5, 163, 637	. 691	9, 361, 523
Reclamation.....	88, 137	37, 825	6, 374, 605	6, 889, 862	. 925	14, 023, 175
River, harbor, and flood control:						
Dredging, dikes, revetments, etc.....	32, 418	30, 928	4, 341, 283	5, 176, 642	. 839	5, 189, 246
Locks and dams.....	6, 416	6, 406	954, 747	1, 082, 354	. 882	2, 421, 239
Ship construction:						
Naval vessels.....	237, 105	222, 055	45, 412, 079	44, 240, 427	1. 026	65, 611, 865
Other than naval vessels.....	88, 892	83, 793	16, 162, 914	14, 743, 021	1. 096	19, 242, 017
Streets and roads.....	6, 158	5, 922	724, 251	881, 964	. 821	1, 855, 674
Water and sewerage.....	1, 203	1, 108	137, 007	146, 798	. 933	225, 848
Miscellaneous.....	20, 240	20, 292	713, 439	2, 072, 953	. 344	8, 981, 543

<sup>1</sup> Includes 194,019 force-account employees with \$34,731,464 pay roll, which are also included in the executive service, table 11.

<sup>2</sup> Data are for the month ending on the 15th, except public-roads data, which are for the calendar month.

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

**TABLE 13.—Employment and Pay Rolls on Construction Projects Operated by the United States Housing Authority, by Geographic Division, December 1941**

[Subject to revision]

Geographic division	Employment		Pay rolls for the month <sup>1</sup>	Man-hours worked during month <sup>1</sup>	Average earnings per hour <sup>1</sup>	Value of material orders placed during month <sup>1</sup>
	Week ending nearest the 15th of the month	Weekly average <sup>1</sup>				
All divisions.....	27, 831	25, 499	\$3, 407, 691	3, 432, 948	\$0. 993	\$3, 876, 308
New England.....	4, 331	3, 890	604, 553	542, 172	1. 115	717, 723
Middle Atlantic.....	4, 696	4, 032	681, 944	515, 584	1. 323	593, 601
East North Central.....	4, 834	4, 628	725, 673	716, 754	1. 012	678, 381
West North Central.....	713	670	115, 585	88, 735	1. 303	161, 433
South Atlantic.....	6, 105	5, 765	652, 800	748, 241	. 872	778, 184
East South Central.....	1, 000	978	86, 962	120, 486	. 722	156, 096
West South Central.....	2, 395	2, 284	227, 419	276, 888	. 821	461, 119
Mountain.....	423	430	63, 318	50, 842	1. 245	111, 959
Pacific.....	1, 665	1, 348	182, 398	152, 227	1. 198	155, 368
Outside continental United States..	1, 669	1, 474	67, 039	221, 019	. 303	64, 444

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

**TABLE 14.—Employment and Pay Rolls on Federal and Non-Federal Construction Projects Financed From Public Works Administration Funds, by Type of Project, December 1941 <sup>1</sup>**

[Subject to revision]

Type of project	Employment		Pay rolls for the month <sup>2</sup>	Man-hours worked during month <sup>2</sup>	Average earnings per hour <sup>2</sup>	Value of material orders placed during month <sup>2</sup>
	Week ending nearest the 15th of the month	Weekly average <sup>2</sup>				
All projects..	2, 581	2, 378	\$479, 827	390, 857	\$1. 228	\$384, 556
Federal projects <sup>3</sup> .....	314	300	40, 719	51, 323	. 793	25, 726
Airport construction (exclusive of buildings).....	25	25	2, 761	4, 463	. 619	5, 102
Building construction.....	2	2	28	29	. 966	4, 456
Reclamation.....	285	269	36, 933	46, 343	. 797	16, 096
Miscellaneous.....	2	4	997	488	2. 043	72
Non-Federal projects <sup>4</sup> .....	2, 267	2, 078	439, 108	339, 534	1. 293	358, 830
Building construction.....	52	42	5, 422	4, 021	1. 348	9, 362
Electrification.....	92	76	16, 248	16, 515	. 984	20, 039
Heavy engineering.....	1, 967	1, 806	399, 893	302, 249	1. 323	291, 425
Streets and roads.....	75	67	4, 628	4, 417	1. 048	2, 710
Water and sewerage.....	57	57	10, 289	9, 675	1. 063	9, 294
Miscellaneous.....	24	30	2, 628	2, 657	. 989	26, 000

<sup>1</sup> Includes 104 force-account employees with \$12,852 pay roll, which are also included in the executive service, table 11.

<sup>2</sup> Data are for the month ending on the 15th.

<sup>3</sup> Financed from National Industrial Recovery Act and Public Works Administration Appropriation Act, 1938 funds.

<sup>4</sup> Financed from National Industrial Recovery Act, Emergency Relief Appropriation Act, 1935, 1936, and 1937 funds and Public Works Administration Appropriation Act, 1938 funds.

**TABLE 15.—Employment and Pay Rolls on Construction Projects Financed by the Reconstruction Finance Corporation, by Type of Project, December 1941**

[Subject to revision]

Type of project	Employment <sup>1</sup>	Pay rolls for the month <sup>2</sup>	Man-hours worked during month <sup>3</sup>	Average earnings per hour <sup>3</sup>	Value of material orders placed during month <sup>3</sup>
All projects.....	16,667	\$2,877,769	2,516,082	\$1.144	\$4,325,475
Building construction <sup>3</sup> .....	16,333	2,829,899	2,481,573	1.140	4,321,268
Streets and roads.....	118	7,110	6,519	1.091	3,417
Heavy engineering.....	216	40,760	27,990	1.456	790

<sup>1</sup> Number employed during week ending nearest the 15th of the month.

<sup>2</sup> Data are for the month ending on the 15th.

<sup>3</sup> Includes 349 employees, \$49,468 pay roll, 39,665 man-hours worked, and \$70,220 worth of material orders placed on projects financed by RFC Mortgage Co.

**TABLE 16.—Employment and Pay Rolls on Projects Financed by the Work Projects Administration, December 1941 <sup>1</sup>**

[Subject to revision]

Type of project	Employment <sup>2</sup>	Pay rolls for the month	Man-hours worked during month	Average earnings per hour
All projects.....	1,053,095	\$69,769,684	140,546,013	\$0.496
Defense.....	322,406	20,763,347	42,499,318	.489
Nondefense.....	730,689	49,006,337	98,046,695	.500

<sup>1</sup> Data are for the calendar month.

<sup>2</sup> Average of weekly employment counts as of each Wednesday during the month.

**TABLE 17.—Employment and Pay Rolls on Projects Financed by the Work Projects Administration, by Type of Project, United States and Territories, November 1941 <sup>1</sup>**

[Subject to revision]

Type of project	Employment <sup>2</sup>	Pay rolls for the month	Man-hours worked during month	Average earnings per hour
All projects.....	1,056,401	\$60,525,210	125,656,580	\$0.482
Conservation.....	26,688	1,423,754	3,013,529	.472
Highways, roads, and streets.....	348,584	17,602,863	39,894,330	.441
Community service projects, excluding sewing.....	259,731	16,354,724	31,832,180	.514
Public buildings <sup>3</sup> .....	105,052	6,607,587	12,648,136	.522
Publicly owned or operated utilities.....	91,487	5,159,095	10,378,663	.497
Recreational facilities <sup>3</sup> .....	37,797	2,268,751	4,322,765	.525
Sanitation.....	12,052	584,392	1,338,623	.437
Sewing.....	58,237	3,198,212	7,159,597	.447
Airports and airways.....	40,641	2,544,737	5,340,983	.476
Not elsewhere classified—total.....	76,132	4,781,095	9,727,774	.491
National defense vocational training.....	34,168	1,949,599	4,138,678	.471
Other.....	41,964	2,831,496	5,589,096	.507

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

<sup>2</sup> Data for all projects, airports and airways, and national defense vocational training represent the average of weekly employment counts made during the calendar month. Data for all other types of projects estimated by distributing the average for all projects on the basis of employment on the various types as of November 18, 1941.

<sup>3</sup> Construction of buildings for recreational purposes included under public buildings.

**TABLE 18.—Employment and Pay Rolls on National Youth Administration Projects, by Type of Program, November and December, 1941 <sup>1</sup>**

Type of program	Employment <sup>2</sup>		Pay rolls	
	December	November	December	November
Total.....	626, 610	651, 484	\$9, 241, 065	\$9, 882, 941
Student work program.....	338, 481	342, 509	2, 312, 174	2, 375, 097
Out-of-school work program.....	288, 129	308, 975	6, 928, 891	7, 507, 844

<sup>1</sup> Data are for the calendar month.

<sup>2</sup> Number of employees as of the last pay period of the month.

**TABLE 19.—Employment and Pay Rolls in the Civilian Conservation Corps, November and December, 1941 <sup>1</sup>**

[Subject to revision]

Type of personnel	Employment <sup>2</sup>		Pay rolls	
	December 1941	November 1941	December 1941	November 1941
All groups.....	152, 748	171, 493	\$7, 484, 630	\$8, 242, 555
Enrolled personnel <sup>3</sup> .....	129, 901	147, 287	4, 076, 012	4, 613, 932
Nurses <sup>4</sup> .....	87	105	13, 038	14, 026
Educational advisers <sup>4</sup> .....	1, 003	1, 058	177, 895	187, 759
Supervisory and technical <sup>4</sup> .....	21, 757	23, 043	3, 217, 685	3, 421, 838

<sup>1</sup> Data are for the calendar month.

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

<sup>3</sup> December data include 3,334 enrollees with \$70,518 pay roll, for work outside continental United States; the corresponding figures for November were 3,200 enrollees and \$70,416 pay roll.

<sup>4</sup> Also included in executive service, table 11.

**TABLE 20.—Employment and Pay Rolls on Construction and Maintenance of State Roads Financed Wholly from State or Local Funds, December 1940, and November and December 1941 <sup>1</sup>**

[Subject to revision]

Type of project	Employment <sup>2</sup>			Pay rolls		
	December 1941	November 1941	December 1940	December 1941	November 1941	December 1940
Total.....	149, 075	172, 553	142, 539	\$12, 903, 165	\$13, 693, 976	\$10, 889, 588
New roads.....	38, 764	53, 994	34, 310	2, 869, 533	3, 972, 128	2, 320, 342
Maintenance.....	110, 311	118, 559	108, 229	10, 033, 632	9, 721, 848	8, 569, 246

<sup>1</sup> Data are for the calendar month.

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

### *Purchases from Public Funds*

In tables 21 and 22 is presented the value of material orders placed for construction projects financed wholly or partially from Federal funds, by program and by type of material, for the fourth and third quarters of 1941, respectively. Data for the Work Projects Administration are not yet available for the fourth quarter.

The information concerning the number of man-months of labor created in final fabrication of these materials (see table 2) is obtained by sending a questionnaire to each firm receiving an award for materials. The manufacturer is requested to make an estimate of the number of man-hours created in his plant in manufacturing the materials specified in the contract. For materials purchased by contractors the Bureau estimates the number of man-months of labor created, on the basis of findings of the 1939 Census of Manufactures.

TABLE 21.—*Value of Material Orders Placed for Construction Projects Financed Wholly or Partially From Federal Funds, by Program and Type of Material, Fourth Quarter of 1941*<sup>1</sup>

[Subject to revision]

Type of material	Public Works Administration <sup>2</sup>	U. S. H. A. low-rent housing	Reconstruction Finance Corporation <sup>3</sup>	Regular Federal
All materials..	\$1,787,883	\$15,709,168	\$20,681,549	\$772,441,607
Textiles and their products.....	19	120,076	10,716	1,524,872
Awnings, tents, canvas, etc.....		720	2,355	315,543
Carpets and rugs.....			4,746	10,776
Cordage and twine.....		92	2,975	154,567
Cotton products.....				98,583
Felt products.....		815	31	30,848
Jute products.....		13		17,450
Linoleum and asphalted felt-base floor covering.....		116,670		505,266
Sacks and bags, other than paper.....				2,104
Waste and related products.....	19	4		7,332
Textiles and their products, n. e. c.....		1,762	609	382,403
Forest products.....	18,203	1,839,092	970,073	55,801,891
Cork products.....	78			80,617
Furniture and related products.....		35,091	62,953	1,584,196
Lumber and timber products, n. e. c.....	16,791	690,685	685,754	38,765,219
Planing-mill products.....	652	1,095,140	221,366	15,017,534
Window and door screens and weatherstrip.....		18,032		19,123
Forest products, n. e. c.....	682	144		335,202
Chemicals and allied products.....	4,569	303,031	105,253	7,532,143
Compressed and liquefied gases.....	701	196	7,841	301,763
Explosives.....	3,219	701	188	3,021,351
Paints, pigments, and varnishes.....	334	290,814	77,738	3,797,980
Chemicals and allied products, n. e. c.....	315	11,320	19,486	411,049
Stone, clay, and glass products.....	854,275	3,556,010	2,959,354	111,143,181
Asbestos products, n. e. c.....	1,220	28,698	69,146	831,717
Brick, hollow tile, and other clay products, n. e. c.....	10,238	561,866	429,233	5,193,800
Cement.....	273,675	191,219	524,320	41,245,194
Concrete products.....	5,901	1,720,116	616,305	15,526,868
Crushed stone.....	1,923		79,054	14,482,829
Glass.....	195	72,333	479,107	978,637
Lime.....		48,093	2,160	47,274
Marble, granite, slate, and other stone, cut and shaped.....	3,249	83,834	63,310	1,673,069
Minerals and earths, ground and otherwise treated.....				1,641
Sand and gravel.....	431,193	205,960	295,147	22,973,643
Steam and other packing, pipe and boiler covering, and gaskets.....		95,966	23,198	510,010
Tiling, floor and wall, and terrazzo.....	5,603	79,737	326,804	1,118,399
Wall plaster, wallboard, and building insulation.....	552	424,351	13,968	5,114,572
Stone, clay, and glass products, n. e. c.....	120,526	43,837	37,602	1,445,528
Iron and steel and their products, not including machinery.....	437,533	5,530,040	5,966,148	185,433,957
Bolts, nuts, washers, and rivets.....	1,169	6,933	81,746	4,533,971
Doors, shutters, window sash and frames, molding and trim, metal.....				
Firearms.....	322,064	546,158	387,398	10,487,173
				1,239

<sup>1</sup> Data unavailable for Work Projects Administration and National Youth Administration projects.

<sup>2</sup> Includes material orders placed on Public Works Administration projects financed by the Emergency Relief Appropriation Acts of 1935, 1936, and 1937, and P. W. A. A., 1938 funds.

<sup>3</sup> Includes projects financed by RFC Mortgage Co.

TABLE 21.—*Value of Material Orders Placed for Construction Projects Financed Wholly or Partially From Federal Funds, by Program and Type of Material, Fourth Quarter of 1941—Continued*

[Subject to revision]

Type of material	Public Works Administration <sup>1</sup>	U. S. H. A. low-rent housing	Reconstruction Finance Corporation	Regular Federal
<b>Iron and steel and their products—Continued.</b>				
Forgings, iron and steel.....	\$11,047	\$8	\$54,216	\$11,772,423
Hardware, miscellaneous.....	10,321	266,975	120,308	4,416,850
Heating and ventilating equipment, except pipe.....		657,330	345,045	10,588,200
Nails and spikes.....	688	8,714	33,287	1,875,536
Pipe and fittings, cast-iron.....	6,779	462,280	545,789	8,717,914
Pipe and fittings, wrought iron and steel.....	12,808	419,732	507,282	14,754,161
Plumbing fixtures and supplies, except pipe.....	14	998,002	180,292	7,006,224
Rails, steel.....			1,096	846,706
Springs, steel.....				3,901
Steel, reinforcing.....	8,322	772,528	398,932	17,791,360
Steel, structural.....	38,683	89,566	2,080,900	46,766,900
Stoves and ranges, other than electric.....		770,135		221,097
Tools, other than machine tools.....	2,468	2,497	511,738	7,640,097
Wire and wireworks products.....	1,645	33,017	71,963	8,450,600
Iron and steel and their products, n. e. c.....	21,525	496,155	646,156	29,559,605
<b>Nonferrous metals and their products.....</b>	<b>8,950</b>	<b>498,185</b>	<b>681,356</b>	<b>10,622,066</b>
Aluminum products.....				1,058,045
Copper products.....	8,776		510,822	2,636,148
Lead products.....	138	2,061		87,237
Sheet-metal products.....	36	223,350	155,533	6,088,334
Zinc products.....				10,431
Nonferrous metals and their products, n. e. c.....		272,774	15,001	741,871
<b>Machinery, not including transportation equipment.....</b>	<b>260,925</b>	<b>1,784,503</b>	<b>8,737,218</b>	<b>320,285,779</b>
Electrical machinery, apparatus, and supplies.....	94,336	85,074	1,975,890	71,358,469
Electrical wiring and fixtures.....	53,307	663,036	1,268,936	33,072,583
Elevators and elevator equipment.....	1,905	1,303	107,561	2,722,218
Engines, turbines, tractors, and water wheels.....	45,222		53,883	83,174,523
Machine tools.....			140,031	8,967,198
Meters (gas, water, etc.) and gas generators.....		52,730		16,183
Pumps and pumping equipment.....		50,087	203,632	14,271,325
Radio apparatus and supplies.....			1,049	1,721,459
Refrigerators and refrigerating and ice-making apparatus.....		660,567	14,691	528,660
Machinery, n. e. c.....	66,155	271,706	4,971,545	104,453,161
<b>Transportation equipment—land and water.....</b>	<b>161</b>	<b>464</b>	<b>39,047</b>	<b>4,829,472</b>
Boats, steel and wooden.....				175,866
Carriages and wagons.....				8,553
Locomotives, other than steam.....				
Motor vehicles, passenger.....	73		9,079	534,555
Motor vehicles, trucks.....			12,587	561,553
Transportation equipment, n. e. c.....	88	464	17,381	3,548,945
<b>Miscellaneous.....</b>	<b>203,248</b>	<b>2,077,767</b>	<b>1,212,384</b>	<b>75,268,246</b>
Belting, miscellaneous.....				26,125
Coal and coke.....	2,415	1,112	8,276	4,105,096
Instruments—professional and scientific.....	244	367	5,772	463,245
Models and patterns.....				56,510
Paper products.....	56	11,116	6,981	298,520
Paving materials—asphalt, tar, crushed slag, and mixtures.....	6,007	67,768	2,172	11,224,349
Petroleum products.....	54,906	79,677	69,233	11,935,534
Photographic apparatus and supplies.....	10	31	543	127,555
Roofing—built-up and roll, asphalt shingles, and roof coatings except paint.....	71	140,048	854,808	4,152,026
Rubber products.....	106	10,391	5,336	770,353
Window shades and fixtures.....		72,130		81,369
Other materials.....	139,433	1,695,127	259,263	42,027,664



TABLE 22.—*Value of Material Orders Placed for Construction Projects Financed Wholly or Partially from Federal Funds, by Program and Type of Material, Third Quarter of 1941*

[Subject to revision]

Type of material	Total <sup>1</sup>	Projects				
		Public Works Administration <sup>2</sup>	U. S. H. A. low-rent housing	Reconstruction Finance Corporation <sup>3</sup>	Regular Federal	Work Projects Administration
All materials.....	\$797,761,429	\$2,861,077	\$21,861,362	\$23,802,324	\$675,390,417	\$73,846,249
Textiles and their products.....	4,045,236	36,485	93,067	631	937,471	2,977,582
Cotton products.....	2,011,592	0	0	0	0	2,011,592
Textiles and their products, n. e. c.....	2,033,644	36,485	93,067	631	937,471	965,990
Forest products.....	54,777,809	309,719	3,189,478	487,636	45,301,811	5,489,165
Furniture and related products.....	2,535,825	186,469	115,344	63,077	1,970,514	200,421
Lumber and timber products, n. e. c.....	36,172,491	108,181	1,453,422	384,616	28,937,528	5,288,744
Forest products, n. e. c.....	16,069,493	15,069	1,620,712	39,943	14,393,769	0
Chemicals and allied products.....	7,105,494	56,017	278,692	91,430	4,958,032	1,721,323
Explosives.....	1,815,727	46,295	3,031	1,457	1,229,336	535,608
Paints, pigments, and varnishes.....	4,569,845	8,287	268,162	83,495	3,399,023	810,878
Chemicals and allied products, n. e. c.....	719,922	1,435	7,499	6,478	329,673	374,837
Stone, clay, and glass products.....	126,598,173	736,377	5,259,019	2,903,974	89,415,667	28,283,136
Brick, hollow tile, and other clay products.....	6,963,871	26,687	1,239,683	3,201,045	3,201,045	1,978,312
Cement.....	37,702,145	223,299	674,504	347,856	28,797,898	7,658,498
Concrete products.....	21,865,741	60,517	2,140,271	1,359,022	12,828,259	5,477,672
Crushed stone.....	17,430,880	23,583	0	7,382	11,618,029	5,781,886
Sand and gravel.....	28,355,557	314,089	301,452	118,117	22,313,207	5,308,692
Wall plaster, wallboard, and building insulation.....	6,181,256	7,539	374,810	36,725	5,302,412	459,770
Stone, clay, and glass products, n. e. c.....	8,098,723	80,663	528,209	516,728	5,354,817	1,618,306
Iron and steel and their products, not including machinery.....	180,940,548	397,877	5,986,201	7,548,461	153,363,501	13,644,508
Hardware, miscellaneous.....	5,620,271	31,225	468,069	117,413	3,794,812	1,208,752
Pipe and fittings, cast iron.....	10,471,385	18,141	361,019	78,806	7,217,539	2,795,880
Plumbing, heating, and ventilating equipment, except pipe.....	20,582,009	28,359	1,888,124	635,702	15,697,835	2,331,989
Structural and reinforcing steel.....	63,533,740	174,065	1,068,114	3,873,009	56,016,026	2,402,526
Tools, other than machine tools.....	4,568,190	32,836	5,764	329,639	3,901,674	298,277
Iron and steel and their products, n. e. c.....	76,164,953	113,251	2,195,111	2,513,892	66,735,615	4,607,084

<sup>1</sup> Data unavailable for National Youth Administration projects.

<sup>2</sup> Includes material orders placed on Public Works Administration projects financed by the Emergency Relief Appropriation Acts of 1935, 1936, and 1937 and P. W. A. A., 1938 funds.

<sup>3</sup> Includes projects financed by RFC Mortgage Co.

TABLE 22.—Value of Material Orders Placed for Construction Projects Financed Wholly or Partially from Federal Funds, by Program and Type of Material, Third Quarter of 1941—Continued

Type of material	Total	Projects				
		Public Works Administration	U. S. H. A. - low-rent housing	Reconstruction Finance Corporation	Regular Federal	Work Projects Administration
Nonferrous metals and their products.....	\$10,457,462	\$38,507	\$420,977	\$26,269	\$9,661,046	\$310,663
Machinery, not including transportation equipment.....	321,834,092	780,390	4,042,138	12,135,037	302,189,569	2,686,958
Electrical machinery, apparatus, and supplies..	84,108,563	250,158	524,692	1,499,204	80,390,643	1,443,866
Machinery, n. e. ....	237,725,529	530,232	3,517,446	10,635,833	221,798,926	1,243,092
Transportation equipment—land and water..	4,534,096	3,419	0	3,081	3,925,096	602,500
Miscellaneous.....	87,468,519	502,286	2,591,790	605,805	65,638,224	18,130,414
Coal and coke.....	7,680,416	4,596	10	1,308	7,582,807	91,695
Paving materials—asphalt, tar, crushed slag, and mixtures..	15,778,908	22,467	57,983	36,695	6,712,506	8,949,257
Petroleum products.....	13,800,940	119,770	97,934	52,705	10,802,556	2,727,975
Roofing—built-up and roll, asphalt shingles, and roof coatings except paint..	3,640,784	2,747	296,473	203,385	2,761,820	376,359
Rubber products.....	1,089,393	2,171	5,165	9,822	878,054	194,181
Other materials.....	45,478,079	350,535	2,134,225	301,890	36,900,481	5,790,947

The needs of the Work Projects Administration for motor vehicles, construction and other equipment, and miscellaneous services for use on work-relief projects, are supplied in part through the rental of equipment and the purchase of utility and miscellaneous services. These rentals and services on projects operated by the Work Projects Administration for the third quarter of 1940 and the second and third quarters of 1941 are shown in table 23, by type of rental and service.

**TABLE 23.—Value of Rentals and Services on Projects Operated by the Work Projects Administration, Third Quarter of 1940 and Second and Third Quarters of 1941**

[Subject to revision]

Type of rental and service	Third quarter, 1941	Second quarter, 1941	Third quarter, 1940
All rentals and services.....	\$59, 119, 093	\$62, 861, 650	\$61, 488, 716
Motor vehicles.....	19, 841, 691	22, 638, 954	24, 931, 270
Teams and wagons.....	196, 421	257, 786	290, 715
Construction equipment.....	20, 061, 315	18, 946, 395	18, 561, 066
Other equipment.....	2, 902, 857	3, 609, 519	2, 892, 280
Other rentals and services.....	16, 116, 809	17, 409, 000	14, 813, 385

